



# UNLEASHING POWER



# UNLOCKING VALUE



## Series M

Helical Inline Geared Motor



GEARED MOTORS · GEARBOXES · GEAR ASSEMBLIES · DRIVE SOLUTIONS





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**MOTORISED**

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**REDUCER**

|                                        |           |
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## GENERAL DESCRIPTION

Series M inline geared motors and reducers provide a very efficient and compact drive solution to meet most requirements up to 160kW with maximum output torque capacity of 20000Nm.

The range takes advantage of many years of accumulated design expertise, together with the use of high quality materials and components. The end result is a series of speed reducing and geared motors offering high load carrying capacity, high efficiency, quiet running and reliability.

### The Range Includes

13 sizes of unit with a ratio coverage of 3.6/1 to 56/1 in double reduction and up to 225/1 in triple reduction and 10000/1 in combined units.

### Unit Versions Available

Base or Flange Mounted

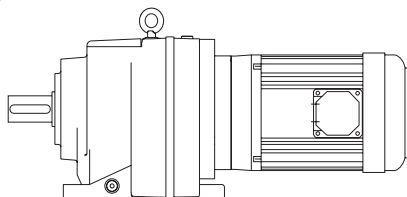
- Unit type M - Motorised with IEC standard motor
- Unit type G - Unit to allow fitting of a standard IEC motor
- Unit type R - Reducer unit
- Unit type S - Reducer unit with fan kit
- Unit type W - Reducer unit with backstop CCW rotation
- Unit type X - Reducer unit with backstop CW rotation
- Unit type Y - Reducer unit with fan and backstop CW rotation
- Unit type Z - Reducer unit with fan and backstop CCW rotation

### Design Features Include

- Patented standard motor connection (IEC).
- Ability to fit double oil seal input and output as required.
- All units being suitable to fit IEC standard motors.
- All units are dimensionally interchangeable with other major manufacturers.
- Brake geared motors are available.
- Sizes 01, 02, 03, 04, 05, 06 and 07 are all supplied with lubricant.
- Sizes 08, 09, 10, 13, 14 and 16 are supplied without lubricant.

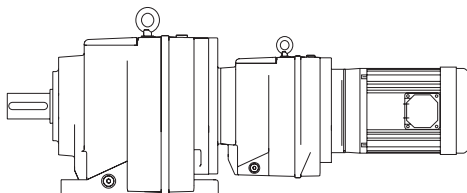
Motorised units can be fitted with a backstop module and reducer units can be fitted with a backstop and fan.

*As improvements in design are being made continually this specification is not to be regarded as binding in detail and drawings and capacities are subject to alteration without notice. Certified drawings will be sent on request.*



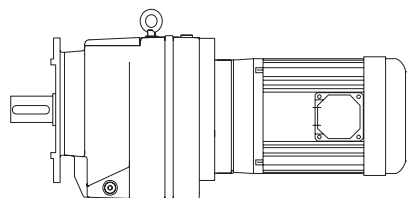
Two stage base mounted motorised

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | 0 | 3 | 2 | 2 | 8 | . | 0 | B | M | C | - | 1 | A | . | 7 | 5 | A | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



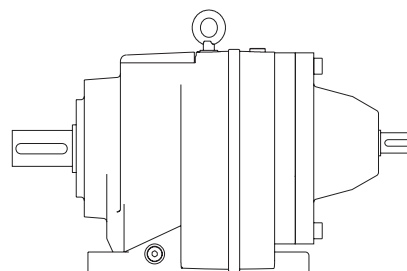
Four stage base mounted motorised

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | 0 | 6 | 4 | 2 | 2 | 5 | 0 | B | M | C | - | 1 | A | . | 1 | 8 | A | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Three stage flange mounted motorised

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | 0 | 6 | 3 | 2 | 1 | 2 | 5 | L | M | C | - | 1 | A | . | 7 | 5 | A | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Two stage base mounted reducer

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | 0 | 7 | 2 | 2 | 7 | 1 | . | B | R | C | - | 1 | - | - | - | - | - | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* Typical unit designations



# SERIES M

## UNIT DESIGNATION

| Series |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
|--------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1      | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| M      |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| M      | 0 | 3 | 2 | 2 | 8 | . | 0 | B | M  | C  | -  | 1  | A  | .  | 7  | 5  | A  | -  | .  |

Example\*

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | 0 | 3 | 2 | 2 | 8 | . | 0 | B | M | C | - | 1 | A | . | 7 | 5 | A | - | - |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**1 - Series M**Range **M****2, 3 - Size of Unit**

0 1 Through 1 6

**4 - No of Reductions**

2 Through 5

**5 - Revision Version**

2

**6, 7, 8 - Nominal Overall Ratio**

eg 8 . 0

**9 - Unit Version**

- B** - Base Mounted
- ?** - B5 (D) Flange Mounted (entry dependant on flange size)
- E** - B14 (C) Flange Mounting

**10 - Type of Unit**

- M** - Motorised with IEC standard motor
- G** - Unit to allow fitting of IEC motor (customer own motor)
- R** - Reducer unit
- S** - Reducer unit with fan kit
- W** - Reducer unit with backstop CCW rotation
- X** - Reducer unit with backstop CW rotation
- Y** - Reducer unit with fan and backstop CW rotation
- Z** - Reducer unit with fan and backstop CCW rotation

**20 - Additional Gearbox Features**

Double Oil Seal, Motorised Backstop Etc

eg - **F****19 - Additional Motor Features**eg - **A**

For Types Without Motor

Enter -

**18 - No of Motor Poles**

- No motor

|                        | 50 Hz    | 60 Hz    |
|------------------------|----------|----------|
| 4 Pole (Std) 1500 rpm  | <b>A</b> | <b>B</b> |
| 4 Pole (High) 1500 rpm | <b>K</b> | <b>L</b> |
| 6 Pole (Std) 1000 rpm  | <b>C</b> | <b>D</b> |
| 6 Pole (High) 1000 rpm | <b>M</b> | <b>N</b> |
| 2 Pole 3000 rpm        | <b>E</b> | <b>F</b> |
| 8 Pole 750 rpm         | <b>G</b> | <b>H</b> |

**S** Dual speed or special motor**15, 16, 17 - Geared Motor Powers**

Motor Power Required

eg . 7 5

For reducer and non standard motor types enter - - -

**13, 14 - Mounting Position**eg 2 **B****12 - Motor Adaptor For Unit Types**  
Column 10 Entries M, G

For All Other Types Enter -

**11 - Output Shaft**

- C** - Standard
- Z** - Special



These gear units are intended for use in industrial systems. The units are correctly installed in accordance with these instructions (gear units only) they comply with the ATEX Directive – 2014/34/EU.

Electric Motors, couplings or any other equipment fitted to the gear unit must be comply with ATEX Directive - 2014/34/EU. If the unit is supplied as a geared motor package, it is important to check the name plates of the gear unit and the motor (or any other equipment fitted) corresponds with the classification of the potentially explosive atmosphere in which the unit is to be installed. If the motor is earthed, electrical continuity is ensured by the adaptor between the motor and gearbox that is always of metallic material. It is the final responsibility of the installer to verify the electrical continuity between the engine and gearbox.

### ATEX classification

| Example                                                    |                                                                  | CE                  | Ex | II | 2 | G | Ex h | IIB  | T3 or<br>T 125 °C | Ga |
|------------------------------------------------------------|------------------------------------------------------------------|---------------------|----|----|---|---|------|------|-------------------|----|
| Meaning                                                    | Variant                                                          | ATEX Classification |    |    |   |   |      |      |                   |    |
| Classification                                             | Conformity for European Directive                                | CE                  |    |    |   |   |      |      |                   |    |
| Classification                                             | Explosion protection symbol                                      | Ex                  |    |    |   |   |      |      |                   |    |
| Device Group                                               | Above ground use                                                 |                     |    | II |   |   |      |      |                   |    |
| Category                                                   | Zone 1, 21                                                       |                     |    |    | 2 |   |      |      |                   |    |
|                                                            | Zone 2, 22                                                       |                     |    |    | 3 |   |      |      |                   |    |
| Drive design                                               | Explosive atmosphere caused by gas (presence of gas-vapor-cloud) |                     |    |    |   | G |      |      |                   |    |
|                                                            | Explosive atmosphere caused by dust                              |                     |    |    |   | D |      |      |                   |    |
| Ignition protection type                                   | Constructional safety / liquid immersion                         |                     |    |    |   |   | Ex h |      |                   |    |
| Explosion group :                                          |                                                                  |                     |    |    |   |   |      |      |                   |    |
| Area exposed to gases                                      | High ignition power required                                     |                     |    |    |   |   |      | IIA  |                   |    |
|                                                            | Medium ignition power required                                   |                     |    |    |   |   |      | IIB  |                   |    |
|                                                            | Low ignition power required                                      |                     |    |    |   |   |      | IIC  |                   |    |
| Area exposed to dust                                       | Lint                                                             |                     |    |    |   |   |      | IIIA |                   |    |
|                                                            | Non-conductive dust                                              |                     |    |    |   |   |      | IIIB |                   |    |
|                                                            | Conductive dust                                                  |                     |    |    |   |   |      | IIIC |                   |    |
| Temperature class /<br>temperature limits for the<br>zones | ≤ 450 °C                                                         |                     |    |    |   |   |      |      | T1                |    |
|                                                            | ≤ 300 °C                                                         |                     |    |    |   |   |      |      | T2                |    |
|                                                            | ≤ 200 °C                                                         |                     |    |    |   |   |      |      | T3                |    |
|                                                            | ≤ 135 °C                                                         |                     |    |    |   |   |      |      | T4                |    |
|                                                            | ≤ 100 °C                                                         |                     |    |    |   |   |      |      | T5                |    |
|                                                            | ≤ 85 °C                                                          |                     |    |    |   |   |      |      | T6                |    |
|                                                            | e.g. Max. surface temperature 125 °C.                            |                     |    |    |   |   |      |      | T 125 °C          |    |
| Equipment protection<br>level                              | Very high protection level in gas                                |                     |    |    |   |   |      |      |                   | Ga |
|                                                            | High protection level in gas                                     |                     |    |    |   |   |      |      |                   | Gb |
|                                                            | Normal protection level in gas                                   |                     |    |    |   |   |      |      |                   | Gc |
|                                                            | Very high protection level in dust                               |                     |    |    |   |   |      |      |                   | Da |
|                                                            | High protection level in dust                                    |                     |    |    |   |   |      |      |                   | Db |
|                                                            | Normal protection level dust                                     |                     |    |    |   |   |      |      |                   | Dc |

## EXPLANATION & USE OF RATINGS & SERVICE FACTORS

A gear unit selection is made by comparing actual loads with catalogue ratings. Catalogue ratings are based on a standard set of loading conditions, whereas actual load conditions vary according to type of application. Service Factors are therefore used to calculate an equivalent load to compare with catalogue ratings.

i.e. Equivalent Load = Actual Load x Service Factor

### Mechanical Ratings and Service Factors Fm and Fs

Mechanical ratings measure capacity in terms of life and/or strength, assuming 10 hr/day continuous running under uniform load conditions.

Catalogue ratings allow 100% overload at starting, braking or momentarily during operation up to 10 hours per day.

The unit selected must therefore have a catalogue rating at least equal to half maximum overload.

Mechanical Service Factor Fm (Table 1) is used to modify the actual load according to daily operating time, and type of loading.

Load characteristics for a wide range of applications are detailed in Table 3 opposite, which are used in deciding the appropriate Service Factor Fm from Table 1.

If overloads can be calculated, or accurately assessed, actual loads should be used instead of Fm.

For units subjected to frequent stop/starts overloads in excess of 10 times/day multiply factor Fm x Factor Fs (table 2).

For applications where units are to operate in extremely dusty or moist/humid atmospheres unit selection should be referred to application engineering.

**Table 1. Mechanical Service Factor (Fm)**

| Prime Mover                                         | Duration of Service<br>Hours per day | Load Classification-Driven Machine                |                                                  |                                                |
|-----------------------------------------------------|--------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------|
|                                                     |                                      | Uniform<br>mass acceleration<br>factor $\leq 0.2$ | Moderate<br>mass acceleration<br>factor $\leq 3$ | Heavy<br>mass acceleration<br>factor $\leq 10$ |
| Electric Motor, Steam<br>Turbine or Hydraulic Motor | < 3                                  | 0.80                                              | 1.00                                             | 1.50                                           |
|                                                     | 3 - 10                               | 1.00                                              | 1.25                                             | 1.75                                           |
|                                                     | > 10                                 | 1.25                                              | 1.50                                             | 2.00                                           |
| Multi-cylinder Internal<br>Combustion Engine        | < 3                                  | 1.00                                              | 1.25                                             | 1.75                                           |
|                                                     | 3 - 10                               | 1.25                                              | 1.50                                             | 2.00                                           |
|                                                     | > 10                                 | 1.50                                              | 1.75                                             | 2.25                                           |
| Single-cylinder Internal<br>Combustion Engine       | < 3                                  | 1.25                                              | 1.50                                             | 2.00                                           |
|                                                     | 3 - 10                               | 1.50                                              | 1.75                                             | 2.25                                           |
|                                                     | > 10                                 | 1.75                                              | 2.00                                             | 2.50                                           |

Mass acceleration factor =  $\frac{\text{all external moments of inertia}^*}{\text{moment of inertia of driving motor}}$

\* calculated with reference to the motor speed

**Table 2. Number of Starts Factor (Fs)**

| Start / Stops<br>per hour (1) | Upto | 5    | 10   | 40   | 60   | $\geq 200$ |
|-------------------------------|------|------|------|------|------|------------|
| Factor Fs                     | 1.00 | 1.03 | 1.06 | 1.10 | 1.15 | 1.20       |

Note:

1) Intermediate values are obtained by linear interpolation



# SERIES M

## LOAD CLASSIFICATION BY APPLICATION

**Load Classifications -** U =Uniform Load M =Moderate Shock Load H =Heavy Shock Load † =Consult our Engineers

|                                            |   |                                    |   |                            |   |                               |   |
|--------------------------------------------|---|------------------------------------|---|----------------------------|---|-------------------------------|---|
| <b>Agitators</b>                           |   | <b>Elevators</b>                   |   | <b>Machine Tools</b>       |   | <b>Pumps</b>                  |   |
| Pure liquids                               | U | Bucket - Uniform load              | U | Bending roll               | M | Centrifugal proportioning     | U |
| Liquids and solids                         | M | Bucket - Heavy load                | M | Punch press                | H | Proportioning                 | M |
| Liquids variable density                   | M | Bucket - Continuous                | U | Notching press             | H | Reciprocating                 |   |
|                                            |   | Centrifugal discharge              | U | Plate planer               | H | Single acting 3+ cylinders    | M |
| <b>Blowers</b>                             |   | Escalators                         | U | Other machine tools        |   | Double acting 2+ cylinders    | M |
| Centrifugal                                | U | Freight                            | M | Main drive                 | M | Single acting 1 & 2 cylinders | † |
| Lobe                                       | M | Gravity discharge                  | U | Aux drive                  | U | Double acting 1 cylinder      | † |
| Vane                                       | U | Passenger lifts                    | † |                            |   | Rotary- gear type             | U |
|                                            |   |                                    |   | <b>Metal mills</b>         |   | Rotary- lobe type/ vane       | U |
| <b>Brewing &amp; distilling</b>            |   | <b>Fans</b>                        |   | Carriage/main drive        | M |                               |   |
| Bottling machinery                         | M | Centrifugal                        | U | Draw bench                 | M | <b>Sand muller</b>            | M |
| Brew Kettles                               | M | Cooling towers                     |   | Dryer                      | M |                               |   |
| Cookers                                    | M | Induced draft                      | † | Flattening machinery       | M | <b>Sewage treatment</b>       | U |
| Mash tubs                                  | M | Forced draft                       | † | Pinch drive                | M | Bar screen                    | U |
| Scale hopper                               | M | Fan - Large diameter induced draft | M | Reversing slitters         | M | Chemical feeder               | U |
|                                            |   | Fan - Light, small diameter        | M | Scrubber rolls             | M | Collector                     | U |
| <b>Can filling machinery</b>               | M | <b>Feeders</b>                     |   | Table conveyors            |   | Dewatering screw              | M |
|                                            |   | Apron                              | M | Group drives               | H | Mixers                        | M |
| <b>Crane knife</b>                         | M | Belt                               | M | Individual drives          | H | Scum breaker                  | M |
|                                            |   | Disc                               | U | Table conveyors- reversing | H | Thickness                     | M |
| <b>Car dumper</b>                          | M | Reciprocating                      | H | Wire draw                  | M | Vacuum filters                | M |
|                                            |   | Screw                              | M | Wire roll                  | M |                               |   |
| <b>Car puller</b>                          | M |                                    |   | <b>Mills</b>               |   | <b>Screens</b>                |   |
| <b>Clarifier</b>                           | U | <b>Food industry</b>               |   | Cement kiln                | H | Air washing                   | U |
|                                            |   | Cereal cooker                      | U | Dryer, Cooler              | H | Rotary, stone or gravel       | M |
| <b>Classifier</b>                          | M | Dough mixer                        | M | Kiln (other)               | H | Traveling water intake        | U |
|                                            |   | Meat grinder                       | M | Rod plain                  | H |                               |   |
| <b>Clay wokring machinery</b>              |   | Meat slicer                        | M | Rod wedge bar              | H | <b>Slab pushers</b>           | M |
| Brick press                                | H |                                    |   | Rotary/ Ball               | H |                               |   |
| Briquette machine                          | H | <b>Generators - not welding</b>    | U | Tumbling barrel            | H | <b>Slewing</b>                | H |
| Clay working machinery                     | M |                                    |   |                            |   |                               |   |
| Plug mill                                  | M | <b>Hammer mills</b>                | H | <b>Mixers</b>              |   | <b>Steering gear</b>          | † |
|                                            |   |                                    |   | Concrete                   | M |                               |   |
| <b>Compressors</b>                         |   | <b>Hoists</b>                      |   | Cons density               | U | <b>Stokers</b>                | U |
| Centrifugal                                | U | Heavy duty                         | H | Variable density           | M |                               |   |
| Lobe                                       | M | Medium duty                        | M |                            |   | <b>Sugar industry</b>         |   |
| Reciprocating                              |   | Skip hoist                         | M | <b>Oil industry</b>        |   | Can knife                     | M |
| Multi cylinder                             | M |                                    |   | Chiller's                  | M | Crusher                       | M |
| Single cylinder                            | H | <b>Laundry</b>                     |   | Oil well pump              | M | Mills                         | M |
|                                            |   | Tumbler                            | M | Filter press               | M |                               |   |
| <b>Conveyors- Light duty uniform load</b>  |   | Washer                             | M | Rotary kiln                | M | <b>Textile industry</b>       |   |
| Apron                                      | U | <b>Line shafts</b>                 |   | <b>Paper industry</b>      |   | Batchers                      | M |
| Assembly                                   | U | Heavy duty                         | M | Agitator (mixer)           | M | Calenders                     | M |
| Belt                                       | U | Light duty                         | U | Barker (hydraulic)         | M | Cards                         | M |
| Bucket                                     | U |                                    |   | Barker (mechanical)        | H | Dry cans                      | M |
| Chain                                      | U | <b>Lumber industry</b>             |   | Barking drum               | H | Dryers                        | M |
| Flight                                     | U | Barkers                            | M | Beater & Pulper            | M | Dyeing machinery              | M |
| Oven                                       | U | Burner conveyor                    | H | Bleacher                   | U | Knitting machinery            | M |
| Screw                                      | U | Chain/ Drag saw                    | H | Calendnders                | M | Looms                         | M |
|                                            |   | Chain transfer                     | H | Calenders- super           | H | Mangles                       | M |
| <b>Conveyors - Heavy duty uniform load</b> |   | Chain way transfer                 | H | Converting machine         | M | Nappers                       | M |
| Apron                                      | M | De- barking drum                   | H | Conveyors                  | U | Pads                          | M |
| Assembly                                   | M | Edger feed                         | M | Couch                      | M | Range drive                   | M |
| Belt                                       | M | Gang feed                          | M | Cutters - plates           | H | Slashers                      | M |
| Bucket                                     | M | Green chain                        | M | Cylinders                  | M | Soapers                       | M |
| Chain                                      | M | Live roll                          | M | Dryers                     | M | Spinners                      | M |
| Flight                                     | M | Log deck                           | H | Felt stretcher             | M | Tenter frame                  | M |
| Live roll                                  | † | Log haul                           | H | Felt whipper               | H | Washers                       | M |
| Oven                                       | M | Log turning                        | H | Jordans                    | M | Winders                       | M |
| Reciprocating                              | M | Log conveyoyr                      | H | Log haul                   | H |                               |   |
| Screw                                      | M | Of bearing roll                    | M | Machine real               | M | <b>Windlass</b>               | † |
| Shaker                                     | M | Planer feed chaines                | M | Presses                    | M |                               |   |
|                                            |   | Planer hoist                       | M | Stock chest                | M |                               |   |
| <b>Cranes</b>                              | † | Re-saw conveyor                    | M | Suction roll               | M |                               |   |
|                                            |   | Roll cases                         | H | Washers & thickeners       | M |                               |   |
| <b>Crusher</b>                             |   | Slab conveyor                      | H | Winders                    | M |                               |   |
| Ore                                        | H | Sorting table - triple hoist       | M |                            |   |                               |   |
| Stone                                      | H | Triple hoist - Drive /conveyor     | M | <b>Printing presses</b>    | † |                               |   |
| Sugar                                      | H | Transfer converor                  | M |                            |   |                               |   |
|                                            |   | Transfer roll                      | M | <b>Pullers</b>             |   |                               |   |
| <b>Dredger</b>                             | M | Tray drive                         | M | Barge haul                 | H |                               |   |
| Cable reals                                | M | Trimmer feed                       | M |                            |   |                               |   |
| Conveyors                                  | M | Waster conveyor                    | M |                            |   |                               |   |
| Cutter head drive                          | H | Small waste conveyor (belt)        | U |                            |   |                               |   |
| Pumps                                      | M | Small waste conveyor (chain)       | U |                            |   |                               |   |
| Screen drive                               | H |                                    |   |                            |   |                               |   |
| Stackers                                   | M |                                    |   |                            |   |                               |   |
| Winches                                    | M |                                    |   |                            |   |                               |   |

## SELECTION PROCEDURE FOR MOTORISED UNITS

### EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.7 kW  
 Output speed of gearbox or Input speed of machine = 63 rev/min  
 Application = Uniformly loaded belt conveyor  
 Duration of service (hours per day) = 24hrs  
 Mounting position = 1  
 Ambient temperature = 20°C  
 Running time (%) = 100%

### 2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

$$\frac{\text{Absorbed output torque}}{\text{Gearbox output speed}} = \frac{\text{Absorbed power} \times 9550}{\text{Gearbox output speed}}$$

$$\frac{0.7 \times 9550}{63} = 106 \text{ Nm}$$

### 1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 3, page 4

Application = Uniformly loaded belt conveyor

| Conveyors-uniformly loaded or fed |  | U | Uniform load |
|-----------------------------------|--|---|--------------|
| apron                             |  | U |              |
| assembly                          |  | U |              |
| belt                              |  | U |              |
| bucket                            |  | U |              |
| chain                             |  | U |              |

Refer to mechanical service factor (Fm), table 1, page 3

Duration of service (hours per day) = 24hrs

| Prime mover                                      | Duration of service-hrs per day | Load classification-drive |          |
|--------------------------------------------------|---------------------------------|---------------------------|----------|
|                                                  |                                 | Uniform                   | Moderate |
| Electric motor, steam turbine or hydraulic motor | < 3                             | 0.80                      | 1.00     |
|                                                  | 3 - 10                          | 1.00                      | 1.25     |
|                                                  | >10                             | 1.25                      | 1.50     |

Therefore mechanical service factor (Fm) = 1.25

If the unit is subject to frequent start/stops Fm must be multiplied by factor Fs (see table 2 page 3)

### 3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.

Absorbed power = 0.7 kW, therefore refer to 0.75 kW selection table.

Always select from 4 POLE selection table in the first instance as this offers a more economical solution.

Required output speed of gearbox = 63 rev/min - Choose the nearest speed = 65 rev/ min

**0.75 kW**

**4 POLE**

| N2 RPM       | i     | M2 Nm         | Fm             | N             | UNIT DESIGNATION                                                     | kg                        |                  |
|--------------|-------|---------------|----------------|---------------|----------------------------------------------------------------------|---------------------------|------------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20<br>Spaces to be filled when entering order | Weight of Base Mount Unit | Motor Frame Size |
| 178          | 8.00  | 40            | 3.47           | 3417          | M02228.0_M_...75A--                                                  | 30                        | 80               |
| 156          | 9.09  | 45            | 3.14           | 3425          | M02229.0_M_...75A--                                                  | 30                        | 80               |
| 127          | 11.15 | 55            | 2.65           | 3506          | M022211_M_...75A--                                                   | 30                        | 80               |
| 115          | 12.37 | 61            | 2.45           | 3565          | M022212_M_...75A--                                                   | 30                        | 80               |
| 101          | 14.05 | 69            | 2.22           | 3734          | M022214_M_...75A--                                                   | 30                        | 80               |
| 89           | 15.97 | 79            | 2.04           | 3926          | M022216_M_...75A--                                                   | 30                        | 80               |
| 81           | 17.58 | 87            | 1.86           | 4000          | M022218_M_...75A--                                                   | 30                        | 80               |
| 70           | 20.23 | 100           | 1.61           | 4000          | M022220_M_...75A--                                                   | 30                        | 80               |
| 65           | 21.99 | 109           | 1.48           | 4000          | M022222_M_...75A--                                                   | 30                        | 80               |
| 54           | 26.40 | 130           | 1.24           | 4000          | M022228_M_...75A--                                                   | 30                        | 80               |

### 4 CHECK OUTPUT TORQUE

Output torque (M2) of selected unit must be equal or more than required output torque at gearbox outputshaft.

Required output torque at gearbox outputshaft = 106 Nm

**0.75 kW**

**4 POLE**

| N2 RPM       | i     | M2 Nm         | Fm             | N             | UNIT DESIGNATION                                                     | kg                        |                  |
|--------------|-------|---------------|----------------|---------------|----------------------------------------------------------------------|---------------------------|------------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20<br>Spaces to be filled when entering order | Weight of Base Mount Unit | Motor Frame Size |
| 178          | 8.00  | 40            | 3.47           | 3417          | M02228.0_M_...75A--                                                  | 30                        | 80               |
| 156          | 9.09  | 45            | 3.14           | 3425          | M02229.0_M_...75A--                                                  | 30                        | 80               |
| 127          | 11.15 | 55            | 2.65           | 3506          | M022211_M_...75A--                                                   | 30                        | 80               |
| 115          | 12.37 | 61            | 2.45           | 3565          | M022212_M_...75A--                                                   | 30                        | 80               |
| 101          | 14.05 | 69            | 2.22           | 3734          | M022214_M_...75A--                                                   | 30                        | 80               |
| 89           | 15.97 | 79            | 2.04           | 3926          | M022216_M_...75A--                                                   | 30                        | 80               |
| 81           | 17.58 | 87            | 1.86           | 4000          | M022218_M_...75A--                                                   | 30                        | 80               |
| 70           | 20.23 | 100           | 1.61           | 4000          | M022220_M_...75A--                                                   | 30                        | 80               |
| 65           | 21.99 | 109           | 1.48           | 4000          | M022222_M_...75A--                                                   | 30                        | 80               |
| 54           | 26.40 | 130           | 1.24           | 4000          | M022228_M_...75A--                                                   | 30                        | 80               |

Go to point 5



# SERIES M

## SELECTION PROCEDURE FOR MOTORISED UNITS

### 5 CHECK SERVICE FACTOR

Service factor (Fm) of selected unit must be equal or more than required service factor.

Required service factor of gearbox = 1.25

| 0.75 kW<br>4 POLE | N2<br>RPM                                                     | i                                                                                    | M2<br>Nm                                                    | Fm                                                                           | N                                                                            | UNIT DESIGNATION                                                                                                                                                                                                         | kg                                                       |                                                          |
|-------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
|                   | Output<br>Speed                                               | Ratio                                                                                | Output<br>Torque                                            | Service<br>Factor                                                            | Overhung<br>Load                                                             | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering order                                                                                                                           | Weight of<br>Base<br>Mount Unit                          | Motor<br>Frame<br>Size                                   |
|                   | 178<br>156<br>127<br>115<br>101<br>89<br>81<br>70<br>65<br>54 | 8.00<br>9.09<br>11.15<br>12.37<br>14.05<br>15.97<br>17.58<br>20.23<br>21.99<br>26.40 | 40<br>45<br>55<br>61<br>69<br>79<br>87<br>100<br>109<br>130 | 3.47<br>3.14<br>2.65<br>2.45<br>2.22<br>2.04<br>1.86<br>1.61<br>1.48<br>1.24 | 3417<br>3425<br>3506<br>3565<br>3734<br>3926<br>4000<br>4000<br>4000<br>4000 | M02228.0_M_-.75A--<br>M02229.0_M_-.75A--<br>M022211._M_-.75A--<br>M022212._M_-.75A--<br>M022214._M_-.75A--<br>M022216._M_-.75A--<br>M022218._M_-.75A--<br>M022220._M_-.75A--<br>M022222._M_-.75A--<br>M022228._M_-.75A-- | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 |

Selected unit's service factor (Fm) = 1.48 therefore unit is acceptable.

Alternatively a M03 unit could be selected which has a greater service factor

| 0.75 kW<br>4 POLE | N2<br>RPM                                              | i                                                                            | M2<br>Nm                                              | Fm                                                                   | N                                                                    | UNIT DESIGNATION                                                                                                                                                                                   | kg                                                 |                                                    |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
|                   | Output<br>Speed                                        | Ratio                                                                        | Output<br>Torque                                      | Service<br>Factor                                                    | Overhung<br>Load                                                     | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering order                                                                                                     | Weight of<br>Base<br>Mount Unit                    | Motor<br>Frame<br>Size                             |
|                   | 156<br>127<br>115<br>101<br>89<br>81<br>70<br>65<br>54 | 9.09<br>11.15<br>12.37<br>14.05<br>15.97<br>17.58<br>20.23<br>21.99<br>26.40 | 45<br>55<br>61<br>69<br>79<br>87<br>100<br>109<br>130 | 3.76<br>3.28<br>3.07<br>2.81<br>2.63<br>2.42<br>2.11<br>1.94<br>1.63 | 2707<br>2667<br>2749<br>2935<br>3148<br>3284<br>3496<br>3603<br>3366 | M03229.0_M_-.75A--<br>M032211._M_-.75A--<br>M032212._M_-.75A--<br>M032214._M_-.75A--<br>M032216._M_-.75A--<br>M032218._M_-.75A--<br>M032220._M_-.75A--<br>M032222._M_-.75A--<br>M032228._M_-.75A-- | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 |

Selected unit's service factor (Fm) = 1.94 therefore unit is acceptable.

### 6 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 93, and compare with allowable overhung load (N) of selected unit

Allowable overhung load (N) must be equal or more than calculated overhung load (P)

| 0.75 kW<br>4 POLE | N2<br>RPM                                              | i                                                                            | M2<br>Nm                                              | Fm                                                                   | N                                                                    | UNIT DESIGNATION                                                                                                                                                                                   | kg                                                 |                                                    |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
|                   | Output<br>Speed                                        | Ratio                                                                        | Output<br>Torque                                      | Service<br>Factor                                                    | Overhung<br>Load                                                     | Column Entry <span>1</span> Through <span>20</span><br>Spaces to be filled when entering order                                                                                                     | Weight of<br>Base<br>Mount Unit                    | Motor<br>Frame<br>Size                             |
|                   | 156<br>127<br>115<br>101<br>89<br>81<br>70<br>65<br>54 | 9.09<br>11.15<br>12.37<br>14.05<br>15.97<br>17.58<br>20.23<br>21.99<br>26.40 | 45<br>55<br>61<br>69<br>79<br>87<br>100<br>109<br>130 | 3.76<br>3.28<br>3.07<br>2.81<br>2.63<br>2.42<br>2.11<br>1.94<br>1.63 | 2707<br>2667<br>2749<br>2935<br>3148<br>3284<br>3496<br>3603<br>3366 | M03229.0_M_-.75A--<br>M032211._M_-.75A--<br>M032212._M_-.75A--<br>M032214._M_-.75A--<br>M032216._M_-.75A--<br>M032218._M_-.75A--<br>M032220._M_-.75A--<br>M032222._M_-.75A--<br>M032228._M_-.75A-- | 30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 |

NOTE: If any of the following conditions occur then consult Application Engineering:-

- a) Mass acceleration factor > 10
- b) Ambient temperature is above 40°C

Thermal rating should be checked  
(Refer page no. 112)

**Unit Versions Column 9 Entry**

- B** - Base Mounted  
**E** - Flange mount with B14 (C) Flange Mounting

**Flange Mounted**

Letter Entry Depends on Flange Diameter See tables below

Flange  
DiameterColumn  
9 Entry

120

**H**

140

**J**

160

**K**

200

**L**

250

**N**Flange  
DiameterColumn  
9 Entry

300

**P**

350

**R**

450

**S**

550

**T**

660

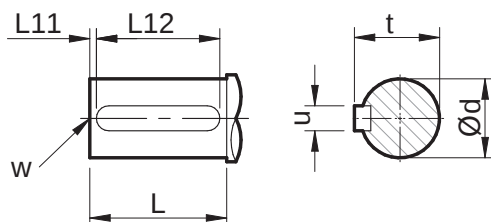
**U**

| Size   |        |           |           | Flange Dia | Column 9 Entry |
|--------|--------|-----------|-----------|------------|----------------|
| Double | Triple | Quadruple | Quintuple |            |                |
| M0122  | M0132  | -         | -         | 120        | H              |
|        |        |           |           | 140        | J              |
|        |        |           |           | 160        | K              |
|        |        |           |           | 200        | L              |
| M0222  | M0232  | -         | -         | 120        | H              |
|        |        |           |           | 140        | J              |
|        |        |           |           | 160        | K              |
|        |        |           |           | 200        | L              |
| M0322  | M0332  | M0342     | M0352     | 120        | H              |
|        |        |           |           | 140        | J              |
|        |        |           |           | 160        | K              |
|        |        |           |           | 200        | L              |
| M0422  | M0432  | M0442     | M0452     | 140        | J              |
|        |        |           |           | 160        | K              |
|        |        |           |           | 200        | L              |
|        |        |           |           | 250        | N              |
| M0522  | M0532  | M0542     | M0552     | 140        | J              |
|        |        |           |           | 160        | K              |
|        |        |           |           | 200        | L              |
|        |        |           |           | 250        | N              |
| M0622  | M0632  | M0642     | M0652     | 200        | L              |
|        |        |           |           | 250        | N              |
|        |        |           |           | 300        | P              |
| M0722  | M0732  | M0742     | M0752     | 200        | L              |
|        |        |           |           | 250        | N              |
|        |        |           |           | 300        | P              |
| M0822  | M0832  | M0842     | M0852     | 300        | P              |
|        |        |           |           | 350        | R              |
| M0922  | M0932  | M0942     | M0952     | 350        | R              |
|        |        |           |           | 450        | S              |
| M1022  | M1032  | M1042     | M1052     | 350        | R              |
|        |        |           |           | 450        | S              |
| M1322  | M1332  | M1342     | M1352     | 450        | S              |
|        |        |           |           | 550        | T              |
| M1422  | M1432  | M1442     | M1452     | 450        | S              |
|        |        |           |           | 550        | T              |
| M1622  | M1632  | M1642     | M1652     | 550        | T              |
|        |        |           |           | 660        | U              |

## OUTPUT SHAFT OPTIONS

### Outputshaft Options

\* Inch shaft has an open ended keyway, therefore no 'L11' dimension is required.



### Column 11 Entry

C Standard

### Outputshaft options - double, triple, quadruple and quintuple reduction

| Size | Output shaft | Column 11 entry | Dimensions in mm  |     |     |     |      |    |          |
|------|--------------|-----------------|-------------------|-----|-----|-----|------|----|----------|
|      |              |                 | Ød                | L   | L11 | L12 | t    | u  | w        |
| M01  | Standard     | C               | 20.015 / 20.002   | 40  | 4   | 32  | 22.5 | 6  | M6 x 16  |
| M02  | Standard     | C               | 25.015 / 25.002   | 50  | 4   | 40  | 28   | 8  | M10 x 22 |
| M03  | Standard     | C               | 25.015 / 25.002   | 50  | 4   | 40  | 28   | 8  | M10 x 22 |
| M04  | Standard     | C               | 30.015 / 30.002   | 60  | 4   | 50  | 33   | 8  | M10 x 22 |
| M05  | Standard     | C               | 35.018 / 35.002   | 70  | 7   | 60  | 38   | 10 | M12 x 28 |
| M06  | Standard     | C               | 35.018 / 35.002   | 70  | 7   | 60  | 38   | 10 | M12 x 28 |
| M07  | Standard     | C               | 40.018 / 40.002   | 80  | 5   | 70  | 43   | 12 | M16 x 36 |
| M08  | Standard     | C               | 50.018 / 50.002   | 100 | 10  | 80  | 53.5 | 14 | M16 x 36 |
| M09  | Standard     | C               | 60.030 / 60.011   | 120 | 5   | 100 | 64   | 18 | M20 x 42 |
| M10  | Standard     | C               | 70.030 / 70.011   | 140 | 7   | 110 | 74.5 | 20 | M20 x 42 |
| M13  | Standard     | C               | 90.035 / 90.013   | 170 | 5   | 140 | 95   | 25 | M24 x 50 |
| M14  | Standard     | C               | 110.035 / 110.013 | 210 | 10  | 180 | 116  | 28 | M24 x 50 |
| M16  | Standard     | C               | 120.035 / 120.13  | 210 | 5   | 200 | 127  | 32 | M24 x 50 |



## MOTOR ADAPTERS

Double Reduction Units

## Integral Motor 4 Pole - Column 19 Entry - I

| Power   | M0122     | M0222     | M0322     | M0422     | M0522     | M0622     | M0722     | M0822     |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|         | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. |
| 0.25 Kw | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.37 Kw | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.55 Kw | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.75 Kw | •         | •         | •         | •         | •         | •         | •         | •         |
| 1.1 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 1.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 2.2 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 3.0 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 4.0 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 5.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |
| 7.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         |

## Standard Motor IEC B14- Column 12 entry

| Motor | M0122     | M0222     | M0322     | M0422     | M0522     | M0622     | M0722     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|       | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. |
| 71    | H         | H         | H         | H         | H         | H         | H         |
| 80    | B         | K         | B         | K         | G         | G         | G         |
| 90    | D         | R         | D         | R         | J         | J         | J         |
| 100   | E         | S         | E         | S         | B         | B         | B         |
| 112   | E         | S         | E         | S         | B         | B         | B         |

## Standard Motor IEC B5- Column 12 entry

| Motor | M0122     | M0222     | M0322     | M0422     | M0522     | M0622     | M0722     | M0822     | M0922     | M1022     | M1322     | M1422     | M1622     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|       | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. |
| 63    | F         | F         | F         | F         | V         | V         | V         | V         | V         | V         | V         | V         | V         |
| 71    | G         | G         | G         | G         | D         | D         | D         | D         | D         | D         | D         | D         | D         |
| 80    | A         | J         | A         | J         | W         | W         | W         | W         | W         | W         | W         | W         | W         |
| 90    | C         | Q         | C         | Q         | Y         | Y         | Y         | Y         | Y         | Y         | Y         | Y         | Y         |
| 100   | •         | •         | •         | •         | A         | A         | A         | A         | A         | A         | A         | A         | A         |
| 112   | •         | •         | •         | •         | A         | A         | A         | A         | A         | A         | A         | A         | A         |
| 132   | •         | •         | •         | •         | N         | N         | N         | N         | N         | N         | N         | N         | N         |
| 160   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 180   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 200   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 225   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 250   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 280   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 315   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |

## MOTOR ADAPTERS

### Triple Reduction Units

#### Integral Motor 4 Pole - Column 19 Entry - I

| Power   | M0132     | M0232     | M0332     | M0432     | M0532     | M0632     | M0732     | M0832     | M0932     |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|         | 200       | 200       | 200       | 200       | 200       | 225       | 200       | 200       | 200       |
|         | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 | 56. - 200 |
| 0.25 Kw | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.37 Kw | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.55 Kw | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 0.75 Kw | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 1.1 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 1.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 2.2 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 3.0 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 4.0 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 5.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 7.5 Kw  | •         | •         | •         | •         | •         | •         | •         | •         | •         |

#### Standard Motor IEC B14- Column 12 entry

| Motor | M0132     | M0232     | M0332     | M0432     | M0532     | M0632     | M0732     | M0832     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|       | 200       | 200       | 200       | 200       | 200       | 225       | 200       | 200       |
|       | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 |
| 71    | H         | H         | H         | H         | H         | H         | G         | G         |
| 80    | K         | K         | K         | K         | K         | K         | J         | J         |
| 90    | R         | R         | R         | R         | R         | R         | L         | L         |
| 100   | S         | S         | S         | S         | S         | S         | L         | L         |
| 112   | S         | S         | S         | S         | S         | S         | L         | L         |

#### Standard Motor IEC B5- Column 12 entry

| Motor | M0132     | M0232     | M0332     | M0432     | M0532     | M0632     | M0732     | M0832     | M0932     | M1032     | M1332     | M1432     | M1632     |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|       | 200       | 200       | 200       | 200       | 200       | 225       | 200       | 200       | 200       | 200       | 50.       | 200       | 50.       |
|       | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 45. - 50. | 56. - 200 | 45. - 50. |
| 63    | F         | F         | F         | F         | F         | F         | V         | •         | •         | •         | •         | •         | •         |
| 71    | G         | G         | G         | G         | G         | G         | D         | •         | •         | •         | •         | •         | •         |
| 80    | J         | J         | J         | J         | J         | J         | F         | •         | •         | •         | •         | •         | •         |
| 90    | Q         | Q         | Q         | Q         | Q         | Q         | H         | •         | •         | •         | •         | •         | •         |
| 100   | •         | •         | •         | •         | •         | •         | K         | •         | •         | •         | •         | •         | •         |
| 112   | •         | •         | •         | •         | •         | •         | K         | •         | •         | •         | •         | •         | •         |
| 132   | •         | •         | •         | •         | •         | •         | P         | •         | •         | •         | •         | •         | •         |
| 160   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 180   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 200   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 225   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 250   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| 280   | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |

### Quadruple Reduction Units

#### Integral Motor 4 Pole - Column 19 Entry - I

| Power   | M0342      | M0442      | M0542      | M0642      | M0742      | M0842      | M0942      | M1042      | M1342      | M1442      |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|         | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 0.25 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.37 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.55 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.75 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 1.1 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 1.5 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 2.2 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 3.0 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 4.0 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 5.5 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 7.5 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |

#### Standard Motor IEC B14- Column 12 entry

| Motor | M0342      | M0442      | M0542      | M0642      | M0742      | M0842      | M0942      | M1042      | M1342      | M1442      |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 71    | H          | H          | H          | H          | H          | •          | •          | •          | •          | •          |
| 80    | K          | K          | K          | K          | K          | G          | G          | G          | G          | G          |
| 90    | R          | R          | R          | R          | R          | J          | J          | J          | J          | J          |
| 100   | S          | S          | S          | S          | S          | L          | L          | L          | L          | L          |
| 112   | S          | S          | S          | S          | S          | L          | L          | L          | L          | L          |

#### Standard Motor IEC B5- Column 12 entry

| Motor | M0342      | M0442      | M0542      | M0642      | M0742      | M0842      | M0942      | M1042      | M1342      | M1442      | M1642      |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 63    | F          | F          | F          | F          | F          | V          | V          | •          | •          | •          | •          |
| 71    | G          | G          | G          | G          | G          | D          | D          | •          | •          | •          | •          |
| 80    | J          | J          | J          | J          | J          | F          | F          | F          | F          | F          | F          |
| 90    | Q          | Q          | Q          | Q          | Q          | H          | H          | H          | H          | H          | H          |
| 100   | •          | •          | •          | •          | •          | K          | K          | K          | K          | K          | G          |
| 112   | •          | •          | •          | •          | •          | K          | K          | K          | K          | K          | G          |
| 132   | •          | •          | •          | •          | •          | P          | P          | M          | M          | M          | H          |
| 160   | •          | •          | •          | •          | •          | •          | •          | P          | P          | P          | J          |

## MOTOR ADAPTERS

### Quintuple Reduction Units

#### Integral Motor 4 Pole - Column 19 Entry - I

| Power   | M0352      | M0452      | M0552      | M0652      | M0752      | M0852      | M0952      | M1052      | M1352      | M1452      | M1652      |
|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|         | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 0.25 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.37 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.55 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 0.75 Kw | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 1.1 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 1.5 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 2.2 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |
| 3.0 Kw  | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          |

#### Standard Motor IEC B14- Column 12 entry

| Motor | M0352      | M0452      | M0552      | M0652      | M0752      | M0852      | M0952      | M1052      | M1352      | M1452      |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 71    | H          | H          | H          | H          | H          | H          | H          | H          | •          | •          |
| 80    | K          | K          | K          | K          | K          | K          | K          | K          | G          | G          |
| 90    | R          | R          | R          | R          | R          | R          | R          | R          | J          | J          |
| 100   | S          | S          | S          | S          | S          | S          | S          | S          | L          | L          |
| 112   | S          | S          | S          | S          | S          | S          | S          | S          | L          | L          |

#### Standard Motor IEC B5- Column 12 entry

| Motor | M0352      | M0452      | M0552      | M0652      | M0752      | M0852      | M0952      | M1052      | M1352      | M1452      | M1652      |
|-------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|       | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios | All Ratios |
| 63    | F          | F          | F          | F          | F          | F          | F          | V          | V          | V          | •          |
| 71    | G          | G          | G          | G          | G          | G          | G          | D          | D          | D          | •          |
| 80    | J          | J          | J          | J          | J          | J          | J          | F          | F          | F          | D          |
| 90    | Q          | Q          | Q          | Q          | Q          | Q          | Q          | H          | H          | H          | E          |
| 100   | •          | •          | •          | •          | •          | •          | •          | K          | K          | K          | F          |
| 112   | •          | •          | •          | •          | •          | •          | •          | K          | K          | K          | F          |
| 132   | •          | •          | •          | •          | •          | •          | •          | P          | P          | P          | G          |
| 160   | •          | •          | •          | •          | •          | •          | •          | •          | •          | •          | H          |

M01,M02,M03,M04,M05,M06,& M07 Units, are supplied factory filled with EP mineral oil (Grade 7E) appropriate to the intended mounting position. If the unit is supplied without lubricant the unit must be filled with the correct lubricant and quantity as listed below.

M08,M09,M10,M13, M14 & M16 Units, require filling with EP mineral oil (Grade 7E)  
Lubricant quantities are approximate fill until oil escapes from the level plug hole, fit ventilator plug (when supplied) in the appropriate position for the required mounting position. If the unit is supplied without lubricant the unit must be filled with the correct lubricant and quantity.

### Temperature limitations

The standard lubricant is suitable for operation in ambient temperatures of 20° to 50°C, outside of this consult table 1 or application engineers.

**Table 1 oil grades**

| Lubricant                                               | Ambient temperature range           |             |             |
|---------------------------------------------------------|-------------------------------------|-------------|-------------|
|                                                         | -5°C - 20°C (E)<br>-30°C - 20°C (H) | 0°C - 35°C  | 20°C - 50°C |
| <b>EP Mineral oil<br/>(type E)</b>                      | 5E (VG 220)                         | 6E (VG 320) | 7E (VG 460) |
| <b>Polyalphaolefin<br/>based synthetic<br/>(type H)</b> | 5H (VG 220)                         | 5H (VG 220) | 6H (VG 320) |

**Table 2 lubrication quantity (litres)**

| Double reduction & final stage quadruple or quintuple reduction |   |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------------------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Size                                                            |   | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622 |
| Mounting<br>Position                                            | 1 | 0.5   | 0.8   | 0.8   | 1.5   | 1.5   | 2.0   | 2.6   | 5.9   | 10.0  | 13.5  | 14.1  | 35.0  | 44.2  |
|                                                                 | 2 | 0.8   | 1.2   | 1.2   | 1.8   | 1.8   | 2.0   | 2.9   | 7.7   | 12.3  | 20.7  | 20.0  | 48.8  | 69.5  |
|                                                                 | 3 | 0.6   | 0.7   | 0.7   | 1.6   | 1.6   | 1.9   | 2.7   | 6.7   | 11.3  | 19.7  | 19.0  | 42.5  | 76.5  |
|                                                                 | 4 | 0.8   | 1.2   | 1.2   | 1.8   | 1.8   | 1.7   | 3.0   | 7.7   | 14.8  | 22.8  | 24.4  | 54.0  | 88.5  |
|                                                                 | 5 | 0.7   | 1.1   | 1.1   | 2.0   | 2.0   | 2.2   | 3.2   | 7.0   | 16.0  | 24.5  | 35.6  | 55.0  | 93.2  |
|                                                                 | 6 | 1.0   | 1.4   | 1.4   | 2.6   | 2.6   | 2.8   | 4.7   | 9.4   | 18.0  | 28.2  | 29.0  | 62.0  | 112.3 |

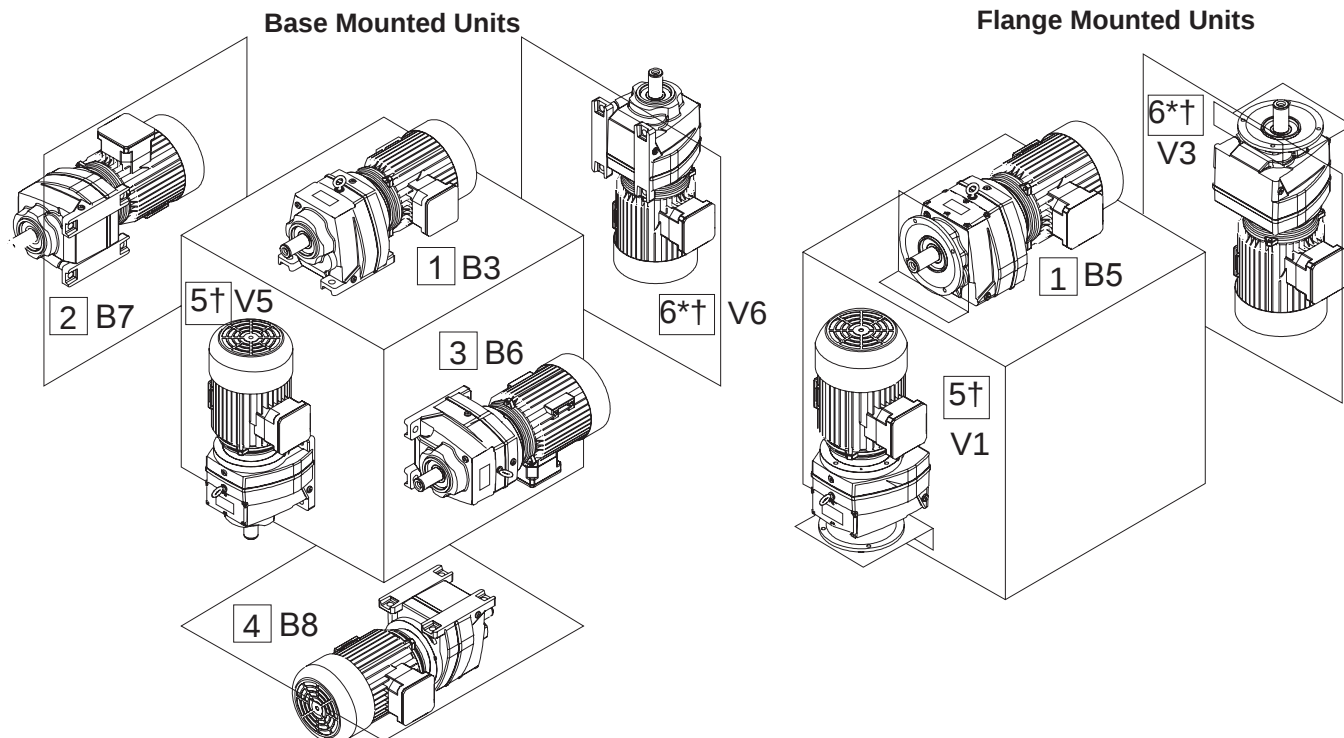
| Size                 |   | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0932 | M1032 | M1332 | M1432 | M1632 |
|----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mounting<br>Position | 1 | 0.6   | 0.8   | 0.8   | 1.6   | 1.6   | 2.1   | 2.7   | 4.3   | 8.6   | 15.3  | 17.8  | 32.3  | 53.5  |
|                      | 2 | 0.9   | 1.3   | 1.3   | 1.9   | 1.9   | 2.1   | 3.0   | 6.8   | 12.3  | 20.8  | 27.7  | 45.8  | 72.8  |
|                      | 3 | 0.7   | 0.7   | 0.7   | 1.7   | 1.7   | 2.0   | 2.8   | 7.5   | 13.8  | 19.8  | 26.9  | 47.3  | 78.8  |
|                      | 4 | 0.9   | 1.2   | 1.2   | 1.9   | 1.9   | 1.8   | 3.1   | 8.5   | 15.3  | 24.8  | 37.6  | 55.2  | 94.0  |
|                      | 5 | 0.7   | 1.1   | 1.1   | 2.1   | 2.1   | 2.3   | 3.3   | 9.5   | 23.0  | 36.0  | 48.0  | 59.5  | 132.0 |
|                      | 6 | 1.1   | 1.6   | 1.6   | 2.7   | 2.7   | 2.9   | 4.8   | 9.7   | 17.0  | 28.5  | 45.2  | 67.2  | 118.6 |

| Primary stage quadruple reduction |       |       |       |       |       |       |       |       |       |       | (Quantities obtained from above double and triple sizes indicated) |  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------------------------------------|--|
| Size                              | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0942 | M1042 | M1342 | M1442 | M1642                                                              |  |
| Primary Unit size                 | M0122 | M0322 | M0322 | M0322 | M0322 | M0522 | M0522 | M0722 | M0722 | M0722 | M0922                                                              |  |
| Secondary Unit size               | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622                                                              |  |

| Primary stage quintuple reduction |       |       |       |       |       |       |       |       |       |       | (Quantities obtained from above double and triple sizes indicated) |  |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------------------------------------|--|
| Size                              | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0952 | M1052 | M1352 | M1452 | M1652                                                              |  |
| Primary Unit size                 | M0132 | M0332 | M0332 | M0332 | M0332 | M0532 | M0532 | M0732 | M0732 | M0732 | M0932                                                              |  |
| Secondary Unit size               | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622                                                              |  |

## MOUNTING POSITIONS

### Column 13 Entry

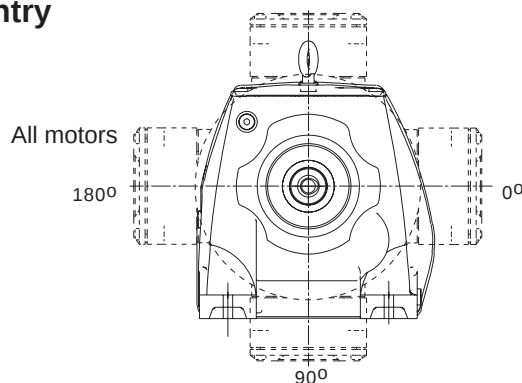


\* Mounting Position 6 is not recommended for Geared Motors - Consult Application Engineering.  
 Thermal rating should be checked for mounting positions 5 & 6 (Refer page no. 112).  
 † Gear Units selected for use in mounting positions 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below.

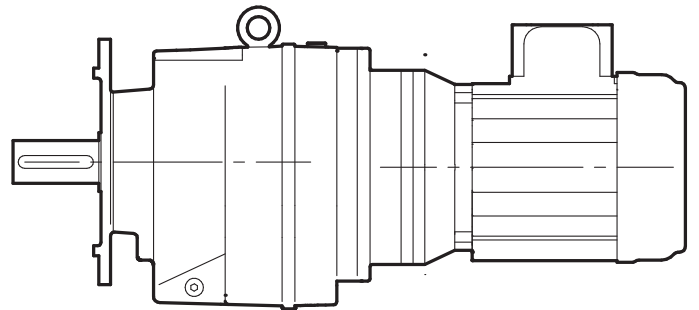
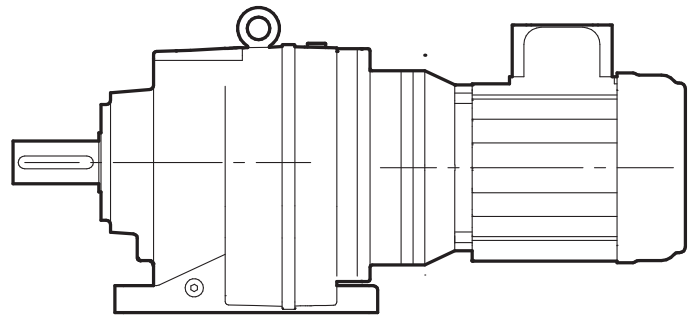
| Size      | Input Speed (rpm) |        |        |                                       |
|-----------|-------------------|--------|--------|---------------------------------------|
|           | < 1000            | < 1500 | < 1800 | > 1800                                |
| M01 - M08 | All               | All    | All    | Consult<br>Application<br>Engineering |
| M09       | 2.0               | 4.0    | 4.5    |                                       |
| M10       | 4.0               | 8.0    | 9.0    |                                       |
| M13       | 6.3               | 11.0   | 14.0   |                                       |
| M14       | 12.0              | 18.0   | 22.0   |                                       |
| M16       | 12.0              | 18.0   | 22.0   |                                       |

Mounting Positions - shown as motorised - applies also for reducers

### Column 14 Entry



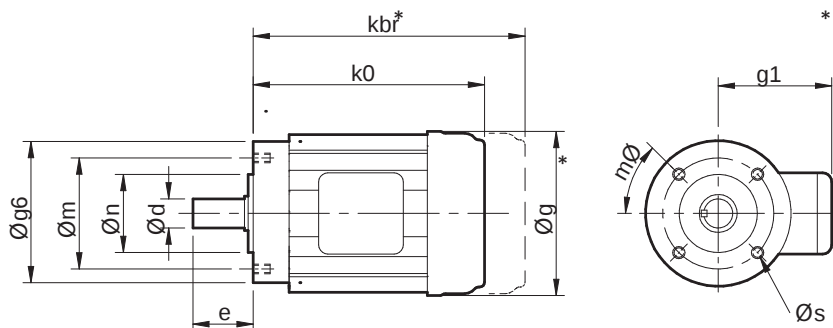
| Column 14 Entry | Terminal Box Position      |
|-----------------|----------------------------|
| A               | 0°                         |
| B               | 90°                        |
| C               | 180°                       |
| D               | 270°                       |
| -               | Reducer or no motor fitted |



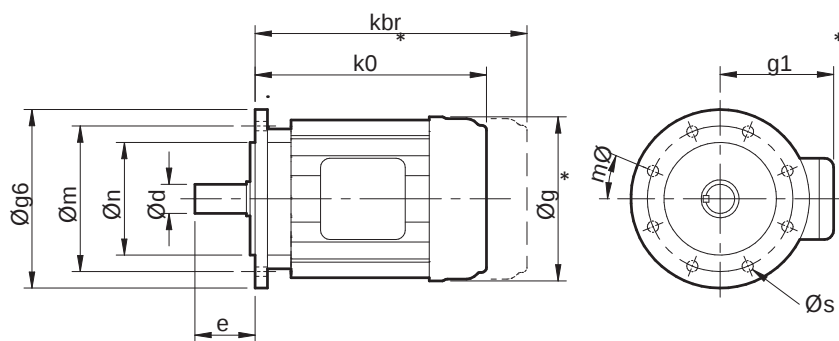
## MOTORISED SERIES M



## Motor Details : IE2 Efficiency Class Motor

**B14 'C' face**


| Size | $\phi g6$ | $\phi m$ | $\phi n$ | $\phi d$ | $e$ | $k0$ | $\phi g$ | $g1$ | $m$    | $\phi s$ |
|------|-----------|----------|----------|----------|-----|------|----------|------|--------|----------|
| 71   | 105       | 85       | 70       | 14       | 30  | 242  | 140      | 115  | 45 deg | 4xM6     |
| 80   | 120       | 100      | 80       | 19       | 40  | 245  | 158      | 125  | 45 deg | 4xM8     |
| 90S  | 140       | 115      | 95       | 24       | 50  | 294  | 180      | 133  | 45 deg | 4xM8     |
| 90L  | 140       | 115      | 95       | 24       | 50  | 294  | 180      | 133  | 45 deg | 4xM8     |
| 100L | 160       | 130      | 110      | 28       | 60  | 324  | 198      | 153  | 45 deg | 4xM8     |
| 112M | 160       | 130      | 110      | 28       | 60  | 338  | 222      | 168  | 45 deg | 4xM8     |

**B5 'D' face**


| Size | $\phi g6$ | $\phi m$ | $\phi n$ | $\phi d$ | $e$ | $k0$ | $\phi g$ | $g1$ | $m$      | $\phi s$ |
|------|-----------|----------|----------|----------|-----|------|----------|------|----------|----------|
| 63   | 140       | 115      | 95       | 11       | 23  | 183  | 124      | 106  | 45 deg   | 4x10     |
| 71   | 160       | 130      | 110      | 14       | 30  | 210  | 140      | 115  | 45 deg   | 4x10     |
| 80   | 200       | 165      | 130      | 19       | 40  | 262  | 158      | 125  | 45 deg   | 4x12     |
| 90S  | 200       | 165      | 130      | 24       | 50  | 294  | 180      | 133  | 45 deg   | 4x12     |
| 90L  | 200       | 165      | 130      | 24       | 50  | 325  | 180      | 133  | 45 deg   | 4x12     |
| 100L | 250       | 215      | 180      | 28       | 60  | 314  | 198      | 153  | 45 deg   | 4x15     |
| 112M | 250       | 215      | 180      | 28       | 60  | 338  | 222      | 168  | 45 deg   | 4x15     |
| 132S | 300       | 265      | 230      | 38       | 80  | 373  | 262      | 185  | 45 deg   | 4x15     |
| 132M | 300       | 265      | 230      | 38       | 80  | 409  | 262      | 185  | 45 deg   | 4x15     |
| 160M | 350       | 300      | 250      | 42       | 110 | 479  | 314      | 216  | 45 deg   | 4x19     |
| 160L | 350       | 300      | 250      | 42       | 110 | 523  | 314      | 216  | 45 deg   | 4x19     |
| 180M | 350       | 300      | 250      | 48       | 110 | 545  | 354      | 236  | 45 deg   | 4x19     |
| 180L | 350       | 300      | 250      | 48       | 110 | 583  | 354      | 236  | 45 deg   | 4x19     |
| 200L | 400       | 350      | 300      | 55       | 110 | 650  | 395      | 276  | 45 deg   | 4x19     |
| 225S | 450       | 400      | 350      | 60       | 140 | 740  | 435      | 297  | 22.5 deg | 8x19     |
| 225M | 450       | 400      | 350      | 60       | 140 | 740  | 435      | 297  | 22.5 deg | 8x19     |
| 250M | 550       | 500      | 450      | 65       | 140 | 790  | 481      | 319  | 22.5 deg | 8x19     |
| 280S | 550       | 500      | 450      | 75       | 140 | 900  | 543      | 426  | 22.5 deg | 8x19     |
| 280M | 550       | 500      | 450      | 75       | 140 | 900  | 543      | 426  | 22.5 deg | 8x19     |
| 315S | 660       | 600      | 550      | 80       | 170 | 1015 | 621      | 460  | 22.5 deg | 8x24     |
| 315M | 660       | 600      | 550      | 80       | 170 | 1015 | 621      | 460  | 22.5 deg | 8x24     |
| 315L | 660       | 600      | 550      | 80       | 170 | 1178 | 621      | 460  | 22.5 deg | 8x24     |

\* Dimension for own brand standard motors. These may vary if alternative motor is fitted.

# SERIES M

## ADDITIONAL MOTOR FEATURES

| RADICON POWERBUILD motor features - Column 19 Entry |                                                     |
|-----------------------------------------------------|-----------------------------------------------------|
| Column 19 Entry                                     | Feature                                             |
| M                                                   | Standard Motor (IE2 Class)                          |
| B                                                   | Brake Motor (with MRL)                              |
| C                                                   | Flame Proof (Consult PBL Design for Detail)         |
| D                                                   | Brake + Flame Proof (Consult PBL Design for Detail) |
| E                                                   | Non Std. Voltage                                    |
| F                                                   | Non Std. Frequency                                  |
| G                                                   | Non Std. Voltage and Frequency                      |
| H                                                   | Crane Duty Motor                                    |
| I                                                   | Integral Motor                                      |
| J                                                   | Crane Duty + Brake Motor + VVFD                     |
| K                                                   | VVFD + Brake Option                                 |
| L                                                   | VVFD Only                                           |
| N                                                   | Dual Speed                                          |
| V                                                   | Crane duty + Brake Motor                            |
| W                                                   | NDE shaft extn.                                     |
| O                                                   | Special feature except all above                    |
| S                                                   | Special Motor (Other than above)                    |

Standard motor consists of 3Ø, Squirrel Cage, 415 V+/- 10%, 50 Hz +/- 5%, TEFC, IP 55, S1 Duty, Amb. Temp. 50° C, F Class Insulation limited to B Class.



# SERIES M

## ADDITIONAL GEARBOX FEATURES

### Additional Gearbox Features - Column 20 Entry

| Column 20 entry | Double output-<br>shaft oil seals* | Motorised Backstop *** |              | Special |
|-----------------|------------------------------------|------------------------|--------------|---------|
|                 |                                    | CW Rotation            | CCW Rotation |         |
| -               |                                    |                        |              |         |
| A               | •                                  |                        |              |         |
| D               |                                    | •                      |              |         |
| E               | •                                  | •                      |              |         |
| H               |                                    |                        | •            |         |
| I               | •                                  |                        | •            |         |
| L               |                                    |                        |              | •       |

Please refer to Application Engineering for details of the following additional gearbox features

- Prime paint only
- Special oil (food compatible, bio-degradable, different viscosities etc)

\* Double Oil Seals for output shafts sizes M08 to M16 only

\*\*\* IEC frame sizes 100 - 200.

**Exact Ratios - Double Reduction**

| Column Entry |   |   | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622 |
|--------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6            | 7 | 8 |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3.6          |   |   | 3.750 | 3.589 | 3.589 | 3.585 | 3.585 | -     | 3.678 | 3.678 | 3.685 | 3.535 | 3.793 | 3.754 | -     |
| 5.0          |   |   | 5.07  | 5.03  | 5.03  | 5.04  | 5.04  | 4.44  | 5.09  | 5.21  | 5.07  | 4.94  | 5.26  | 5.24  | 4.95  |
| 5.6          |   |   | 5.76  | 5.55  | 5.55  | 5.65  | 5.65  | 6.24  | 5.72  | 5.79  | 5.69  | 5.37  | 5.77  | 5.90  | 5.35  |
| 6.3          |   |   | 6.53  | 6.30  | 6.30  | 6.34  | 6.34  | 6.99  | 6.29  | 6.44  | 6.38  | 6.10  | 6.35  | 6.63  | 6.26  |
| 8.0          |   |   | 8.35  | 8.00  | 8.00  | 8.05  | 8.05  | 7.85  | 8.22  | 8.33  | 8.22  | 7.95  | 8.11  | 8.51  | 8.19  |
| 9.0          |   |   | 9.00  | 9.09  | 9.09  | 9.13  | 9.13  | 9.97  | 9.34  | 9.35  | 9.19  | 8.58  | 8.99  | 9.45  | 9.35  |
| 11.          |   |   | 11.36 | 11.15 | 11.15 | 10.89 | 10.89 | 11.30 | 11.35 | 11.47 | 11.47 | 11.02 | 11.81 | 11.80 | 11.17 |
| 12.          |   |   | 12.88 | 12.37 | 12.37 | 12.54 | 12.54 | 13.48 | 12.48 | 12.92 | 12.74 | 12.51 | 12.92 | 13.08 | 12.67 |
| 14.          |   |   | 14.71 | 14.05 | 14.05 | 14.58 | 14.58 | 15.52 | 14.34 | 15.04 | 14.53 | 14.16 | 14.63 | 14.86 | 14.01 |
| 16.          |   |   | 16.37 | 15.97 | 15.97 | 16.31 | 16.31 | 18.05 | 16.26 | 16.69 | 16.34 | 15.98 | 16.12 | 17.02 | 16.19 |
| 18.          |   |   | 18.05 | 17.58 | 17.58 | 17.39 | 17.39 | 20.20 | 17.94 | 18.26 | 18.50 | 17.75 | 18.02 | 18.30 | 17.49 |
| 20.          |   |   | 19.86 | 20.23 | 20.23 | 20.61 | 20.61 | 21.53 | 20.54 | 20.66 | 20.59 | 19.41 | 20.86 | 21.36 | 20.39 |
| 22.          |   |   | 23.27 | 21.99 | 21.99 | 22.00 | 22.00 | 25.51 | 23.23 | 23.32 | 22.87 | 21.57 | 23.51 | 23.55 | 23.51 |
| 28.          |   |   | 27.92 | 26.40 | 26.40 | 27.30 | 27.30 | 27.24 | 26.93 | 28.27 | 27.98 | 25.49 | 27.08 | 28.24 | 27.26 |
| 32.          |   |   | 32.54 | 31.68 | 31.68 | 32.19 | 32.19 | 33.80 | 32.12 | 32.97 | 32.31 | 30.76 | 33.25 | 33.89 | 31.41 |
| 36.          |   |   | 36.16 | 35.69 | 35.69 | 35.25 | 35.25 | 39.86 | 35.17 | 36.21 | 35.67 | 35.44 | 37.03 | 36.72 | 37.54 |
| 45.          |   |   | 43.54 | 41.49 | 41.49 | 43.20 | 43.20 | 43.64 | 42.21 | 44.38 | 43.35 | 41.12 | 43.25 | 42.95 | 45.05 |
| 50.          |   |   | 49.91 | 47.09 | 47.09 | 48.15 | 48.15 | 53.49 | 48.56 | 48.46 | 49.07 | 47.93 | 50.70 | 50.36 | -     |
| 56.          |   |   | 56.72 | 53.54 | 53.54 | 54.00 | 54.00 | 59.61 | 53.96 | 55.80 | 55.18 | 51.49 | 53.94 | 56.49 | -     |
| 63.          |   |   | -     | -     | -     | -     | -     | 66.86 | -     | -     | -     | -     | -     | -     | -     |

**Exact Ratios - Triple Reduction**

| Column Entry |   |   | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0932 | M1032 | M1332 | M1432 | M1632 |
|--------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6            | 7 | 8 |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 56.          |   |   | 58.46 | 57.03 | 57.03 | 58.38 | 58.38 | -     | 58.95 | 60.33 | 59.07 | 57.63 | 59.76 | 61.61 | 59.38 |
| 63.          |   |   | 64.45 | 62.87 | 62.87 | 64.29 | 64.29 | 72.28 | 62.83 | 66.02 | 64.64 | 65.24 | 66.40 | 68.46 | 63.82 |
| 71.          |   |   | 70.93 | 69.19 | 69.19 | 73.95 | 73.95 | 79.60 | 74.47 | 74.69 | 73.13 | 72.62 | 72.60 | 74.85 | 74.49 |
| 80.          |   |   | 83.10 | 81.07 | 81.07 | 80.40 | 80.40 | 91.56 | 79.51 | 84.31 | 82.55 | 80.68 | 80.68 | 83.17 | 82.13 |
| 100          |   |   | 99.70 | 97.26 | 97.26 | 96.52 | 96.52 | 99.54 | 98.66 | 102.2 | 100.1 | 98.68 | 95.34 | 98.30 | 98.51 |
| 112          |   |   | 116.2 | 113.4 | 113.4 | 115.8 | 115.8 | 119.5 | 116.3 | 119.2 | 116.7 | 114.0 | 115.1 | 118.6 | 118.2 |
| 125          |   |   | 129.1 | 126.0 | 126.0 | 130.5 | 130.5 | 143.4 | 127.4 | 130.9 | 128.2 | 125.8 | 132.6 | 136.7 | 128.1 |
| 160          |   |   | 155.5 | 151.7 | 151.7 | 151.7 | 151.7 | 161.6 | 156.1 | 160.4 | 157.1 | 152.9 | 153.8 | 158.6 | 149.8 |
| 180          |   |   | 178.2 | 173.9 | 173.9 | 172.2 | 172.2 | 187.8 | 174.0 | 175.2 | 171.6 | 173.1 | 179.3 | 184.8 | -     |
| 200          |   |   | 202.6 | 197.6 | 197.6 | 195.8 | 195.8 | 213.2 | 195.2 | 201.8 | 197.5 | 194.6 | 192.6 | 198.6 | -     |
| 225          |   |   | -     | -     | -     | -     | -     | 242.4 | -     | -     | -     | -     | -     | -     | -     |

Exact Ratios - Quadruple Reduction

| Column Entry |   |   | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0942 | M1042 | M1342 | M1442 | M1642 |
|--------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6            | 7 | 8 |       |       |       |       |       |       |       |       |       |       |       |
| 225          |   |   | 235.0 | 232.8 | 232.8 | -     | 229.0 | 228.9 | 231.8 | 220.2 | 224.9 | 228.4 | 228.8 |
| 250          |   |   | 261.4 | 260.5 | 260.5 | -     | 259.7 | 259.0 | 258.1 | 254.6 | 258.4 | 262.4 | 264.6 |
| 280          |   |   | 287.8 | 277.6 | 277.6 | 272.9 | 286.5 | 301.2 | 286.7 | 278.4 | 289.2 | 276.9 | 285.8 |
| 300          |   |   | 317.3 | 305.7 | 305.7 | 313.9 | 315.4 | 337.0 | 300.2 | 309.3 | 323.2 | 337.7 | 323.5 |
| 360          |   |   | 365.0 | 362.3 | 362.3 | 365.1 | 361.2 | 359.2 | 358.0 | 365.6 | 370.1 | 352.5 | 360.1 |
| 400          |   |   | 401.7 | 416.8 | 416.8 | 396.9 | 415.5 | 425.7 | 397.7 | 398.7 | 418.5 | 405.1 | 400.1 |
| 450          |   |   | 436.7 | 445.0 | 445.0 | 444.1 | 469.8 | 480.5 | 452.9 | 457.2 | 483.0 | 459.3 | 445.4 |
| 500          |   |   | 511.7 | 483.8 | 483.8 | 533.1 | 510.7 | 513.0 | 503.2 | 500.9 | 546.1 | 506.6 | 504.2 |
| 650          |   |   | 614.2 | 600.3 | 600.3 | 568.2 | 592.1 | 621.9 | 665.8 | 635.7 | 664.2 | 656.0 | 646.7 |
| 730          |   |   | 736.9 | 720.7 | 720.7 | 681.9 | 710.8 | 771.8 | 736.4 | 728.0 | 729.1 | 754.3 | 718.5 |
| 860          |   |   | 884.3 | 849.8 | 849.8 | 808.1 | 847.8 | 900.0 | 882.1 | 844.7 | 860.0 | 852.9 | 858.7 |
| 10C          |   |   | 1031  | 1020  | 1020  | 972.2 | 1017  | 1061  | 1040  | 987.8 | 997.1 | 997.5 | 1015  |
| 11C          |   |   | 1161  | 1117  | 1117  | 1130  | 1114  | 1166  | 1139  | 1107  | 1068  | 1156  | 1120  |
| 13C          |   |   | 1291  | 1258  | 1258  | 1402  | 1255  | 1277  | 1257  | 1321  | 1302  | 1292  | 1338  |
| 15C          |   |   | 1500  | 1542  | 1542  | 1592  | 1506  | 1564  | 1528  | 1496  | 1521  | 1511  | 1504  |
| 18C          |   |   | 1807  | 1792  | 1792  | 1877  | 1751  | 1917  | 1873  | 1736  | 1798  | 1813  | 1842  |
| 20C          |   |   | 2051  | 1998  | 1998  | 2055  | 2015  | 2094  | 2087  | 1997  | 1798  | 1981  | 1953  |
| 24C          |   |   | 2350  | 2268  | 2268  | 2337  | 2287  | 2333  | 2341  | 2327  | 2334  | 2445  | 2486  |
| 27C          |   |   | 2671  | 2578  | 2578  | 2519  | 2600  | 2617  | 2650  | 2778  | 2911  | 2717  | -     |

Exact Ratios - Quintuple Reduction

| Column Entry |   |   | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0952 | M1052 | M1352 | M1452 | M1652 |
|--------------|---|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6            | 7 | 8 |       |       |       |       |       |       |       |       |       |       |       |
| 27C          |   |   | 2632  | 2655  | 2655  | 2649  | 2619  | 2728  | 2700  | 2748  | 2735  | 2739  | 2744  |
| 32C          |   |   | 3068  | 3095  | 3095  | 3088  | 3053  | 3274  | 3240  | 3247  | 3150  | 3286  | 3181  |
| 36C          |   |   | 3681  | 3650  | 3650  | 3832  | 3641  | 3818  | 3651  | 3578  | 3670  | 3598  | 3494  |
| 40C          |   |   | 4091  | 4055  | 4055  | 4258  | 4046  | 4302  | 4131  | 3979  | 4091  | 3943  | 3666  |
| 46C          |   |   | 4609  | 4440  | 4440  | 5021  | 4431  | 4726  | 4655  | 4515  | 4588  | 4678  | 4812  |
| 55C          |   |   | 5550  | 5347  | 5347  | 6046  | 5335  | 5494  | 5563  | 5533  | 6443  | 5471  | 5775  |
| 65C          |   |   | 6452  | 6553  | 6553  | 6620  | 6403  | 6733  | 6577  | 6420  | 7226  | 6390  | 6440  |
| 74C          |   |   | 7396  | 7511  | 7511  | 7588  | 7339  | 7641  | 7444  | 7483  | 7527  | 7473  | 7728  |
| 84C          |   |   | 8394  | 8372  | 8372  | 8624  | 8443  | 8344  | 8449  | 8340  | 8441  | 8381  | 8899  |
| 95C          |   |   | 9540  | 9514  | 9514  | 9300  | 9596  | 9486  | 9605  | 9353  | 9895  | 9827  | -     |
| 10K          |   |   | 10845 | 10670 | 10670 | 10569 | 10662 | 10924 | 10801 | 10049 | 10527 | 11024 | -     |



## SELECTION TABLES

**0.12 kW**

4 POLE

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 363             | 3.75   | 3.1              | 19.46             | 1719             | M01223.6_M_-.12A--                                                                       | 18                              | 63            |
| 268             | 5.07   | 4.2              | 16.34             | 1795             | M01225.0_M_-.12A--                                                                       | 18                              | 63            |
| 236             | 5.76   | 4.8              | 15.24             | 1840             | M01225.6_M_-.12A--                                                                       | 18                              | 63            |
| 208             | 6.53   | 5.4              | 14.07             | 1880             | M01226.3_M_-.12A--                                                                       | 18                              | 63            |
| 163             | 8.35   | 6.9              | 11.65             | 1900             | M01228.0_M_-.12A--                                                                       | 18                              | 63            |
| 151             | 9.00   | 7.4              | 10.94             | 1900             | M01229.0_M_-.12A--                                                                       | 18                              | 63            |
| 120             | 11.36  | 9.4              | 9.07              | 1900             | M012211_M_-.12A--                                                                        | 18                              | 63            |
| 106             | 12.88  | 11               | 8.29              | 1900             | M012212_M_-.12A--                                                                        | 18                              | 63            |
| 92              | 14.71  | 12               | 7.48              | 1900             | M012214_M_-.12A--                                                                        | 18                              | 63            |
| 83              | 16.37  | 14               | 6.75              | 1900             | M012216_M_-.12A--                                                                        | 18                              | 63            |
| 75              | 18.05  | 15               | 6.11              | 1900             | M012218_M_-.12A--                                                                        | 18                              | 63            |
| 68              | 19.86  | 16               | 5.56              | 1900             | M012220_M_-.12A--                                                                        | 18                              | 63            |
| 58              | 23.27  | 19               | 4.74              | 1900             | M012222_M_-.12A--                                                                        | 18                              | 63            |
| 49              | 27.92  | 23               | 3.96              | 1900             | M012228_M_-.12A--                                                                        | 18                              | 63            |
| 42              | 32.54  | 27               | 3.41              | 1900             | M012232_M_-.12A--                                                                        | 18                              | 63            |
| 38              | 36.16  | 30               | 3.07              | 1900             | M012236_M_-.12A--                                                                        | 18                              | 63            |
| 31              | 43.54  | 36               | 2.38              | 1900             | M012245_M_-.12A--                                                                        | 18                              | 63            |
| 27              | 49.91  | 41               | 1.78              | 1900             | M012250_M_-.12A--                                                                        | 18                              | 63            |
| 24              | 56.72  | 47               | 1.54              | 1900             | M012256_M_-.12A--                                                                        | 18                              | 63            |
| 23              | 58.46  | 48               | 1.93              | 1900             | M013256_M_-.12A--                                                                        | 19                              | 63            |
| 21              | 64.45  | 53               | 1.75              | 1900             | M013263_M_-.12A--                                                                        | 19                              | 63            |
| 19              | 70.93  | 58               | 1.59              | 1900             | M013271_M_-.12A--                                                                        | 19                              | 63            |
| 16              | 83.10  | 68               | 1.36              | 1900             | M013280_M_-.12A--                                                                        | 19                              | 63            |
| 14              | 99.70  | 81               | 1.13              | 1900             | M0132100_M_-.12A--                                                                       | 19                              | 63            |
| 12              | 116.2  | 95               | 0.97              | 1900             | M0132112_M_-.12A--                                                                       | 19                              | 63            |
| 11              | 129.1  | 106              | 0.88              | 1900             | M0132125_M_-.12A--                                                                       | 19                              | 63            |
| 25              | 53.54  | 44               | 3.69              | 4000             | M022256_M_-.12A--                                                                        | 20                              | 63            |
| 24              | 57.03  | 47               | 3.50              | 4000             | M023256_M_-.12A--                                                                        | 22                              | 63            |
| 22              | 62.87  | 51               | 3.17              | 4000             | M023263_M_-.12A--                                                                        | 22                              | 63            |
| 20              | 69.19  | 57               | 2.88              | 4000             | M023271_M_-.12A--                                                                        | 22                              | 63            |
| 17              | 81.07  | 66               | 2.46              | 4000             | M023280_M_-.12A--                                                                        | 22                              | 63            |
| 14              | 97.26  | 79               | 2.06              | 4000             | M0232100_M_-.12A--                                                                       | 22                              | 63            |
| 12              | 113.37 | 93               | 1.77              | 4000             | M0232112_M_-.12A--                                                                       | 22                              | 63            |
| 11              | 125.97 | 103              | 1.59              | 4000             | M0232125_M_-.12A--                                                                       | 22                              | 63            |
| 9.0             | 151.69 | 124              | 1.32              | 4000             | M0232160_M_-.12A--                                                                       | 22                              | 63            |
| 7.8             | 173.87 | 142              | 1.15              | 4000             | M0232180_M_-.12A--                                                                       | 22                              | 63            |
| 6.9             | 197.60 | 162              | 1.02              | 4000             | M0232200_M_-.12A--                                                                       | 22                              | 63            |
| 20              | 69.19  | 57               | 3.77              | 4000             | M033271_M_-.12A--                                                                        | 22                              | 63            |
| 17              | 81.07  | 67               | 3.22              | 4000             | M033280_M_-.12A--                                                                        | 22                              | 63            |
| 14              | 97.26  | 80               | 2.69              | 4000             | M0332100_M_-.12A--                                                                       | 22                              | 63            |
| 12              | 113.37 | 93               | 2.31              | 4000             | M0332112_M_-.12A--                                                                       | 22                              | 63            |
| 11              | 125.97 | 104              | 2.08              | 4000             | M0332125_M_-.12A--                                                                       | 22                              | 63            |
| 9.0             | 151.69 | 125              | 1.72              | 4000             | M0332160_M_-.12A--                                                                       | 22                              | 63            |
| 7.8             | 173.87 | 143              | 1.51              | 4000             | M0332180_M_-.12A--                                                                       | 22                              | 63            |
| 6.9             | 197.60 | 163              | 1.33              | 4000             | M0332200_M_-.12A--                                                                       | 22                              | 63            |
| 5.8             | 234.96 | 189              | 1.15              | 4000             | M0342225_M_-.12A--                                                                       | 30                              | 63            |
| 5.2             | 261.37 | 210              | 1.03              | 4000             | M0342250_M_-.12A--                                                                       | 30                              | 63            |
| 4.7             | 287.83 | 232              | 0.94              | 4000             | M0342280_M_-.12A--                                                                       | 30                              | 63            |
| 4.3             | 317.33 | 255              | 0.85              | 4000             | M0342300_M_-.12A--                                                                       | 30                              | 63            |
| 12              | 115.82 | 95               | 3.64              | 7200             | M0432112_M_-.12A--                                                                       | 32                              | 63            |
| 10              | 130.50 | 107              | 3.24              | 7200             | M0432125_M_-.12A--                                                                       | 32                              | 63            |
| 9.0             | 151.71 | 124              | 2.78              | 7200             | M0432160_M_-.12A--                                                                       | 32                              | 63            |
| 7.9             | 172.19 | 141              | 2.45              | 7200             | M0432180_M_-.12A--                                                                       | 32                              | 63            |
| 6.9             | 195.75 | 160              | 2.16              | 7200             | M0432200_M_-.12A--                                                                       | 32                              | 63            |
| 9.0             | 151.71 | 124              | 3.70              | 7200             | M0532160_M_-.12A--                                                                       | 32                              | 63            |
| 7.9             | 172.19 | 141              | 3.26              | 7200             | M0532180_M_-.12A--                                                                       | 32                              | 63            |
| 6.9             | 195.75 | 160              | 2.87              | 7200             | M0532200_M_-.12A--                                                                       | 32                              | 63            |
| 6.4             | 213.18 | 174              | 3.66              | 7200             | M0632200_M_-.12A--                                                                       | 37                              | 63            |
| 5.6             | 242.36 | 198              | 3.02              | 7200             | M0632225_M_-.12A--                                                                       | 37                              | 63            |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**0.12 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 240             | 3.75   | 4.7              | 14.53             | 1812             | M01223.6_M_-.12C--                                                                                                       | 18                              | 63            |
| 178             | 5.07   | 6.3              | 12.01             | 1900             | M01225.0_M_-.12C--                                                                                                       | 18                              | 63            |
| 156             | 5.76   | 7.2              | 10.85             | 1900             | M01225.6_M_-.12C--                                                                                                       | 18                              | 63            |
| 138             | 6.53   | 8.1              | 9.82              | 1900             | M01226.3_M_-.12C--                                                                                                       | 18                              | 63            |
| 108             | 8.35   | 10               | 8.16              | 1900             | M01228.0_M_-.12C--                                                                                                       | 18                              | 63            |
| 100             | 9.00   | 11               | 7.75              | 1900             | M01229.0_M_-.12C--                                                                                                       | 18                              | 63            |
| 79              | 11.36  | 14               | 6.35              | 1900             | M012211_M_-.12C--                                                                                                        | 18                              | 63            |
| 70              | 12.88  | 16               | 5.60              | 1900             | M012212_M_-.12C--                                                                                                        | 18                              | 63            |
| 61              | 14.71  | 18               | 4.90              | 1900             | M012214_M_-.12C--                                                                                                        | 18                              | 63            |
| 55              | 16.37  | 20               | 4.41              | 1900             | M012216_M_-.12C--                                                                                                        | 18                              | 63            |
| 50              | 18.05  | 23               | 4.00              | 1900             | M012218_M_-.12C--                                                                                                        | 18                              | 63            |
| 45              | 19.86  | 25               | 3.63              | 1900             | M012220_M_-.12C--                                                                                                        | 18                              | 63            |
| 39              | 23.27  | 29               | 3.10              | 1900             | M012222_M_-.12C--                                                                                                        | 18                              | 63            |
| 32              | 27.92  | 35               | 2.58              | 1900             | M012228_M_-.12C--                                                                                                        | 18                              | 63            |
| 28              | 32.54  | 41               | 2.22              | 1900             | M012232_M_-.12C--                                                                                                        | 18                              | 63            |
| 25              | 36.16  | 45               | 1.99              | 1900             | M012236_M_-.12C--                                                                                                        | 18                              | 63            |
| 21              | 43.54  | 54               | 1.55              | 1900             | M012245_M_-.12C--                                                                                                        | 18                              | 63            |
| 18              | 49.91  | 62               | 1.16              | 1900             | M012250_M_-.12C--                                                                                                        | 18                              | 63            |
| 16              | 56.72  | 71               | 1.00              | 1900             | M012256_M_-.12C--                                                                                                        | 18                              | 63            |
| 15              | 58.46  | 72               | 1.25              | 1900             | M013256_M_-.12C--                                                                                                        | 19                              | 63            |
| 14              | 64.45  | 80               | 1.13              | 1900             | M013263_M_-.12C--                                                                                                        | 19                              | 63            |
| 13              | 70.93  | 88               | 1.03              | 1900             | M013271_M_-.12C--                                                                                                        | 19                              | 63            |
| 11              | 83.10  | 103              | 0.88              | 1900             | M013280_M_-.12C--                                                                                                        | 19                              | 63            |
| 25              | 35.69  | 45               | 3.59              | 4000             | M022236_M_-.12C--                                                                                                        | 20                              | 63            |
| 22              | 41.49  | 52               | 3.09              | 4000             | M022245_M_-.12C--                                                                                                        | 20                              | 63            |
| 19              | 47.09  | 59               | 2.72              | 4000             | M022250_M_-.12C--                                                                                                        | 20                              | 63            |
| 17              | 53.54  | 67               | 2.39              | 4000             | M022256_M_-.12C--                                                                                                        | 20                              | 63            |
| 16              | 57.03  | 70               | 2.27              | 4000             | M023256_M_-.12C--                                                                                                        | 22                              | 63            |
| 14              | 62.87  | 78               | 2.06              | 4000             | M023263_M_-.12C--                                                                                                        | 22                              | 63            |
| 13              | 69.19  | 85               | 1.87              | 4000             | M023271_M_-.12C--                                                                                                        | 22                              | 63            |
| 11              | 81.07  | 100              | 1.60              | 4000             | M023280_M_-.12C--                                                                                                        | 22                              | 63            |
| 9.3             | 97.26  | 120              | 1.33              | 4000             | M0232100_M_-.12C--                                                                                                       | 22                              | 63            |
| 7.9             | 113.37 | 140              | 1.14              | 4000             | M0232112_M_-.12C--                                                                                                       | 22                              | 63            |
| 7.1             | 125.97 | 156              | 1.03              | 4000             | M0232125_M_-.12C--                                                                                                       | 22                              | 63            |
| 5.9             | 151.69 | 187              | 0.85              | 4000             | M0232160_M_-.12C--                                                                                                       | 22                              | 63            |
| 16              | 57.03  | 70               | 2.98              | 4000             | M033256_M_-.12C--                                                                                                        | 22                              | 63            |
| 14              | 62.87  | 78               | 2.70              | 4000             | M033263_M_-.12C--                                                                                                        | 22                              | 63            |
| 13              | 69.19  | 85               | 2.46              | 4000             | M033271_M_-.12C--                                                                                                        | 22                              | 63            |
| 11              | 81.07  | 100              | 2.10              | 4000             | M033280_M_-.12C--                                                                                                        | 22                              | 63            |
| 9.3             | 97.26  | 120              | 1.75              | 4000             | M0332100_M_-.12C--                                                                                                       | 22                              | 63            |
| 7.9             | 113.37 | 140              | 1.50              | 4000             | M0332112_M_-.12C--                                                                                                       | 22                              | 63            |
| 7.1             | 125.97 | 156              | 1.35              | 4000             | M0332125_M_-.12C--                                                                                                       | 22                              | 63            |
| 5.9             | 151.69 | 187              | 1.12              | 4000             | M0332160_M_-.12C--                                                                                                       | 22                              | 63            |
| 5.2             | 173.87 | 215              | 0.98              | 4000             | M0332180_M_-.12C--                                                                                                       | 22                              | 63            |
| 4.6             | 197.60 | 244              | 0.86              | 4000             | M0332200_M_-.12C--                                                                                                       | 22                              | 63            |
| 12              | 73.95  | 91               | 3.72              | 7200             | M043271_M_-.12C--                                                                                                        | 32                              | 63            |
| 11              | 80.40  | 99               | 3.42              | 7200             | M043280_M_-.12C--                                                                                                        | 32                              | 63            |
| 9.3             | 96.52  | 119              | 2.85              | 7200             | M0432100_M_-.12C--                                                                                                       | 32                              | 63            |
| 7.8             | 115.82 | 143              | 2.38              | 7200             | M0432112_M_-.12C--                                                                                                       | 32                              | 63            |
| 6.9             | 130.50 | 161              | 2.11              | 7200             | M0432125_M_-.12C--                                                                                                       | 32                              | 63            |
| 5.9             | 151.71 | 187              | 1.81              | 7200             | M0432160_M_-.12C--                                                                                                       | 32                              | 63            |
| 5.2             | 172.19 | 213              | 1.60              | 7200             | M0432180_M_-.12C--                                                                                                       | 32                              | 63            |
| 4.6             | 195.75 | 242              | 1.41              | 7200             | M0432200_M_-.12C--                                                                                                       | 32                              | 63            |
| 9.3             | 96.52  | 119              | 3.77              | 7200             | M0532100_M_-.12C--                                                                                                       | 32                              | 63            |
| 7.8             | 115.82 | 143              | 3.15              | 7200             | M0532112_M_-.12C--                                                                                                       | 32                              | 63            |
| 6.9             | 130.50 | 161              | 2.79              | 7200             | M0532125_M_-.12C--                                                                                                       | 32                              | 63            |
| 5.9             | 151.71 | 187              | 2.40              | 7200             | M0532160_M_-.12C--                                                                                                       | 32                              | 63            |
| 5.2             | 172.19 | 213              | 2.12              | 7200             | M0532180_M_-.12C--                                                                                                       | 32                              | 63            |
| 4.6             | 195.75 | 242              | 1.86              | 7200             | M0532200_M_-.12C--                                                                                                       | 32                              | 63            |
| 6.3             | 143.39 | 177              | 3.53              | 7200             | M0632125_M_-.12C--                                                                                                       | 37                              | 63            |
| 5.6             | 161.57 | 200              | 3.13              | 7200             | M0632160_M_-.12C--                                                                                                       | 37                              | 63            |
| 4.8             | 187.83 | 232              | 2.69              | 7200             | M0632180_M_-.12C--                                                                                                       | 37                              | 63            |
| 4.2             | 213.18 | 263              | 2.37              | 7200             | M0632200_M_-.12C--                                                                                                       | 37                              | 63            |
| 3.7             | 242.36 | 299              | 2.08              | 7200             | M0632225_M_-.12C--                                                                                                       | 37                              | 63            |



## SELECTION TABLES

**0.18 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 365             | 3.75   | 4.6              | 13.07             | 1681             | M01223.6_M_-.18A--                                                                                                       | 18                              | 63            |
| 270             | 5.07   | 6.2              | 10.97             | 1778             | M01225.0_M_-.18A--                                                                                                       | 18                              | 63            |
| 238             | 5.76   | 7.1              | 10.24             | 1826             | M01225.6_M_-.18A--                                                                                                       | 18                              | 63            |
| 210             | 6.53   | 8.0              | 9.45              | 1856             | M01226.3_M_-.18A--                                                                                                       | 18                              | 63            |
| 164             | 8.35   | 10               | 7.82              | 1873             | M01228.0_M_-.18A--                                                                                                       | 18                              | 63            |
| 152             | 9.00   | 11               | 7.35              | 1872             | M01229.0_M_-.18A--                                                                                                       | 18                              | 63            |
| 121             | 11.36  | 14               | 6.09              | 1900             | M012211_M_-.18A--                                                                                                        | 18                              | 63            |
| 106             | 12.88  | 16               | 5.56              | 1900             | M012212_M_-.18A--                                                                                                        | 18                              | 63            |
| 93              | 14.71  | 18               | 5.02              | 1900             | M012214_M_-.18A--                                                                                                        | 18                              | 63            |
| 84              | 16.37  | 20               | 4.53              | 1900             | M012216_M_-.18A--                                                                                                        | 18                              | 63            |
| 76              | 18.05  | 22               | 4.10              | 1900             | M012218_M_-.18A--                                                                                                        | 18                              | 63            |
| 69              | 19.86  | 24               | 3.73              | 1900             | M012220_M_-.18A--                                                                                                        | 18                              | 63            |
| 59              | 23.27  | 29               | 3.19              | 1900             | M012222_M_-.18A--                                                                                                        | 18                              | 63            |
| 49              | 27.92  | 34               | 2.66              | 1900             | M012228_M_-.18A--                                                                                                        | 18                              | 63            |
| 42              | 32.54  | 40               | 2.29              | 1900             | M012232_M_-.18A--                                                                                                        | 18                              | 63            |
| 38              | 36.16  | 44               | 2.06              | 1900             | M012236_M_-.18A--                                                                                                        | 18                              | 63            |
| 31              | 43.54  | 54               | 1.60              | 1900             | M012245_M_-.18A--                                                                                                        | 18                              | 63            |
| 27              | 49.91  | 61               | 1.20              | 1900             | M012250_M_-.18A--                                                                                                        | 18                              | 63            |
| 24              | 56.72  | 70               | 1.03              | 1900             | M012256_M_-.18A--                                                                                                        | 18                              | 63            |
| 23              | 58.46  | 71               | 1.30              | 1900             | M013256_M_-.18A--                                                                                                        | 19                              | 63            |
| 21              | 64.45  | 78               | 1.18              | 1900             | M013263_M_-.18A--                                                                                                        | 19                              | 63            |
| 19              | 70.93  | 86               | 1.07              | 1900             | M013271_M_-.18A--                                                                                                        | 19                              | 63            |
| 16              | 83.10  | 101              | 0.91              | 1900             | M013280_M_-.18A--                                                                                                        | 19                              | 63            |
| 38              | 35.69  | 44               | 3.72              | 4000             | M022236_M_-.18A--                                                                                                        | 20                              | 63            |
| 33              | 41.49  | 51               | 3.19              | 4000             | M022245_M_-.18A--                                                                                                        | 20                              | 63            |
| 29              | 47.09  | 58               | 2.81              | 4000             | M022250_M_-.18A--                                                                                                        | 20                              | 63            |
| 26              | 53.54  | 66               | 2.48              | 4000             | M022256_M_-.18A--                                                                                                        | 20                              | 63            |
| 24              | 57.03  | 69               | 2.35              | 4000             | M023256_M_-.18A--                                                                                                        | 22                              | 63            |
| 22              | 62.87  | 77               | 2.13              | 4000             | M023263_M_-.18A--                                                                                                        | 22                              | 63            |
| 20              | 69.19  | 84               | 1.94              | 4000             | M023271_M_-.18A--                                                                                                        | 22                              | 63            |
| 17              | 81.07  | 99               | 1.65              | 4000             | M023280_M_-.18A--                                                                                                        | 22                              | 63            |
| 14              | 97.26  | 118              | 1.38              | 4000             | M0232100_M_-.18A--                                                                                                       | 22                              | 63            |
| 12              | 113.37 | 138              | 1.19              | 4000             | M0232112_M_-.18A--                                                                                                       | 22                              | 63            |
| 11              | 125.97 | 153              | 1.07              | 4000             | M0232125_M_-.18A--                                                                                                       | 22                              | 63            |
| 9.0             | 151.69 | 185              | 0.89              | 4000             | M0232160_M_-.18A--                                                                                                       | 22                              | 63            |
| 33              | 41.49  | 51               | 3.96              | 4000             | M032245_M_-.18A--                                                                                                        | 20                              | 63            |
| 29              | 47.09  | 58               | 3.57              | 4000             | M032250_M_-.18A--                                                                                                        | 20                              | 63            |
| 26              | 53.54  | 66               | 3.19              | 4000             | M032256_M_-.18A--                                                                                                        | 20                              | 63            |
| 24              | 57.03  | 69               | 3.07              | 4000             | M033256_M_-.18A--                                                                                                        | 22                              | 63            |
| 22              | 62.87  | 77               | 2.78              | 4000             | M033263_M_-.18A--                                                                                                        | 22                              | 63            |
| 20              | 69.19  | 84               | 2.53              | 4000             | M033271_M_-.18A--                                                                                                        | 22                              | 63            |
| 17              | 81.07  | 99               | 2.16              | 4000             | M033280_M_-.18A--                                                                                                        | 22                              | 63            |
| 14              | 97.26  | 118              | 1.81              | 4000             | M0332100_M_-.18A--                                                                                                       | 22                              | 63            |
| 12              | 113.37 | 138              | 1.55              | 4000             | M0332112_M_-.18A--                                                                                                       | 22                              | 63            |
| 11              | 125.97 | 153              | 1.40              | 4000             | M0332125_M_-.18A--                                                                                                       | 22                              | 63            |
| 9.0             | 151.69 | 185              | 1.15              | 4000             | M0332160_M_-.18A--                                                                                                       | 22                              | 63            |
| 7.9             | 173.87 | 212              | 1.01              | 4000             | M0332180_M_-.18A--                                                                                                       | 22                              | 63            |
| 6.9             | 197.60 | 240              | 0.89              | 4000             | M0332200_M_-.18A--                                                                                                       | 22                              | 63            |
| 19              | 73.95  | 90               | 3.82              | 7200             | M043271_M_-.18A--                                                                                                        | 32                              | 63            |
| 17              | 80.40  | 98               | 3.51              | 7200             | M043280_M_-.18A--                                                                                                        | 32                              | 63            |
| 14              | 96.52  | 117              | 2.93              | 7200             | M0432100_M_-.18A--                                                                                                       | 32                              | 63            |
| 12              | 115.82 | 141              | 2.45              | 7200             | M0432112_M_-.18A--                                                                                                       | 32                              | 63            |
| 10              | 130.50 | 159              | 2.17              | 7200             | M0432125_M_-.18A--                                                                                                       | 32                              | 63            |
| 9.0             | 151.71 | 185              | 1.87              | 7200             | M0432160_M_-.18A--                                                                                                       | 32                              | 63            |
| 8.0             | 172.19 | 210              | 1.65              | 7200             | M0432180_M_-.18A--                                                                                                       | 32                              | 63            |
| 7.0             | 195.75 | 238              | 1.45              | 7200             | M0432200_M_-.18A--                                                                                                       | 32                              | 63            |
| 5.9             | 232.81 | 279              | 1.25              | 7200             | M0442225_M_-.18A--                                                                                                       | 42                              | 63            |
| 5.3             | 260.47 | 312              | 1.12              | 7200             | M0442250_M_-.18A--                                                                                                       | 42                              | 63            |
| 4.9             | 277.62 | 333              | 1.06              | 7200             | M0442280_M_-.18A--                                                                                                       | 42                              | 63            |
| 4.5             | 305.72 | 366              | 0.96              | 7200             | M0442300_M_-.18A--                                                                                                       | 42                              | 63            |
| 3.8             | 362.32 | 434              | 0.81              | 7200             | M0442360_M_-.18A--                                                                                                       | 42                              | 63            |
| 14              | 96.52  | 117              | 3.89              | 7200             | M0532100_M_-.18A--                                                                                                       | 32                              | 63            |
| 12              | 115.82 | 141              | 3.25              | 7200             | M0532112_M_-.18A--                                                                                                       | 32                              | 63            |
| 10              | 130.50 | 159              | 2.89              | 7200             | M0532125_M_-.18A--                                                                                                       | 32                              | 63            |
| 9.0             | 151.71 | 185              | 2.48              | 7200             | M0532160_M_-.18A--                                                                                                       | 32                              | 63            |
| 8.0             | 172.19 | 210              | 2.19              | 7200             | M0532180_M_-.18A--                                                                                                       | 32                              | 63            |
| 7.0             | 195.75 | 238              | 1.93              | 7200             | M0532200_M_-.18A--                                                                                                       | 32                              | 63            |



## SELECTION TABLES

**0.18 kW**

4 POLE

**0.18 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 5.9             | 232.81 | 279              | 1.66              | 7200             | M0542225_M_...18A--                                                                      | 42                              | 63            |
| 5.3             | 260.47 | 312              | 1.49              | 7200             | M0542250_M_...18A--                                                                      | 42                              | 63            |
| 4.9             | 277.62 | 333              | 1.40              | 7200             | M0542280_M_...18A--                                                                      | 42                              | 63            |
| 4.5             | 305.72 | 366              | 1.27              | 7200             | M0542300_M_...18A--                                                                      | 42                              | 63            |
| 3.8             | 362.32 | 434              | 1.07              | 7200             | M0542360_M_...18A--                                                                      | 42                              | 63            |
| 3.3             | 416.75 | 499              | 0.93              | 7200             | M0542400_M_...18A--                                                                      | 42                              | 63            |
| 3.1             | 444.96 | 533              | 0.87              | 7200             | M0542450_M_...18A--                                                                      | 42                              | 63            |
| 2.8             | 483.76 | 580              | 0.80              | 7200             | M0542500_M_...18A--                                                                      | 42                              | 63            |
| 10              | 143.39 | 175              | 3.58              | 7200             | M0632125_M_...18A--                                                                      | 37                              | 63            |
| 8.5             | 161.57 | 197              | 3.24              | 7200             | M0632160_M_...18A--                                                                      | 37                              | 63            |
| 7.3             | 187.83 | 229              | 2.79              | 7200             | M0632180_M_...18A--                                                                      | 37                              | 63            |
| 6.4             | 213.18 | 259              | 2.46              | 7200             | M0632200_M_...18A--                                                                      | 37                              | 63            |
| 5.7             | 242.36 | 295              | 2.03              | 7200             | M0632225_M_...18A--                                                                      | 37                              | 63            |
| 5.0             | 272.91 | 327              | 1.91              | 7200             | M0642280_M_...18A--                                                                      | 48                              | 63            |
| 4.4             | 313.91 | 376              | 1.66              | 7200             | M0642300_M_...18A--                                                                      | 48                              | 63            |
| 3.8             | 365.10 | 437              | 1.43              | 7200             | M0642360_M_...18A--                                                                      | 48                              | 63            |
| 3.5             | 396.93 | 476              | 1.31              | 7200             | M0642400_M_...18A--                                                                      | 48                              | 63            |
| 3.1             | 444.10 | 532              | 1.21              | 7200             | M0642450_M_...18A--                                                                      | 48                              | 63            |
| 2.6             | 533.13 | 639              | 1.01              | 7200             | M0642500_M_...18A--                                                                      | 48                              | 63            |
| 2.4             | 568.23 | 681              | 0.95              | 7200             | M0642650_M_...18A--                                                                      | 48                              | 63            |
| 6.0             | 229.00 | 274              | 3.24              | 10000            | M0742225_M_...18A--                                                                      | 56                              | 63            |
| 5.3             | 259.68 | 311              | 2.86              | 10000            | M0742250_M_...18A--                                                                      | 56                              | 63            |
| 4.8             | 286.42 | 343              | 2.59              | 10000            | M0742280_M_...18A--                                                                      | 56                              | 63            |
| 4.3             | 315.41 | 378              | 2.35              | 10000            | M0742300_M_...18A--                                                                      | 56                              | 63            |
| 3.8             | 361.21 | 433              | 2.06              | 10000            | M0742360_M_...18A--                                                                      | 56                              | 63            |
| 3.3             | 415.49 | 498              | 1.79              | 10000            | M0742400_M_...18A--                                                                      | 56                              | 63            |
| 2.9             | 469.77 | 563              | 1.59              | 10000            | M0742450_M_...18A--                                                                      | 56                              | 63            |
| 2.7             | 510.72 | 612              | 1.46              | 10000            | M0742500_M_...18A--                                                                      | 56                              | 63            |
| 2.3             | 592.12 | 710              | 1.26              | 10000            | M0742650_M_...18A--                                                                      | 56                              | 63            |
| 1.9             | 710.84 | 852              | 1.05              | 10000            | M0742730_M_...18A--                                                                      | 56                              | 63            |
| 1.6             | 847.84 | 1016             | 0.89              | 10000            | M0742860_M_...18A--                                                                      | 56                              | 63            |
| 245             | 3.75   | 6.9              | 9.90              | 1791             | M01223.6_M_...18C--                                                                      | 20                              | 71            |
| 181             | 5.07   | 9.3              | 8.19              | 1874             | M01225.0_M_...18C--                                                                      | 20                              | 71            |
| 160             | 5.76   | 10.5             | 7.40              | 1874             | M01225.6_M_...18C--                                                                      | 20                              | 71            |
| 141             | 6.53   | 12.0             | 6.69              | 1874             | M01226.3_M_...18C--                                                                      | 20                              | 71            |
| 110             | 8.35   | 15.3             | 5.56              | 1900             | M01228.0_M_...18C--                                                                      | 20                              | 71            |
| 102             | 9.00   | 16.5             | 5.28              | 1900             | M01229.0_M_...18C--                                                                      | 20                              | 71            |
| 81              | 11.36  | 20.8             | 4.33              | 1900             | M012211_M_...18C--                                                                       | 20                              | 71            |
| 71              | 12.88  | 23.6             | 3.82              | 1900             | M012212_M_...18C--                                                                       | 20                              | 71            |
| 63              | 14.71  | 26.9             | 3.34              | 1900             | M012214_M_...18C--                                                                       | 20                              | 71            |
| 56              | 16.37  | 30.0             | 3.00              | 1900             | M012216_M_...18C--                                                                       | 20                              | 71            |
| 51              | 18.05  | 33.1             | 2.72              | 1900             | M012218_M_...18C--                                                                       | 20                              | 71            |
| 46              | 19.86  | 36.4             | 2.47              | 1900             | M012220_M_...18C--                                                                       | 20                              | 71            |
| 40              | 23.27  | 42.6             | 2.11              | 1900             | M012222_M_...18C--                                                                       | 20                              | 71            |
| 33              | 27.92  | 51.1             | 1.76              | 1900             | M012228_M_...18C--                                                                       | 20                              | 71            |
| 28              | 32.54  | 59.6             | 1.51              | 1900             | M012232_M_...18C--                                                                       | 20                              | 71            |
| 25              | 36.16  | 66.2             | 1.36              | 1900             | M012236_M_...18C--                                                                       | 20                              | 71            |
| 21              | 43.54  | 79.7             | 1.05              | 1900             | M012245_M_...18C--                                                                       | 20                              | 71            |
| 35              | 26.40  | 48.3             | 3.31              | 4000             | M022228_M_...18C--                                                                       | 23                              | 71            |
| 29              | 31.68  | 58.0             | 2.76              | 4000             | M022232_M_...18C--                                                                       | 23                              | 71            |
| 26              | 35.69  | 65.4             | 2.45              | 4000             | M022236_M_...18C--                                                                       | 23                              | 71            |
| 22              | 41.49  | 76.0             | 2.11              | 4000             | M022245_M_...18C--                                                                       | 23                              | 71            |
| 20              | 47.09  | 86.2             | 1.86              | 4000             | M022250_M_...18C--                                                                       | 23                              | 71            |
| 17              | 53.54  | 98.0             | 1.63              | 4000             | M022256_M_...18C--                                                                       | 23                              | 71            |
| 16              | 57.03  | 103              | 1.55              | 4000             | M023256_M_...18C--                                                                       | 25                              | 71            |
| 15              | 62.87  | 114              | 1.40              | 4000             | M023263_M_...18C--                                                                       | 25                              | 71            |
| 13              | 69.19  | 125              | 1.28              | 4000             | M023271_M_...18C--                                                                       | 25                              | 71            |
| 11              | 81.07  | 147              | 1.09              | 4000             | M023280_M_...18C--                                                                       | 25                              | 71            |
| 9.5             | 97.26  | 176              | 0.91              | 4000             | M0232100_M_...18C--                                                                      | 25                              | 71            |
| 29              | 31.68  | 58               | 3.62              | 3491             | M032232_M_...18C--                                                                       | 23                              | 71            |
| 26              | 35.69  | 65               | 3.21              | 3445             | M032236_M_...18C--                                                                       | 23                              | 71            |
| 22              | 41.49  | 76               | 2.71              | 4000             | M032245_M_...18C--                                                                       | 23                              | 71            |
| 20              | 47.09  | 86               | 2.41              | 4000             | M032250_M_...18C--                                                                       | 23                              | 71            |
| 17              | 53.54  | 98               | 2.10              | 4000             | M032256_M_...18C--                                                                       | 23                              | 71            |
| 16              | 57.03  | 103              | 2.03              | 4000             | M033256_M_...18C--                                                                       | 25                              | 71            |
| 15              | 62.87  | 114              | 1.84              | 4000             | M033263_M_...18C--                                                                       | 25                              | 71            |
| 13              | 69.19  | 125              | 1.67              | 4000             | M033271_M_...18C--                                                                       | 25                              | 71            |
| 11              | 81.07  | 147              | 1.43              | 4000             | M033280_M_...18C--                                                                       | 25                              | 71            |
| 9.5             | 97.26  | 176              | 1.19              | 4000             | M0332100_M_...18C--                                                                      | 25                              | 71            |
| 8.1             | 113.37 | 205              | 1.02              | 4000             | M0332112_M_...18C--                                                                      | 25                              | 71            |
| 7.3             | 125.97 | 228              | 0.92              | 4000             | M0332125_M_...18C--                                                                      | 25                              | 71            |



## SELECTION TABLES

**0.18 kW**

6 POLE

**0.25 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 16              | 58.38  | 106              | 3.21              | 7200             | M043256_M_...18C--                                                                       | 35                              | 71            |
| 14              | 64.29  | 117              | 2.92              | 7200             | M043263_M_...18C--                                                                       | 35                              | 71            |
| 12              | 73.95  | 134              | 2.54              | 7200             | M043271_M_...18C--                                                                       | 35                              | 71            |
| 11              | 80.40  | 146              | 2.33              | 7200             | M043280_M_...18C--                                                                       | 35                              | 71            |
| 10              | 96.52  | 175              | 1.94              | 7200             | M0432100_M_...18C--                                                                      | 35                              | 71            |
| 7.9             | 115.82 | 210              | 1.62              | 7200             | M0432112_M_...18C--                                                                      | 35                              | 71            |
| 7.0             | 130.50 | 237              | 1.44              | 7200             | M0432125_M_...18C--                                                                      | 35                              | 71            |
| 6.1             | 151.71 | 275              | 1.24              | 7200             | M0432160_M_...18C--                                                                      | 35                              | 71            |
| 5.3             | 172.19 | 312              | 1.09              | 7200             | M0432180_M_...18C--                                                                      | 35                              | 71            |
| 4.7             | 195.75 | 355              | 0.96              | 7200             | M0432200_M_...18C--                                                                      | 35                              | 71            |
| 14              | 64.29  | 117              | 3.86              | 7200             | M053263_M_...18C--                                                                       | 35                              | 71            |
| 12              | 73.95  | 134              | 3.36              | 7200             | M053271_M_...18C--                                                                       | 35                              | 71            |
| 11              | 80.40  | 146              | 3.09              | 7200             | M053280_M_...18C--                                                                       | 35                              | 71            |
| 10              | 96.52  | 175              | 2.57              | 7200             | M0532100_M_...18C--                                                                      | 35                              | 71            |
| 7.9             | 115.82 | 210              | 2.14              | 7200             | M0532112_M_...18C--                                                                      | 35                              | 71            |
| 7.0             | 130.50 | 237              | 1.90              | 7200             | M0532125_M_...18C--                                                                      | 35                              | 71            |
| 6.1             | 151.71 | 275              | 1.64              | 7200             | M0532160_M_...18C--                                                                      | 35                              | 71            |
| 5.3             | 172.19 | 312              | 1.44              | 7200             | M0532180_M_...18C--                                                                      | 35                              | 71            |
| 4.7             | 195.75 | 355              | 1.27              | 7200             | M0532200_M_...18C--                                                                      | 35                              | 71            |
| 4.0             | 232.81 | 415              | 1.09              | 7200             | M0542225_M_...18C--                                                                      | 45                              | 71            |
| 3.5             | 260.47 | 465              | 0.97              | 7200             | M0542250_M_...18C--                                                                      | 45                              | 71            |
| 3.3             | 277.62 | 495              | 0.91              | 7200             | M0542280_M_...18C--                                                                      | 45                              | 71            |
| 3.0             | 305.72 | 546              | 0.83              | 7200             | M0542300_M_...18C--                                                                      | 45                              | 71            |
| 10              | 91.56  | 166              | 3.77              | 7200             | M063280_M_...18C--                                                                       | 40                              | 71            |
| 9.2             | 99.54  | 180              | 3.46              | 7200             | M0632100_M_...18C--                                                                      | 40                              | 71            |
| 7.7             | 119.50 | 217              | 2.89              | 7200             | M0632112_M_...18C--                                                                      | 40                              | 71            |
| 6.4             | 143.39 | 260              | 2.40              | 7200             | M0632125_M_...18C--                                                                      | 40                              | 71            |
| 5.7             | 161.57 | 293              | 2.13              | 7200             | M0632160_M_...18C--                                                                      | 40                              | 71            |
| 4.9             | 187.83 | 340              | 1.84              | 7200             | M0632180_M_...18C--                                                                      | 40                              | 71            |
| 4.3             | 213.18 | 386              | 1.62              | 7200             | M0632200_M_...18C--                                                                      | 40                              | 71            |
| 3.8             | 242.36 | 439              | 1.42              | 7200             | M0632225_M_...18C--                                                                      | 40                              | 71            |
| 3.4             | 272.91 | 487              | 1.28              | 7200             | M0642280_M_...18C--                                                                      | 51                              | 71            |
| 2.9             | 313.91 | 560              | 1.12              | 7200             | M0642300_M_...18C--                                                                      | 51                              | 71            |
| 2.5             | 365.10 | 651              | 0.96              | 7200             | M0642360_M_...18C--                                                                      | 51                              | 71            |
| 2.3             | 396.93 | 708              | 0.88              | 7200             | M0642400_M_...18C--                                                                      | 51                              | 71            |
| 4.0             | 229.00 | 409              | 2.15              | 10000            | M0742225_M_...18C--                                                                      | 59                              | 71            |
| 3.5             | 259.68 | 463              | 1.90              | 10000            | M0742250_M_...18C--                                                                      | 59                              | 71            |
| 3.2             | 286.42 | 511              | 1.72              | 10000            | M0742280_M_...18C--                                                                      | 59                              | 71            |
| 2.9             | 315.41 | 563              | 1.56              | 10000            | M0742300_M_...18C--                                                                      | 59                              | 71            |
| 2.5             | 361.21 | 645              | 1.37              | 10000            | M0742360_M_...18C--                                                                      | 59                              | 71            |
| 2.2             | 415.49 | 741              | 1.19              | 10000            | M0742400_M_...18C--                                                                      | 59                              | 71            |
| 2.0             | 469.77 | 838              | 1.05              | 10000            | M0742450_M_...18C--                                                                      | 59                              | 71            |
| 1.8             | 510.72 | 911              | 0.97              | 10000            | M0742500_M_...18C--                                                                      | 59                              | 71            |
| 1.6             | 592.12 | 1057             | 0.83              | 10000            | M0742650_M_...18C--                                                                      | 59                              | 71            |
| 373             | 3.75   | 6.3              | 9.62              | 1670             | M01223.6_M_...25A--                                                                      | 20                              | 71            |
| 276             | 5.07   | 8.5              | 8.07              | 1764             | M01225.0_M_...25A--                                                                      | 20                              | 71            |
| 243             | 5.76   | 10               | 7.53              | 1810             | M01225.6_M_...25A--                                                                      | 20                              | 71            |
| 214             | 6.53   | 11               | 6.95              | 1829             | M01226.3_M_...25A--                                                                      | 20                              | 71            |
| 168             | 8.35   | 14               | 5.75              | 1841             | M01228.0_M_...25A--                                                                      | 20                              | 71            |
| 156             | 9.00   | 15               | 5.41              | 1840             | M01229.0_M_...25A--                                                                      | 20                              | 71            |
| 123             | 11.36  | 19               | 4.48              | 1875             | M012211_M_...25A--                                                                       | 20                              | 71            |
| 109             | 12.88  | 22               | 4.09              | 1900             | M012212_M_...25A--                                                                       | 20                              | 71            |
| 95              | 14.71  | 25               | 3.70              | 1900             | M012214_M_...25A--                                                                       | 20                              | 71            |
| 86              | 16.37  | 27               | 3.33              | 1900             | M012216_M_...25A--                                                                       | 20                              | 71            |
| 78              | 18.05  | 30               | 3.02              | 1900             | M012218_M_...25A--                                                                       | 20                              | 71            |
| 70              | 19.86  | 33               | 2.75              | 1900             | M012220_M_...25A--                                                                       | 20                              | 71            |
| 60              | 23.27  | 39               | 2.34              | 1900             | M012222_M_...25A--                                                                       | 20                              | 71            |
| 50              | 27.92  | 47               | 1.96              | 1900             | M012228_M_...25A--                                                                       | 20                              | 71            |
| 43              | 32.54  | 54               | 1.68              | 1900             | M012232_M_...25A--                                                                       | 20                              | 71            |
| 39              | 36.16  | 60               | 1.52              | 1900             | M012236_M_...25A--                                                                       | 20                              | 71            |
| 32              | 43.54  | 73               | 1.17              | 1900             | M012245_M_...25A--                                                                       | 20                              | 71            |
| 28              | 49.91  | 83               | 0.88              | 1900             | M012250_M_...25A--                                                                       | 20                              | 71            |
| 24              | 58.46  | 97               | 0.95              | 1900             | M013256_M_...25A--                                                                       | 21                              | 71            |
| 22              | 64.45  | 107              | 0.87              | 1900             | M013263_M_...25A--                                                                       | 21                              | 71            |
| 53              | 26.40  | 44               | 3.68              | 4000             | M022228_M_...25A--                                                                       | 23                              | 71            |
| 44              | 31.68  | 53               | 3.07              | 4000             | M022232_M_...25A--                                                                       | 23                              | 71            |
| 39              | 35.69  | 60               | 2.73              | 4000             | M022236_M_...25A--                                                                       | 23                              | 71            |
| 34              | 41.49  | 69               | 2.35              | 4000             | M022245_M_...25A--                                                                       | 23                              | 71            |
| 30              | 47.09  | 79               | 2.07              | 4000             | M022250_M_...25A--                                                                       | 23                              | 71            |
| 26              | 53.54  | 89               | 1.82              | 4000             | M022256_M_...25A--                                                                       | 23                              | 71            |



## SELECTION TABLES

**0.25 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 25              | 57.03  | 94               | 1.73              | 4000             | M023256_M_-.25A--                                                                        | 25                              | 71            |
| 22              | 62.87  | 104              | 1.57              | 4000             | M023263_M_-.25A--                                                                        | 25                              | 71            |
| 20              | 69.19  | 114              | 1.43              | 4000             | M023271_M_-.25A--                                                                        | 25                              | 71            |
| 17              | 81.07  | 134              | 1.22              | 4000             | M023280_M_-.25A--                                                                        | 25                              | 71            |
| 14              | 97.26  | 161              | 1.02              | 4000             | M0232100_M_-.25A--                                                                       | 25                              | 71            |
| 12              | 113.37 | 188              | 0.87              | 4000             | M0232112_M_-.25A--                                                                       | 25                              | 71            |
| 44              | 31.68  | 53               | 3.97              | 3526             | M032232_M_-.25A--                                                                        | 23                              | 71            |
| 39              | 35.69  | 60               | 3.57              | 3837             | M032236_M_-.25A--                                                                        | 23                              | 71            |
| 34              | 41.49  | 69               | 2.91              | 4000             | M032245_M_-.25A--                                                                        | 23                              | 71            |
| 30              | 47.09  | 79               | 2.63              | 4000             | M032250_M_-.25A--                                                                        | 23                              | 71            |
| 26              | 53.54  | 89               | 2.34              | 4000             | M032256_M_-.25A--                                                                        | 23                              | 71            |
| 25              | 57.03  | 94               | 2.26              | 4000             | M033256_M_-.25A--                                                                        | 25                              | 71            |
| 22              | 62.87  | 104              | 2.05              | 4000             | M033263_M_-.25A--                                                                        | 25                              | 71            |
| 20              | 69.19  | 114              | 1.86              | 4000             | M033271_M_-.25A--                                                                        | 25                              | 71            |
| 17              | 81.07  | 134              | 1.59              | 4000             | M033280_M_-.25A--                                                                        | 25                              | 71            |
| 14              | 97.26  | 161              | 1.33              | 4000             | M0332100_M_-.25A--                                                                       | 25                              | 71            |
| 12              | 113.37 | 188              | 1.14              | 4000             | M0332112_M_-.25A--                                                                       | 25                              | 71            |
| 11              | 125.97 | 208              | 1.03              | 4000             | M0332125_M_-.25A--                                                                       | 25                              | 71            |
| 9.2             | 151.69 | 251              | 0.85              | 4000             | M0332160_M_-.25A--                                                                       | 25                              | 71            |
| 24              | 58.38  | 97               | 3.56              | 7200             | M043256_M_-.25A--                                                                        | 35                              | 71            |
| 22              | 64.29  | 106              | 3.23              | 7200             | M043263_M_-.25A--                                                                        | 35                              | 71            |
| 19              | 73.95  | 122              | 2.81              | 7200             | M043271_M_-.25A--                                                                        | 35                              | 71            |
| 17              | 80.40  | 133              | 2.58              | 7200             | M043280_M_-.25A--                                                                        | 35                              | 71            |
| 15              | 96.52  | 160              | 2.16              | 7200             | M0432100_M_-.25A--                                                                       | 35                              | 71            |
| 12              | 115.82 | 192              | 1.80              | 7200             | M0432112_M_-.25A--                                                                       | 35                              | 71            |
| 11              | 130.50 | 216              | 1.60              | 7200             | M0432125_M_-.25A--                                                                       | 35                              | 71            |
| 9.2             | 151.71 | 251              | 1.37              | 7200             | M0432160_M_-.25A--                                                                       | 35                              | 71            |
| 8.1             | 172.19 | 285              | 1.21              | 7200             | M0432180_M_-.25A--                                                                       | 35                              | 71            |
| 7.2             | 195.75 | 324              | 1.07              | 7200             | M0432200_M_-.25A--                                                                       | 35                              | 71            |
| 6.0             | 232.81 | 379              | 0.92              | 7200             | M0442225_M_-.25A--                                                                       | 45                              | 71            |
| 5.4             | 260.47 | 424              | 0.83              | 7200             | M0442250_M_-.25A--                                                                       | 45                              | 71            |
| 19              | 73.95  | 122              | 3.73              | 7200             | M053271_M_-.25A--                                                                        | 35                              | 71            |
| 17              | 80.40  | 133              | 3.43              | 7200             | M053280_M_-.25A--                                                                        | 35                              | 71            |
| 15              | 96.52  | 160              | 2.87              | 7200             | M0532100_M_-.25A--                                                                       | 35                              | 71            |
| 12              | 115.82 | 192              | 2.39              | 7200             | M0532112_M_-.25A--                                                                       | 35                              | 71            |
| 11              | 130.50 | 216              | 2.12              | 7200             | M0532125_M_-.25A--                                                                       | 35                              | 71            |
| 9.2             | 151.71 | 251              | 1.83              | 7200             | M0532160_M_-.25A--                                                                       | 35                              | 71            |
| 8.1             | 172.19 | 285              | 1.61              | 7200             | M0532180_M_-.25A--                                                                       | 35                              | 71            |
| 7.2             | 195.75 | 324              | 1.42              | 7200             | M0532200_M_-.25A--                                                                       | 35                              | 71            |
| 6.0             | 232.81 | 379              | 1.22              | 7200             | M0542225_M_-.25A--                                                                       | 45                              | 71            |
| 5.4             | 260.47 | 424              | 1.09              | 7200             | M0542250_M_-.25A--                                                                       | 45                              | 71            |
| 5.0             | 277.62 | 452              | 1.03              | 7200             | M0542280_M_-.25A--                                                                       | 45                              | 71            |
| 4.6             | 305.72 | 498              | 0.93              | 7200             | M0542300_M_-.25A--                                                                       | 45                              | 71            |
| 14              | 99.54  | 165              | 3.86              | 7200             | M0632100_M_-.25A--                                                                       | 40                              | 71            |
| 12              | 119.50 | 198              | 3.22              | 7200             | M0632112_M_-.25A--                                                                       | 40                              | 71            |
| 10              | 143.39 | 237              | 2.69              | 7200             | M0632125_M_-.25A--                                                                       | 40                              | 71            |
| 8.7             | 161.57 | 267              | 2.39              | 7200             | M0632160_M_-.25A--                                                                       | 40                              | 71            |
| 7.5             | 187.83 | 311              | 2.05              | 7200             | M0632180_M_-.25A--                                                                       | 40                              | 71            |
| 6.6             | 213.18 | 353              | 1.81              | 7200             | M0632200_M_-.25A--                                                                       | 40                              | 71            |
| 5.8             | 242.36 | 401              | 1.49              | 7200             | M0632225_M_-.25A--                                                                       | 40                              | 71            |
| 5.1             | 272.91 | 444              | 1.41              | 7200             | M0642280_M_-.25A--                                                                       | 51                              | 71            |
| 4.5             | 313.91 | 511              | 1.22              | 7200             | M0642300_M_-.25A--                                                                       | 51                              | 71            |
| 3.8             | 365.10 | 595              | 1.05              | 7200             | M0642360_M_-.25A--                                                                       | 51                              | 71            |
| 3.5             | 396.93 | 646              | 0.97              | 7200             | M0642400_M_-.25A--                                                                       | 51                              | 71            |
| 3.2             | 444.10 | 723              | 0.89              | 7200             | M0642450_M_-.25A--                                                                       | 51                              | 71            |
| 6.1             | 229.00 | 373              | 2.38              | 10000            | M0742225_M_-.25A--                                                                       | 59                              | 71            |
| 5.4             | 259.68 | 423              | 2.10              | 10000            | M0742250_M_-.25A--                                                                       | 59                              | 71            |
| 4.9             | 286.42 | 466              | 1.91              | 10000            | M0742280_M_-.25A--                                                                       | 59                              | 71            |
| 4.4             | 315.41 | 514              | 1.73              | 10000            | M0742300_M_-.25A--                                                                       | 59                              | 71            |
| 3.9             | 361.21 | 588              | 1.51              | 10000            | M0742360_M_-.25A--                                                                       | 59                              | 71            |
| 3.4             | 415.49 | 677              | 1.32              | 10000            | M0742400_M_-.25A--                                                                       | 59                              | 71            |
| 3.0             | 469.77 | 765              | 1.17              | 10000            | M0742450_M_-.25A--                                                                       | 59                              | 71            |
| 2.7             | 510.72 | 832              | 1.07              | 10000            | M0742500_M_-.25A--                                                                       | 59                              | 71            |
| 2.4             | 592.12 | 964              | 0.93              | 10000            | M0742650_M_-.25A--                                                                       | 59                              | 71            |



## SELECTION TABLES

**0.25 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 245             | 3.75   | 9.5              | 7.13              | 1768             | M01223.6_M_-.25C--                                                                                                       | 20                              | 71            |
| 181             | 5.07   | 13               | 5.89              | 1845             | M01225.0_M_-.25C--                                                                                                       | 20                              | 71            |
| 160             | 5.76   | 15               | 5.32              | 1844             | M01225.6_M_-.25C--                                                                                                       | 20                              | 71            |
| 141             | 6.53   | 17               | 4.82              | 1845             | M01226.3_M_-.25C--                                                                                                       | 20                              | 71            |
| 110             | 8.35   | 21               | 4.00              | 1900             | M01228.0_M_-.25C--                                                                                                       | 20                              | 71            |
| 102             | 9.00   | 23               | 3.80              | 1900             | M01229.0_M_-.25C--                                                                                                       | 20                              | 71            |
| 81              | 11.36  | 29               | 3.12              | 1900             | M012211_M_-.25C--                                                                                                        | 20                              | 71            |
| 71              | 12.88  | 33               | 2.75              | 1900             | M012212_M_-.25C--                                                                                                        | 20                              | 71            |
| 63              | 14.71  | 37               | 2.41              | 1900             | M012214_M_-.25C--                                                                                                        | 20                              | 71            |
| 56              | 16.37  | 42               | 2.16              | 1900             | M012216_M_-.25C--                                                                                                        | 20                              | 71            |
| 51              | 18.05  | 46               | 1.96              | 1900             | M012218_M_-.25C--                                                                                                        | 20                              | 71            |
| 46              | 19.86  | 51               | 1.78              | 1900             | M012220_M_-.25C--                                                                                                        | 20                              | 71            |
| 40              | 23.27  | 59               | 1.52              | 1900             | M012222_M_-.25C--                                                                                                        | 20                              | 71            |
| 33              | 27.92  | 71               | 1.27              | 1900             | M012228_M_-.25C--                                                                                                        | 20                              | 71            |
| 28              | 32.54  | 83               | 1.09              | 1900             | M012232_M_-.25C--                                                                                                        | 20                              | 71            |
| 25              | 36.16  | 92               | 0.98              | 1895             | M012236_M_-.25C--                                                                                                        | 20                              | 71            |
| 52              | 17.58  | 45               | 3.58              | 4000             | M022218_M_-.25C--                                                                                                        | 23                              | 71            |
| 45              | 20.23  | 51               | 3.11              | 4000             | M022220_M_-.25C--                                                                                                        | 23                              | 71            |
| 42              | 21.99  | 56               | 2.86              | 4000             | M022222_M_-.25C--                                                                                                        | 23                              | 71            |
| 35              | 26.40  | 67               | 2.38              | 4000             | M022228_M_-.25C--                                                                                                        | 23                              | 71            |
| 29              | 31.68  | 81               | 1.99              | 4000             | M022232_M_-.25C--                                                                                                        | 23                              | 71            |
| 26              | 35.69  | 91               | 1.76              | 4000             | M022236_M_-.25C--                                                                                                        | 23                              | 71            |
| 22              | 41.49  | 106              | 1.52              | 4000             | M022245_M_-.25C--                                                                                                        | 23                              | 71            |
| 20              | 47.09  | 120              | 1.34              | 4000             | M022250_M_-.25C--                                                                                                        | 23                              | 71            |
| 17              | 53.54  | 136              | 1.18              | 4000             | M022256_M_-.25C--                                                                                                        | 23                              | 71            |
| 16              | 57.03  | 144              | 1.11              | 4000             | M023256_M_-.25C--                                                                                                        | 25                              | 71            |
| 15              | 62.87  | 158              | 1.01              | 4000             | M023263_M_-.25C--                                                                                                        | 25                              | 71            |
| 13              | 69.19  | 174              | 0.92              | 4000             | M023271_M_-.25C--                                                                                                        | 25                              | 71            |
| 42              | 21.99  | 56               | 3.76              | 3873             | M032222_M_-.25C--                                                                                                        | 23                              | 71            |
| 35              | 26.40  | 67               | 3.13              | 3771             | M032228_M_-.25C--                                                                                                        | 23                              | 71            |
| 29              | 31.68  | 81               | 2.61              | 3695             | M032232_M_-.25C--                                                                                                        | 23                              | 71            |
| 26              | 35.69  | 91               | 2.31              | 3695             | M032236_M_-.25C--                                                                                                        | 23                              | 71            |
| 22              | 41.49  | 106              | 1.95              | 3918             | M032245_M_-.25C--                                                                                                        | 23                              | 71            |
| 20              | 47.09  | 120              | 1.74              | 4000             | M032250_M_-.25C--                                                                                                        | 23                              | 71            |
| 17              | 53.54  | 136              | 1.51              | 4000             | M032256_M_-.25C--                                                                                                        | 23                              | 71            |
| 16              | 57.03  | 144              | 1.46              | 4000             | M033256_M_-.25C--                                                                                                        | 25                              | 71            |
| 15              | 62.87  | 158              | 1.33              | 4000             | M033263_M_-.25C--                                                                                                        | 25                              | 71            |
| 13              | 69.19  | 174              | 1.21              | 4000             | M033271_M_-.25C--                                                                                                        | 25                              | 71            |
| 11              | 81.07  | 204              | 1.03              | 4000             | M033280_M_-.25C--                                                                                                        | 25                              | 71            |
| 9.5             | 97.26  | 245              | 0.86              | 4000             | M0332100_M_-.25C--                                                                                                       | 25                              | 71            |
| 16              | 58.38  | 147              | 2.31              | 7200             | M043256_M_-.25C--                                                                                                        | 35                              | 71            |
| 14              | 64.29  | 162              | 2.10              | 7200             | M043263_M_-.25C--                                                                                                        | 35                              | 71            |
| 12              | 73.95  | 186              | 1.83              | 7200             | M043271_M_-.25C--                                                                                                        | 35                              | 71            |
| 11              | 80.40  | 202              | 1.68              | 7200             | M043280_M_-.25C--                                                                                                        | 35                              | 71            |
| 10              | 96.52  | 243              | 1.40              | 7200             | M0432100_M_-.25C--                                                                                                       | 35                              | 71            |
| 7.9             | 115.82 | 292              | 1.17              | 7200             | M0432112_M_-.25C--                                                                                                       | 35                              | 71            |
| 7.0             | 130.50 | 329              | 1.04              | 7200             | M0432125_M_-.25C--                                                                                                       | 35                              | 71            |
| 6.1             | 151.71 | 382              | 0.89              | 7200             | M0432160_M_-.25C--                                                                                                       | 35                              | 71            |
| 16              | 58.38  | 147              | 3.06              | 7200             | M053256_M_-.25C--                                                                                                        | 35                              | 71            |
| 14              | 64.29  | 162              | 2.78              | 7200             | M053263_M_-.25C--                                                                                                        | 35                              | 71            |
| 12              | 73.95  | 186              | 2.42              | 7200             | M053271_M_-.25C--                                                                                                        | 35                              | 71            |
| 11              | 80.40  | 202              | 2.22              | 7200             | M053280_M_-.25C--                                                                                                        | 35                              | 71            |
| 10              | 96.52  | 243              | 1.85              | 7200             | M0532100_M_-.25C--                                                                                                       | 35                              | 71            |
| 7.9             | 115.82 | 292              | 1.54              | 7200             | M0532112_M_-.25C--                                                                                                       | 35                              | 71            |
| 7.0             | 130.50 | 329              | 1.37              | 7200             | M0532125_M_-.25C--                                                                                                       | 35                              | 71            |
| 6.1             | 151.71 | 382              | 1.18              | 7200             | M0532160_M_-.25C--                                                                                                       | 35                              | 71            |
| 5.3             | 172.19 | 433              | 1.04              | 7200             | M0532180_M_-.25C--                                                                                                       | 35                              | 71            |
| 4.7             | 195.75 | 493              | 0.91              | 7200             | M0532200_M_-.25C--                                                                                                       | 35                              | 71            |
| 13              | 72.28  | 182              | 3.44              | 7200             | M063263_M_-.25C--                                                                                                        | 40                              | 71            |
| 12              | 79.60  | 200              | 3.12              | 7200             | M063271_M_-.25C--                                                                                                        | 40                              | 71            |
| 10              | 91.56  | 230              | 2.71              | 7200             | M063280_M_-.25C--                                                                                                        | 40                              | 71            |
| 9.2             | 99.54  | 251              | 2.49              | 7200             | M0632100_M_-.25C--                                                                                                       | 40                              | 71            |
| 7.7             | 119.50 | 301              | 2.08              | 7200             | M0632112_M_-.25C--                                                                                                       | 40                              | 71            |
| 6.4             | 143.39 | 361              | 1.73              | 7200             | M0632125_M_-.25C--                                                                                                       | 40                              | 71            |
| 5.7             | 161.57 | 407              | 1.54              | 7200             | M0632160_M_-.25C--                                                                                                       | 40                              | 71            |
| 4.9             | 187.83 | 473              | 1.32              | 7200             | M0632180_M_-.25C--                                                                                                       | 40                              | 71            |
| 4.3             | 213.18 | 537              | 1.16              | 7200             | M0632200_M_-.25C--                                                                                                       | 40                              | 71            |
| 3.8             | 242.36 | 610              | 1.02              | 7200             | M0632225_M_-.25C--                                                                                                       | 40                              | 71            |
| 4.0             | 229.00 | 565              | 1.56              | 10000            | M0742225_M_-.25C--                                                                                                       | 59                              | 71            |
| 3.5             | 259.68 | 640              | 1.37              | 10000            | M0742250_M_-.25C--                                                                                                       | 59                              | 71            |
| 3.2             | 286.42 | 706              | 1.25              | 10000            | M0742280_M_-.25C--                                                                                                       | 59                              | 71            |
| 2.9             | 315.41 | 778              | 1.13              | 10000            | M0742300_M_-.25C--                                                                                                       | 59                              | 71            |
| 2.5             | 361.21 | 891              | 0.99              | 10000            | M0742360_M_-.25C--                                                                                                       | 59                              | 71            |
| 2.2             | 415.49 | 1024             | 0.86              | 10000            | M0742400_M_-.25C--                                                                                                       | 59                              | 71            |



## SELECTION TABLES

**0.37 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 376             | 3.75   | 9.2              | 6.50              | 1652             | M01223.6_M_-.25A--                                                                                                       | 20                              | 71            |
| 278             | 5.07   | 12               | 5.46              | 1740             | M01225.0_M_-.37A--                                                                                                       | 20                              | 71            |
| 245             | 5.76   | 14               | 5.09              | 1782             | M01225.6_M_-.37A--                                                                                                       | 20                              | 71            |
| 216             | 6.53   | 16               | 4.70              | 1782             | M01226.3_M_-.37A--                                                                                                       | 20                              | 71            |
| 169             | 8.35   | 21               | 3.89              | 1787             | M01228.0_M_-.37A--                                                                                                       | 20                              | 71            |
| 157             | 9.00   | 22               | 3.65              | 1785             | M01229.0_M_-.37A--                                                                                                       | 20                              | 71            |
| 124             | 11.36  | 28               | 3.03              | 1796             | M012211_M_-.37A--                                                                                                        | 20                              | 71            |
| 109             | 12.88  | 32               | 2.77              | 1879             | M012212_M_-.37A--                                                                                                        | 20                              | 71            |
| 96              | 14.71  | 36               | 2.50              | 1900             | M012214_M_-.37A--                                                                                                        | 20                              | 71            |
| 86              | 16.37  | 40               | 2.25              | 1900             | M012216_M_-.37A--                                                                                                        | 20                              | 71            |
| 78              | 18.05  | 44               | 2.04              | 1900             | M012218_M_-.37A--                                                                                                        | 20                              | 71            |
| 71              | 19.86  | 49               | 1.86              | 1900             | M012220_M_-.37A--                                                                                                        | 20                              | 71            |
| 61              | 23.27  | 57               | 1.58              | 1900             | M012222_M_-.37A--                                                                                                        | 20                              | 71            |
| 51              | 27.92  | 69               | 1.32              | 1900             | M012228_M_-.37A--                                                                                                        | 20                              | 71            |
| 43              | 32.54  | 80               | 1.14              | 1900             | M012232_M_-.37A--                                                                                                        | 20                              | 71            |
| 39              | 36.16  | 89               | 1.03              | 1900             | M012236_M_-.37A--                                                                                                        | 20                              | 71            |
| 80              | 17.58  | 43               | 3.73              | 4000             | M022218_M_-.37A--                                                                                                        | 23                              | 71            |
| 70              | 20.23  | 50               | 3.24              | 4000             | M022220_M_-.37A--                                                                                                        | 23                              | 71            |
| 64              | 21.99  | 54               | 2.97              | 4000             | M022222_M_-.37A--                                                                                                        | 23                              | 71            |
| 53              | 26.40  | 65               | 2.49              | 4000             | M022228_M_-.37A--                                                                                                        | 23                              | 71            |
| 45              | 31.68  | 78               | 2.08              | 4000             | M022232_M_-.37A--                                                                                                        | 23                              | 71            |
| 40              | 35.69  | 88               | 1.85              | 4000             | M022236_M_-.37A--                                                                                                        | 23                              | 71            |
| 34              | 41.49  | 102              | 1.59              | 4000             | M022245_M_-.37A--                                                                                                        | 23                              | 71            |
| 30              | 47.09  | 116              | 1.40              | 4000             | M022250_M_-.37A--                                                                                                        | 23                              | 71            |
| 26              | 53.54  | 131              | 1.23              | 4000             | M022256_M_-.37A--                                                                                                        | 23                              | 71            |
| 25              | 57.03  | 139              | 1.17              | 4000             | M023256_M_-.37A--                                                                                                        | 25                              | 71            |
| 22              | 62.87  | 153              | 1.06              | 4000             | M023263_M_-.37A--                                                                                                        | 25                              | 71            |
| 20              | 69.19  | 168              | 0.96              | 4000             | M023271_M_-.37A--                                                                                                        | 25                              | 71            |
| 17              | 81.07  | 197              | 0.82              | 4000             | M023280_M_-.37A--                                                                                                        | 25                              | 71            |
| 64              | 21.99  | 54               | 3.89              | 3856             | M032222_M_-.37A--                                                                                                        | 23                              | 71            |
| 53              | 26.40  | 65               | 3.26              | 3681             | M032228_M_-.37A--                                                                                                        | 23                              | 71            |
| 45              | 31.68  | 78               | 2.71              | 4000             | M032232_M_-.37A--                                                                                                        | 23                              | 71            |
| 40              | 35.69  | 88               | 2.41              | 4000             | M032236_M_-.37A--                                                                                                        | 23                              | 71            |
| 34              | 41.49  | 102              | 1.97              | 4000             | M032245_M_-.37A--                                                                                                        | 23                              | 71            |
| 30              | 47.09  | 116              | 1.77              | 4000             | M032250_M_-.37A--                                                                                                        | 23                              | 71            |
| 26              | 53.54  | 131              | 1.58              | 4000             | M032256_M_-.37A--                                                                                                        | 23                              | 71            |
| 25              | 57.03  | 139              | 1.53              | 4000             | M033256_M_-.37A--                                                                                                        | 25                              | 71            |
| 22              | 62.87  | 153              | 1.38              | 4000             | M033263_M_-.37A--                                                                                                        | 25                              | 71            |
| 20              | 69.19  | 168              | 1.26              | 4000             | M033271_M_-.37A--                                                                                                        | 25                              | 71            |
| 17              | 81.07  | 197              | 1.08              | 4000             | M033280_M_-.37A--                                                                                                        | 25                              | 71            |
| 14              | 97.26  | 236              | 0.90              | 4000             | M0332100_M_-.37A--                                                                                                       | 25                              | 71            |
| 40              | 35.25  | 87               | 3.93              | 7200             | M042236_M_-.37A--                                                                                                        | 34                              | 71            |
| 33              | 43.20  | 106              | 3.20              | 7200             | M042245_M_-.37A--                                                                                                        | 34                              | 71            |
| 29              | 48.15  | 118              | 2.88              | 7200             | M042250_M_-.37A--                                                                                                        | 34                              | 71            |
| 26              | 54.00  | 133              | 2.04              | 7200             | M042256_M_-.37A--                                                                                                        | 34                              | 71            |
| 24              | 58.38  | 142              | 2.41              | 7200             | M043256_M_-.37A--                                                                                                        | 35                              | 71            |
| 22              | 64.29  | 156              | 2.18              | 7200             | M043263_M_-.37A--                                                                                                        | 35                              | 71            |
| 19              | 73.95  | 180              | 1.90              | 7200             | M043271_M_-.37A--                                                                                                        | 35                              | 71            |
| 18              | 80.40  | 195              | 1.75              | 7200             | M043280_M_-.37A--                                                                                                        | 35                              | 71            |
| 15              | 96.52  | 235              | 1.46              | 7200             | M0432100_M_-.37A--                                                                                                       | 35                              | 71            |
| 12              | 115.82 | 282              | 1.22              | 7200             | M0432112_M_-.37A--                                                                                                       | 35                              | 71            |
| 11              | 130.50 | 317              | 1.08              | 7200             | M0432125_M_-.37A--                                                                                                       | 35                              | 71            |
| 9.3             | 151.71 | 369              | 0.93              | 7200             | M0432160_M_-.37A--                                                                                                       | 35                              | 71            |
| 8.2             | 172.19 | 419              | 0.82              | 7200             | M0432180_M_-.37A--                                                                                                       | 35                              | 71            |
| 29              | 48.15  | 118              | 3.21              | 7200             | M052250_M_-.37A--                                                                                                        | 34                              | 71            |
| 26              | 54.00  | 133              | 2.04              | 7200             | M052256_M_-.37A--                                                                                                        | 34                              | 71            |
| 24              | 58.38  | 142              | 3.18              | 7200             | M053256_M_-.37A--                                                                                                        | 35                              | 71            |
| 22              | 64.29  | 156              | 2.90              | 7200             | M053263_M_-.37A--                                                                                                        | 35                              | 71            |
| 19              | 73.95  | 180              | 2.52              | 7200             | M053271_M_-.37A--                                                                                                        | 35                              | 71            |
| 18              | 80.40  | 195              | 2.32              | 7200             | M053280_M_-.37A--                                                                                                        | 35                              | 71            |
| 15              | 96.52  | 235              | 1.94              | 7200             | M0532100_M_-.37A--                                                                                                       | 35                              | 71            |
| 12              | 115.82 | 282              | 1.62              | 7200             | M0532112_M_-.37A--                                                                                                       | 35                              | 71            |
| 11              | 130.50 | 317              | 1.44              | 7200             | M0532125_M_-.37A--                                                                                                       | 35                              | 71            |
| 9.3             | 151.71 | 369              | 1.23              | 7200             | M0532160_M_-.37A--                                                                                                       | 35                              | 71            |
| 8.2             | 172.19 | 419              | 1.09              | 7200             | M0532180_M_-.37A--                                                                                                       | 35                              | 71            |
| 7.2             | 195.75 | 476              | 0.96              | 7200             | M0532200_M_-.37A--                                                                                                       | 35                              | 71            |
| 26              | 53.49  | 131              | 4.00              | 7200             | M062250_M_-.37A--                                                                                                        | 39                              | 71            |
| 24              | 59.61  | 146              | 3.21              | 7200             | M062256_M_-.37A--                                                                                                        | 39                              | 71            |
| 21              | 66.86  | 164              | 2.03              | 7200             | M062263_M_-.37A--                                                                                                        | 39                              | 71            |



## SELECTION TABLES

**0.37 kW**

4 POLE

**0.37 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 20              | 72.28  | 176              | 3.60              | 7200             | M063263_M_-.37A--                                                                                                        | 40                              | 71            |
| 18              | 79.60  | 193              | 3.24              | 7200             | M063271_M_-.37A--                                                                                                        | 40                              | 71            |
| 15              | 91.56  | 223              | 2.84              | 7200             | M063280_M_-.37A--                                                                                                        | 40                              | 71            |
| 14              | 99.54  | 242              | 2.61              | 7200             | M0632100_M_-.37A--                                                                                                       | 40                              | 71            |
| 12              | 119.50 | 290              | 2.17              | 7200             | M0632112_M_-.37A--                                                                                                       | 40                              | 71            |
| 10              | 143.39 | 349              | 1.82              | 7200             | M0632125_M_-.37A--                                                                                                       | 40                              | 71            |
| 8.7             | 161.57 | 393              | 1.61              | 7200             | M0632160_M_-.37A--                                                                                                       | 40                              | 71            |
| 7.5             | 187.83 | 457              | 1.39              | 7200             | M0632180_M_-.37A--                                                                                                       | 40                              | 71            |
| 6.6             | 213.18 | 518              | 1.22              | 7200             | M0632200_M_-.37A--                                                                                                       | 40                              | 71            |
| 5.8             | 242.36 | 589              | 1.02              | 7200             | M0632225_M_-.37A--                                                                                                       | 40                              | 71            |
| 5.2             | 272.91 | 650              | 0.96              | 7200             | M0642280_M_-.37A--                                                                                                       | 51                              | 71            |
| 6.2             | 229.00 | 545              | 1.61              | 10000            | M0742225_M_-.37A--                                                                                                       | 59                              | 71            |
| 5.4             | 259.68 | 618              | 1.42              | 10000            | M0742250_M_-.37A--                                                                                                       | 59                              | 71            |
| 4.9             | 286.42 | 682              | 1.29              | 10000            | M0742280_M_-.37A--                                                                                                       | 59                              | 71            |
| 4.5             | 315.41 | 751              | 1.17              | 10000            | M0742300_M_-.37A--                                                                                                       | 59                              | 71            |
| 3.9             | 361.21 | 860              | 1.02              | 10000            | M0742360_M_-.37A--                                                                                                       | 59                              | 71            |
| 3.4             | 415.49 | 989              | 0.89              | 10000            | M0742400_M_-.37A--                                                                                                       | 59                              | 71            |
| 245             | 3.75   | 14               | 4.90              | 1730             | M01223.6_M_-.37C--                                                                                                       | 28                              | 80            |
| 181             | 5.07   | 19               | 4.01              | 1795             | M01225.0_M_-.37C--                                                                                                       | 28                              | 80            |
| 160             | 5.76   | 22               | 3.65              | 1792             | M01225.6_M_-.37C--                                                                                                       | 28                              | 80            |
| 141             | 6.53   | 25               | 3.29              | 1795             | M01226.3_M_-.37C--                                                                                                       | 28                              | 80            |
| 110             | 8.35   | 31               | 2.75              | 1855             | M01228.0_M_-.37C--                                                                                                       | 28                              | 80            |
| 102             | 9.00   | 34               | 2.59              | 1899             | M01229.0_M_-.37C--                                                                                                       | 28                              | 80            |
| 81              | 11.36  | 43               | 2.12              | 1900             | M012211_M_-.37C--                                                                                                        | 28                              | 80            |
| 71              | 12.88  | 48               | 1.88              | 1900             | M012212_M_-.37C--                                                                                                        | 28                              | 80            |
| 63              | 14.71  | 55               | 1.64              | 1900             | M012214_M_-.37C--                                                                                                        | 28                              | 80            |
| 56              | 16.37  | 62               | 1.48              | 1900             | M012216_M_-.37C--                                                                                                        | 28                              | 80            |
| 51              | 18.05  | 68               | 1.34              | 1900             | M012218_M_-.37C--                                                                                                        | 28                              | 80            |
| 46              | 19.86  | 75               | 1.22              | 1900             | M012220_M_-.37C--                                                                                                        | 28                              | 80            |
| 40              | 23.27  | 88               | 1.04              | 1900             | M012222_M_-.37C--                                                                                                        | 28                              | 80            |
| 33              | 27.92  | 105              | 0.87              | 1900             | M012228_M_-.37C--                                                                                                        | 28                              | 80            |
| 83              | 11.15  | 42               | 3.76              | 4000             | M022211_M_-.37C--                                                                                                        | 30                              | 80            |
| 74              | 12.37  | 47               | 3.47              | 4000             | M022212_M_-.37C--                                                                                                        | 30                              | 80            |
| 65              | 14.05  | 53               | 3.06              | 4000             | M022214_M_-.37C--                                                                                                        | 30                              | 80            |
| 58              | 15.97  | 60               | 2.69              | 4000             | M022216_M_-.37C--                                                                                                        | 30                              | 80            |
| 52              | 17.58  | 66               | 2.45              | 4000             | M022218_M_-.37C--                                                                                                        | 30                              | 80            |
| 45              | 20.23  | 76               | 2.13              | 4000             | M022220_M_-.37C--                                                                                                        | 30                              | 80            |
| 42              | 21.99  | 83               | 1.96              | 4000             | M022222_M_-.37C--                                                                                                        | 30                              | 80            |
| 35              | 26.40  | 99               | 1.63              | 4000             | M022228_M_-.37C--                                                                                                        | 30                              | 80            |
| 29              | 31.68  | 119              | 1.36              | 4000             | M022232_M_-.37C--                                                                                                        | 30                              | 80            |
| 26              | 35.69  | 134              | 1.21              | 4000             | M022236_M_-.37C--                                                                                                        | 30                              | 80            |
| 22              | 41.49  | 156              | 1.04              | 4000             | M022245_M_-.37C--                                                                                                        | 30                              | 80            |
| 20              | 47.09  | 177              | 0.92              | 3963             | M022250_M_-.37C--                                                                                                        | 30                              | 80            |
| 20              | 53.54  | 202              | 0.81              | 3908             | M022256_M_-.37C--                                                                                                        | 30                              | 80            |
| 58              | 15.97  | 60               | 3.52              | 4000             | M032216_M_-.37C--                                                                                                        | 30                              | 80            |
| 52              | 17.58  | 66               | 3.19              | 3933             | M032218_M_-.37C--                                                                                                        | 30                              | 80            |
| 45              | 20.23  | 76               | 2.77              | 3768             | M032220_M_-.37C--                                                                                                        | 30                              | 80            |
| 42              | 21.99  | 83               | 2.56              | 3657             | M032222_M_-.37C--                                                                                                        | 30                              | 80            |
| 35              | 26.40  | 99               | 2.13              | 3380             | M032228_M_-.37C--                                                                                                        | 30                              | 80            |
| 29              | 31.68  | 119              | 1.78              | 3228             | M032232_M_-.37C--                                                                                                        | 30                              | 80            |
| 26              | 35.69  | 134              | 1.59              | 3189             | M032236_M_-.37C--                                                                                                        | 30                              | 80            |
| 22              | 41.49  | 156              | 1.34              | 3759             | M032245_M_-.37C--                                                                                                        | 30                              | 80            |
| 20              | 47.09  | 177              | 1.20              | 4000             | M032250_M_-.37C--                                                                                                        | 30                              | 80            |
| 17              | 53.54  | 202              | 1.04              | 4000             | M032256_M_-.37C--                                                                                                        | 30                              | 80            |
| 16              | 57.03  | 212              | 1.00              | 4000             | M033256_M_-.37C--                                                                                                        | 32                              | 80            |
| 15              | 62.87  | 234              | 0.91              | 4000             | M033263_M_-.37C--                                                                                                        | 32                              | 80            |
| 13              | 69.19  | 258              | 0.83              | 4000             | M033271_M_-.37C--                                                                                                        | 32                              | 80            |
| 34              | 27.30  | 103              | 3.34              | 7200             | M042228_M_-.37C--                                                                                                        | 40                              | 80            |
| 29              | 32.19  | 121              | 2.82              | 7200             | M042232_M_-.37C--                                                                                                        | 40                              | 80            |
| 26              | 35.25  | 133              | 2.58              | 7200             | M042236_M_-.37C--                                                                                                        | 40                              | 80            |
| 21              | 43.20  | 163              | 2.11              | 7200             | M042245_M_-.37C--                                                                                                        | 40                              | 80            |
| 19              | 48.15  | 181              | 1.90              | 7200             | M042250_M_-.37C--                                                                                                        | 40                              | 80            |
| 17              | 54.00  | 203              | 1.35              | 7200             | M042256_M_-.37C--                                                                                                        | 40                              | 80            |
| 16              | 58.38  | 217              | 1.58              | 7200             | M043256_M_-.37C--                                                                                                        | 41                              | 80            |
| 14              | 64.29  | 240              | 1.43              | 7200             | M043263_M_-.37C--                                                                                                        | 41                              | 80            |
| 12              | 73.95  | 276              | 1.25              | 7200             | M043271_M_-.37C--                                                                                                        | 41                              | 80            |
| 11              | 80.40  | 300              | 1.15              | 7200             | M043280_M_-.37C--                                                                                                        | 41                              | 80            |
| 10              | 96.52  | 360              | 0.96              | 7200             | M0432100_M_-.37C--                                                                                                       | 41                              | 80            |



## SELECTION TABLES

**0.37 kW**

6 POLE

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 29              | 32.19   | 121              | 3.76              | 7200             | M052232_M_-.37C--                                                                        | 40                              | 80            |
| 26              | 35.25   | 133              | 3.44              | 7200             | M052236_M_-.37C--                                                                        | 40                              | 80            |
| 21              | 43.20   | 163              | 2.54              | 7200             | M052245_M_-.37C--                                                                        | 40                              | 80            |
| 19              | 48.15   | 181              | 2.13              | 7200             | M052250_M_-.37C--                                                                        | 40                              | 80            |
| 17              | 54.00   | 203              | 1.35              | 7200             | M052256_M_-.37C--                                                                        | 40                              | 80            |
| 16              | 58.38   | 217              | 2.10              | 7200             | M053256_M_-.37C--                                                                        | 41                              | 80            |
| 14              | 64.29   | 240              | 1.90              | 7200             | M053263_M_-.37C--                                                                        | 41                              | 80            |
| 12              | 73.95   | 276              | 1.66              | 7200             | M053271_M_-.37C--                                                                        | 41                              | 80            |
| 11              | 80.40   | 300              | 1.52              | 7200             | M053280_M_-.37C--                                                                        | 41                              | 80            |
| 10              | 96.52   | 360              | 1.27              | 7200             | M0532100_M_-.37C--                                                                       | 41                              | 80            |
| 7.9             | 115.82  | 431              | 1.06              | 7200             | M0532112_M_-.37C--                                                                       | 41                              | 80            |
| 7.0             | 130.50  | 486              | 0.94              | 7200             | M0532125_M_-.37C--                                                                       | 41                              | 80            |
| 6.1             | 151.71  | 565              | 0.81              | 7200             | M0532160_M_-.37C--                                                                       | 41                              | 80            |
| 21              | 43.64   | 164              | 3.80              | 7200             | M062245_M_-.37C--                                                                        | 45                              | 80            |
| 17              | 53.49   | 201              | 2.70              | 7200             | M062250_M_-.37C--                                                                        | 45                              | 80            |
| 15              | 59.61   | 224              | 2.13              | 7200             | M062256_M_-.37C--                                                                        | 45                              | 80            |
| 14              | 66.86   | 252              | 1.33              | 7200             | M062263_M_-.37C--                                                                        | 45                              | 80            |
| 13              | 72.28   | 269              | 2.36              | 7200             | M063263_M_-.37C--                                                                        | 46                              | 80            |
| 12              | 79.60   | 297              | 2.14              | 7200             | M063271_M_-.37C--                                                                        | 46                              | 80            |
| 10              | 91.56   | 341              | 1.86              | 7200             | M063280_M_-.37C--                                                                        | 46                              | 80            |
| 9.2             | 99.54   | 371              | 1.71              | 7200             | M0632100_M_-.37C--                                                                       | 46                              | 80            |
| 7.7             | 119.50  | 445              | 1.43              | 7200             | M0632112_M_-.37C--                                                                       | 46                              | 80            |
| 6.4             | 143.39  | 534              | 1.19              | 7200             | M0632125_M_-.37C--                                                                       | 46                              | 80            |
| 5.7             | 161.57  | 602              | 1.06              | 7200             | M0632160_M_-.37C--                                                                       | 46                              | 80            |
| 4.9             | 187.83  | 700              | 0.91              | 7200             | M0632180_M_-.37C--                                                                       | 46                              | 80            |
| 4.3             | 213.18  | 794              | 0.80              | 7200             | M0632200_M_-.37C--                                                                       | 46                              | 80            |
| 16              | 58.95   | 220              | 3.99              | 10000            | M073256_M_-.37C--                                                                        | 56                              | 80            |
| 15              | 62.83   | 234              | 3.76              | 10000            | M073263_M_-.37C--                                                                        | 56                              | 80            |
| 12              | 74.47   | 277              | 3.16              | 10000            | M073271_M_-.37C--                                                                        | 56                              | 80            |
| 12              | 79.51   | 296              | 2.98              | 10000            | M073280_M_-.37C--                                                                        | 56                              | 80            |
| 9.3             | 98.66   | 368              | 2.40              | 10000            | M0732100_M_-.37C--                                                                       | 56                              | 80            |
| 7.9             | 116.34  | 433              | 2.04              | 10000            | M0732112_M_-.37C--                                                                       | 56                              | 80            |
| 7.2             | 127.39  | 475              | 1.86              | 10000            | M0732125_M_-.37C--                                                                       | 56                              | 80            |
| 5.9             | 156.12  | 582              | 1.54              | 10000            | M0732160_M_-.37C--                                                                       | 56                              | 80            |
| 5.3             | 174.01  | 648              | 1.39              | 10000            | M0732180_M_-.37C--                                                                       | 56                              | 80            |
| 4.7             | 195.15  | 727              | 1.25              | 10000            | M0732200_M_-.37C--                                                                       | 56                              | 80            |
| 4.0             | 229.00  | 836              | 1.06              | 10000            | M0742225_M_-.37C--                                                                       | 65                              | 80            |
| 3.5             | 259.68  | 948              | 0.93              | 10000            | M0742250_M_-.37C--                                                                       | 65                              | 80            |
| 3.2             | 286.42  | 1045             | 0.85              | 10000            | M0742280_M_-.37C--                                                                       | 65                              | 80            |
| 4.0             | 228.91  | 835              | 2.04              | 16200            | M0842225_M_-.37C--                                                                       | 113                             | 80            |
| 3.6             | 258.98  | 945              | 1.80              | 16200            | M0842250_M_-.37C--                                                                       | 113                             | 80            |
| 3.1             | 301.21  | 1099             | 1.55              | 16200            | M0842280_M_-.37C--                                                                       | 113                             | 80            |
| 2.7             | 337.01  | 1230             | 1.38              | 16200            | M0842300_M_-.37C--                                                                       | 113                             | 80            |
| 2.6             | 359.19  | 1311             | 1.30              | 16200            | M0842360_M_-.37C--                                                                       | 113                             | 80            |
| 2.2             | 425.69  | 1553             | 1.09              | 16200            | M0842400_M_-.37C--                                                                       | 113                             | 80            |
| 1.9             | 480.51  | 1753             | 0.97              | 16200            | M0842450_M_-.37C--                                                                       | 113                             | 80            |
| 1.8             | 513.04  | 1872             | 0.91              | 16200            | M0842500_M_-.37C--                                                                       | 113                             | 80            |
| 4.0             | 231.85  | 846              | 3.68              | 20500            | M0942225_M_-.37C--                                                                       | 168                             | 80            |
| 3.6             | 258.09  | 942              | 3.30              | 20500            | M0942250_M_-.37C--                                                                       | 168                             | 80            |
| 3.2             | 286.74  | 1046             | 2.97              | 20500            | M0942280_M_-.37C--                                                                       | 168                             | 80            |
| 3.1             | 300.18  | 1095             | 2.84              | 20500            | M0942300_M_-.37C--                                                                       | 168                             | 80            |
| 2.6             | 357.95  | 1306             | 2.38              | 20500            | M0942360_M_-.37C--                                                                       | 168                             | 80            |
| 2.3             | 397.69  | 1451             | 2.14              | 20500            | M0942400_M_-.37C--                                                                       | 168                             | 80            |
| 2.0             | 452.94  | 1653             | 1.88              | 20500            | M0942450_M_-.37C--                                                                       | 168                             | 80            |
| 1.8             | 503.22  | 1836             | 1.69              | 20500            | M0942500_M_-.37C--                                                                       | 168                             | 80            |
| 1.4             | 665.75  | 2429             | 1.28              | 20500            | M0942650_M_-.37C--                                                                       | 168                             | 80            |
| 1.2             | 736.35  | 2687             | 1.16              | 20500            | M0942730_M_-.37C--                                                                       | 168                             | 80            |
| 1.0             | 882.06  | 3218             | 0.97              | 20500            | M0942860_M_-.37C--                                                                       | 168                             | 80            |
| 0.88            | 1040.13 | 3795             | 0.82              | 20500            | M094210C_M_-.37C--                                                                       | 168                             | 80            |
| 0.34            | 2735.22 | 9980             | 0.97              | 55000            | M135227C_M_-.37C--                                                                       | 325                             | 80            |
| 0.29            | 3150.18 | 11494            | 0.84              | 55000            | M135232C_M_-.37C--                                                                       | 325                             | 80            |
| 0.34            | 2739.37 | 9995             | 1.30              | 68000            | M145227C_M_-.37C--                                                                       | 421                             | 80            |
| 0.28            | 3285.96 | 11990            | 1.08              | 68000            | M145232C_M_-.37C--                                                                       | 421                             | 80            |
| 0.26            | 3598.07 | 13128            | 0.99              | 68000            | M145236C_M_-.37C--                                                                       | 421                             | 80            |
| 0.23            | 3943.15 | 14387            | 0.90              | 68000            | M145240C_M_-.37C--                                                                       | 421                             | 80            |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**0.55 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 379             | 3.75   | 14               | 4.43              | 1625             | M01223.6_M_-.55A--                                                                                                       | 28                              | 80            |
| 280             | 5.07   | 18               | 3.72              | 1705             | M01225.0_M_-.55A--                                                                                                       | 28                              | 80            |
| 247             | 5.76   | 21               | 3.47              | 1740             | M01225.6_M_-.55A--                                                                                                       | 28                              | 80            |
| 217             | 6.53   | 24               | 3.21              | 1711             | M01226.3_M_-.55A--                                                                                                       | 28                              | 80            |
| 170             | 8.35   | 30               | 2.65              | 1706             | M01228.0_M_-.55A--                                                                                                       | 28                              | 80            |
| 158             | 9.00   | 33               | 2.49              | 1703             | M01229.0_M_-.55A--                                                                                                       | 28                              | 80            |
| 125             | 11.36  | 41               | 2.07              | 1722             | M012211_M_-.55A--                                                                                                        | 28                              | 80            |
| 110             | 12.88  | 47               | 1.89              | 1802             | M012212_M_-.55A--                                                                                                        | 28                              | 80            |
| 97              | 14.71  | 53               | 1.70              | 1876             | M012214_M_-.55A--                                                                                                        | 28                              | 80            |
| 87              | 16.37  | 59               | 1.54              | 1900             | M012216_M_-.55A--                                                                                                        | 28                              | 80            |
| 79              | 18.05  | 65               | 1.39              | 1900             | M012218_M_-.55A--                                                                                                        | 28                              | 80            |
| 72              | 19.86  | 72               | 1.27              | 1900             | M012220_M_-.55A--                                                                                                        | 28                              | 80            |
| 61              | 23.27  | 84               | 1.08              | 1900             | M012222_M_-.55A--                                                                                                        | 28                              | 80            |
| 51              | 27.92  | 101              | 0.90              | 1878             | M012228_M_-.55A--                                                                                                        | 28                              | 80            |
| 127             | 11.15  | 40               | 3.63              | 4000             | M022211_M_-.55A--                                                                                                        | 30                              | 80            |
| 115             | 12.37  | 45               | 3.35              | 4000             | M022212_M_-.55A--                                                                                                        | 30                              | 80            |
| 101             | 14.05  | 51               | 3.04              | 4000             | M022214_M_-.55A--                                                                                                        | 30                              | 80            |
| 89              | 15.97  | 58               | 2.80              | 4000             | M022216_M_-.55A--                                                                                                        | 30                              | 80            |
| 81              | 17.58  | 64               | 2.55              | 4000             | M022218_M_-.55A--                                                                                                        | 30                              | 80            |
| 70              | 20.23  | 73               | 2.21              | 4000             | M022220_M_-.55A--                                                                                                        | 30                              | 80            |
| 65              | 21.99  | 80               | 2.03              | 4000             | M022222_M_-.55A--                                                                                                        | 30                              | 80            |
| 54              | 26.40  | 96               | 1.70              | 4000             | M022228_M_-.55A--                                                                                                        | 30                              | 80            |
| 45              | 31.68  | 115              | 1.42              | 4000             | M022232_M_-.55A--                                                                                                        | 30                              | 80            |
| 40              | 35.69  | 129              | 1.26              | 4000             | M022236_M_-.55A--                                                                                                        | 30                              | 80            |
| 34              | 41.49  | 150              | 1.08              | 4000             | M022245_M_-.55A--                                                                                                        | 30                              | 80            |
| 30              | 47.09  | 171              | 0.95              | 4000             | M022250_M_-.55A--                                                                                                        | 30                              | 80            |
| 27              | 53.54  | 194              | 0.84              | 4000             | M022256_M_-.55A--                                                                                                        | 30                              | 80            |
| 101             | 14.05  | 51               | 3.85              | 4000             | M032214_M_-.55A--                                                                                                        | 30                              | 80            |
| 89              | 15.97  | 58               | 3.60              | 3972             | M032216_M_-.55A--                                                                                                        | 30                              | 80            |
| 81              | 17.58  | 64               | 3.31              | 3934             | M032218_M_-.55A--                                                                                                        | 30                              | 80            |
| 70              | 20.23  | 73               | 2.88              | 3798             | M032220_M_-.55A--                                                                                                        | 30                              | 80            |
| 65              | 21.99  | 80               | 2.65              | 3729             | M032222_M_-.55A--                                                                                                        | 30                              | 80            |
| 54              | 26.40  | 96               | 2.23              | 3484             | M032228_M_-.55A--                                                                                                        | 30                              | 80            |
| 45              | 31.68  | 115              | 1.85              | 3469             | M032232_M_-.55A--                                                                                                        | 30                              | 80            |
| 40              | 35.69  | 129              | 1.65              | 3233             | M032236_M_-.55A--                                                                                                        | 30                              | 80            |
| 34              | 41.49  | 150              | 1.34              | 3759             | M032245_M_-.55A--                                                                                                        | 30                              | 80            |
| 30              | 47.09  | 171              | 1.21              | 4000             | M032250_M_-.55A--                                                                                                        | 30                              | 80            |
| 27              | 53.53  | 194              | 1.08              | 4000             | M032256_M_-.55A--                                                                                                        | 30                              | 80            |
| 25              | 57.03  | 205              | 1.04              | 4000             | M033256_M_-.55A--                                                                                                        | 32                              | 80            |
| 23              | 62.87  | 226              | 0.94              | 4000             | M033263_M_-.55A--                                                                                                        | 32                              | 80            |
| 21              | 69.19  | 248              | 0.86              | 4000             | M033271_M_-.55A--                                                                                                        | 32                              | 80            |
| 52              | 27.30  | 99               | 3.44              | 7200             | M042228_M_-.55A--                                                                                                        | 40                              | 80            |
| 44              | 32.19  | 117              | 2.94              | 7200             | M042232_M_-.55A--                                                                                                        | 40                              | 80            |
| 40              | 35.25  | 128              | 2.69              | 7200             | M042236_M_-.55A--                                                                                                        | 40                              | 80            |
| 33              | 43.20  | 157              | 2.19              | 7200             | M042245_M_-.55A--                                                                                                        | 40                              | 80            |
| 29              | 48.15  | 175              | 1.98              | 7200             | M042250_M_-.55A--                                                                                                        | 40                              | 80            |
| 26              | 54.00  | 196              | 1.41              | 7200             | M042256_M_-.55A--                                                                                                        | 40                              | 80            |
| 24              | 58.38  | 209              | 1.64              | 7200             | M043256_M_-.55A--                                                                                                        | 41                              | 80            |
| 22              | 64.29  | 231              | 1.49              | 7200             | M043263_M_-.55A--                                                                                                        | 41                              | 80            |
| 19              | 73.95  | 265              | 1.29              | 7200             | M043271_M_-.55A--                                                                                                        | 41                              | 80            |
| 18              | 80.40  | 288              | 1.19              | 7200             | M043280_M_-.55A--                                                                                                        | 41                              | 80            |
| 15              | 96.52  | 346              | 0.99              | 7200             | M0432100_M_-.55A--                                                                                                       | 41                              | 80            |
| 12              | 115.82 | 416              | 0.83              | 7200             | M0432112_M_-.55A--                                                                                                       | 41                              | 80            |
| 44              | 32.19  | 117              | 3.90              | 7200             | M052232_M_-.55A--                                                                                                        | 40                              | 80            |
| 40              | 35.25  | 128              | 3.58              | 7200             | M052236_M_-.55A--                                                                                                        | 40                              | 80            |
| 33              | 43.20  | 157              | 2.71              | 7200             | M052245_M_-.55A--                                                                                                        | 40                              | 80            |
| 29              | 48.15  | 175              | 2.18              | 7200             | M052250_M_-.55A--                                                                                                        | 40                              | 80            |
| 26              | 54.00  | 196              | 1.41              | 7200             | M052256_M_-.55A--                                                                                                        | 40                              | 80            |
| 24              | 58.38  | 209              | 2.17              | 7200             | M053256_M_-.55A--                                                                                                        | 41                              | 80            |
| 22              | 64.29  | 231              | 1.98              | 7200             | M053263_M_-.55A--                                                                                                        | 41                              | 80            |
| 19              | 73.95  | 265              | 1.72              | 7200             | M053271_M_-.55A--                                                                                                        | 41                              | 80            |
| 18              | 80.40  | 288              | 1.58              | 7200             | M053280_M_-.55A--                                                                                                        | 41                              | 80            |
| 15              | 96.52  | 346              | 1.32              | 7200             | M0532100_M_-.55A--                                                                                                       | 41                              | 80            |
| 12              | 115.82 | 416              | 1.10              | 7200             | M0532112_M_-.55A--                                                                                                       | 41                              | 80            |
| 11              | 130.50 | 468              | 0.98              | 7200             | M0532125_M_-.55A--                                                                                                       | 41                              | 80            |
| 9.4             | 151.70 | 544              | 0.84              | 7200             | M0532160_M_-.55A--                                                                                                       | 41                              | 80            |
| 33              | 43.64  | 158              | 3.95              | 7200             | M062245_M_-.55A--                                                                                                        | 45                              | 80            |
| 27              | 53.49  | 194              | 2.76              | 7200             | M062250_M_-.55A--                                                                                                        | 45                              | 80            |
| 24              | 59.61  | 216              | 2.21              | 7200             | M062256_M_-.55A--                                                                                                        | 45                              | 80            |
| 21              | 66.86  | 242              | 1.38              | 7200             | M062263_M_-.55A--                                                                                                        | 45                              | 80            |



## SELECTION TABLES

**0.55 kW**

4 POLE

**0.55 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 20              | 72.28   | 259              | 2.46              | 7200             | M063263_M_-.55A--                                                                        | 46                              | 80            |
| 18              | 79.60   | 286              | 2.21              | 7200             | M063271_M_-.55A--                                                                        | 46                              | 80            |
| 16              | 91.56   | 329              | 1.94              | 7200             | M063280_M_-.55A--                                                                        | 46                              | 80            |
| 14              | 99.54   | 357              | 1.78              | 7200             | M0632100_M_-.55A--                                                                       | 46                              | 80            |
| 12              | 119.50  | 429              | 1.48              | 7200             | M0632112_M_-.55A--                                                                       | 46                              | 80            |
| 10              | 143.39  | 514              | 1.24              | 7200             | M0632125_M_-.55A--                                                                       | 46                              | 80            |
| 8.8             | 161.57  | 580              | 1.10              | 7200             | M0632160_M_-.55A--                                                                       | 46                              | 80            |
| 7.6             | 187.83  | 674              | 0.95              | 7200             | M0632180_M_-.55A--                                                                       | 46                              | 80            |
| 6.7             | 213.20  | 765              | 0.83              | 7200             | M0632200_M_-.55A--                                                                       | 46                              | 80            |
| 24              | 58.95   | 212              | 3.61              | 10000            | M073256_M_-.55A--                                                                        | 56                              | 80            |
| 23              | 62.83   | 225              | 3.47              | 10000            | M073263_M_-.55A--                                                                        | 56                              | 80            |
| 19              | 74.47   | 267              | 3.10              | 10000            | M073271_M_-.55A--                                                                        | 56                              | 80            |
| 18              | 79.51   | 285              | 2.97              | 10000            | M073280_M_-.55A--                                                                        | 56                              | 80            |
| 14              | 98.66   | 354              | 2.49              | 10000            | M0732100_M_-.55A--                                                                       | 56                              | 80            |
| 12              | 116.34  | 417              | 2.12              | 10000            | M0732112_M_-.55A--                                                                       | 56                              | 80            |
| 11              | 127.39  | 457              | 1.94              | 10000            | M0732125_M_-.55A--                                                                       | 56                              | 80            |
| 9.1             | 156.12  | 560              | 1.58              | 10000            | M0732160_M_-.55A--                                                                       | 56                              | 80            |
| 8.2             | 174.01  | 624              | 1.42              | 10000            | M0732180_M_-.55A--                                                                       | 56                              | 80            |
| 7.3             | 195.15  | 700              | 1.27              | 10000            | M0732200_M_-.55A--                                                                       | 56                              | 80            |
| 6.2             | 229.00  | 805              | 1.10              | 10000            | M0742225_M_-.55A--                                                                       | 65                              | 80            |
| 5.5             | 259.68  | 913              | 0.97              | 10000            | M0742250_M_-.55A--                                                                       | 65                              | 80            |
| 5.0             | 286.42  | 1006             | 0.88              | 10000            | M0742280_M_-.55A--                                                                       | 65                              | 80            |
| 12              | 119.19  | 428              | 3.98              | 16200            | M0832112_M_-.55A--                                                                       | 92                              | 80            |
| 11              | 130.92  | 470              | 3.62              | 16200            | M0832125_M_-.55A--                                                                       | 92                              | 80            |
| 8.9             | 160.45  | 576              | 2.95              | 16200            | M0832160_M_-.55A--                                                                       | 92                              | 80            |
| 8.1             | 175.21  | 629              | 2.70              | 16200            | M0832180_M_-.55A--                                                                       | 92                              | 80            |
| 7.0             | 201.75  | 724              | 2.35              | 16200            | M0832200_M_-.55A--                                                                       | 92                              | 80            |
| 6.2             | 228.91  | 804              | 2.11              | 16200            | M0842225_M_-.55A--                                                                       | 113                             | 80            |
| 5.5             | 258.98  | 910              | 1.87              | 16200            | M0842250_M_-.55A--                                                                       | 113                             | 80            |
| 4.7             | 301.21  | 1058             | 1.61              | 16200            | M0842280_M_-.55A--                                                                       | 113                             | 80            |
| 4.2             | 337.01  | 1184             | 1.44              | 16200            | M0842300_M_-.55A--                                                                       | 113                             | 80            |
| 4.0             | 359.19  | 1262             | 1.35              | 16200            | M0842360_M_-.55A--                                                                       | 113                             | 80            |
| 3.3             | 425.69  | 1496             | 1.14              | 16200            | M0842400_M_-.55A--                                                                       | 113                             | 80            |
| 3.0             | 480.51  | 1689             | 1.01              | 16200            | M0842450_M_-.55A--                                                                       | 113                             | 80            |
| 2.8             | 513.04  | 1803             | 0.94              | 16200            | M0842500_M_-.55A--                                                                       | 113                             | 80            |
| 6.1             | 231.85  | 815              | 3.82              | 20500            | M0942225_M_-.55A--                                                                       | 168                             | 80            |
| 5.5             | 258.09  | 907              | 3.43              | 20500            | M0942250_M_-.55A--                                                                       | 168                             | 80            |
| 5.0             | 286.74  | 1008             | 3.09              | 20500            | M0942280_M_-.55A--                                                                       | 168                             | 80            |
| 4.7             | 300.18  | 1055             | 2.95              | 20500            | M0942300_M_-.55A--                                                                       | 168                             | 80            |
| 4.0             | 357.95  | 1258             | 2.47              | 20500            | M0942360_M_-.55A--                                                                       | 168                             | 80            |
| 3.6             | 397.69  | 1397             | 2.23              | 20500            | M0942400_M_-.55A--                                                                       | 168                             | 80            |
| 3.1             | 452.94  | 1592             | 1.95              | 20500            | M0942450_M_-.55A--                                                                       | 168                             | 80            |
| 2.8             | 503.22  | 1768             | 1.76              | 20500            | M0942500_M_-.55A--                                                                       | 168                             | 80            |
| 2.1             | 665.75  | 2339             | 1.33              | 20500            | M0942650_M_-.55A--                                                                       | 168                             | 80            |
| 1.9             | 736.35  | 2588             | 1.20              | 20500            | M0942730_M_-.55A--                                                                       | 168                             | 80            |
| 1.6             | 882.06  | 3100             | 1.00              | 20500            | M0942860_M_-.55A--                                                                       | 168                             | 80            |
| 1.4             | 1040.13 | 3655             | 0.85              | 20500            | M094210C_M_-.55A--                                                                       | 168                             | 80            |
| 0.52            | 2735.22 | 9612             | 1.01              | 55000            | M135227C_M_-.55A--                                                                       | 325                             | 80            |
| 0.45            | 3150.18 | 11070            | 0.88              | 55000            | M135232C_M_-.55A--                                                                       | 325                             | 80            |
| 0.52            | 2739.37 | 9626             | 1.35              | 68000            | M145227C_M_-.55A--                                                                       | 421                             | 80            |
| 0.43            | 3285.96 | 11547            | 1.13              | 68000            | M145232C_M_-.55A--                                                                       | 421                             | 80            |
| 0.39            | 3598.07 | 12644            | 1.03              | 68000            | M145236C_M_-.55A--                                                                       | 421                             | 80            |
| 0.36            | 3943.15 | 13856            | 0.94              | 68000            | M145240C_M_-.55A--                                                                       | 421                             | 80            |
| 248             | 3.75    | 21               | 3.29              | 1673             | M01223.6_M_-.55C--                                                                       | 28                              | 80            |
| 183             | 5.07    | 28               | 2.70              | 1720             | M01225.0_M_-.55C--                                                                       | 28                              | 80            |
| 161             | 5.76    | 32               | 2.46              | 1715             | M01225.6_M_-.55C--                                                                       | 28                              | 80            |
| 142             | 6.53    | 36               | 2.21              | 1720             | M01226.3_M_-.55C--                                                                       | 28                              | 80            |
| 111             | 8.35    | 46               | 1.85              | 1776             | M01228.0_M_-.55C--                                                                       | 28                              | 80            |
| 103             | 9.00    | 50               | 1.74              | 1817             | M01229.0_M_-.55C--                                                                       | 28                              | 80            |
| 82              | 11.36   | 63               | 1.43              | 1883             | M012211_M_-.55C--                                                                        | 28                              | 80            |
| 72              | 12.88   | 71               | 1.26              | 1878             | M012212_M_-.55C--                                                                        | 28                              | 80            |
| 63              | 14.71   | 81               | 1.11              | 1871             | M012214_M_-.55C--                                                                        | 28                              | 80            |
| 57              | 16.37   | 91               | 0.99              | 1899             | M012216_M_-.55C--                                                                        | 28                              | 80            |
| 52              | 18.05   | 100              | 0.90              | 1878             | M012218_M_-.55C--                                                                        | 28                              | 80            |
| 47              | 19.86   | 110              | 0.82              | 1859             | M012220_M_-.55C--                                                                        | 28                              | 80            |



## SELECTION TABLES

**0.55 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 148             | 6.30   | 35               | 3.96              | 4000             | M02226.3_M_-.55C--                                                                                                       | 30                              | 80            |
| 116             | 8.00   | 44               | 3.28              | 4000             | M02228.0_M_-.55C--                                                                                                       | 30                              | 80            |
| 102             | 9.09   | 50               | 2.98              | 4000             | M02229.0_M_-.55C--                                                                                                       | 30                              | 80            |
| 83              | 11.15  | 62               | 2.56              | 4000             | M022211_M_-.55C--                                                                                                        | 30                              | 80            |
| 75              | 12.37  | 68               | 2.34              | 4000             | M022212_M_-.55C--                                                                                                        | 30                              | 80            |
| 66              | 14.05  | 78               | 2.06              | 4000             | M022214_M_-.55C--                                                                                                        | 30                              | 80            |
| 58              | 15.97  | 88               | 1.81              | 4000             | M022216_M_-.55C--                                                                                                        | 30                              | 80            |
| 53              | 17.58  | 97               | 1.64              | 4000             | M022218_M_-.55C--                                                                                                        | 30                              | 80            |
| 46              | 20.23  | 112              | 1.43              | 4000             | M022220_M_-.55C--                                                                                                        | 30                              | 80            |
| 42              | 21.99  | 122              | 1.32              | 4000             | M022222_M_-.55C--                                                                                                        | 30                              | 80            |
| 35              | 26.40  | 146              | 1.10              | 4000             | M022228_M_-.55C--                                                                                                        | 30                              | 80            |
| 29              | 31.68  | 175              | 0.92              | 4000             | M022232_M_-.55C--                                                                                                        | 30                              | 80            |
| 26              | 35.69  | 198              | 0.82              | 4000             | M022236_M_-.55C--                                                                                                        | 30                              | 80            |
| 102             | 9.09   | 50               | 3.78              | 4000             | M03229.0_M_-.55C--                                                                                                       | 30                              | 80            |
| 83              | 11.15  | 62               | 3.29              | 4000             | M032211_M_-.55C--                                                                                                        | 30                              | 80            |
| 75              | 12.37  | 68               | 3.05              | 4000             | M032212_M_-.55C--                                                                                                        | 30                              | 80            |
| 66              | 14.05  | 78               | 2.70              | 4000             | M032214_M_-.55C--                                                                                                        | 30                              | 80            |
| 58              | 15.97  | 88               | 2.38              | 4000             | M032216_M_-.55C--                                                                                                        | 30                              | 80            |
| 53              | 17.58  | 97               | 2.16              | 3871             | M032218_M_-.55C--                                                                                                        | 30                              | 80            |
| 46              | 20.23  | 112              | 1.88              | 3549             | M032220_M_-.55C--                                                                                                        | 30                              | 80            |
| 42              | 21.99  | 122              | 1.73              | 3332             | M032222_M_-.55C--                                                                                                        | 30                              | 80            |
| 35              | 26.40  | 146              | 1.44              | 3153             | M032228_M_-.55C--                                                                                                        | 30                              | 80            |
| 29              | 31.68  | 175              | 1.20              | 3091             | M032232_M_-.55C--                                                                                                        | 30                              | 80            |
| 26              | 35.69  | 198              | 1.07              | 3053             | M032236_M_-.55C--                                                                                                        | 30                              | 80            |
| 22              | 41.49  | 230              | 0.90              | 3597             | M032245_M_-.55C--                                                                                                        | 30                              | 80            |
| 20              | 47.09  | 230              | 0.81              | 3597             | M032250_M_-.55C--                                                                                                        | 30                              | 80            |
| 57              | 16.31  | 90               | 3.77              | 7200             | M042216_M_-.55C--                                                                                                        | 40                              | 80            |
| 53              | 17.39  | 96               | 3.53              | 7200             | M042218_M_-.55C--                                                                                                        | 40                              | 80            |
| 45              | 20.61  | 114              | 2.98              | 7200             | M042220_M_-.55C--                                                                                                        | 40                              | 80            |
| 42              | 22.00  | 122              | 2.79              | 7200             | M042222_M_-.55C--                                                                                                        | 40                              | 80            |
| 34              | 27.30  | 151              | 2.25              | 7200             | M042228_M_-.55C--                                                                                                        | 40                              | 80            |
| 29              | 32.19  | 178              | 1.91              | 7200             | M042232_M_-.55C--                                                                                                        | 40                              | 80            |
| 26              | 35.25  | 195              | 1.74              | 7200             | M042236_M_-.55C--                                                                                                        | 40                              | 80            |
| 22              | 43.20  | 239              | 1.42              | 7200             | M042245_M_-.55C--                                                                                                        | 40                              | 80            |
| 19              | 48.15  | 267              | 1.28              | 7200             | M042250_M_-.55C--                                                                                                        | 40                              | 80            |
| 17              | 54.00  | 299              | 0.91              | 7200             | M042256_M_-.55C--                                                                                                        | 40                              | 80            |
| 16              | 58.38  | 320              | 1.06              | 7200             | M043256_M_-.55C--                                                                                                        | 41                              | 80            |
| 14              | 64.29  | 352              | 0.97              | 7200             | M043263_M_-.55C--                                                                                                        | 41                              | 80            |
| 13              | 73.95  | 405              | 0.84              | 7200             | M043271_M_-.55C--                                                                                                        | 41                              | 80            |
| 45              | 20.61  | 114              | 3.94              | 7200             | M052220_M_-.55C--                                                                                                        | 40                              | 80            |
| 42              | 22.00  | 122              | 3.70              | 7200             | M052222_M_-.55C--                                                                                                        | 40                              | 80            |
| 34              | 27.30  | 151              | 2.98              | 7200             | M052228_M_-.55C--                                                                                                        | 40                              | 80            |
| 29              | 32.19  | 178              | 2.53              | 7200             | M052232_M_-.55C--                                                                                                        | 40                              | 80            |
| 26              | 35.25  | 195              | 2.32              | 7200             | M052236_M_-.55C--                                                                                                        | 40                              | 80            |
| 22              | 43.20  | 239              | 1.84              | 7035             | M052245_M_-.55C--                                                                                                        | 40                              | 80            |
| 19              | 48.15  | 267              | 1.43              | 7029             | M052250_M_-.55C--                                                                                                        | 40                              | 80            |
| 17              | 54.00  | 299              | 0.91              | 7126             | M052256_M_-.55C--                                                                                                        | 40                              | 80            |
| 16              | 58.38  | 320              | 1.41              | 7200             | M053256_M_-.55C--                                                                                                        | 41                              | 80            |
| 14              | 64.29  | 352              | 1.28              | 7200             | M053263_M_-.55C--                                                                                                        | 41                              | 80            |
| 13              | 73.95  | 405              | 1.11              | 7200             | M053271_M_-.55C--                                                                                                        | 41                              | 80            |
| 12              | 80.40  | 440              | 1.02              | 7200             | M053280_M_-.55C--                                                                                                        | 41                              | 80            |
| 10              | 96.52  | 529              | 0.86              | 7200             | M0532100_M_-.55C--                                                                                                       | 41                              | 80            |
| 28              | 33.80  | 187              | 3.35              | 7200             | M062232_M_-.55C--                                                                                                        | 45                              | 80            |
| 23              | 39.86  | 221              | 2.84              | 7200             | M062236_M_-.55C--                                                                                                        | 45                              | 80            |
| 21              | 43.64  | 242              | 2.60              | 7200             | M062245_M_-.55C--                                                                                                        | 45                              | 80            |
| 17              | 53.49  | 296              | 1.85              | 7200             | M062250_M_-.55C--                                                                                                        | 45                              | 80            |
| 16              | 59.61  | 330              | 1.43              | 7200             | M062256_M_-.55C--                                                                                                        | 45                              | 80            |
| 14              | 66.86  | 370              | 0.90              | 7200             | M062263_M_-.55C--                                                                                                        | 45                              | 80            |
| 13              | 72.28  | 396              | 1.59              | 7200             | M063263_M_-.55C--                                                                                                        | 46                              | 80            |
| 12              | 79.60  | 436              | 1.44              | 7200             | M063271_M_-.55C--                                                                                                        | 46                              | 80            |
| 10              | 91.56  | 502              | 1.25              | 7200             | M063280_M_-.55C--                                                                                                        | 46                              | 80            |
| 9.3             | 99.54  | 545              | 1.15              | 7200             | M0632100_M_-.55C--                                                                                                       | 46                              | 80            |
| 7.8             | 119.50 | 655              | 0.96              | 7200             | M0632112_M_-.55C--                                                                                                       | 46                              | 80            |
| 6.5             | 143.39 | 786              | 0.80              | 7200             | M0632125_M_-.55C--                                                                                                       | 46                              | 80            |
| 22              | 42.21  | 234              | 3.75              | 7205             | M072245_M_-.55C--                                                                                                        | 55                              | 80            |
| 19              | 48.56  | 269              | 2.63              | 9287             | M072250_M_-.55C--                                                                                                        | 55                              | 80            |
| 17              | 53.96  | 299              | 2.02              | 10000            | M072256_M_-.55C--                                                                                                        | 55                              | 80            |



## SELECTION TABLES

**0.55 kW**

6 POLE

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 16              | 58.95   | 323              | 2.68              | 10000            | M073256_M_-.55C--                                                                        | 56                              | 80            |
| 15              | 62.83   | 344              | 2.53              | 10000            | M073263_M_-.55C--                                                                        | 56                              | 80            |
| 12              | 74.47   | 408              | 2.13              | 10000            | M073271_M_-.55C--                                                                        | 56                              | 80            |
| 12              | 79.51   | 436              | 2.00              | 10000            | M073280_M_-.55C--                                                                        | 56                              | 80            |
| 9.4             | 98.66   | 541              | 1.61              | 10000            | M0732100_M_-.55C--                                                                       | 56                              | 80            |
| 8.0             | 116.34  | 637              | 1.37              | 10000            | M0732112_M_-.55C--                                                                       | 56                              | 80            |
| 7.3             | 127.39  | 698              | 1.25              | 10000            | M0732125_M_-.55C--                                                                       | 56                              | 80            |
| 6.0             | 156.12  | 855              | 1.03              | 10000            | M0732160_M_-.55C--                                                                       | 56                              | 80            |
| 5.3             | 174.01  | 953              | 0.94              | 10000            | M0732180_M_-.55C--                                                                       | 56                              | 80            |
| 4.8             | 195.15  | 1069             | 0.84              | 10000            | M0732200_M_-.55C--                                                                       | 56                              | 80            |
| 11              | 84.31   | 462              | 3.68              | 16200            | M083280_M_-.55C--                                                                        | 92                              | 80            |
| 9.1             | 102.20  | 560              | 3.04              | 16200            | M0832100_M_-.55C--                                                                       | 92                              | 80            |
| 7.8             | 119.19  | 653              | 2.60              | 16200            | M0832112_M_-.55C--                                                                       | 92                              | 80            |
| 7.1             | 130.92  | 717              | 2.37              | 16200            | M0832125_M_-.55C--                                                                       | 92                              | 80            |
| 5.8             | 160.45  | 879              | 1.93              | 16200            | M0832160_M_-.55C--                                                                       | 92                              | 80            |
| 5.3             | 175.21  | 960              | 1.77              | 16200            | M0832180_M_-.55C--                                                                       | 92                              | 80            |
| 4.6             | 201.75  | 1105             | 1.54              | 16200            | M0832200_M_-.55C--                                                                       | 92                              | 80            |
| 4.1             | 228.91  | 1228             | 1.38              | 16200            | M0842225_M_-.55C--                                                                       | 113                             | 80            |
| 3.6             | 258.98  | 1390             | 1.22              | 16200            | M0842250_M_-.55C--                                                                       | 113                             | 80            |
| 3.1             | 301.21  | 1616             | 1.05              | 16200            | M0842280_M_-.55C--                                                                       | 113                             | 80            |
| 2.8             | 337.01  | 1808             | 0.94              | 16200            | M0842300_M_-.55C--                                                                       | 113                             | 80            |
| 5.9             | 157.10  | 861              | 3.61              | 20500            | M0932160_M_-.55C--                                                                       | 148                             | 80            |
| 5.4             | 171.55  | 940              | 3.31              | 20500            | M0932180_M_-.55C--                                                                       | 148                             | 80            |
| 4.7             | 197.54  | 1082             | 2.87              | 20500            | M0932200_M_-.55C--                                                                       | 148                             | 80            |
| 4.0             | 231.85  | 1244             | 2.50              | 20500            | M0942225_M_-.55C--                                                                       | 168                             | 80            |
| 3.6             | 258.09  | 1385             | 2.25              | 20500            | M0942250_M_-.55C--                                                                       | 168                             | 80            |
| 3.2             | 286.74  | 1538             | 2.02              | 20500            | M0942280_M_-.55C--                                                                       | 168                             | 80            |
| 3.1             | 300.18  | 1611             | 1.93              | 20500            | M0942300_M_-.55C--                                                                       | 168                             | 80            |
| 2.6             | 357.95  | 1921             | 1.62              | 20500            | M0942360_M_-.55C--                                                                       | 168                             | 80            |
| 2.3             | 397.69  | 2134             | 1.46              | 20500            | M0942400_M_-.55C--                                                                       | 168                             | 80            |
| 2.1             | 452.94  | 2430             | 1.28              | 20500            | M0942450_M_-.55C--                                                                       | 168                             | 80            |
| 1.8             | 503.22  | 2700             | 1.15              | 20500            | M0942500_M_-.55C--                                                                       | 168                             | 80            |
| 1.4             | 665.75  | 3572             | 0.87              | 20190            | M0942650_M_-.55C--                                                                       | 168                             | 80            |
| 3.7             | 254.58  | 1366             | 3.50              | 30000            | M1042250_M_-.55C--                                                                       | 220                             | 80            |
| 3.3             | 278.36  | 1494             | 3.20              | 30000            | M1042280_M_-.55C--                                                                       | 220                             | 80            |
| 3.0             | 309.32  | 1660             | 2.88              | 30000            | M1042300_M_-.55C--                                                                       | 220                             | 80            |
| 2.5             | 365.56  | 1961             | 2.44              | 30000            | M1042360_M_-.55C--                                                                       | 220                             | 80            |
| 2.3             | 398.71  | 2139             | 2.23              | 30000            | M1042400_M_-.55C--                                                                       | 220                             | 80            |
| 2.0             | 457.22  | 2453             | 1.95              | 30000            | M1042450_M_-.55C--                                                                       | 220                             | 80            |
| 1.9             | 500.94  | 2688             | 1.78              | 30000            | M1042500_M_-.55C--                                                                       | 220                             | 80            |
| 1.5             | 635.68  | 3411             | 1.40              | 30000            | M1042650_M_-.55C--                                                                       | 220                             | 80            |
| 1.3             | 727.99  | 3906             | 1.22              | 30000            | M1042730_M_-.55C--                                                                       | 220                             | 80            |
| 1.1             | 844.72  | 4532             | 1.05              | 30000            | M1042860_M_-.55C--                                                                       | 220                             | 80            |
| 0.94            | 987.84  | 5300             | 0.90              | 30000            | M104210C_M_-.55C--                                                                       | 220                             | 80            |
| 0.84            | 1107.30 | 5941             | 0.80              | 30000            | M104211C_M_-.55C--                                                                       | 220                             | 80            |
| 2               | 482.96  | 2591             | 3.74              | 55000            | M1342450_M_-.55C--                                                                       | 324                             | 80            |
| 2               | 546.05  | 2930             | 3.31              | 55000            | M1342500_M_-.55C--                                                                       | 324                             | 80            |
| 1.4             | 664.21  | 3564             | 2.72              | 55000            | M1342650_M_-.55C--                                                                       | 324                             | 80            |
| 1.3             | 729.13  | 3912             | 2.48              | 55000            | M1342730_M_-.55C--                                                                       | 324                             | 80            |
| 1.1             | 860.03  | 4614             | 2.10              | 55000            | M1342860_M_-.55C--                                                                       | 324                             | 80            |
| 0.93            | 997.11  | 5350             | 1.81              | 55000            | M134210C_M_-.55C--                                                                       | 324                             | 80            |
| 0.87            | 1067.83 | 5729             | 1.69              | 55000            | M134211C_M_-.55C--                                                                       | 324                             | 80            |
| 0.71            | 1302.41 | 6988             | 1.39              | 55000            | M134213C_M_-.55C--                                                                       | 324                             | 80            |
| 0.61            | 1521.33 | 8163             | 1.19              | 55000            | M134215C_M_-.55C--                                                                       | 324                             | 80            |
| 0.52            | 1798.16 | 9648             | 1.01              | 55000            | M134218C_M_-.55C--                                                                       | 324                             | 80            |
| 0.52            | 1798.16 | 9648             | 1.01              | 55000            | M134220C_M_-.55C--                                                                       | 324                             | 80            |
| 1.2             | 754.34  | 4047             | 3.21              | 68000            | M1442730_M_-.55C--                                                                       | 420                             | 80            |
| 1.1             | 852.89  | 4576             | 2.84              | 68000            | M1442860_M_-.55C--                                                                       | 420                             | 80            |
| 0.93            | 997.48  | 5352             | 2.43              | 68000            | M144210C_M_-.55C--                                                                       | 420                             | 80            |
| 0.80            | 1156.47 | 6205             | 2.10              | 68000            | M144211C_M_-.55C--                                                                       | 420                             | 80            |
| 0.72            | 1291.58 | 6930             | 1.88              | 68000            | M144213C_M_-.55C--                                                                       | 420                             | 80            |
| 0.62            | 1510.56 | 8105             | 1.60              | 68000            | M144215C_M_-.55C--                                                                       | 420                             | 80            |
| 0.47            | 1981.35 | 10631            | 1.22              | 68000            | M144220C_M_-.55C--                                                                       | 420                             | 80            |
| 0.38            | 2445.42 | 13121            | 0.99              | 68000            | M144224C_M_-.55C--                                                                       | 420                             | 80            |
| 0.34            | 2717.13 | 14579            | 0.89              | 68000            | M144227C_M_-.55C--                                                                       | 420                             | 80            |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**0.75kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 379             | 3.75   | 19               | 3.24              | 1596             | M01223.6_M_-.75A--                                                                                                       | 28                              | 80            |
| 280             | 5.07   | 25               | 2.72              | 1665             | M01225.0_M_-.75A--                                                                                                       | 28                              | 80            |
| 247             | 5.76   | 28               | 2.54              | 1694             | M01225.6_M_-.75A--                                                                                                       | 28                              | 80            |
| 217             | 6.53   | 32               | 2.34              | 1633             | M01226.3_M_-.75A--                                                                                                       | 28                              | 80            |
| 170             | 8.35   | 41               | 1.94              | 1616             | M01228.0_M_-.75A--                                                                                                       | 28                              | 80            |
| 158             | 9.00   | 44               | 1.82              | 1612             | M01229.0_M_-.75A--                                                                                                       | 28                              | 80            |
| 125             | 11.36  | 56               | 1.51              | 1664             | M012211_M_-.75A--                                                                                                        | 28                              | 80            |
| 110             | 12.88  | 64               | 1.38              | 1741             | M012212_M_-.75A--                                                                                                        | 28                              | 80            |
| 97              | 14.71  | 73               | 1.25              | 1814             | M012214_M_-.75A--                                                                                                        | 28                              | 80            |
| 87              | 16.37  | 81               | 1.12              | 1863             | M012216_M_-.75A--                                                                                                        | 28                              | 80            |
| 79              | 18.05  | 89               | 1.02              | 1900             | M012218_M_-.75A--                                                                                                        | 28                              | 80            |
| 72              | 19.86  | 98               | 0.93              | 1885             | M012220_M_-.75A--                                                                                                        | 28                              | 80            |
| 178             | 8.00   | 40               | 3.47              | 4000             | M02228.0_M_-.75A--                                                                                                       | 30                              | 80            |
| 156             | 9.09   | 45               | 3.14              | 4000             | M02229.0_M_-.75A--                                                                                                       | 30                              | 80            |
| 127             | 11.15  | 55               | 2.65              | 4000             | M022211_M_-.75A--                                                                                                        | 30                              | 80            |
| 115             | 12.37  | 61               | 2.45              | 4000             | M022212_M_-.75A--                                                                                                        | 30                              | 80            |
| 101             | 14.05  | 69               | 2.22              | 4000             | M022214_M_-.75A--                                                                                                        | 30                              | 80            |
| 89              | 15.97  | 79               | 2.04              | 4000             | M022216_M_-.75A--                                                                                                        | 30                              | 80            |
| 81              | 17.58  | 87               | 1.86              | 4000             | M022218_M_-.75A--                                                                                                        | 30                              | 80            |
| 70              | 20.23  | 100              | 1.61              | 4000             | M022220_M_-.75A--                                                                                                        | 30                              | 80            |
| 65              | 21.99  | 109              | 1.48              | 4000             | M022222_M_-.75A--                                                                                                        | 30                              | 80            |
| 54              | 26.40  | 130              | 1.24              | 4000             | M022228_M_-.75A--                                                                                                        | 30                              | 80            |
| 45              | 31.68  | 157              | 1.04              | 4000             | M022232_M_-.75A--                                                                                                        | 30                              | 80            |
| 40              | 35.69  | 176              | 0.92              | 4000             | M022236_M_-.75A--                                                                                                        | 30                              | 80            |
| 156             | 9.09   | 45               | 3.76              | 4000             | M03229.0_M_-.75A--                                                                                                       | 30                              | 80            |
| 127             | 11.15  | 55               | 3.28              | 4000             | M032211_M_-.75A--                                                                                                        | 30                              | 80            |
| 115             | 12.37  | 61               | 3.07              | 4000             | M032212_M_-.75A--                                                                                                        | 30                              | 80            |
| 101             | 14.05  | 69               | 2.81              | 4000             | M032214_M_-.75A--                                                                                                        | 30                              | 80            |
| 89              | 15.97  | 79               | 2.63              | 3957             | M032216_M_-.75A--                                                                                                        | 30                              | 80            |
| 81              | 17.58  | 87               | 2.42              | 3898             | M032218_M_-.75A--                                                                                                        | 30                              | 80            |
| 70              | 20.23  | 100              | 2.11              | 3689             | M032220_M_-.75A--                                                                                                        | 30                              | 80            |
| 65              | 21.99  | 109              | 1.94              | 3603             | M032222_M_-.75A--                                                                                                        | 30                              | 80            |
| 54              | 26.40  | 130              | 1.63              | 3366             | M032228_M_-.75A--                                                                                                        | 30                              | 80            |
| 45              | 31.68  | 157              | 1.35              | 3182             | M032232_M_-.75A--                                                                                                        | 30                              | 80            |
| 40              | 35.69  | 176              | 1.20              | 3122             | M032236_M_-.75A--                                                                                                        | 30                              | 80            |
| 34              | 41.49  | 205              | 0.98              | 3630             | M032245_M_-.75A--                                                                                                        | 30                              | 80            |
| 30              | 47.09  | 233              | 0.88              | 3944             | M032250_M_-.75A--                                                                                                        | 30                              | 80            |
| 82              | 17.39  | 86               | 3.96              | 7200             | M042218_M_-.75A--                                                                                                        | 40                              | 80            |
| 69              | 20.61  | 102              | 3.34              | 7200             | M042220_M_-.75A--                                                                                                        | 40                              | 80            |
| 65              | 22.00  | 109              | 3.13              | 7200             | M042222_M_-.75A--                                                                                                        | 40                              | 80            |
| 52              | 27.30  | 135              | 2.52              | 7200             | M042228_M_-.75A--                                                                                                        | 40                              | 80            |
| 44              | 32.19  | 159              | 2.15              | 7200             | M042232_M_-.75A--                                                                                                        | 40                              | 80            |
| 40              | 35.25  | 174              | 1.96              | 7200             | M042236_M_-.75A--                                                                                                        | 40                              | 80            |
| 33              | 43.20  | 214              | 1.60              | 7200             | M042245_M_-.75A--                                                                                                        | 40                              | 80            |
| 29              | 48.15  | 238              | 1.44              | 7200             | M042250_M_-.75A--                                                                                                        | 40                              | 80            |
| 26              | 54.00  | 267              | 1.03              | 7200             | M042256_M_-.75A--                                                                                                        | 40                              | 80            |
| 24              | 58.38  | 286              | 1.20              | 7200             | M043256_M_-.75A--                                                                                                        | 41                              | 80            |
| 22              | 64.29  | 315              | 1.09              | 7200             | M043263_M_-.75A--                                                                                                        | 41                              | 80            |
| 19              | 73.95  | 362              | 0.95              | 7200             | M043271_M_-.75A--                                                                                                        | 41                              | 80            |
| 18              | 80.40  | 393              | 0.87              | 7200             | M043280_M_-.75A--                                                                                                        | 41                              | 80            |
| 52              | 27.30  | 135              | 3.36              | 7200             | M052228_M_-.75A--                                                                                                        | 40                              | 80            |
| 44              | 32.19  | 159              | 2.85              | 7200             | M052232_M_-.75A--                                                                                                        | 40                              | 80            |
| 40              | 35.25  | 174              | 2.62              | 7200             | M052236_M_-.75A--                                                                                                        | 40                              | 80            |
| 33              | 43.20  | 214              | 1.99              | 7097             | M052245_M_-.75A--                                                                                                        | 40                              | 80            |
| 29              | 48.15  | 238              | 1.60              | 7117             | M052250_M_-.75A--                                                                                                        | 40                              | 80            |
| 26              | 54.00  | 267              | 1.03              | 7200             | M052256_M_-.75A--                                                                                                        | 40                              | 80            |
| 24              | 58.38  | 286              | 1.59              | 7200             | M053256_M_-.75A--                                                                                                        | 41                              | 80            |
| 22              | 64.29  | 315              | 1.44              | 7200             | M053263_M_-.75A--                                                                                                        | 41                              | 80            |
| 19              | 73.95  | 362              | 1.26              | 7200             | M053271_M_-.75A--                                                                                                        | 41                              | 80            |
| 18              | 80.40  | 393              | 1.16              | 7200             | M053280_M_-.75A--                                                                                                        | 41                              | 80            |
| 15              | 96.52  | 472              | 0.97              | 7200             | M0532100_M_-.75A--                                                                                                       | 41                              | 80            |
| 42              | 33.80  | 167              | 3.77              | 7200             | M062232_M_-.75A--                                                                                                        | 45                              | 80            |
| 36              | 39.86  | 197              | 3.21              | 7200             | M062236_M_-.75A--                                                                                                        | 45                              | 80            |
| 33              | 43.64  | 216              | 2.93              | 7200             | M062245_M_-.75A--                                                                                                        | 45                              | 80            |
| 27              | 53.49  | 264              | 2.02              | 7200             | M062250_M_-.75A--                                                                                                        | 45                              | 80            |
| 24              | 59.61  | 295              | 1.61              | 7200             | M062256_M_-.75A--                                                                                                        | 45                              | 80            |
| 21              | 66.86  | 330              | 1.01              | 7200             | M062263_M_-.75A--                                                                                                        | 45                              | 80            |
| 20              | 72.28  | 354              | 1.80              | 7200             | M063263_M_-.75A--                                                                                                        | 46                              | 80            |
| 18              | 79.60  | 389              | 1.61              | 7200             | M063271_M_-.75A--                                                                                                        | 46                              | 80            |
| 16              | 91.56  | 448              | 1.42              | 7200             | M063280_M_-.75A--                                                                                                        | 46                              | 80            |
| 14              | 99.54  | 487              | 1.30              | 7200             | M0632100_M_-.75A--                                                                                                       | 46                              | 80            |
| 12              | 119.50 | 585              | 1.08              | 7200             | M0632112_M_-.75A--                                                                                                       | 46                              | 80            |
| 10              | 143.39 | 702              | 0.91              | 7200             | M0632125_M_-.75A--                                                                                                       | 46                              | 80            |



## SELECTION TABLES

**0.75 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 29              | 48.56   | 240              | 2.97              | 9694             | M072250_M_-.75A--                                                                                                        | 55                              | 80            |
| 26              | 53.96   | 267              | 2.28              | 10000            | M072256_M_-.75A--                                                                                                        | 55                              | 80            |
| 24              | 58.95   | 288              | 2.64              | 9458             | M073256_M_-.75A--                                                                                                        | 56                              | 80            |
| 23              | 62.83   | 307              | 2.54              | 10000            | M073263_M_-.75A--                                                                                                        | 56                              | 80            |
| 19              | 74.47   | 364              | 2.26              | 10000            | M073271_M_-.75A--                                                                                                        | 56                              | 80            |
| 18              | 79.51   | 389              | 2.17              | 10000            | M073280_M_-.75A--                                                                                                        | 56                              | 80            |
| 14              | 98.66   | 483              | 1.82              | 10000            | M0732100_M_-.75A--                                                                                                       | 56                              | 80            |
| 12              | 116.34  | 569              | 1.55              | 10000            | M0732112_M_-.75A--                                                                                                       | 56                              | 80            |
| 11              | 127.39  | 623              | 1.42              | 10000            | M0732125_M_-.75A--                                                                                                       | 56                              | 80            |
| 9.1             | 156.12  | 764              | 1.16              | 10000            | M0732160_M_-.75A--                                                                                                       | 56                              | 80            |
| 8.2             | 174.01  | 851              | 1.04              | 10000            | M0732180_M_-.75A--                                                                                                       | 56                              | 80            |
| 7.3             | 195.15  | 955              | 0.93              | 10000            | M0732200_M_-.75A--                                                                                                       | 56                              | 80            |
| 13.9            | 102.20  | 500              | 3.40              | 16200            | M0832100_M_-.75A--                                                                                                       | 92                              | 80            |
| 11.9            | 119.19  | 583              | 2.92              | 16200            | M0832112_M_-.75A--                                                                                                       | 92                              | 80            |
| 10.8            | 130.92  | 641              | 2.65              | 16200            | M0832125_M_-.75A--                                                                                                       | 92                              | 80            |
| 8.9             | 160.45  | 785              | 2.17              | 16200            | M0832160_M_-.75A--                                                                                                       | 92                              | 80            |
| 8.1             | 175.21  | 857              | 1.98              | 16200            | M0832180_M_-.75A--                                                                                                       | 92                              | 80            |
| 7.0             | 201.75  | 987              | 1.72              | 16200            | M0832200_M_-.75A--                                                                                                       | 92                              | 80            |
| 6.2             | 228.91  | 1097             | 1.55              | 16200            | M0842225_M_-.75A--                                                                                                       | 113                             | 80            |
| 5.5             | 258.98  | 1241             | 1.37              | 16200            | M0842250_M_-.75A--                                                                                                       | 113                             | 80            |
| 4.7             | 301.21  | 1443             | 1.18              | 16200            | M0842280_M_-.75A--                                                                                                       | 113                             | 80            |
| 4.2             | 337.01  | 1615             | 1.05              | 16200            | M0842300_M_-.75A--                                                                                                       | 113                             | 80            |
| 4.0             | 359.19  | 1721             | 0.99              | 16200            | M0842360_M_-.75A--                                                                                                       | 113                             | 80            |
| 8.3             | 171.55  | 839              | 3.71              | 20500            | M0932180_M_-.75A--                                                                                                       | 148                             | 80            |
| 7.2             | 197.54  | 967              | 3.22              | 20500            | M0932200_M_-.75A--                                                                                                       | 148                             | 80            |
| 6.1             | 231.85  | 1111             | 2.80              | 20500            | M0942225_M_-.75A--                                                                                                       | 168                             | 80            |
| 5.5             | 258.09  | 1237             | 2.51              | 20500            | M0942250_M_-.75A--                                                                                                       | 168                             | 80            |
| 5.0             | 286.74  | 1374             | 2.26              | 20500            | M0942280_M_-.75A--                                                                                                       | 168                             | 80            |
| 4.7             | 300.18  | 1438             | 2.16              | 20500            | M0942300_M_-.75A--                                                                                                       | 168                             | 80            |
| 4.0             | 357.95  | 1715             | 1.81              | 20500            | M0942360_M_-.75A--                                                                                                       | 168                             | 80            |
| 3.6             | 397.69  | 1906             | 1.63              | 20500            | M0942400_M_-.75A--                                                                                                       | 168                             | 80            |
| 3.1             | 452.94  | 2170             | 1.43              | 20500            | M0942450_M_-.75A--                                                                                                       | 168                             | 80            |
| 2.8             | 503.22  | 2411             | 1.29              | 20500            | M0942500_M_-.75A--                                                                                                       | 168                             | 80            |
| 2.1             | 665.75  | 3190             | 0.97              | 20500            | M0942650_M_-.75A--                                                                                                       | 168                             | 80            |
| 1.9             | 736.35  | 3528             | 0.88              | 20500            | M0942730_M_-.75A--                                                                                                       | 168                             | 80            |
| 5.6             | 254.58  | 1220             | 3.92              | 30000            | M1042250_M_-.75A--                                                                                                       | 220                             | 80            |
| 5.1             | 278.36  | 1334             | 3.58              | 30000            | M1042280_M_-.75A--                                                                                                       | 220                             | 80            |
| 4.6             | 309.32  | 1482             | 3.22              | 30000            | M1042300_M_-.75A--                                                                                                       | 220                             | 80            |
| 3.9             | 365.56  | 1752             | 2.73              | 30000            | M1042360_M_-.75A--                                                                                                       | 220                             | 80            |
| 3.6             | 398.71  | 1911             | 2.50              | 30000            | M1042400_M_-.75A--                                                                                                       | 220                             | 80            |
| 3.1             | 457.22  | 2191             | 2.18              | 30000            | M1042450_M_-.75A--                                                                                                       | 220                             | 80            |
| 2.8             | 500.94  | 2400             | 1.99              | 30000            | M1042500_M_-.75A--                                                                                                       | 220                             | 80            |
| 2.2             | 635.68  | 3046             | 1.57              | 30000            | M1042650_M_-.75A--                                                                                                       | 220                             | 80            |
| 2.0             | 727.99  | 3488             | 1.37              | 30000            | M1042730_M_-.75A--                                                                                                       | 220                             | 80            |
| 1.7             | 844.72  | 4048             | 1.18              | 30000            | M1042860_M_-.75A--                                                                                                       | 220                             | 80            |
| 1.4             | 987.84  | 4734             | 1.01              | 30000            | M104210C_M_-.75A--                                                                                                       | 220                             | 80            |
| 1.3             | 1107.30 | 5306             | 0.90              | 30000            | M104211C_M_-.75A--                                                                                                       | 220                             | 80            |
| 2.6             | 546.05  | 2617             | 3.71              | 55000            | M1342500_M_-.75A--                                                                                                       | 324                             | 80            |
| 2.1             | 664.21  | 3183             | 3.05              | 55000            | M1342650_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.9             | 729.13  | 3494             | 2.78              | 55000            | M1342730_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.7             | 860.03  | 4121             | 2.35              | 55000            | M1342860_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.4             | 997.11  | 4778             | 2.03              | 55000            | M134210C_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.3             | 1067.83 | 5117             | 1.90              | 55000            | M134211C_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.1             | 1302.41 | 6241             | 1.55              | 55000            | M134213C_M_-.75A--                                                                                                       | 324                             | 80            |
| 0.93            | 1521.33 | 7290             | 1.33              | 55000            | M134215C_M_-.75A--                                                                                                       | 324                             | 80            |
| 0.79            | 1798.16 | 8616             | 1.13              | 55000            | M134218C_M_-.75A--                                                                                                       | 324                             | 80            |
| 0.79            | 1798.16 | 8616             | 1.13              | 55000            | M134220C_M_-.75A--                                                                                                       | 324                             | 80            |
| 1.9             | 754.34  | 3615             | 3.60              | 68000            | M1442730_M_-.75A--                                                                                                       | 420                             | 80            |
| 1.7             | 852.89  | 4087             | 3.18              | 68000            | M1442860_M_-.75A--                                                                                                       | 420                             | 80            |
| 1.4             | 997.48  | 4780             | 2.72              | 68000            | M144210C_M_-.75A--                                                                                                       | 420                             | 80            |
| 1.2             | 1156.47 | 5542             | 2.35              | 68000            | M144211C_M_-.75A--                                                                                                       | 420                             | 80            |
| 1.1             | 1291.58 | 6189             | 2.10              | 68000            | M144213C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.94            | 1510.56 | 7238             | 1.80              | 68000            | M144215C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.78            | 1812.67 | 8686             | 1.50              | 68000            | M144218C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.72            | 1981.35 | 9494             | 1.37              | 68000            | M144220C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.58            | 2445.42 | 11718            | 1.11              | 68000            | M144224C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.52            | 2717.13 | 13020            | 1.00              | 68000            | M144227C_M_-.75A--                                                                                                       | 420                             | 80            |
| 0.52            | 2739.37 | 13127            | 0.99              | 68000            | M145227C_M_-.75A--                                                                                                       | 421                             | 80            |
| 0.43            | 3285.96 | 15746            | 0.83              | 68000            | M145232C_M_-.75A--                                                                                                       | 421                             | 80            |



## SELECTION TABLES

**0.75 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 248             | 3.75  | 28               | 2.41              | 1610             | M01223.6_M_-.75C--                                                                                                       | 36                              | 90S           |
| 183             | 5.07  | 38               | 1.99              | 1636             | M01225.0_M_-.75C--                                                                                                       | 36                              | 90S           |
| 161             | 5.76  | 43               | 1.80              | 1630             | M01225.6_M_-.75C--                                                                                                       | 36                              | 90S           |
| 142             | 6.53  | 49               | 1.62              | 1636             | M01226.3_M_-.75C--                                                                                                       | 36                              | 90S           |
| 111             | 8.35  | 63               | 1.35              | 1716             | M01228.0_M_-.75C--                                                                                                       | 36                              | 90S           |
| 103             | 9.00  | 68               | 1.28              | 1757             | M01229.0_M_-.75C--                                                                                                       | 36                              | 90S           |
| 82              | 11.36 | 86               | 1.05              | 1820             | M012211_M_-.75C--                                                                                                        | 36                              | 90S           |
| 72              | 12.88 | 97               | 0.93              | 1815             | M012212_M_-.75C--                                                                                                        | 36                              | 90S           |
| 63              | 14.71 | 111              | 0.81              | 1808             | M012214_M_-.75C--                                                                                                        | 36                              | 90S           |
| 185             | 5.03  | 38               | 3.45              | 4000             | M02225.0_M_-.75C--                                                                                                       | 38                              | 90S           |
| 168             | 5.55  | 42               | 3.20              | 4000             | M02225.6_M_-.75C--                                                                                                       | 38                              | 90S           |
| 148             | 6.30  | 48               | 2.90              | 4000             | M02226.3_M_-.75C--                                                                                                       | 38                              | 90S           |
| 116             | 8.00  | 60               | 2.40              | 4000             | M02228.0_M_-.75C--                                                                                                       | 38                              | 90S           |
| 102             | 9.09  | 69               | 2.19              | 4000             | M02229.0_M_-.75C--                                                                                                       | 38                              | 90S           |
| 83              | 11.15 | 84               | 1.88              | 4000             | M022211_M_-.75C--                                                                                                        | 38                              | 90S           |
| 75              | 12.37 | 93               | 1.71              | 4000             | M022212_M_-.75C--                                                                                                        | 38                              | 90S           |
| 66              | 14.05 | 106              | 1.51              | 4000             | M022214_M_-.75C--                                                                                                        | 38                              | 90S           |
| 58              | 15.97 | 121              | 1.33              | 4000             | M022216_M_-.75C--                                                                                                        | 38                              | 90S           |
| 53              | 17.58 | 133              | 1.21              | 4000             | M022218_M_-.75C--                                                                                                        | 38                              | 90S           |
| 46              | 20.23 | 153              | 1.05              | 4000             | M022220_M_-.75C--                                                                                                        | 38                              | 90S           |
| 42              | 21.99 | 166              | 0.97              | 4000             | M022222_M_-.75C--                                                                                                        | 38                              | 90S           |
| 35              | 26.40 | 199              | 0.81              | 4000             | M022228_M_-.75C--                                                                                                        | 38                              | 90S           |
| 168             | 5.55  | 42               | 3.80              | 2872             | M03225.6_M_-.75C--                                                                                                       | 38                              | 90S           |
| 148             | 6.30  | 48               | 3.51              | 2790             | M03226.3_M_-.75C--                                                                                                       | 38                              | 90S           |
| 116             | 8.00  | 60               | 3.02              | 2699             | M03228.0_M_-.75C--                                                                                                       | 38                              | 90S           |
| 102             | 9.09  | 69               | 2.77              | 2897             | M03229.0_M_-.75C--                                                                                                       | 38                              | 90S           |
| 83              | 11.15 | 84               | 2.41              | 3206             | M032211_M_-.75C--                                                                                                        | 38                              | 90S           |
| 75              | 12.37 | 93               | 2.24              | 3376             | M032212_M_-.75C--                                                                                                        | 38                              | 90S           |
| 66              | 14.05 | 106              | 1.98              | 3568             | M032214_M_-.75C--                                                                                                        | 38                              | 90S           |
| 58              | 15.97 | 121              | 1.74              | 3487             | M032216_M_-.75C--                                                                                                        | 38                              | 90S           |
| 53              | 17.58 | 133              | 1.58              | 3345             | M032218_M_-.75C--                                                                                                        | 38                              | 90S           |
| 46              | 20.23 | 153              | 1.38              | 3306             | M032220_M_-.75C--                                                                                                        | 38                              | 90S           |
| 42              | 21.99 | 166              | 1.27              | 3109             | M032222_M_-.75C--                                                                                                        | 38                              | 90S           |
| 35              | 26.40 | 199              | 1.05              | 3048             | M032228_M_-.75C--                                                                                                        | 38                              | 90S           |
| 29              | 31.68 | 239              | 0.88              | 2987             | M032232_M_-.75C--                                                                                                        | 38                              | 90S           |
| 74              | 12.54 | 95               | 3.57              | 7200             | M042212_M_-.75C--                                                                                                        | 49                              | 90S           |
| 64              | 14.58 | 110              | 3.09              | 7200             | M042214_M_-.75C--                                                                                                        | 49                              | 90S           |
| 57              | 16.31 | 123              | 2.76              | 7200             | M042216_M_-.75C--                                                                                                        | 49                              | 90S           |
| 53              | 17.39 | 131              | 2.59              | 7200             | M042218_M_-.75C--                                                                                                        | 49                              | 90S           |
| 45              | 20.61 | 156              | 2.19              | 7200             | M042220_M_-.75C--                                                                                                        | 49                              | 90S           |
| 42              | 22.00 | 166              | 2.05              | 7200             | M042222_M_-.75C--                                                                                                        | 49                              | 90S           |
| 34              | 27.30 | 206              | 1.65              | 7200             | M042228_M_-.75C--                                                                                                        | 49                              | 90S           |
| 29              | 32.19 | 243              | 1.40              | 7200             | M042232_M_-.75C--                                                                                                        | 49                              | 90S           |
| 26              | 35.25 | 266              | 1.28              | 7200             | M042236_M_-.75C--                                                                                                        | 49                              | 90S           |
| 22              | 43.20 | 326              | 1.04              | 7163             | M042245_M_-.75C--                                                                                                        | 49                              | 90S           |
| 19              | 48.15 | 363              | 0.94              | 7078             | M042250_M_-.75C--                                                                                                        | 49                              | 90S           |
| 57              | 16.31 | 123              | 3.66              | 7200             | M052216_M_-.75C--                                                                                                        | 49                              | 90S           |
| 53              | 17.39 | 131              | 3.43              | 7200             | M052218_M_-.75C--                                                                                                        | 49                              | 90S           |
| 45              | 20.61 | 156              | 2.89              | 7200             | M052220_M_-.75C--                                                                                                        | 49                              | 90S           |
| 42              | 22.00 | 166              | 2.71              | 7200             | M052222_M_-.75C--                                                                                                        | 49                              | 90S           |
| 34              | 27.30 | 206              | 2.18              | 7200             | M052228_M_-.75C--                                                                                                        | 49                              | 90S           |
| 29              | 32.19 | 243              | 1.85              | 7200             | M052232_M_-.75C--                                                                                                        | 49                              | 90S           |
| 26              | 35.25 | 266              | 1.70              | 7198             | M052236_M_-.75C--                                                                                                        | 49                              | 90S           |
| 22              | 43.20 | 326              | 1.35              | 6799             | M052245_M_-.75C--                                                                                                        | 49                              | 90S           |
| 19              | 48.15 | 363              | 1.05              | 6793             | M052250_M_-.75C--                                                                                                        | 49                              | 90S           |
| 16              | 58.38 | 436              | 1.03              | 7200             | M053256_M_-.75C--                                                                                                        | 50                              | 90S           |
| 14              | 64.29 | 480              | 0.94              | 7200             | M053263_M_-.75C--                                                                                                        | 50                              | 90S           |
| 13              | 73.95 | 552              | 0.82              | 7200             | M053263_M_-.75C--                                                                                                        | 50                              | 90S           |
| 36              | 25.51 | 193              | 3.25              | 7200             | M062222_M_-.75C--                                                                                                        | 54                              | 90S           |
| 34              | 27.24 | 206              | 3.04              | 7200             | M062228_M_-.75C--                                                                                                        | 54                              | 90S           |
| 28              | 33.80 | 255              | 2.45              | 7200             | M062232_M_-.75C--                                                                                                        | 54                              | 90S           |
| 23              | 39.86 | 301              | 2.08              | 7200             | M062236_M_-.75C--                                                                                                        | 54                              | 90S           |
| 21              | 43.64 | 329              | 1.90              | 7200             | M062245_M_-.75C--                                                                                                        | 54                              | 90S           |
| 17              | 53.49 | 404              | 1.35              | 7200             | M062250_M_-.75C--                                                                                                        | 54                              | 90S           |
| 16              | 59.61 | 450              | 1.05              | 7200             | M062256_M_-.75C--                                                                                                        | 54                              | 90S           |
| 13              | 72.28 | 540              | 1.16              | 7200             | M063263_M_-.75C--                                                                                                        | 55                              | 90S           |
| 12              | 79.60 | 595              | 1.05              | 7200             | M063271_M_-.75C--                                                                                                        | 55                              | 90S           |
| 10              | 91.56 | 684              | 0.92              | 7200             | M063280_M_-.75C--                                                                                                        | 55                              | 90S           |
| 9.3             | 99.54 | 744              | 0.84              | 7200             | M0632100_M_-.75C--                                                                                                       | 55                              | 90S           |



## SELECTION TABLES

**0.75 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 29              | 32.12   | 242              | 3.59              | 7838             | M072232_M_-.75C--                                                                        | 63                              | 90S           |
| 26              | 35.17   | 265              | 3.28              | 7555             | M072236_M_-.75C--                                                                        | 63                              | 90S           |
| 22              | 42.21   | 319              | 2.75              | 6986             | M072245_M_-.75C--                                                                        | 63                              | 90S           |
| 19              | 48.56   | 367              | 1.93              | 9200             | M072250_M_-.75C--                                                                        | 63                              | 90S           |
| 17              | 53.96   | 407              | 1.48              | 10000            | M072256_M_-.75C--                                                                        | 63                              | 90S           |
| 16              | 58.95   | 440              | 1.97              | 10000            | M073256_M_-.75C--                                                                        | 64                              | 90S           |
| 15              | 62.83   | 469              | 1.85              | 10000            | M073263_M_-.75C--                                                                        | 64                              | 90S           |
| 12              | 74.47   | 556              | 1.56              | 10000            | M073271_M_-.75C--                                                                        | 64                              | 90S           |
| 12              | 79.51   | 594              | 1.47              | 10000            | M073280_M_-.75C--                                                                        | 64                              | 90S           |
| 9.4             | 98.66   | 737              | 1.18              | 10000            | M0732100_M_-.75C--                                                                       | 64                              | 90S           |
| 8.0             | 116.34  | 869              | 1.00              | 10000            | M0732112_M_-.75C--                                                                       | 64                              | 90S           |
| 7.3             | 127.39  | 952              | 0.92              | 10000            | M0732125_M_-.75C--                                                                       | 64                              | 90S           |
| 17              | 55.80   | 421              | 3.72              | 16200            | M082256_M_-.75C--                                                                        | 98                              | 90S           |
| 15              | 60.33   | 451              | 3.77              | 16200            | M083256_M_-.75C--                                                                        | 100                             | 90S           |
| 14              | 66.02   | 493              | 3.45              | 16200            | M083263_M_-.75C--                                                                        | 100                             | 90S           |
| 12              | 74.69   | 558              | 3.05              | 16200            | M083271_M_-.75C--                                                                        | 100                             | 90S           |
| 11              | 84.31   | 630              | 2.70              | 16200            | M083280_M_-.75C--                                                                        | 100                             | 90S           |
| 9.1             | 102.20  | 763              | 2.23              | 16200            | M0832100_M_-.75C--                                                                       | 100                             | 90S           |
| 7.8             | 119.19  | 890              | 1.91              | 16200            | M0832112_M_-.75C--                                                                       | 100                             | 90S           |
| 7.1             | 130.92  | 978              | 1.74              | 16200            | M0832125_M_-.75C--                                                                       | 100                             | 90S           |
| 5.8             | 160.45  | 1199             | 1.42              | 16200            | M0832160_M_-.75C--                                                                       | 100                             | 90S           |
| 5.3             | 175.21  | 1309             | 1.30              | 16200            | M0832180_M_-.75C--                                                                       | 100                             | 90S           |
| 4.6             | 201.75  | 1507             | 1.13              | 16200            | M0832200_M_-.75C--                                                                       | 100                             | 90S           |
| 4.1             | 228.91  | 1675             | 1.02              | 16200            | M0842225_M_-.75C--                                                                       | 122                             | 90S           |
| 8.0             | 116.70  | 872              | 3.57              | 20500            | M0932112_M_-.75C--                                                                       | 156                             | 90S           |
| 7.3             | 128.19  | 958              | 3.25              | 20500            | M0932125_M_-.75C--                                                                       | 156                             | 90S           |
| 5.9             | 157.10  | 1174             | 2.65              | 20500            | M0932160_M_-.75C--                                                                       | 156                             | 90S           |
| 5.4             | 171.55  | 1282             | 2.43              | 20500            | M0932180_M_-.75C--                                                                       | 156                             | 90S           |
| 4.7             | 197.54  | 1476             | 2.11              | 20500            | M0932200_M_-.75C--                                                                       | 156                             | 90S           |
| 4.0             | 231.85  | 1696             | 1.83              | 20500            | M0942225_M_-.75C--                                                                       | 177                             | 90S           |
| 3.6             | 258.09  | 1888             | 1.65              | 20500            | M0942250_M_-.75C--                                                                       | 177                             | 90S           |
| 3.2             | 286.74  | 2098             | 1.48              | 20500            | M0942280_M_-.75C--                                                                       | 177                             | 90S           |
| 3.1             | 300.18  | 2196             | 1.42              | 20500            | M0942300_M_-.75C--                                                                       | 177                             | 90S           |
| 2.6             | 357.95  | 2619             | 1.19              | 20500            | M0942360_M_-.75C--                                                                       | 177                             | 90S           |
| 2.3             | 397.69  | 2910             | 1.07              | 20500            | M0942400_M_-.75C--                                                                       | 177                             | 90S           |
| 2.1             | 452.94  | 3314             | 0.94              | 20500            | M0942450_M_-.75C--                                                                       | 177                             | 90S           |
| 1.8             | 503.22  | 3682             | 0.84              | 20500            | M0942500_M_-.75C--                                                                       | 177                             | 90S           |
| 4.2             | 220.22  | 1611             | 2.97              | 30000            | M1042225_M_-.75C--                                                                       | 228                             | 90S           |
| 3.7             | 254.58  | 1863             | 2.57              | 30000            | M1042250_M_-.75C--                                                                       | 228                             | 90S           |
| 3.3             | 278.36  | 2037             | 2.35              | 30000            | M1042280_M_-.75C--                                                                       | 228                             | 90S           |
| 3.0             | 309.32  | 2263             | 2.11              | 30000            | M1042300_M_-.75C--                                                                       | 228                             | 90S           |
| 2.5             | 365.56  | 2675             | 1.79              | 30000            | M1042360_M_-.75C--                                                                       | 228                             | 90S           |
| 2.3             | 398.71  | 2917             | 1.64              | 30000            | M1042400_M_-.75C--                                                                       | 228                             | 90S           |
| 2.0             | 457.22  | 3345             | 1.43              | 30000            | M1042450_M_-.75C--                                                                       | 228                             | 90S           |
| 1.9             | 500.94  | 3665             | 1.30              | 30000            | M1042500_M_-.75C--                                                                       | 228                             | 90S           |
| 1.5             | 635.68  | 4651             | 1.03              | 30000            | M1042650_M_-.75C--                                                                       | 228                             | 90S           |
| 1.3             | 727.99  | 5326             | 0.90              | 30000            | M1042730_M_-.75C--                                                                       | 228                             | 90S           |
| 2.5             | 370.11  | 2708             | 3.58              | 55000            | M1342360_M_-.75C--                                                                       | 332                             | 90S           |
| 2.2             | 418.46  | 3062             | 3.17              | 55000            | M1342400_M_-.75C--                                                                       | 332                             | 90S           |
| 1.9             | 482.96  | 3534             | 2.75              | 55000            | M1342450_M_-.75C--                                                                       | 332                             | 90S           |
| 1.7             | 546.05  | 3995             | 2.43              | 55000            | M1342500_M_-.75C--                                                                       | 332                             | 90S           |
| 1.4             | 664.21  | 4860             | 2.00              | 55000            | M1342650_M_-.75C--                                                                       | 332                             | 90S           |
| 1.3             | 729.13  | 5335             | 1.82              | 55000            | M1342730_M_-.75C--                                                                       | 332                             | 90S           |
| 1.1             | 860.03  | 6292             | 1.54              | 55000            | M1342860_M_-.75C--                                                                       | 332                             | 90S           |
| 0.93            | 997.11  | 7295             | 1.33              | 55000            | M134210C_M_-.75C--                                                                       | 332                             | 90S           |
| 0.87            | 1067.83 | 7813             | 1.24              | 55000            | M134211C_M_-.75C--                                                                       | 332                             | 90S           |
| 0.71            | 1302.41 | 9529             | 1.02              | 55000            | M134213C_M_-.75C--                                                                       | 332                             | 90S           |
| 1.8             | 506.63  | 3707             | 3.51              | 68000            | M1442500_M_-.75C--                                                                       | 428                             | 90S           |
| 1.4             | 656.00  | 4800             | 2.71              | 68000            | M1442650_M_-.75C--                                                                       | 428                             | 90S           |
| 1.2             | 754.34  | 5519             | 2.36              | 68000            | M1442730_M_-.75C--                                                                       | 428                             | 90S           |
| 1.1             | 852.89  | 6240             | 2.08              | 68000            | M1442860_M_-.75C--                                                                       | 428                             | 90S           |
| 0.93            | 997.48  | 7298             | 1.78              | 68000            | M144210C_M_-.75C--                                                                       | 428                             | 90S           |
| 0.80            | 1156.47 | 8461             | 1.54              | 68000            | M144211C_M_-.75C--                                                                       | 428                             | 90S           |
| 0.72            | 1291.58 | 9450             | 1.38              | 68000            | M144213C_M_-.75C--                                                                       | 428                             | 90S           |
| 0.62            | 1510.56 | 11052            | 1.18              | 68000            | M144215C_M_-.75C--                                                                       | 428                             | 90S           |
| 0.51            | 1812.67 | 13262            | 0.98              | 68000            | M144218C_M_-.75C--                                                                       | 428                             | 90S           |
| 0.47            | 1981.35 | 14497            | 0.90              | 68000            | M144220C_M_-.75C--                                                                       | 428                             | 90S           |



## SELECTION TABLES

**1.1 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 381             | 3.75  | 27               | 2.20              | 1543             | M01223.6_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 282             | 5.07  | 37               | 1.86              | 1596             | M01225.0_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 248             | 5.76  | 41               | 1.72              | 1613             | M01225.6_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 219             | 6.53  | 47               | 1.60              | 1496             | M01226.3_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 171             | 8.35  | 60               | 1.32              | 1516             | M01228.0_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 159             | 9.00  | 65               | 1.24              | 1526             | M01229.0_M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 126             | 11.36 | 82               | 1.03              | 1595             | M012211._M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 111             | 12.88 | 93               | 0.94              | 1668             | M012212._M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 97              | 14.71 | 106              | 0.85              | 1739             | M012214._M_-__1.1A--                                                                                                     | 36                              | 90S           |
| 398             | 3.59  | 26               | 3.88              | 3750             | M02223.6_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 284             | 5.03  | 36               | 3.20              | 3501             | M02225.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 258             | 5.55  | 40               | 3.03              | 3457             | M02225.6_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 227             | 6.30  | 45               | 2.80              | 3393             | M02226.3_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 179             | 8.00  | 58               | 2.36              | 3275             | M02228.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 157             | 9.09  | 65               | 2.14              | 3284             | M02229.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 128             | 11.15 | 80               | 1.81              | 3362             | M022211._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 116             | 12.37 | 89               | 1.66              | 3416             | M022212._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 102             | 14.05 | 101              | 1.51              | 3579             | M022214._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 90              | 15.97 | 115              | 1.39              | 3913             | M022216._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 81              | 17.58 | 127              | 1.26              | 3981             | M022218._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 71              | 20.23 | 146              | 1.10              | 4000             | M022220._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 65              | 21.99 | 158              | 1.01              | 4000             | M022222._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 54              | 26.40 | 190              | 0.84              | 4000             | M022228._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 284             | 5.03  | 36               | 3.73              | 2901             | M03225.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 258             | 5.55  | 40               | 3.51              | 2859             | M03225.6_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 227             | 6.30  | 45               | 3.24              | 2777             | M03226.3_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 179             | 8.00  | 58               | 2.80              | 2654             | M03228.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 157             | 9.09  | 65               | 2.57              | 2596             | M03229.0_M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 128             | 11.15 | 80               | 2.23              | 2556             | M032211._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 116             | 12.37 | 89               | 2.09              | 2635             | M032212._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 102             | 14.05 | 101              | 1.92              | 2815             | M032214._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 90              | 15.97 | 115              | 1.79              | 3017             | M032216._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 81              | 17.58 | 127              | 1.64              | 3147             | M032218._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 71              | 20.23 | 146              | 1.44              | 3498             | M032220._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 65              | 21.99 | 158              | 1.33              | 3456             | M032222._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 54              | 26.40 | 190              | 1.11              | 3227             | M032228._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 45              | 31.68 | 228              | 0.92              | 3003             | M032232._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 40              | 35.69 | 257              | 0.82              | 2993             | M032236._M_-__1.1A--                                                                                                     | 38                              | 90S           |
| 131             | 10.89 | 78               | 3.97              | 6342             | M042211._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 114             | 12.54 | 90               | 3.54              | 6597             | M042212._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 98              | 14.58 | 105              | 3.13              | 6781             | M042214._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 88              | 16.31 | 117              | 2.88              | 6998             | M042216._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 82              | 17.39 | 125              | 2.72              | 7143             | M042218._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 69              | 20.61 | 148              | 2.29              | 7200             | M042220._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 65              | 22.00 | 158              | 2.15              | 7200             | M042222._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 52              | 27.30 | 197              | 1.73              | 7200             | M042228._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 44              | 32.19 | 232              | 1.47              | 7200             | M042232._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 41              | 35.25 | 254              | 1.34              | 7200             | M042236._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 33              | 43.20 | 311              | 1.09              | 7200             | M042245._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 30              | 48.15 | 347              | 0.98              | 7200             | M042250._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 88              | 16.31 | 117              | 3.83              | 6272             | M052216._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 82              | 17.39 | 125              | 3.59              | 6331             | M052218._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 69              | 20.61 | 148              | 3.03              | 6688             | M052220._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 65              | 22.00 | 158              | 2.84              | 6809             | M052222._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 52              | 27.30 | 197              | 2.29              | 7200             | M052228._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 44              | 32.19 | 232              | 1.94              | 7200             | M052232._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 41              | 35.25 | 254              | 1.78              | 7200             | M052236._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 33              | 43.20 | 311              | 1.37              | 6810             | M052245._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 30              | 48.15 | 347              | 1.10              | 6829             | M052250._M_-__1.1A--                                                                                                     | 49                              | 90S           |
| 24              | 58.38 | 416              | 1.08              | 7200             | M053256._M_-__1.1A--                                                                                                     | 50                              | 90S           |
| 22              | 64.29 | 458              | 0.98              | 7200             | M053263._M_-__1.1A--                                                                                                     | 50                              | 90S           |
| 19              | 73.95 | 527              | 0.85              | 7200             | M053271._M_-__1.1A--                                                                                                     | 50                              | 90S           |
| 56              | 25.51 | 184              | 3.40              | 7200             | M062222._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 52              | 27.24 | 196              | 3.19              | 7200             | M062228._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 42              | 33.80 | 243              | 2.57              | 7200             | M062232._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 36              | 39.86 | 287              | 2.18              | 7200             | M062236._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 33              | 43.64 | 314              | 1.99              | 7200             | M062245._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 27              | 53.49 | 385              | 1.37              | 7200             | M062250._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 24              | 59.61 | 429              | 1.10              | 7200             | M062256._M_-__1.1A--                                                                                                     | 54                              | 90S           |
| 20              | 72.28 | 515              | 1.22              | 7200             | M063263._M_-__1.1A--                                                                                                     | 55                              | 90S           |
| 18              | 79.60 | 567              | 1.10              | 7200             | M063271._M_-__1.1A--                                                                                                     | 55                              | 90S           |
| 16              | 91.56 | 652              | 0.96              | 7200             | M063280._M_-__1.1A--                                                                                                     | 55                              | 90S           |
| 14              | 99.54 | 709              | 0.88              | 7200             | M0632100._M_-__1.1A--                                                                                                    | 55                              | 90S           |



## SELECTION TABLES

**1.1 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 45              | 32.12   | 231              | 3.63              | 9517             | M072232_M_- 1.1A--                                                                                                       | 63                              | 90S           |
| 41              | 35.17   | 253              | 3.35              | 9379             | M072236_M_- 1.1A--                                                                                                       | 63                              | 90S           |
| 34              | 42.21   | 304              | 2.86              | 9338             | M072245_M_- 1.1A--                                                                                                       | 63                              | 90S           |
| 29              | 48.56   | 350              | 2.02              | 9397             | M072250_M_- 1.1A--                                                                                                       | 63                              | 90S           |
| 27              | 53.96   | 388              | 1.55              | 10000            | M072256_M_- 1.1A--                                                                                                       | 63                              | 90S           |
| 24              | 58.95   | 420              | 1.79              | 10000            | M073256_M_- 1.1A--                                                                                                       | 64                              | 90S           |
| 23              | 62.83   | 448              | 1.72              | 10000            | M073263_M_- 1.1A--                                                                                                       | 64                              | 90S           |
| 19              | 74.47   | 531              | 1.54              | 10000            | M073271_M_- 1.1A--                                                                                                       | 64                              | 90S           |
| 18              | 79.51   | 567              | 1.48              | 10000            | M073280_M_- 1.1A--                                                                                                       | 64                              | 90S           |
| 14              | 98.66   | 703              | 1.24              | 10000            | M0732100_M_- 1.1A--                                                                                                      | 64                              | 90S           |
| 12              | 116.34  | 829              | 1.05              | 10000            | M0732112_M_- 1.1A--                                                                                                      | 64                              | 90S           |
| 11              | 127.39  | 908              | 0.96              | 10000            | M0732125_M_- 1.1A--                                                                                                      | 64                              | 90S           |
| 26              | 55.80   | 402              | 3.85              | 16200            | M082256_M_- 1.1A--                                                                                                       | 98                              | 90S           |
| 24              | 60.33   | 430              | 3.74              | 16200            | M083256_M_- 1.1A--                                                                                                       | 100                             | 90S           |
| 22              | 66.02   | 470              | 3.51              | 16200            | M083263_M_- 1.1A--                                                                                                       | 100                             | 90S           |
| 19              | 74.69   | 532              | 3.19              | 16200            | M083271_M_- 1.1A--                                                                                                       | 100                             | 90S           |
| 17              | 84.31   | 601              | 2.83              | 16200            | M083280_M_- 1.1A--                                                                                                       | 100                             | 90S           |
| 14              | 102.20  | 728              | 2.33              | 16200            | M0832100_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 12              | 119.19  | 849              | 2.00              | 16200            | M0832112_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 11              | 130.92  | 933              | 1.82              | 16200            | M0832125_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 8.9             | 160.45  | 1143             | 1.49              | 16200            | M0832160_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 8.2             | 175.21  | 1249             | 1.36              | 16200            | M0832180_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 7.1             | 201.75  | 1438             | 1.18              | 16200            | M0832200_M_- 1.1A--                                                                                                      | 100                             | 90S           |
| 6.2             | 228.91  | 1598             | 1.06              | 16200            | M0842225_M_- 1.1A--                                                                                                      | 122                             | 90S           |
| 5.5             | 258.98  | 1807             | 0.94              | 16091            | M0842250_M_- 1.1A--                                                                                                      | 122                             | 90S           |
| 4.7             | 301.21  | 2102             | 0.81              | 15826            | M0842250_M_- 1.1A--                                                                                                      | 122                             | 90S           |
| 12              | 116.70  | 832              | 3.74              | 20500            | M0932112_M_- 1.1A--                                                                                                      | 156                             | 90S           |
| 11              | 128.19  | 913              | 3.40              | 20500            | M0932125_M_- 1.1A--                                                                                                      | 156                             | 90S           |
| 9.1             | 157.10  | 1119             | 2.78              | 20500            | M0932160_M_- 1.1A--                                                                                                      | 156                             | 90S           |
| 8.3             | 171.55  | 1222             | 2.54              | 20500            | M0932180_M_- 1.1A--                                                                                                      | 156                             | 90S           |
| 7.2             | 197.54  | 1408             | 2.21              | 20500            | M0932200_M_- 1.1A--                                                                                                      | 156                             | 90S           |
| 6.2             | 231.85  | 1618             | 1.92              | 20500            | M0942225_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 5.5             | 258.09  | 1801             | 1.73              | 20500            | M0942250_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 5.0             | 286.74  | 2001             | 1.55              | 20500            | M0942280_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 4.8             | 300.18  | 2095             | 1.48              | 20500            | M0942300_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 4.0             | 357.95  | 2498             | 1.24              | 20500            | M0942360_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 3.6             | 397.69  | 2775             | 1.12              | 20500            | M0942400_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 3.2             | 452.94  | 3161             | 0.98              | 20463            | M0942450_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 2.8             | 503.22  | 3512             | 0.89              | 20228            | M0942500_M_- 1.1A--                                                                                                      | 177                             | 90S           |
| 6.5             | 220.22  | 1537             | 3.11              | 30000            | M1042225_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 5.6             | 254.58  | 1777             | 2.69              | 30000            | M1042250_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 5.1             | 278.36  | 1943             | 2.46              | 30000            | M1042280_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 4.6             | 309.32  | 2159             | 2.21              | 30000            | M1042300_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 3.9             | 365.56  | 2551             | 1.87              | 30000            | M1042360_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 3.6             | 398.71  | 2783             | 1.72              | 30000            | M1042400_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 3.1             | 457.22  | 3191             | 1.50              | 30000            | M1042450_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 2.9             | 500.94  | 3496             | 1.37              | 30000            | M1042500_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 2.2             | 635.68  | 4436             | 1.08              | 30000            | M1042650_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 2.0             | 727.99  | 5081             | 0.94              | 30000            | M1042730_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 1.7             | 844.72  | 5895             | 0.81              | 30000            | M1042860_M_- 1.1A--                                                                                                      | 228                             | 90S           |
| 3.9             | 370.11  | 2583             | 3.76              | 55000            | M1342360_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 3.4             | 418.46  | 2920             | 3.32              | 55000            | M1342400_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 3.0             | 482.96  | 3371             | 2.88              | 55000            | M1342450_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 2.6             | 546.05  | 3811             | 2.55              | 55000            | M1342500_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 2.2             | 664.21  | 4635             | 2.09              | 55000            | M1342650_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 2.0             | 729.13  | 5088             | 1.91              | 55000            | M1342730_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 1.7             | 860.03  | 6002             | 1.62              | 55000            | M1342860_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 1.4             | 997.11  | 6959             | 1.39              | 55000            | M134210C_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 1.3             | 1067.83 | 7452             | 1.30              | 55000            | M134211C_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 1.1             | 1302.41 | 9089             | 1.07              | 55000            | M134213C_M_- 1.1A--                                                                                                      | 332                             | 90S           |
| 2.8             | 506.63  | 3536             | 3.68              | 68000            | M1442500_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 2.2             | 656.00  | 4578             | 2.84              | 68000            | M1442650_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 1.9             | 754.34  | 5264             | 2.47              | 68000            | M1442730_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 1.7             | 852.89  | 5952             | 2.18              | 68000            | M1442860_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 1.4             | 997.48  | 6961             | 1.87              | 68000            | M144210C_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 1.2             | 1156.47 | 8071             | 1.61              | 68000            | M144211C_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 1.1             | 1291.58 | 9014             | 1.44              | 68000            | M144213C_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 0.95            | 1510.56 | 10542            | 1.23              | 68000            | M144215C_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 0.79            | 1812.67 | 12650            | 1.03              | 68000            | M144218C_M_- 1.1A--                                                                                                      | 428                             | 90S           |
| 0.72            | 1981.35 | 13828            | 0.94              | 68000            | M144220C_M_- 1.1A--                                                                                                      | 428                             | 90S           |



## SELECTION TABLES

**1.1 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 248             | 3.75  | 42               | 1.66              | 1500             | M01223.6_M_-1.1C--                                                                                                       | 38                              | 90L           |
| 183             | 5.07  | 56               | 1.36              | 1490             | M01225.0_M_-1.1C--                                                                                                       | 38                              | 90L           |
| 161             | 5.76  | 64               | 1.24              | 1515             | M01225.6_M_-1.1C--                                                                                                       | 38                              | 90L           |
| 142             | 6.53  | 72               | 1.11              | 1537             | M01226.3_M_-1.1C--                                                                                                       | 38                              | 90L           |
| 111             | 8.35  | 92               | 0.93              | 1647             | M01228.0_M_-1.1C--                                                                                                       | 38                              | 90L           |
| 259             | 3.59  | 40               | 2.92              | 3589             | M02223.6_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 185             | 5.03  | 56               | 2.37              | 3420             | M02225.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 168             | 5.55  | 61               | 2.19              | 3357             | M02225.6_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 148             | 6.30  | 70               | 1.99              | 3376             | M02226.3_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 116             | 8.00  | 89               | 1.65              | 3445             | M02228.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 102             | 9.09  | 101              | 1.50              | 3607             | M02229.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 83              | 11.15 | 123              | 1.28              | 4000             | M022211_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 75              | 12.37 | 137              | 1.17              | 4000             | M022212_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 66              | 14.05 | 156              | 1.03              | 4000             | M022214_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 58              | 15.97 | 177              | 0.91              | 4000             | M022216_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 53              | 17.58 | 195              | 0.83              | 3919             | M022218_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 259             | 3.59  | 40               | 3.40              | 3020             | M03223.6_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 185             | 5.03  | 56               | 2.77              | 2819             | M03225.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 168             | 5.55  | 61               | 2.60              | 2755             | M03225.6_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 148             | 6.30  | 70               | 2.40              | 2676             | M03226.3_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 116             | 8.00  | 89               | 2.07              | 2589             | M03228.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 102             | 9.09  | 101              | 1.90              | 2779             | M03229.0_M_-1.1C--                                                                                                       | 40                              | 90L           |
| 83              | 11.15 | 123              | 1.66              | 3077             | M032211_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 75              | 12.37 | 137              | 1.53              | 3237             | M032212_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 66              | 14.05 | 156              | 1.35              | 3421             | M032214_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 58              | 15.97 | 177              | 1.19              | 3343             | M032216_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 53              | 17.58 | 195              | 1.08              | 3207             | M032218_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 46              | 20.23 | 224              | 0.94              | 3029             | M032220_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 42              | 21.99 | 243              | 0.87              | 2984             | M032222_M_-1.1C--                                                                                                        | 40                              | 90L           |
| 74              | 12.54 | 139              | 2.43              | 7200             | M042212_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 64              | 14.58 | 161              | 2.11              | 7200             | M042214_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 57              | 16.31 | 181              | 1.88              | 7200             | M042216_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 53              | 17.39 | 193              | 1.77              | 7200             | M042218_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 45              | 20.61 | 228              | 1.49              | 7200             | M042220_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 42              | 22.00 | 244              | 1.40              | 7200             | M042222_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 34              | 27.30 | 302              | 1.13              | 7200             | M042228_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 29              | 32.19 | 356              | 0.95              | 7093             | M042232_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 26              | 35.25 | 390              | 0.87              | 7023             | M042236_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 74              | 12.54 | 139              | 3.08              | 6484             | M052212_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 64              | 14.58 | 161              | 2.79              | 6795             | M052214_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 57              | 16.31 | 181              | 2.51              | 7015             | M052216_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 53              | 17.39 | 193              | 2.35              | 7130             | M052218_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 45              | 20.61 | 228              | 1.98              | 7200             | M052220_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 42              | 22.00 | 244              | 1.86              | 7200             | M052222_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 34              | 27.30 | 302              | 1.50              | 6932             | M052228_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 29              | 32.19 | 356              | 1.27              | 6991             | M052232_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 26              | 35.25 | 390              | 1.17              | 6908             | M052236_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 22              | 43.20 | 478              | 0.92              | 6518             | M052245_M_-1.1C--                                                                                                        | 51                              | 90L           |
| 52              | 18.05 | 200              | 3.13              | 7200             | M062216_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 46              | 20.20 | 224              | 2.81              | 7200             | M062218_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 43              | 21.53 | 238              | 2.64              | 7200             | M062220_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 36              | 25.51 | 282              | 2.22              | 7200             | M062222_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 34              | 27.24 | 302              | 2.08              | 7200             | M062228_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 28              | 33.80 | 374              | 1.68              | 7200             | M062232_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 23              | 39.86 | 441              | 1.43              | 7200             | M062236_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 21              | 43.64 | 483              | 1.31              | 7200             | M062245_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 17              | 53.49 | 592              | 0.93              | 7200             | M062250_M_-1.1C--                                                                                                        | 56                              | 90L           |
| 45              | 20.54 | 227              | 3.71              | 8987             | M072220_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 40              | 23.23 | 257              | 3.32              | 8888             | M072222_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 35              | 26.93 | 298              | 2.91              | 8888             | M072228_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 29              | 32.12 | 356              | 2.46              | 8405             | M072232_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 26              | 35.17 | 389              | 2.25              | 8405             | M072236_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 22              | 42.21 | 467              | 1.88              | 7755             | M072245_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 19              | 48.56 | 538              | 1.32              | 9200             | M072250_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 17              | 53.96 | 597              | 1.02              | 10000            | M072256_M_-1.1C--                                                                                                        | 65                              | 90L           |
| 16              | 58.95 | 646              | 1.35              | 10000            | M073256_M_-1.1C--                                                                                                        | 66                              | 90L           |
| 15              | 62.83 | 688              | 1.27              | 10000            | M073263_M_-1.1C--                                                                                                        | 66                              | 90L           |
| 12              | 74.47 | 816              | 1.07              | 10000            | M073271_M_-1.1C--                                                                                                        | 66                              | 90L           |
| 12              | 79.51 | 871              | 1.01              | 10000            | M073280_M_-1.1C--                                                                                                        | 66                              | 90L           |
| 9.4             | 98.66 | 1081             | 0.81              | 10000            | M0732100_M_-1.1C--                                                                                                       | 66                              | 90L           |



## SELECTION TABLES

**1.1 kW**

6 POLE

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 21              | 44.38   | 491              | 3.46              | 16200            | M082245_M_-__1.1C--                                                                      | 100                             | 90L           |
| 19              | 48.46   | 536              | 3.17              | 16200            | M082250_M_-__1.1C--                                                                      | 100                             | 90L           |
| 17              | 55.80   | 618              | 2.55              | 16200            | M082256_M_-__1.1C--                                                                      | 100                             | 90L           |
| 15              | 60.33   | 661              | 2.57              | 16200            | M083256_M_-__1.1C--                                                                      | 102                             | 90L           |
| 14              | 66.02   | 723              | 2.35              | 16200            | M083263_M_-__1.1C--                                                                      | 102                             | 90L           |
| 12              | 74.69   | 818              | 2.08              | 16200            | M083271_M_-__1.1C--                                                                      | 102                             | 90L           |
| 11              | 84.31   | 924              | 1.84              | 16200            | M083280_M_-__1.1C--                                                                      | 102                             | 90L           |
| 9.1             | 102.20  | 1120             | 1.52              | 16200            | M0832100_M_-__1.1C--                                                                     | 102                             | 90L           |
| 7.8             | 119.19  | 1306             | 1.30              | 16200            | M0832112_M_-__1.1C--                                                                     | 102                             | 90L           |
| 7.1             | 130.92  | 1434             | 1.19              | 16200            | M0832125_M_-__1.1C--                                                                     | 102                             | 90L           |
| 5.8             | 160.45  | 1758             | 0.97              | 16200            | M0832160_M_-__1.1C--                                                                     | 102                             | 90L           |
| 5.3             | 175.21  | 1920             | 0.89              | 16200            | M0832180_M_-__1.1C--                                                                     | 102                             | 90L           |
| 13              | 73.13   | 801              | 3.88              | 20500            | M093271_M_-__1.1C--                                                                      | 158                             | 90L           |
| 11              | 82.55   | 904              | 3.44              | 20500            | M093280_M_-__1.1C--                                                                      | 158                             | 90L           |
| 9.3             | 100.07  | 1096             | 2.84              | 20500            | M0932100_M_-__1.1C--                                                                     | 158                             | 90L           |
| 8.0             | 116.70  | 1279             | 2.43              | 20500            | M0932112_M_-__1.1C--                                                                     | 158                             | 90L           |
| 7.3             | 128.19  | 1405             | 2.21              | 20500            | M0932125_M_-__1.1C--                                                                     | 158                             | 90L           |
| 5.9             | 157.10  | 1721             | 1.81              | 20500            | M0932160_M_-__1.1C--                                                                     | 158                             | 90L           |
| 5.4             | 171.55  | 1880             | 1.65              | 20500            | M0932180_M_-__1.1C--                                                                     | 158                             | 90L           |
| 4.7             | 197.54  | 2164             | 1.44              | 20500            | M0932200_M_-__1.1C--                                                                     | 158                             | 90L           |
| 4.0             | 231.85  | 2488             | 1.25              | 20500            | M0942225_M_-__1.1C--                                                                     | 179                             | 90L           |
| 3.6             | 258.09  | 2770             | 1.12              | 20500            | M0942250_M_-__1.1C--                                                                     | 179                             | 90L           |
| 3.2             | 286.74  | 3077             | 1.01              | 20500            | M0942280_M_-__1.1C--                                                                     | 179                             | 90L           |
| 3.1             | 300.18  | 3221             | 0.97              | 20421            | M0942300_M_-__1.1C--                                                                     | 179                             | 90L           |
| 2.6             | 357.95  | 3841             | 0.81              | 20029            | M0942360_M_-__1.1C--                                                                     | 179                             | 90L           |
| 4.2             | 220.22  | 2363             | 2.02              | 30000            | M1042225_M_-__1.1C--                                                                     | 230                             | 90L           |
| 3.7             | 254.58  | 2732             | 1.75              | 30000            | M1042250_M_-__1.1C--                                                                     | 230                             | 90L           |
| 3.3             | 278.36  | 2987             | 1.60              | 30000            | M1042280_M_-__1.1C--                                                                     | 230                             | 90L           |
| 3.0             | 309.32  | 3319             | 1.44              | 30000            | M1042300_M_-__1.1C--                                                                     | 230                             | 90L           |
| 2.5             | 365.56  | 3923             | 1.22              | 30000            | M1042360_M_-__1.1C--                                                                     | 230                             | 90L           |
| 2.3             | 398.71  | 4279             | 1.12              | 30000            | M1042400_M_-__1.1C--                                                                     | 230                             | 90L           |
| 2.0             | 457.22  | 4906             | 0.97              | 30000            | M1042450_M_-__1.1C--                                                                     | 230                             | 90L           |
| 1.9             | 500.94  | 5376             | 0.89              | 30000            | M1042500_M_-__1.1C--                                                                     | 230                             | 90L           |
| 3.6             | 258.39  | 2773             | 3.50              | 55000            | M1342250_M_-__1.1C--                                                                     | 334                             | 90L           |
| 3.2             | 289.16  | 3103             | 3.13              | 55000            | M1342280_M_-__1.1C--                                                                     | 334                             | 90L           |
| 2.9             | 323.18  | 3468             | 2.80              | 55000            | M1342300_M_-__1.1C--                                                                     | 334                             | 90L           |
| 2.5             | 370.11  | 3972             | 2.44              | 55000            | M1342360_M_-__1.1C--                                                                     | 334                             | 90L           |
| 2.2             | 418.46  | 4490             | 2.16              | 55000            | M1342400_M_-__1.1C--                                                                     | 334                             | 90L           |
| 1.9             | 482.96  | 5183             | 1.87              | 55000            | M1342450_M_-__1.1C--                                                                     | 334                             | 90L           |
| 1.7             | 546.05  | 5860             | 1.66              | 55000            | M1342500_M_-__1.1C--                                                                     | 334                             | 90L           |
| 1.4             | 664.21  | 7128             | 1.36              | 55000            | M1342650_M_-__1.1C--                                                                     | 334                             | 90L           |
| 1.3             | 729.13  | 7824             | 1.24              | 55000            | M1342730_M_-__1.1C--                                                                     | 334                             | 90L           |
| 1.1             | 860.03  | 9229             | 1.05              | 55000            | M1342860_M_-__1.1C--                                                                     | 334                             | 90L           |
| 0.93            | 997.11  | 10700            | 0.91              | 55000            | M134210C_M_-__1.1C--                                                                     | 334                             | 90L           |
| 0.87            | 1067.83 | 11459            | 0.85              | 55000            | M134211C_M_-__1.1C--                                                                     | 334                             | 90L           |
| 2.8             | 337.68  | 3624             | 3.59              | 68000            | M1442300_M_-__1.1C--                                                                     | 430                             | 90L           |
| 2.6             | 352.51  | 3783             | 3.44              | 68000            | M1442360_M_-__1.1C--                                                                     | 430                             | 90L           |
| 2.3             | 405.06  | 4347             | 2.99              | 68000            | M1442400_M_-__1.1C--                                                                     | 430                             | 90L           |
| 2.0             | 459.33  | 4929             | 2.64              | 68000            | M1442450_M_-__1.1C--                                                                     | 430                             | 90L           |
| 1.8             | 506.63  | 5437             | 2.39              | 68000            | M1442500_M_-__1.1C--                                                                     | 430                             | 90L           |
| 1.4             | 656.00  | 7039             | 1.85              | 68000            | M1442650_M_-__1.1C--                                                                     | 430                             | 90L           |
| 1.2             | 754.34  | 8095             | 1.61              | 68000            | M1442730_M_-__1.1C--                                                                     | 430                             | 90L           |
| 1.1             | 852.89  | 9152             | 1.42              | 68000            | M1442860_M_-__1.1C--                                                                     | 430                             | 90L           |
| 0.93            | 997.48  | 10704            | 1.21              | 68000            | M144210C_M_-__1.1C--                                                                     | 430                             | 90L           |
| 0.80            | 1156.47 | 12410            | 1.05              | 68000            | M144211C_M_-__1.1C--                                                                     | 430                             | 90L           |
| 0.72            | 1291.58 | 13860            | 0.94              | 68000            | M144213C_M_-__1.1C--                                                                     | 430                             | 90L           |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**1.5 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 381             | 3.75  | 37               | 1.63              | 1484             | M01223.6_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 282             | 5.07  | 50               | 1.37              | 1517             | M01225.0_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 248             | 5.76  | 57               | 1.27              | 1521             | M01225.6_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 219             | 6.53  | 64               | 1.18              | 1416             | M01226.3_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 171             | 8.35  | 82               | 0.97              | 1465             | M01228.0_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 159             | 9.00  | 88               | 0.91              | 1474             | M01229.0_M_-1.5A--                                                                                                       | 38                              | 90L           |
| 398             | 3.59  | 35               | 2.87              | 3728             | M02223.6_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 284             | 5.03  | 49               | 2.36              | 3385             | M02225.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 258             | 5.55  | 54               | 2.23              | 3342             | M02225.6_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 227             | 6.30  | 62               | 2.06              | 3281             | M02226.3_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 179             | 8.00  | 79               | 1.74              | 3167             | M02228.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 157             | 9.09  | 89               | 1.57              | 3173             | M02229.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 128             | 11.15 | 109              | 1.33              | 3250             | M022211_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 116             | 12.37 | 121              | 1.23              | 3304             | M022212_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 102             | 14.05 | 138              | 1.12              | 3463             | M022214_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 90              | 15.97 | 157              | 1.03              | 3850             | M022216_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 81              | 17.58 | 173              | 0.93              | 3848             | M022218_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 71              | 20.23 | 199              | 0.81              | 3906             | M022220_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 398             | 3.59  | 35               | 3.38              | 3018             | M03223.6_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 284             | 5.03  | 49               | 2.76              | 2807             | M03225.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 258             | 5.55  | 54               | 2.59              | 2765             | M03225.6_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 227             | 6.30  | 62               | 2.40              | 2687             | M03226.3_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 179             | 8.00  | 79               | 2.06              | 2566             | M03228.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 157             | 9.09  | 89               | 1.89              | 2510             | M03229.0_M_-1.5A--                                                                                                       | 40                              | 90L           |
| 128             | 11.15 | 109              | 1.65              | 2473             | M032211_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 116             | 12.37 | 121              | 1.54              | 2548             | M032212_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 102             | 14.05 | 138              | 1.41              | 2720             | M032214_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 90              | 15.97 | 157              | 1.32              | 2918             | M032216_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 81              | 17.58 | 173              | 1.21              | 3042             | M032218_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 71              | 20.23 | 199              | 1.06              | 3280             | M032220_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 65              | 21.99 | 216              | 0.97              | 3340             | M032222_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 54              | 26.40 | 259              | 0.82              | 3121             | M032228_M_-1.5A--                                                                                                        | 40                              | 90L           |
| 114             | 12.54 | 123              | 2.60              | 6376             | M042212_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 98              | 14.58 | 143              | 2.30              | 6553             | M042214_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 88              | 16.31 | 160              | 2.11              | 6764             | M042216_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 82              | 17.39 | 171              | 1.99              | 6904             | M042218_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 69              | 20.61 | 202              | 1.68              | 7200             | M042220_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 65              | 22.00 | 216              | 1.57              | 7200             | M042222_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 52              | 27.30 | 268              | 1.27              | 7200             | M042228_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 44              | 32.19 | 316              | 1.08              | 7188             | M042232_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 41              | 35.25 | 346              | 0.99              | 7122             | M042236_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 33              | 43.20 | 424              | 0.80              | 6959             | M042245_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 114             | 12.54 | 123              | 3.47              | 5768             | M052212_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 98              | 14.58 | 143              | 3.15              | 5922             | M052214_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 88              | 16.31 | 160              | 2.82              | 6064             | M052216_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 82              | 17.39 | 171              | 2.64              | 6119             | M052218_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 69              | 20.61 | 202              | 2.23              | 6466             | M052220_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 65              | 22.00 | 216              | 2.09              | 6583             | M052222_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 52              | 27.30 | 268              | 1.68              | 6977             | M052228_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 44              | 32.19 | 316              | 1.43              | 7083             | M052232_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 41              | 35.25 | 346              | 1.31              | 6995             | M052236_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 33              | 43.20 | 424              | 1.00              | 6582             | M052245_M_-1.5A--                                                                                                        | 51                              | 90L           |
| 79              | 18.05 | 177              | 3.37              | 7200             | M062216_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 71              | 20.20 | 198              | 3.17              | 7200             | M062218_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 66              | 21.53 | 211              | 2.97              | 7200             | M062220_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 56              | 25.51 | 250              | 2.51              | 7200             | M062222_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 52              | 27.24 | 267              | 2.35              | 7200             | M062228_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 42              | 33.80 | 332              | 1.89              | 7200             | M062232_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 36              | 39.86 | 391              | 1.61              | 7200             | M062236_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 33              | 43.64 | 428              | 1.47              | 7200             | M062245_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 27              | 53.49 | 525              | 1.01              | 7200             | M062250_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 24              | 59.61 | 585              | 0.81              | 7200             | M062256_M_-1.5A--                                                                                                        | 56                              | 90L           |
| 62              | 23.23 | 228              | 3.59              | 9012             | M072222_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 53              | 26.93 | 264              | 3.14              | 9005             | M072228_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 45              | 32.12 | 315              | 2.68              | 8470             | M072232_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 41              | 35.17 | 345              | 2.47              | 8218             | M072236_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 34              | 42.21 | 414              | 2.11              | 7697             | M072245_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 29              | 48.56 | 477              | 1.49              | 8986             | M072250_M_-1.5A--                                                                                                        | 65                              | 90L           |
| 27              | 53.96 | 530              | 1.14              | 10000            | M072256_M_-1.5A--                                                                                                        | 65                              | 90L           |



## SELECTION TABLES

**1.5 kW**

4 POLE

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 24              | 58.95   | 579              | 1.33              | 9013             | M073256_M_-1.5A--                                                                        | 66                              | 90L           |
| 23              | 62.83   | 617              | 1.27              | 10000            | M073263_M_-1.5A--                                                                        | 66                              | 90L           |
| 19              | 74.47   | 731              | 1.14              | 10000            | M073271_M_-1.5A--                                                                        | 66                              | 90L           |
| 18              | 79.51   | 781              | 1.09              | 10000            | M073280_M_-1.5A--                                                                        | 66                              | 90L           |
| 14              | 98.66   | 969              | 0.91              | 10000            | M0732100_M_-1.5A--                                                                       | 66                              | 90L           |
| 32              | 44.38   | 436              | 3.88              | 14278            | M082245_M_-1.5A--                                                                        | 100                             | 90L           |
| 30              | 48.46   | 476              | 3.55              | 15520            | M082250_M_-1.5A--                                                                        | 100                             | 90L           |
| 26              | 55.80   | 548              | 2.85              | 16200            | M082256_M_-1.5A--                                                                        | 100                             | 90L           |
| 24              | 60.33   | 586              | 2.76              | 16200            | M083256_M_-1.5A--                                                                        | 102                             | 90L           |
| 22              | 66.02   | 642              | 2.59              | 16200            | M083263_M_-1.5A--                                                                        | 102                             | 90L           |
| 19              | 74.69   | 726              | 2.34              | 16200            | M083271_M_-1.5A--                                                                        | 102                             | 90L           |
| 17              | 84.31   | 819              | 2.08              | 16200            | M083280_M_-1.5A--                                                                        | 102                             | 90L           |
| 14              | 102.20  | 993              | 1.71              | 16200            | M0832100_M_-1.5A--                                                                       | 102                             | 90L           |
| 12              | 119.19  | 1158             | 1.47              | 16200            | M0832112_M_-1.5A--                                                                       | 102                             | 90L           |
| 11              | 130.92  | 1272             | 1.34              | 16200            | M0832125_M_-1.5A--                                                                       | 102                             | 90L           |
| 9               | 160.45  | 1559             | 1.09              | 16200            | M0832160_M_-1.5A--                                                                       | 102                             | 90L           |
| 8               | 175.21  | 1703             | 1.00              | 16200            | M0832180_M_-1.5A--                                                                       | 102                             | 90L           |
| 7               | 201.75  | 1960             | 0.87              | 16200            | M0832200_M_-1.5A--                                                                       | 102                             | 90L           |
| 17              | 82.55   | 802              | 3.88              | 20500            | M093280_M_-1.5A--                                                                        | 158                             | 90L           |
| 14              | 100.07  | 972              | 3.20              | 20500            | M0932100_M_-1.5A--                                                                       | 158                             | 90L           |
| 12              | 116.70  | 1134             | 2.74              | 20500            | M0932112_M_-1.5A--                                                                       | 158                             | 90L           |
| 11              | 128.19  | 1246             | 2.50              | 20500            | M0932125_M_-1.5A--                                                                       | 158                             | 90L           |
| 9.1             | 157.10  | 1527             | 2.04              | 20500            | M0932160_M_-1.5A--                                                                       | 158                             | 90L           |
| 8.3             | 171.55  | 1667             | 1.87              | 20500            | M0932180_M_-1.5A--                                                                       | 158                             | 90L           |
| 7.2             | 197.54  | 1919             | 1.62              | 20500            | M0932200_M_-1.5A--                                                                       | 158                             | 90L           |
| 6.2             | 231.85  | 2206             | 1.41              | 20500            | M0942225_M_-1.5A--                                                                       | 179                             | 90L           |
| 5.5             | 258.09  | 2456             | 1.27              | 20500            | M0942250_M_-1.5A--                                                                       | 179                             | 90L           |
| 5.0             | 286.74  | 2729             | 1.14              | 20500            | M0942280_M_-1.5A--                                                                       | 179                             | 90L           |
| 4.8             | 300.18  | 2857             | 1.09              | 20500            | M0942300_M_-1.5A--                                                                       | 179                             | 90L           |
| 4.0             | 357.95  | 3406             | 0.91              | 20500            | M0942360_M_-1.5A--                                                                       | 179                             | 90L           |
| 3.6             | 397.69  | 3785             | 0.82              | 20500            | M0942400_M_-1.5A--                                                                       | 179                             | 90L           |
| 6.5             | 220.22  | 2096             | 2.28              | 30000            | M1042225_M_-1.5A--                                                                       | 230                             | 90L           |
| 5.6             | 254.58  | 2423             | 1.97              | 30000            | M1042250_M_-1.5A--                                                                       | 230                             | 90L           |
| 5.1             | 278.36  | 2649             | 1.80              | 30000            | M1042280_M_-1.5A--                                                                       | 230                             | 90L           |
| 4.6             | 309.32  | 2944             | 1.62              | 30000            | M1042300_M_-1.5A--                                                                       | 230                             | 90L           |
| 3.9             | 365.56  | 3479             | 1.37              | 30000            | M1042360_M_-1.5A--                                                                       | 230                             | 90L           |
| 3.6             | 398.71  | 3794             | 1.26              | 30000            | M1042400_M_-1.5A--                                                                       | 230                             | 90L           |
| 3.1             | 457.22  | 4351             | 1.10              | 30000            | M1042450_M_-1.5A--                                                                       | 230                             | 90L           |
| 2.9             | 500.94  | 4767             | 1.00              | 30000            | M1042500_M_-1.5A--                                                                       | 230                             | 90L           |
| 5.5             | 258.39  | 2459             | 3.94              | 55000            | M1342250_M_-1.5A--                                                                       | 334                             | 90L           |
| 4.9             | 289.16  | 2752             | 3.52              | 55000            | M1342280_M_-1.5A--                                                                       | 334                             | 90L           |
| 4.4             | 323.18  | 3076             | 3.15              | 55000            | M1342300_M_-1.5A--                                                                       | 334                             | 90L           |
| 3.9             | 370.11  | 3522             | 2.75              | 55000            | M1342360_M_-1.5A--                                                                       | 334                             | 90L           |
| 3.4             | 418.46  | 3982             | 2.44              | 55000            | M1342400_M_-1.5A--                                                                       | 334                             | 90L           |
| 3.0             | 482.96  | 4596             | 2.11              | 55000            | M1342450_M_-1.5A--                                                                       | 334                             | 90L           |
| 2.6             | 546.05  | 5197             | 1.87              | 55000            | M1342500_M_-1.5A--                                                                       | 334                             | 90L           |
| 2.2             | 664.21  | 6321             | 1.53              | 55000            | M1342650_M_-1.5A--                                                                       | 334                             | 90L           |
| 2.0             | 729.13  | 6939             | 1.40              | 55000            | M1342730_M_-1.5A--                                                                       | 334                             | 90L           |
| 1.7             | 860.03  | 8185             | 1.19              | 55000            | M1342860_M_-1.5A--                                                                       | 334                             | 90L           |
| 1.4             | 997.11  | 9489             | 1.02              | 55000            | M134210C_M_-1.5A--                                                                       | 334                             | 90L           |
| 1.3             | 1067.83 | 10162            | 0.95              | 55000            | M134211C_M_-1.5A--                                                                       | 334                             | 90L           |
| 3.5             | 405.06  | 3855             | 3.37              | 68000            | M1442400_M_-1.5A--                                                                       | 430                             | 90L           |
| 3.1             | 459.33  | 4371             | 2.97              | 68000            | M1442450_M_-1.5A--                                                                       | 430                             | 90L           |
| 2.8             | 506.63  | 4821             | 2.70              | 68000            | M1442500_M_-1.5A--                                                                       | 430                             | 90L           |
| 2.2             | 656.00  | 6243             | 2.08              | 68000            | M1442650_M_-1.5A--                                                                       | 430                             | 90L           |
| 1.9             | 754.34  | 7179             | 1.81              | 68000            | M1442730_M_-1.5A--                                                                       | 430                             | 90L           |
| 1.7             | 852.89  | 8117             | 1.60              | 68000            | M1442860_M_-1.5A--                                                                       | 430                             | 90L           |
| 1.4             | 997.48  | 9493             | 1.37              | 68000            | M144210C_M_-1.5A--                                                                       | 430                             | 90L           |
| 1.2             | 1156.47 | 11006            | 1.18              | 68000            | M144211C_M_-1.5A--                                                                       | 430                             | 90L           |
| 1.1             | 1291.58 | 12291            | 1.06              | 68000            | M144213C_M_-1.5A--                                                                       | 430                             | 90L           |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**1.5 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 251             | 3.75  | 56               | 1.21              | 1379             | M01223.6_M_-1.5C--                                                                                                       | 51                              | 100L          |
| 185             | 5.07  | 76               | 1.00              | 1441             | M01225.0_M_-1.5C--                                                                                                       | 51                              | 100L          |
| 163             | 5.76  | 86               | 0.91              | 1464             | M01225.6_M_-1.5C--                                                                                                       | 51                              | 100L          |
| 144             | 6.53  | 97               | 0.82              | 1487             | M01226.3_M_-1.5C--                                                                                                       | 51                              | 100L          |
| 262             | 3.59  | 54               | 2.15              | 3383             | M02223.6_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 187             | 5.03  | 75               | 1.74              | 3274             | M02225.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 169             | 5.55  | 83               | 1.62              | 3300             | M02225.6_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 149             | 6.30  | 94               | 1.47              | 3400             | M02226.3_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 118             | 8.00  | 119              | 1.21              | 3524             | M02228.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 103             | 9.09  | 136              | 1.11              | 3814             | M02229.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 84              | 11.15 | 167              | 0.95              | 3977             | M022211_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 76              | 12.37 | 185              | 0.87              | 3937             | M022212_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 262             | 3.59  | 54               | 2.50              | 2920             | M03223.6_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 187             | 5.03  | 75               | 2.04              | 2725             | M03225.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 169             | 5.55  | 83               | 1.92              | 2664             | M03225.6_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 149             | 6.30  | 94               | 1.78              | 2589             | M03226.3_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 118             | 8.00  | 119              | 1.52              | 2503             | M03228.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 103             | 9.09  | 136              | 1.40              | 2688             | M03229.0_M_-1.5C--                                                                                                       | 53                              | 100L          |
| 84              | 11.15 | 167              | 1.22              | 2974             | M032211_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 76              | 12.37 | 185              | 1.13              | 3132             | M032212_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 67              | 14.05 | 210              | 1.00              | 3310             | M032214_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 59              | 15.97 | 239              | 0.88              | 3234             | M032216_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 53              | 17.58 | 263              | 0.80              | 3103             | M032218_M_-1.5C--                                                                                                        | 53                              | 100L          |
| 187             | 5.04  | 75               | 3.61              | 5978             | M04225.0_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 166             | 5.65  | 84               | 3.39              | 6039             | M04225.6_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 148             | 6.34  | 95               | 3.11              | 6003             | M04226.3_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 117             | 8.05  | 120              | 2.58              | 6315             | M04228.0_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 103             | 9.13  | 136              | 2.34              | 6467             | M04229.0_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 86              | 10.89 | 163              | 2.05              | 6763             | M042211_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 75              | 12.54 | 187              | 1.80              | 7075             | M042212_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 64              | 14.58 | 218              | 1.56              | 7200             | M042214_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 58              | 16.31 | 244              | 1.40              | 7200             | M042216_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 54              | 17.39 | 260              | 1.31              | 7200             | M042218_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 46              | 20.61 | 308              | 1.10              | 7200             | M042220_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 43              | 22.00 | 329              | 1.03              | 7157             | M042222_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 34              | 27.30 | 408              | 0.83              | 6989             | M042228_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 117             | 8.05  | 120              | 3.74              | 5770             | M05228.0_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 103             | 9.13  | 136              | 3.30              | 5873             | M05229.0_M_-1.5C--                                                                                                       | 63                              | 100L          |
| 86              | 10.89 | 163              | 2.77              | 6073             | M052211_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 75              | 12.54 | 187              | 2.28              | 6274             | M052212_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 64              | 14.58 | 218              | 2.07              | 6575             | M052214_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 58              | 16.31 | 244              | 1.85              | 6783             | M052216_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 54              | 17.39 | 260              | 1.73              | 6895             | M052218_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 46              | 20.61 | 308              | 1.46              | 7111             | M052220_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 43              | 22.00 | 329              | 1.37              | 7039             | M052222_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 34              | 27.30 | 408              | 1.10              | 6702             | M052228_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 29              | 32.19 | 481              | 0.94              | 6761             | M052232_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 27              | 35.25 | 526              | 0.85              | 6674             | M052232_M_-1.5C--                                                                                                        | 63                              | 100L          |
| 70              | 13.48 | 201              | 3.10              | 7200             | M062212_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 61              | 15.52 | 232              | 2.70              | 7200             | M062214_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 52              | 18.05 | 270              | 2.32              | 7200             | M062216_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 47              | 20.20 | 302              | 2.07              | 7200             | M062218_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 44              | 21.53 | 322              | 1.94              | 7200             | M062220_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 37              | 25.51 | 381              | 1.64              | 7200             | M062222_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 35              | 27.24 | 407              | 1.54              | 7200             | M062228_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 28              | 33.80 | 505              | 1.24              | 7200             | M062232_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 24              | 39.86 | 595              | 1.05              | 7200             | M062236_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 22              | 43.64 | 652              | 0.96              | 7200             | M062245_M_-1.5C--                                                                                                        | 68                              | 100L          |
| 66              | 14.34 | 214              | 3.76              | 8921             | M072214_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 58              | 16.26 | 243              | 3.37              | 9235             | M072216_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 52              | 17.94 | 268              | 3.08              | 8986             | M072218_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 46              | 20.54 | 307              | 2.73              | 8565             | M072220_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 40              | 23.23 | 347              | 2.44              | 8208             | M072222_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 35              | 26.93 | 402              | 2.14              | 7784             | M072228_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 29              | 32.12 | 480              | 1.81              | 7269             | M072232_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 27              | 35.17 | 525              | 1.65              | 7004             | M072236_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 22              | 42.21 | 630              | 1.38              | 6455             | M072245_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 19              | 48.56 | 725              | 0.97              | 8319             | M072250_M_-1.5C--                                                                                                        | 77                              | 100L          |
| 16              | 58.95 | 871              | 0.99              | 10000            | M073256_M_-1.5C--                                                                                                        | 78                              | 100L          |
| 15              | 62.83 | 929              | 0.93              | 10000            | M073263_M_-1.5C--                                                                                                        | 78                              | 100L          |



## SELECTION TABLES

**1.5 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 33              | 28.27   | 422              | 3.96              | 15472            | M082228_M_-1.5C--                                                                        | 111                             | 100L          |
| 29              | 32.97   | 492              | 3.45              | 16200            | M082232_M_-1.5C--                                                                        | 111                             | 100L          |
| 26              | 36.21   | 541              | 3.14              | 16200            | M082236_M_-1.5C--                                                                        | 111                             | 100L          |
| 21              | 44.38   | 663              | 2.56              | 16200            | M082245_M_-1.5C--                                                                        | 111                             | 100L          |
| 19              | 48.46   | 724              | 2.35              | 16200            | M082250_M_-1.5C--                                                                        | 111                             | 100L          |
| 17              | 55.80   | 833              | 1.87              | 16200            | M082256_M_-1.5C--                                                                        | 111                             | 100L          |
| 16              | 60.33   | 892              | 1.91              | 16200            | M083256_M_-1.5C--                                                                        | 113                             | 100L          |
| 14              | 66.02   | 976              | 1.74              | 16200            | M083263_M_-1.5C--                                                                        | 113                             | 100L          |
| 13              | 74.69   | 1104             | 1.54              | 16200            | M083271_M_-1.5C--                                                                        | 113                             | 100L          |
| 11              | 84.31   | 1246             | 1.36              | 16200            | M083280_M_-1.5C--                                                                        | 113                             | 100L          |
| 9.2             | 102.20  | 1511             | 1.13              | 16200            | M0832100_M_-1.5C--                                                                       | 113                             | 100L          |
| 7.9             | 119.19  | 1762             | 0.96              | 16200            | M0832112_M_-1.5C--                                                                       | 113                             | 100L          |
| 7.2             | 130.92  | 1935             | 0.88              | 16200            | M0832125_M_-1.5C--                                                                       | 113                             | 100L          |
| 19              | 49.07   | 733              | 3.90              | 20500            | M092250_M_-1.5C--                                                                        | 156                             | 100L          |
| 17              | 55.18   | 824              | 3.22              | 20500            | M092256_M_-1.5C--                                                                        | 156                             | 100L          |
| 16              | 59.07   | 873              | 3.56              | 20500            | M093256_M_-1.5C--                                                                        | 177                             | 100L          |
| 15              | 64.64   | 956              | 3.25              | 20500            | M093263_M_-1.5C--                                                                        | 177                             | 100L          |
| 13              | 73.13   | 1081             | 2.88              | 20500            | M093271_M_-1.5C--                                                                        | 177                             | 100L          |
| 11              | 82.55   | 1220             | 2.55              | 20500            | M093280_M_-1.5C--                                                                        | 177                             | 100L          |
| 9.4             | 100.07  | 1479             | 2.10              | 20500            | M0932100_M_-1.5C--                                                                       | 177                             | 100L          |
| 8.1             | 116.70  | 1725             | 1.80              | 20500            | M0932112_M_-1.5C--                                                                       | 177                             | 100L          |
| 7.3             | 128.19  | 1895             | 1.64              | 20500            | M0932125_M_-1.5C--                                                                       | 177                             | 100L          |
| 6.0             | 157.10  | 2322             | 1.34              | 20500            | M0932160_M_-1.5C--                                                                       | 177                             | 100L          |
| 5.5             | 171.55  | 2536             | 1.23              | 20500            | M0932180_M_-1.5C--                                                                       | 177                             | 100L          |
| 4.8             | 197.54  | 2920             | 1.07              | 20500            | M0932200_M_-1.5C--                                                                       | 177                             | 100L          |
| 4.1             | 231.85  | 3357             | 0.93              | 20500            | M0942225_M_-1.5C--                                                                       | 194                             | 100L          |
| 3.6             | 258.09  | 3736             | 0.83              | 20500            | M0942250_M_-1.5C--                                                                       | 194                             | 100L          |
| 10              | 98.68   | 1459             | 3.28              | 30000            | M1032100_M_-1.5C--                                                                       | 208                             | 100L          |
| 8.2             | 113.96  | 1685             | 2.84              | 30000            | M1032112_M_-1.5C--                                                                       | 208                             | 100L          |
| 7.5             | 125.81  | 1860             | 2.57              | 30000            | M1032125_M_-1.5C--                                                                       | 208                             | 100L          |
| 6.1             | 152.91  | 2260             | 2.11              | 30000            | M1032160_M_-1.5C--                                                                       | 208                             | 100L          |
| 5.4             | 173.08  | 2558             | 1.87              | 30000            | M1032180_M_-1.5C--                                                                       | 208                             | 100L          |
| 4.8             | 194.62  | 2877             | 1.66              | 30000            | M1032200_M_-1.5C--                                                                       | 208                             | 100L          |
| 4.3             | 220.22  | 3188             | 1.50              | 30000            | M1042225_M_-1.5C--                                                                       | 242                             | 100L          |
| 3.7             | 254.58  | 3686             | 1.30              | 30000            | M1042250_M_-1.5C--                                                                       | 242                             | 100L          |
| 3.4             | 278.36  | 4030             | 1.19              | 30000            | M1042280_M_-1.5C--                                                                       | 242                             | 100L          |
| 3.0             | 309.32  | 4478             | 1.07              | 30000            | M1042300_M_-1.5C--                                                                       | 242                             | 100L          |
| 2.6             | 365.56  | 5292             | 0.90              | 30000            | M1042360_M_-1.5C--                                                                       | 242                             | 100L          |
| 5.3             | 176.56  | 2610             | 3.72              | 55000            | M1332180_M_-1.5C--                                                                       | 305                             | 100L          |
| 4.7             | 198.54  | 2935             | 3.21              | 55000            | M1332200_M_-1.5C--                                                                       | 305                             | 100L          |
| 4.2             | 224.86  | 3255             | 2.98              | 55000            | M1342225_M_-1.5C--                                                                       | 335                             | 100L          |
| 3.6             | 258.39  | 3741             | 2.59              | 55000            | M1342250_M_-1.5C--                                                                       | 335                             | 100L          |
| 3.3             | 289.16  | 4186             | 2.32              | 55000            | M1342280_M_-1.5C--                                                                       | 335                             | 100L          |
| 2.9             | 323.18  | 4679             | 2.07              | 55000            | M1342300_M_-1.5C--                                                                       | 335                             | 100L          |
| 2.5             | 370.11  | 5358             | 1.81              | 55000            | M1342360_M_-1.5C--                                                                       | 335                             | 100L          |
| 2.2             | 418.46  | 6058             | 1.60              | 55000            | M1342400_M_-1.5C--                                                                       | 335                             | 100L          |
| 1.9             | 482.96  | 6992             | 1.39              | 55000            | M1342450_M_-1.5C--                                                                       | 335                             | 100L          |
| 1.7             | 546.05  | 7905             | 1.23              | 55000            | M1342500_M_-1.5C--                                                                       | 335                             | 100L          |
| 1.4             | 664.21  | 9616             | 1.01              | 55000            | M1342650_M_-1.5C--                                                                       | 335                             | 100L          |
| 1.3             | 729.13  | 10556            | 0.92              | 55000            | M1342730_M_-1.5C--                                                                       | 335                             | 100L          |
| 3.9             | 244.15  | 3535             | 3.68              | 68000            | M1442250_M_-1.5C--                                                                       | 430                             | 100L          |
| 3.4             | 276.86  | 4008             | 3.24              | 68000            | M1442280_M_-1.5C--                                                                       | 430                             | 100L          |
| 2.8             | 337.68  | 4889             | 2.66              | 68000            | M1442300_M_-1.5C--                                                                       | 430                             | 100L          |
| 2.7             | 352.51  | 5103             | 2.55              | 68000            | M1442360_M_-1.5C--                                                                       | 430                             | 100L          |
| 2.3             | 405.06  | 5864             | 2.22              | 68000            | M1442400_M_-1.5C--                                                                       | 430                             | 100L          |
| 2.0             | 459.33  | 6650             | 1.95              | 68000            | M1442450_M_-1.5C--                                                                       | 430                             | 100L          |
| 1.9             | 506.63  | 7335             | 1.77              | 68000            | M1442500_M_-1.5C--                                                                       | 430                             | 100L          |
| 1.4             | 656.00  | 9497             | 1.37              | 68000            | M1442650_M_-1.5C--                                                                       | 430                             | 100L          |
| 1.2             | 754.34  | 10921            | 1.19              | 68000            | M1442730_M_-1.5C--                                                                       | 430                             | 100L          |
| 1.1             | 852.89  | 12348            | 1.05              | 68000            | M1442860_M_-1.5C--                                                                       | 430                             | 100L          |
| 0.70            | 1337.59 | 19365            | 1.07              | 98000            | M164213C_M_-1.5C--                                                                       | 809                             | 100L          |
| 0.62            | 1504.08 | 21775            | 0.95              | 98000            | M164215C_M_-1.5C--                                                                       | 809                             | 100L          |



## SELECTION TABLES

**2.2 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 387             | 3.75  | 53               | 1.11              | 1380             | M01223.6_M_- 2.2A--                                                                      | 51                              | 100L          |
| 286             | 5.07  | 72               | 0.94              | 1380             | M01225.0_M_- 2.2A--                                                                      | 51                              | 100L          |
| 252             | 5.76  | 82               | 0.87              | 1360             | M01225.6_M_- 2.2A--                                                                      | 51                              | 100L          |
| 404             | 3.59  | 51               | 1.96              | 3690             | M02223.6_M_- 2.2A--                                                                      | 53                              | 100L          |
| 288             | 5.03  | 71               | 1.62              | 3249             | M02225.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 261             | 5.55  | 79               | 1.54              | 3208             | M02225.6_M_- 2.2A--                                                                      | 53                              | 100L          |
| 230             | 6.30  | 89               | 1.42              | 3149             | M02226.3_M_- 2.2A--                                                                      | 53                              | 100L          |
| 181             | 8.00  | 114              | 1.20              | 3040             | M02228.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 160             | 9.09  | 129              | 1.08              | 3047             | M02229.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 130             | 11.15 | 158              | 0.92              | 3120             | M022211_M_- 2.2A--                                                                       | 53                              | 100L          |
| 117             | 12.37 | 176              | 0.84              | 3170             | M022212_M_- 2.2A--                                                                       | 53                              | 100L          |
| 404             | 3.59  | 51               | 2.31              | 2895             | M03223.6_M_- 2.2A--                                                                      | 53                              | 100L          |
| 288             | 5.03  | 71               | 1.89              | 2692             | M03225.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 261             | 5.55  | 79               | 1.78              | 2652             | M03225.6_M_- 2.2A--                                                                      | 53                              | 100L          |
| 230             | 6.30  | 89               | 1.64              | 2577             | M03226.3_M_- 2.2A--                                                                      | 53                              | 100L          |
| 181             | 8.00  | 114              | 1.42              | 2463             | M03228.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 160             | 9.09  | 129              | 1.30              | 2409             | M03229.0_M_- 2.2A--                                                                      | 53                              | 100L          |
| 130             | 11.15 | 158              | 1.13              | 2372             | M032211_M_- 2.2A--                                                                       | 53                              | 100L          |
| 117             | 12.37 | 176              | 1.06              | 2445             | M032212_M_- 2.2A--                                                                       | 53                              | 100L          |
| 103             | 14.05 | 200              | 0.97              | 2612             | M032214_M_- 2.2A--                                                                       | 53                              | 100L          |
| 91              | 15.97 | 227              | 0.90              | 2799             | M032216_M_- 2.2A--                                                                       | 53                              | 100L          |
| 82              | 17.58 | 250              | 0.83              | 2921             | M032218_M_- 2.2A--                                                                       | 53                              | 100L          |
| 405             | 3.58  | 51               | 3.99              | 5497             | M04223.6_M_- 2.2A--                                                                      | 63                              | 100L          |
| 288             | 5.04  | 72               | 3.31              | 5521             | M04225.0_M_- 2.2A--                                                                      | 63                              | 100L          |
| 257             | 5.65  | 80               | 3.10              | 5550             | M04225.6_M_- 2.2A--                                                                      | 63                              | 100L          |
| 229             | 6.34  | 90               | 2.91              | 5623             | M04226.3_M_- 2.2A--                                                                      | 63                              | 100L          |
| 180             | 8.05  | 114              | 2.53              | 5736             | M04228.0_M_- 2.2A--                                                                      | 63                              | 100L          |
| 159             | 9.13  | 130              | 2.31              | 5602             | M04229.0_M_- 2.2A--                                                                      | 63                              | 100L          |
| 133             | 10.89 | 155              | 2.01              | 5885             | M042211_M_- 2.2A--                                                                       | 63                              | 100L          |
| 116             | 12.54 | 178              | 1.80              | 6122             | M042212_M_- 2.2A--                                                                       | 63                              | 100L          |
| 99              | 14.58 | 207              | 1.59              | 6293             | M042214_M_- 2.2A--                                                                       | 63                              | 100L          |
| 89              | 16.31 | 232              | 1.46              | 6495             | M042216_M_- 2.2A--                                                                       | 63                              | 100L          |
| 83              | 17.39 | 247              | 1.38              | 6629             | M042218_M_- 2.2A--                                                                       | 63                              | 100L          |
| 70              | 20.61 | 293              | 1.16              | 6984             | M042220_M_- 2.2A--                                                                       | 63                              | 100L          |
| 66              | 22.00 | 312              | 1.09              | 7126             | M042222_M_- 2.2A--                                                                       | 63                              | 100L          |
| 53              | 27.30 | 388              | 0.88              | 7028             | M042228_M_- 2.2A--                                                                       | 63                              | 100L          |
| 180             | 8.05  | 114              | 3.90              | 5238             | M05228.0_M_- 2.2A--                                                                      | 63                              | 100L          |
| 159             | 9.13  | 130              | 3.47              | 5344             | M05229.0_M_- 2.2A--                                                                      | 63                              | 100L          |
| 133             | 10.89 | 155              | 2.91              | 5466             | M052211_M_- 2.2A--                                                                       | 63                              | 100L          |
| 116             | 12.54 | 178              | 2.39              | 5537             | M052212_M_- 2.2A--                                                                       | 63                              | 100L          |
| 99              | 14.58 | 207              | 2.17              | 5685             | M052214_M_- 2.2A--                                                                       | 63                              | 100L          |
| 89              | 16.31 | 232              | 1.94              | 5820             | M052216_M_- 2.2A--                                                                       | 63                              | 100L          |
| 83              | 17.39 | 247              | 1.82              | 5875             | M052218_M_- 2.2A--                                                                       | 63                              | 100L          |
| 70              | 20.61 | 293              | 1.54              | 6207             | M052220_M_- 2.2A--                                                                       | 63                              | 100L          |
| 66              | 22.00 | 312              | 1.44              | 6319             | M052222_M_- 2.2A--                                                                       | 63                              | 100L          |
| 53              | 27.30 | 388              | 1.16              | 6699             | M052228_M_- 2.2A--                                                                       | 63                              | 100L          |
| 45              | 32.19 | 457              | 0.98              | 6798             | M052232_M_- 2.2A--                                                                       | 63                              | 100L          |
| 41              | 35.25 | 501              | 0.90              | 6711             | M052236_M_- 2.2A--                                                                       | 63                              | 100L          |
| 108             | 13.48 | 191              | 3.20              | 7200             | M062212_M_- 2.2A--                                                                       | 68                              | 100L          |
| 93              | 15.52 | 220              | 2.40              | 7200             | M062214_M_- 2.2A--                                                                       | 68                              | 100L          |
| 80              | 18.05 | 256              | 2.33              | 7200             | M062216_M_- 2.2A--                                                                       | 68                              | 100L          |
| 72              | 20.20 | 287              | 2.18              | 7200             | M062218_M_- 2.2A--                                                                       | 68                              | 100L          |
| 67              | 21.53 | 306              | 2.04              | 7200             | M062220_M_- 2.2A--                                                                       | 68                              | 100L          |
| 57              | 25.51 | 362              | 1.73              | 7200             | M062222_M_- 2.2A--                                                                       | 68                              | 100L          |
| 53              | 27.24 | 387              | 1.62              | 7200             | M062228_M_- 2.2A--                                                                       | 68                              | 100L          |
| 43              | 33.80 | 480              | 1.30              | 7200             | M062232_M_- 2.2A--                                                                       | 68                              | 100L          |
| 36              | 39.86 | 566              | 1.10              | 7200             | M062236_M_- 2.2A--                                                                       | 68                              | 100L          |
| 33              | 43.64 | 620              | 1.01              | 7200             | M062245_M_- 2.2A--                                                                       | 68                              | 100L          |
| 101             | 14.34 | 204              | 3.74              | 8331             | M072214_M_- 2.2A--                                                                       | 77                              | 100L          |
| 89              | 16.26 | 231              | 3.40              | 8633             | M072216_M_- 2.2A--                                                                       | 77                              | 100L          |
| 81              | 17.94 | 255              | 3.12              | 9020             | M072218_M_- 2.2A--                                                                       | 77                              | 100L          |
| 71              | 20.54 | 292              | 2.76              | 8833             | M072220_M_- 2.2A--                                                                       | 77                              | 100L          |
| 62              | 23.23 | 330              | 2.46              | 8647             | M072222_M_- 2.2A--                                                                       | 77                              | 100L          |
| 54              | 26.93 | 382              | 2.16              | 8641             | M072228_M_- 2.2A--                                                                       | 77                              | 100L          |
| 45              | 32.12 | 456              | 1.84              | 8128             | M072232_M_- 2.2A--                                                                       | 77                              | 100L          |
| 41              | 35.17 | 499              | 1.70              | 7885             | M072236_M_- 2.2A--                                                                       | 77                              | 100L          |
| 34              | 42.21 | 599              | 1.44              | 7380             | M072245_M_- 2.2A--                                                                       | 77                              | 100L          |
| 30              | 48.56 | 690              | 1.02              | 8614             | M072250_M_- 2.2A--                                                                       | 77                              | 100L          |
| 25              | 58.95 | 829              | 0.91              | 9897             | M073256_M_- 2.2A--                                                                       | 78                              | 100L          |
| 23              | 62.83 | 883              | 0.87              | 9850             | M073263_M_- 2.2A--                                                                       | 78                              | 100L          |



## SELECTION TABLES

**2.2 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i       | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|---------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio   | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 44              | 32.97   | 468              | 3.47              | 11341            | M082232_M_-__2.2A--                                                                                                      | 111                             | 100L          |
| 40              | 36.21   | 514              | 3.21              | 11937            | M082236_M_-__2.2A--                                                                                                      | 111                             | 100L          |
| 33              | 44.38   | 630              | 2.68              | 13710            | M082245_M_-__2.2A--                                                                                                      | 111                             | 100L          |
| 30              | 48.46   | 688              | 2.46              | 14902            | M082250_M_-__2.2A--                                                                                                      | 111                             | 100L          |
| 26              | 55.80   | 792              | 1.95              | 16200            | M082256_M_-__2.2A--                                                                                                      | 111                             | 100L          |
| 24              | 60.33   | 848              | 1.89              | 16200            | M083256_M_-__2.2A--                                                                                                      | 113                             | 100L          |
| 22              | 66.02   | 928              | 1.78              | 16200            | M083263_M_-__2.2A--                                                                                                      | 113                             | 100L          |
| 19              | 74.69   | 1050             | 1.62              | 16200            | M083271_M_-__2.2A--                                                                                                      | 113                             | 100L          |
| 17              | 84.31   | 1185             | 1.43              | 16200            | M083280_M_-__2.2A--                                                                                                      | 113                             | 100L          |
| 14              | 102.20  | 1436             | 1.18              | 16200            | M0832100_M_-__2.2A--                                                                                                     | 113                             | 100L          |
| 12              | 119.19  | 1675             | 1.01              | 16200            | M0832112_M_-__2.2A--                                                                                                     | 113                             | 100L          |
| 11              | 130.92  | 1840             | 0.92              | 16200            | M0832125_M_-__2.2A--                                                                                                     | 113                             | 100L          |
| 26              | 55.18   | 784              | 3.38              | 20500            | M092256_M_-__2.2A--                                                                                                      | 156                             | 100L          |
| 25              | 59.07   | 830              | 3.75              | 20500            | M093256_M_-__2.2A--                                                                                                      | 171                             | 100L          |
| 22              | 64.64   | 909              | 3.42              | 20500            | M093263_M_-__2.2A--                                                                                                      | 171                             | 100L          |
| 20              | 73.13   | 1028             | 3.03              | 20500            | M093271_M_-__2.2A--                                                                                                      | 171                             | 100L          |
| 18              | 82.55   | 1160             | 2.68              | 20500            | M093280_M_-__2.2A--                                                                                                      | 171                             | 100L          |
| 14              | 100.07  | 1406             | 2.21              | 20500            | M0932100_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 12              | 116.70  | 1640             | 1.90              | 20500            | M0932112_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 11              | 128.19  | 1802             | 1.73              | 20500            | M0932125_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 9.2             | 157.10  | 2208             | 1.41              | 20500            | M0932160_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 8.5             | 171.55  | 2411             | 1.29              | 20500            | M0932180_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 7.3             | 197.54  | 2776             | 1.12              | 20500            | M0932200_M_-__2.2A--                                                                                                     | 171                             | 100L          |
| 6.3             | 231.85  | 3191             | 0.97              | 20500            | M0942225_M_-__2.2A--                                                                                                     | 194                             | 100L          |
| 5.6             | 258.09  | 3553             | 0.88              | 20500            | M0942250_M_-__2.2A--                                                                                                     | 194                             | 100L          |
| 15              | 98.68   | 1387             | 3.45              | 30000            | M1032100_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 13              | 113.96  | 1602             | 2.98              | 30000            | M1032112_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 12              | 125.81  | 1768             | 2.70              | 30000            | M1032125_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 9.5             | 152.91  | 2149             | 2.22              | 30000            | M1032160_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 8.4             | 173.08  | 2433             | 1.96              | 30000            | M1032180_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 7.5             | 194.62  | 2735             | 1.75              | 30000            | M1032200_M_-__2.2A--                                                                                                     | 208                             | 100L          |
| 6.6             | 220.22  | 3031             | 1.58              | 30000            | M1042225_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 5.7             | 254.58  | 3504             | 1.36              | 30000            | M1042250_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 5.2             | 278.36  | 3832             | 1.25              | 30000            | M1042280_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 4.7             | 309.32  | 4258             | 1.12              | 30000            | M1042300_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 4.0             | 365.56  | 5032             | 0.95              | 30000            | M1042360_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 3.6             | 398.71  | 5488             | 0.87              | 30000            | M1042400_M_-__2.2A--                                                                                                     | 242                             | 100L          |
| 6.4             | 224.86  | 3095             | 3.13              | 55000            | M1342225_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 5.6             | 258.39  | 3557             | 2.73              | 55000            | M1342250_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 5.0             | 289.16  | 3980             | 2.44              | 55000            | M1342280_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 4.5             | 323.18  | 4449             | 2.18              | 55000            | M1342300_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 3.9             | 370.11  | 5095             | 1.90              | 55000            | M1342360_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 3.5             | 418.46  | 5760             | 1.68              | 55000            | M1342400_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 3.0             | 482.96  | 6648             | 1.46              | 55000            | M1342450_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 2.7             | 546.05  | 7516             | 1.29              | 55000            | M1342500_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 2.2             | 664.21  | 9143             | 1.06              | 55000            | M1342650_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 2.0             | 729.13  | 10037            | 0.97              | 55000            | M1342730_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 1.7             | 860.03  | 11838            | 0.82              | 55000            | M1342860_M_-__2.2A--                                                                                                     | 346                             | 100L          |
| 5.9             | 244.15  | 3361             | 3.87              | 68000            | M1442250_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 5.2             | 276.86  | 3811             | 3.41              | 68000            | M1442280_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 4.3             | 337.68  | 4648             | 2.80              | 68000            | M1442300_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 4.1             | 352.51  | 4852             | 2.68              | 68000            | M1442360_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 3.6             | 405.06  | 5576             | 2.33              | 68000            | M1442400_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 3.2             | 459.33  | 6323             | 2.06              | 68000            | M1442450_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 2.9             | 506.63  | 6974             | 1.86              | 68000            | M1442500_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 2.2             | 656.00  | 9030             | 1.44              | 68000            | M1442650_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 1.9             | 754.34  | 10384            | 1.25              | 68000            | M1442730_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 1.7             | 852.89  | 11740            | 1.11              | 68000            | M1442860_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 1.5             | 997.50  | 13731            | 0.95              | 68000            | M144210C_M_-__2.2A--                                                                                                     | 442                             | 100L          |
| 1.1             | 1337.59 | 18412            | 1.12              | 98000            | M164213C_M_-__2.2A--                                                                                                     | 809                             | 100L          |
| 0.96            | 1504.08 | 20704            | 1.00              | 98000            | M164215C_M_-__2.2A--                                                                                                     | 809                             | 100L          |



## SELECTION TABLES

**2.2 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 262             | 3.59  | 79               | 1.46              | 3326             | M02223.6_M_- 2.2C--                                                                      | 59                              | 112M          |
| 187             | 5.03  | 110              | 1.19              | 3170             | M02225.0_M_- 2.2C--                                                                      | 59                              | 112M          |
| 169             | 5.55  | 122              | 1.10              | 3113             | M02225.6_M_- 2.2C--                                                                      | 59                              | 112M          |
| 149             | 6.30  | 138              | 1.00              | 3130             | M02226.3_M_- 2.2C--                                                                      | 59                              | 112M          |
| 118             | 8.00  | 175              | 0.83              | 3193             | M02228.0_M_- 2.2C--                                                                      | 59                              | 112M          |
| 262             | 3.59  | 79               | 1.70              | 2799             | M03223.6_M_- 2.2C--                                                                      | 59                              | 112M          |
| 187             | 5.03  | 110              | 1.39              | 2613             | M03225.0_M_- 2.2C--                                                                      | 59                              | 112M          |
| 169             | 5.55  | 122              | 1.31              | 2554             | M03225.6_M_- 2.2C--                                                                      | 59                              | 112M          |
| 149             | 6.30  | 138              | 1.21              | 2482             | M03226.3_M_- 2.2C--                                                                      | 59                              | 112M          |
| 118             | 8.00  | 175              | 1.04              | 2400             | M03228.0_M_- 2.2C--                                                                      | 59                              | 112M          |
| 103             | 9.09  | 199              | 0.95              | 2577             | M03229.0_M_- 2.2C--                                                                      | 59                              | 112M          |
| 263             | 3.58  | 78               | 3.02              | 5590             | M04223.6_M_- 2.2C--                                                                      | 69                              | 112M          |
| 187             | 5.04  | 110              | 2.51              | 5743             | M04225.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 166             | 5.65  | 124              | 2.35              | 5800             | M04225.6_M_- 2.2C--                                                                      | 69                              | 112M          |
| 148             | 6.34  | 139              | 2.15              | 5766             | M04226.3_M_- 2.2C--                                                                      | 69                              | 112M          |
| 117             | 8.05  | 176              | 1.79              | 6066             | M04228.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 103             | 9.13  | 200              | 1.62              | 6211             | M04229.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 86              | 10.89 | 239              | 1.43              | 6501             | M042211_M_- 2.2C--                                                                       | 69                              | 112M          |
| 75              | 12.54 | 275              | 1.23              | 6783             | M042212_M_- 2.2C--                                                                       | 69                              | 112M          |
| 64              | 14.58 | 319              | 1.08              | 7130             | M042214_M_- 2.2C--                                                                       | 69                              | 112M          |
| 58              | 16.31 | 357              | 0.97              | 7106             | M042216_M_- 2.2C--                                                                       | 69                              | 112M          |
| 54              | 17.39 | 381              | 0.90              | 7048             | M042218_M_- 2.2C--                                                                       | 69                              | 112M          |
| 263             | 3.58  | 78               | 3.80              | 4737             | M05223.6_M_- 2.2C--                                                                      | 69                              | 112M          |
| 187             | 5.04  | 110              | 3.53              | 5112             | M05225.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 166             | 5.65  | 124              | 3.39              | 5227             | M05225.6_M_- 2.2C--                                                                      | 69                              | 112M          |
| 148             | 6.34  | 139              | 3.03              | 5321             | M05226.3_M_- 2.2C--                                                                      | 69                              | 112M          |
| 117             | 8.05  | 176              | 2.60              | 5543             | M05228.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 103             | 9.13  | 200              | 2.29              | 5641             | M05229.0_M_- 2.2C--                                                                      | 69                              | 112M          |
| 86              | 10.89 | 239              | 1.92              | 5834             | M052211_M_- 2.2C--                                                                       | 69                              | 112M          |
| 75              | 12.54 | 275              | 1.58              | 6026             | M052212_M_- 2.2C--                                                                       | 69                              | 112M          |
| 64              | 14.58 | 319              | 1.43              | 6314             | M052214_M_- 2.2C--                                                                       | 69                              | 112M          |
| 58              | 16.31 | 357              | 1.29              | 6520             | M052216_M_- 2.2C--                                                                       | 69                              | 112M          |
| 54              | 17.39 | 381              | 1.21              | 6628             | M052218_M_- 2.2C--                                                                       | 69                              | 112M          |
| 46              | 20.61 | 451              | 1.02              | 6835             | M052220_M_- 2.2C--                                                                       | 69                              | 112M          |
| 151             | 6.24  | 137              | 3.53              | 7200             | M06225.6_M_- 2.2C--                                                                      | 74                              | 112M          |
| 134             | 6.99  | 153              | 3.39              | 7200             | M06226.3_M_- 2.2C--                                                                      | 74                              | 112M          |
| 120             | 7.85  | 172              | 3.03              | 7200             | M06228.0_M_- 2.2C--                                                                      | 74                              | 112M          |
| 94              | 9.97  | 218              | 2.77              | 7200             | M06229.0_M_- 2.2C--                                                                      | 74                              | 112M          |
| 83              | 11.30 | 248              | 2.50              | 7200             | M062211_M_- 2.2C--                                                                       | 74                              | 112M          |
| 70              | 13.48 | 295              | 2.15              | 7200             | M062212_M_- 2.2C--                                                                       | 74                              | 112M          |
| 61              | 15.52 | 340              | 1.84              | 7200             | M062214_M_- 2.2C--                                                                       | 74                              | 112M          |
| 52              | 18.05 | 395              | 1.58              | 7200             | M062216_M_- 2.2C--                                                                       | 74                              | 112M          |
| 47              | 20.20 | 442              | 1.44              | 7200             | M062218_M_- 2.2C--                                                                       | 74                              | 112M          |
| 44              | 21.53 | 472              | 1.35              | 7200             | M062220_M_- 2.2C--                                                                       | 74                              | 112M          |
| 37              | 25.51 | 559              | 1.14              | 7200             | M062222_M_- 2.2C--                                                                       | 74                              | 112M          |
| 35              | 27.24 | 597              | 1.07              | 7200             | M062228_M_- 2.2C--                                                                       | 74                              | 112M          |
| 28              | 33.80 | 740              | 0.86              | 7082             | M062232_M_- 2.2C--                                                                       | 74                              | 112M          |
| 83              | 11.35 | 249              | 3.18              | 8620             | M072211_M_- 2.2C--                                                                       | 83                              | 112M          |
| 75              | 12.48 | 273              | 2.96              | 8440             | M072212_M_- 2.2C--                                                                       | 83                              | 112M          |
| 66              | 14.34 | 314              | 2.63              | 8375             | M072214_M_- 2.2C--                                                                       | 83                              | 112M          |
| 58              | 16.26 | 356              | 2.35              | 8876             | M072216_M_- 2.2C--                                                                       | 83                              | 112M          |
| 52              | 17.94 | 393              | 2.15              | 8638             | M072218_M_- 2.2C--                                                                       | 83                              | 112M          |
| 46              | 20.54 | 450              | 1.90              | 8231             | M072220_M_- 2.2C--                                                                       | 83                              | 112M          |
| 40              | 23.23 | 509              | 1.70              | 7887             | M072222_M_- 2.2C--                                                                       | 83                              | 112M          |
| 35              | 26.93 | 590              | 1.49              | 7481             | M072228_M_- 2.2C--                                                                       | 83                              | 112M          |
| 29              | 32.12 | 704              | 1.26              | 6985             | M072232_M_- 2.2C--                                                                       | 83                              | 112M          |
| 27              | 35.17 | 770              | 1.16              | 6739             | M072236_M_- 2.2C--                                                                       | 83                              | 112M          |
| 22              | 42.21 | 925              | 0.97              | 6209             | M072245_M_- 2.2C--                                                                       | 83                              | 112M          |
| 51              | 18.26 | 400              | 3.48              | 13076            | M082218_M_- 2.2C--                                                                       | 117                             | 112M          |
| 45              | 20.66 | 453              | 3.30              | 12772            | M082220_M_- 2.2C--                                                                       | 117                             | 112M          |
| 40              | 23.32 | 511              | 3.08              | 12788            | M082222_M_- 2.2C--                                                                       | 117                             | 112M          |
| 33              | 28.27 | 619              | 2.73              | 14854            | M082228_M_- 2.2C--                                                                       | 117                             | 112M          |
| 29              | 32.97 | 722              | 2.35              | 15822            | M082232_M_- 2.2C--                                                                       | 117                             | 112M          |
| 26              | 36.21 | 793              | 2.14              | 16200            | M082236_M_- 2.2C--                                                                       | 117                             | 112M          |
| 21              | 44.38 | 972              | 1.75              | 16200            | M082245_M_- 2.2C--                                                                       | 117                             | 112M          |
| 19              | 48.46 | 1061             | 1.60              | 16200            | M082250_M_- 2.2C--                                                                       | 117                             | 112M          |
| 17              | 55.80 | 1222             | 1.30              | 16200            | M082256_M_- 2.2C--                                                                       | 117                             | 112M          |
| 16              | 60.33 | 1308             | 1.30              | 16200            | M083256_M_- 2.2C--                                                                       | 121                             | 112M          |
| 14              | 66.02 | 1431             | 1.19              | 16200            | M083263_M_- 2.2C--                                                                       | 121                             | 112M          |
| 13              | 74.69 | 1619             | 1.05              | 16200            | M083271_M_- 2.2C--                                                                       | 121                             | 112M          |
| 11              | 84.31 | 1828             | 0.93              | 16200            | M083280_M_- 2.2C--                                                                       | 121                             | 112M          |



## SELECTION TABLES

**2.2 kW**  
6 POLE

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 22              | 43.35  | 950              | 3.28              | 19256            | M092245_M_-__2.2C--                                                                                                      | 162                             | 112M          |
| 19              | 49.07  | 1075             | 2.66              | 20500            | M092250_M_-__2.2C--                                                                                                      | 162                             | 112M          |
| 17              | 55.18  | 1209             | 2.19              | 20500            | M092256_M_-__2.2C--                                                                                                      | 162                             | 112M          |
| 16              | 59.07  | 1281             | 2.43              | 20500            | M093256_M_-__2.2C--                                                                                                      | 177                             | 112M          |
| 15              | 64.64  | 1401             | 2.22              | 20500            | M093263_M_-__2.2C--                                                                                                      | 177                             | 112M          |
| 13              | 73.13  | 1585             | 1.96              | 20500            | M093271_M_-__2.2C--                                                                                                      | 177                             | 112M          |
| 11              | 82.55  | 1790             | 1.74              | 20500            | M093280_M_-__2.2C--                                                                                                      | 177                             | 112M          |
| 9.4             | 100.07 | 2170             | 1.43              | 20500            | M0932100_M_-__2.2C--                                                                                                     | 177                             | 112M          |
| 8.1             | 116.70 | 2530             | 1.23              | 20500            | M0932112_M_-__2.2C--                                                                                                     | 177                             | 112M          |
| 7.3             | 128.19 | 2779             | 1.12              | 20500            | M0932125_M_-__2.2C--                                                                                                     | 177                             | 112M          |
| 6.0             | 157.10 | 3406             | 0.91              | 20500            | M0932160_M_-__2.2C--                                                                                                     | 177                             | 112M          |
| 5.5             | 171.55 | 3719             | 0.84              | 20500            | M0932180_M_-__2.2C--                                                                                                     | 177                             | 112M          |
| 18              | 51.49  | 1128             | 3.43              | 30000            | M102256_M_-__2.2C--                                                                                                      | 191                             | 112M          |
| 16              | 57.63  | 1249             | 3.83              | 30000            | M103256_M_-__2.2C--                                                                                                      | 214                             | 112M          |
| 14              | 65.24  | 1414             | 3.38              | 30000            | M103263_M_-__2.2C--                                                                                                      | 214                             | 112M          |
| 13              | 72.62  | 1574             | 3.04              | 30000            | M103271_M_-__2.2C--                                                                                                      | 214                             | 112M          |
| 12              | 80.68  | 1749             | 2.73              | 30000            | M103280_M_-__2.2C--                                                                                                      | 214                             | 112M          |
| 10              | 98.68  | 2139             | 2.23              | 30000            | M1032100_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 8.2             | 113.96 | 2471             | 1.93              | 30000            | M1032112_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 7.5             | 125.81 | 2728             | 1.75              | 30000            | M1032125_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 6.1             | 152.91 | 3315             | 1.44              | 30000            | M1032160_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 5.4             | 173.08 | 3752             | 1.27              | 30000            | M1032180_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 4.8             | 194.62 | 4219             | 1.13              | 30000            | M1032200_M_-__2.2C--                                                                                                     | 214                             | 112M          |
| 4.3             | 220.22 | 4676             | 1.02              | 30000            | M1042225_M_-__2.2C--                                                                                                     | 248                             | 112M          |
| 8.2             | 115.08 | 2495             | 3.89              | 55000            | M1332112_M_-__2.2C--                                                                                                     | 311                             | 112M          |
| 7.1             | 132.56 | 2874             | 3.38              | 55000            | M1332125_M_-__2.2C--                                                                                                     | 311                             | 112M          |
| 6.1             | 153.81 | 3335             | 2.91              | 55000            | M1332160_M_-__2.2C--                                                                                                     | 311                             | 112M          |
| 5.2             | 179.28 | 3887             | 2.50              | 55000            | M1332180_M_-__2.2C--                                                                                                     | 311                             | 112M          |
| 4.9             | 192.61 | 4176             | 2.25              | 55000            | M1332200_M_-__2.2C--                                                                                                     | 311                             | 112M          |
| 4.2             | 224.86 | 4775             | 2.03              | 55000            | M1342225_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 3.6             | 258.39 | 5487             | 1.77              | 55000            | M1342250_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 3.3             | 289.16 | 6140             | 1.58              | 55000            | M1342280_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 2.9             | 323.18 | 6862             | 1.41              | 55000            | M1342300_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 2.5             | 370.11 | 7859             | 1.23              | 55000            | M1342360_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 2.2             | 418.46 | 8885             | 1.09              | 55000            | M1342400_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 1.9             | 482.96 | 10255            | 0.95              | 55000            | M1342450_M_-__2.2C--                                                                                                     | 352                             | 112M          |
| 5.9             | 158.58 | 3438             | 3.78              | 68000            | M1432160_M_-__2.2C--                                                                                                     | 405                             | 112M          |
| 5.1             | 184.83 | 4007             | 3.32              | 68000            | M1432180_M_-__2.2C--                                                                                                     | 405                             | 112M          |
| 4.7             | 198.58 | 4305             | 3.09              | 68000            | M1432200_M_-__2.2C--                                                                                                     | 405                             | 112M          |
| 4.1             | 228.38 | 4849             | 2.68              | 68000            | M1442225_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 3.9             | 244.15 | 5184             | 2.51              | 68000            | M1442250_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 3.4             | 276.86 | 5879             | 2.21              | 68000            | M1442280_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 2.8             | 337.68 | 7170             | 1.81              | 68000            | M1442300_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 2.7             | 352.51 | 7485             | 1.74              | 68000            | M1442360_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 2.3             | 405.06 | 8601             | 1.51              | 68000            | M1442400_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 2.0             | 459.33 | 9753             | 1.33              | 68000            | M1442450_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 1.9             | 506.63 | 10758            | 1.21              | 68000            | M1442500_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 1.4             | 656.00 | 13929            | 0.93              | 68000            | M1442650_M_-__2.2C--                                                                                                     | 448                             | 112M          |
| 1.2             | 754.34 | 16017            | 0.81              | 68000            | M1442730_M_-__2.2C--                                                                                                     | 448                             | 112M          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**3.0 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 404             | 3.59  | 70               | 1.46              | 3294             | M02223.6_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 288             | 5.03  | 97               | 1.21              | 3145             | M02225.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 261             | 5.55  | 107              | 1.15              | 3107             | M02225.6_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 230             | 6.30  | 122              | 1.06              | 3100             | M02226.3_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 181             | 8.00  | 155              | 0.89              | 2942             | M02228.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 160             | 9.09  | 176              | 0.81              | 2951             | M02229.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 404             | 3.59  | 70               | 1.73              | 2804             | M03223.6_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 288             | 5.03  | 97               | 1.41              | 2607             | M03225.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 261             | 5.55  | 107              | 1.33              | 2569             | M03225.6_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 230             | 6.30  | 122              | 1.23              | 2496             | M03226.3_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 181             | 8.00  | 155              | 1.06              | 2385             | M03228.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 160             | 9.09  | 176              | 0.97              | 2332             | M03229.0_M_-__3.0A--                                                                                                     | 53                              | 100L          |
| 130             | 11.15 | 216              | 0.84              | 2296             | M032211_M_-__3.0A--                                                                                                      | 53                              | 100L          |
| 405             | 3.58  | 69               | 2.93              | 5312             | M04223.6_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 288             | 5.04  | 98               | 2.43              | 5336             | M04225.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 257             | 5.65  | 109              | 2.28              | 5364             | M04225.6_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 229             | 6.34  | 123              | 2.13              | 5435             | M04226.3_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 180             | 8.05  | 156              | 1.85              | 5544             | M04228.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 159             | 9.13  | 177              | 1.69              | 5414             | M04229.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 133             | 10.89 | 211              | 1.47              | 5688             | M042211_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 116             | 12.54 | 243              | 1.32              | 5917             | M042212_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 99              | 14.58 | 282              | 1.17              | 6082             | M042214_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 89              | 16.31 | 316              | 1.07              | 6277             | M042216_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 83              | 17.39 | 337              | 1.01              | 6407             | M042218_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 288             | 5.04  | 98               | 3.91              | 4671             | M05225.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 257             | 5.65  | 109              | 3.74              | 4775             | M05225.6_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 229             | 6.34  | 123              | 3.36              | 4857             | M05226.3_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 180             | 8.05  | 156              | 2.86              | 5063             | M05228.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 159             | 9.13  | 177              | 2.55              | 5164             | M05229.0_M_-__3.0A--                                                                                                     | 63                              | 100L          |
| 133             | 10.89 | 211              | 2.13              | 5283             | M052211_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 116             | 12.54 | 243              | 1.75              | 5351             | M052212_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 99              | 14.58 | 282              | 1.59              | 5495             | M052214_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 89              | 16.31 | 316              | 1.42              | 5625             | M052216_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 83              | 17.39 | 337              | 1.34              | 5678             | M052218_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 70              | 20.61 | 399              | 1.13              | 5999             | M052220_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 66              | 22.00 | 426              | 1.06              | 6107             | M052222_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 53              | 27.30 | 529              | 0.85              | 6474             | M052228_M_-__3.0A--                                                                                                      | 63                              | 100L          |
| 232             | 6.24  | 121              | 3.91              | 7200             | M06225.6_M_-__3.0A--                                                                                                     | 68                              | 100L          |
| 207             | 6.99  | 135              | 3.77              | 7200             | M06226.3_M_-__3.0A--                                                                                                     | 68                              | 100L          |
| 185             | 7.85  | 152              | 3.37              | 7200             | M06228.0_M_-__3.0A--                                                                                                     | 68                              | 100L          |
| 145             | 9.97  | 193              | 3.08              | 7200             | M06229.0_M_-__3.0A--                                                                                                     | 68                              | 100L          |
| 128             | 11.30 | 219              | 2.76              | 7200             | M062211_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 108             | 13.48 | 261              | 2.35              | 7200             | M062212_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 93              | 15.52 | 301              | 1.76              | 7200             | M062214_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 80              | 18.05 | 350              | 1.71              | 7200             | M062216_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 72              | 20.20 | 391              | 1.60              | 7200             | M062218_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 67              | 21.53 | 417              | 1.50              | 7200             | M062220_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 57              | 25.51 | 494              | 1.27              | 7200             | M062222_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 53              | 27.24 | 527              | 1.18              | 7200             | M062228_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 43              | 33.80 | 654              | 0.95              | 7200             | M062232_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 36              | 39.86 | 772              | 0.81              | 7200             | M062236_M_-__3.0A--                                                                                                      | 68                              | 100L          |
| 155             | 9.34  | 181              | 3.81              | 6059             | M07229.0_M_-__3.0A--                                                                                                     | 77                              | 100L          |
| 128             | 11.35 | 220              | 3.30              | 6330             | M072211_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 116             | 12.48 | 242              | 3.06              | 6469             | M072212_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 101             | 14.34 | 278              | 2.74              | 6670             | M072214_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 89              | 16.26 | 315              | 2.50              | 7000             | M072216_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 81              | 17.94 | 347              | 2.29              | 7360             | M072218_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 71              | 20.54 | 398              | 2.02              | 7888             | M072220_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 62              | 23.23 | 450              | 1.81              | 8357             | M072222_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 54              | 26.93 | 521              | 1.58              | 8351             | M072228_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 45              | 32.12 | 622              | 1.35              | 7855             | M072232_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 41              | 35.17 | 681              | 1.24              | 7621             | M072236_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 34              | 42.21 | 817              | 1.06              | 7133             | M072245_M_-__3.0A--                                                                                                      | 77                              | 100L          |
| 79              | 18.26 | 354              | 3.85              | 9278             | M082218_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 70              | 20.66 | 400              | 3.65              | 9801             | M082220_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 62              | 23.32 | 452              | 3.41              | 10300            | M082222_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 51              | 28.27 | 547              | 2.90              | 10399            | M082228_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 44              | 32.97 | 638              | 2.55              | 10963            | M082232_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 40              | 36.21 | 701              | 2.35              | 11536            | M082236_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 33              | 44.38 | 859              | 1.97              | 13250            | M082245_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 30              | 48.46 | 938              | 1.80              | 14403            | M082250_M_-__3.0A--                                                                                                      | 111                             | 100L          |
| 26              | 55.80 | 1080             | 1.43              | 16200            | M082256_M_-__3.0A--                                                                                                      | 111                             | 100L          |



## SELECTION TABLES

**3.0 kW**

4 POLE

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 24              | 60.33  | 1156             | 1.39              | 16200            | M083256_M - 3.0A--                                                                       | 113                             | 100L          |
| 22              | 66.02  | 1265             | 1.30              | 16200            | M083263_M - 3.0A--                                                                       | 113                             | 100L          |
| 19              | 74.69  | 1431             | 1.19              | 16200            | M083271_M - 3.0A--                                                                       | 113                             | 100L          |
| 17              | 84.31  | 1616             | 1.05              | 16200            | M083280_M - 3.0A--                                                                       | 113                             | 100L          |
| 14              | 102.20 | 1959             | 0.87              | 16200            | M0832100_M - 3.0A--                                                                      | 113                             | 100L          |
| 33              | 43.35  | 839              | 3.65              | 19369            | M092245_M - 3.0A--                                                                       | 156                             | 100L          |
| 30              | 49.07  | 950              | 3.01              | 20500            | M092250_M - 3.0A--                                                                       | 156                             | 100L          |
| 26              | 55.18  | 1068             | 2.48              | 20500            | M092256_M - 3.0A--                                                                       | 156                             | 100L          |
| 25              | 59.07  | 1132             | 2.75              | 20500            | M093256_M - 3.0A--                                                                       | 171                             | 100L          |
| 22              | 64.64  | 1239             | 2.51              | 20500            | M093263_M - 3.0A--                                                                       | 171                             | 100L          |
| 20              | 73.13  | 1402             | 2.22              | 20500            | M093271_M - 3.0A--                                                                       | 171                             | 100L          |
| 18              | 82.55  | 1582             | 1.97              | 20500            | M093280_M - 3.0A--                                                                       | 171                             | 100L          |
| 14              | 100.07 | 1918             | 1.62              | 20500            | M0932100_M - 3.0A--                                                                      | 171                             | 100L          |
| 12              | 116.70 | 2237             | 1.39              | 20500            | M0932112_M - 3.0A--                                                                      | 171                             | 100L          |
| 11              | 128.19 | 2457             | 1.27              | 20500            | M0932125_M - 3.0A--                                                                      | 171                             | 100L          |
| 9               | 157.10 | 3011             | 1.03              | 20500            | M0932160_M - 3.0A--                                                                      | 171                             | 100L          |
| 8               | 171.55 | 3288             | 0.95              | 20500            | M0932180_M - 3.0A--                                                                      | 171                             | 100L          |
| 7               | 197.54 | 3786             | 0.82              | 20500            | M0932200_M - 3.0A--                                                                      | 171                             | 100L          |
| 28              | 51.49  | 997              | 3.88              | 30000            | M102256_M - 3.0A--                                                                       | 185                             | 100L          |
| 22              | 65.24  | 1250             | 3.82              | 30000            | M103263_M - 3.0A--                                                                       | 208                             | 100L          |
| 20              | 72.62  | 1392             | 3.43              | 30000            | M103271_M - 3.0A--                                                                       | 208                             | 100L          |
| 18              | 80.68  | 1546             | 3.09              | 30000            | M103280_M - 3.0A--                                                                       | 208                             | 100L          |
| 15              | 98.68  | 1891             | 2.53              | 30000            | M1032100_M - 3.0A--                                                                      | 208                             | 100L          |
| 13              | 113.96 | 2184             | 2.19              | 30000            | M1032112_M - 3.0A--                                                                      | 208                             | 100L          |
| 12              | 125.81 | 2411             | 1.98              | 30000            | M1032125_M - 3.0A--                                                                      | 208                             | 100L          |
| 9.5             | 152.91 | 2931             | 1.63              | 30000            | M1032160_M - 3.0A--                                                                      | 208                             | 100L          |
| 8.4             | 173.08 | 3317             | 1.44              | 30000            | M1032180_M - 3.0A--                                                                      | 208                             | 100L          |
| 7.5             | 194.62 | 3730             | 1.28              | 30000            | M1032200_M - 3.0A--                                                                      | 208                             | 100L          |
| 6.6             | 220.22 | 4134             | 1.16              | 30000            | M1042225_M - 3.0A--                                                                      | 242                             | 100L          |
| 5.7             | 254.58 | 4779             | 1.00              | 30000            | M1042250_M - 3.0A--                                                                      | 242                             | 100L          |
| 5.2             | 278.36 | 5225             | 0.91              | 30000            | M1042280_M - 3.0A--                                                                      | 242                             | 100L          |
| 4.7             | 309.32 | 5806             | 0.82              | 30000            | M1042300_M - 3.0A--                                                                      | 242                             | 100L          |
| 11              | 132.56 | 2541             | 3.82              | 55000            | M1332125_M - 3.0A--                                                                      | 305                             | 100L          |
| 9.4             | 153.81 | 2948             | 3.29              | 55000            | M1332160_M - 3.0A--                                                                      | 305                             | 100L          |
| 8.1             | 179.28 | 3436             | 2.82              | 55000            | M1332180_M - 3.0A--                                                                      | 305                             | 100L          |
| 7.5             | 192.61 | 3692             | 2.63              | 55000            | M1332200_M - 3.0A--                                                                      | 305                             | 100L          |
| 6.4             | 224.86 | 4221             | 2.30              | 55000            | M1342225_M - 3.0A--                                                                      | 346                             | 100L          |
| 5.6             | 258.39 | 4850             | 2.00              | 55000            | M1342250_M - 3.0A--                                                                      | 346                             | 100L          |
| 5.0             | 289.16 | 5428             | 1.79              | 55000            | M1342280_M - 3.0A--                                                                      | 346                             | 100L          |
| 4.5             | 323.18 | 6066             | 1.60              | 55000            | M1342300_M - 3.0A--                                                                      | 346                             | 100L          |
| 3.9             | 370.11 | 6947             | 1.40              | 55000            | M1342360_M - 3.0A--                                                                      | 346                             | 100L          |
| 3.5             | 418.46 | 7855             | 1.23              | 55000            | M1342400_M - 3.0A--                                                                      | 346                             | 100L          |
| 3.0             | 482.96 | 9065             | 1.07              | 55000            | M1342450_M - 3.0A--                                                                      | 346                             | 100L          |
| 2.7             | 546.05 | 10250            | 0.95              | 55000            | M1342500_M - 3.0A--                                                                      | 346                             | 100L          |
| 7.8             | 184.83 | 3542             | 3.67              | 68000            | M1432180_M - 3.0A--                                                                      | 399                             | 100L          |
| 7.3             | 198.58 | 3806             | 3.42              | 68000            | M1432200_M - 3.0A--                                                                      | 399                             | 100L          |
| 6.3             | 228.38 | 4287             | 3.03              | 68000            | M1442225_M - 3.0A--                                                                      | 442                             | 100L          |
| 5.9             | 244.15 | 4583             | 2.84              | 68000            | M1442250_M - 3.0A--                                                                      | 442                             | 100L          |
| 5.2             | 276.86 | 5197             | 2.50              | 68000            | M1442280_M - 3.0A--                                                                      | 442                             | 100L          |
| 4.3             | 337.68 | 6338             | 2.05              | 68000            | M1442300_M - 3.0A--                                                                      | 442                             | 100L          |
| 4.1             | 352.51 | 6617             | 1.96              | 68000            | M1442360_M - 3.0A--                                                                      | 442                             | 100L          |
| 3.6             | 405.06 | 7603             | 1.71              | 68000            | M1442400_M - 3.0A--                                                                      | 442                             | 100L          |
| 3.2             | 459.33 | 8622             | 1.51              | 68000            | M1442450_M - 3.0A--                                                                      | 442                             | 100L          |
| 2.9             | 506.63 | 9510             | 1.37              | 68000            | M1442500_M - 3.0A--                                                                      | 442                             | 100L          |
| 2.2             | 656.00 | 12314            | 1.06              | 68000            | M1442650_M - 3.0A--                                                                      | 442                             | 100L          |
| 1.9             | 754.34 | 14159            | 0.92              | 68000            | M1442730_M - 3.0A--                                                                      | 442                             | 100L          |
| 1.7             | 852.89 | 16009            | 0.81              | 68000            | M1442860_M - 3.0A--                                                                      | 442                             | 100L          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**3.0 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 268             | 3.58   | 105              | 2.23              | 5405             | M04223.6_M_- 3.0C--                                                                      | 96                              | 132S          |
| 190             | 5.04   | 147              | 1.85              | 5552             | M04225.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 170             | 5.65   | 165              | 1.73              | 5608             | M04225.6_M_- 3.0C--                                                                      | 96                              | 132S          |
| 151             | 6.34   | 185              | 1.59              | 5576             | M04226.3_M_- 3.0C--                                                                      | 96                              | 132S          |
| 119             | 8.05   | 235              | 1.32              | 5865             | M04228.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 105             | 9.13   | 267              | 1.19              | 6006             | M04229.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 88              | 10.89  | 318              | 1.05              | 6281             | M042211_M_- 3.0C--                                                                       | 96                              | 132S          |
| 77              | 12.54  | 367              | 0.92              | 6571             | M042212_M_- 3.0C--                                                                       | 96                              | 132S          |
| 268             | 3.58   | 105              | 2.80              | 4580             | M05223.6_M_- 3.0C--                                                                      | 96                              | 132S          |
| 190             | 5.04   | 147              | 2.60              | 4943             | M05225.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 170             | 5.65   | 165              | 2.49              | 5053             | M05225.6_M_- 3.0C--                                                                      | 96                              | 132S          |
| 151             | 6.34   | 185              | 2.23              | 5144             | M05226.3_M_- 3.0C--                                                                      | 96                              | 132S          |
| 119             | 8.05   | 235              | 1.91              | 5359             | M05228.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 105             | 9.13   | 267              | 1.69              | 5454             | M05229.0_M_- 3.0C--                                                                      | 96                              | 132S          |
| 88              | 10.89  | 318              | 1.41              | 5640             | M052211_M_- 3.0C--                                                                       | 96                              | 132S          |
| 77              | 12.54  | 367              | 1.16              | 5827             | M052212_M_- 3.0C--                                                                       | 96                              | 132S          |
| 216             | 4.44   | 130              | 2.80              | 7200             | M06225.0_M_- 3.0C--                                                                      | 101                             | 132S          |
| 154             | 6.24   | 183              | 2.60              | 7200             | M06225.6_M_- 3.0C--                                                                      | 101                             | 132S          |
| 137             | 6.99   | 204              | 2.50              | 7200             | M06226.3_M_- 3.0C--                                                                      | 101                             | 132S          |
| 122             | 7.85   | 230              | 2.23              | 7200             | M06228.0_M_- 3.0C--                                                                      | 101                             | 132S          |
| 96              | 9.97   | 292              | 2.04              | 7200             | M06229.0_M_- 3.0C--                                                                      | 101                             | 132S          |
| 85              | 11.30  | 330              | 1.84              | 7200             | M062211_M_- 3.0C--                                                                       | 101                             | 132S          |
| 71              | 13.48  | 394              | 1.59              | 7200             | M062212_M_- 3.0C--                                                                       | 101                             | 132S          |
| 62              | 15.52  | 454              | 1.38              | 7200             | M062214_M_- 3.0C--                                                                       | 101                             | 132S          |
| 53              | 18.05  | 528              | 1.18              | 7200             | M062216_M_- 3.0C--                                                                       | 101                             | 132S          |
| 48              | 20.20  | 591              | 1.06              | 7200             | M062218_M_- 3.0C--                                                                       | 101                             | 132S          |
| 45              | 21.53  | 630              | 0.99              | 7200             | M062220_M_- 3.0C--                                                                       | 101                             | 132S          |
| 261             | 3.68   | 108              | 2.87              | 9556             | M07223.6_M_- 3.0C--                                                                      | 110                             | 132S          |
| 189             | 5.09   | 149              | 2.87              | 9388             | M07225.0_M_- 3.0C--                                                                      | 110                             | 132S          |
| 168             | 5.72   | 167              | 2.87              | 8692             | M07225.6_M_- 3.0C--                                                                      | 110                             | 132S          |
| 153             | 6.29   | 184              | 2.87              | 8750             | M07226.3_M_- 3.0C--                                                                      | 110                             | 132S          |
| 117             | 8.22   | 240              | 2.87              | 9090             | M07228.0_M_- 3.0C--                                                                      | 110                             | 132S          |
| 103             | 9.34   | 273              | 2.73              | 9240             | M07229.0_M_- 3.0C--                                                                      | 110                             | 132S          |
| 85              | 11.35  | 332              | 2.34              | 7950             | M072211_M_- 3.0C--                                                                       | 110                             | 132S          |
| 77              | 12.48  | 365              | 2.18              | 7683             | M072212_M_- 3.0C--                                                                       | 110                             | 132S          |
| 67              | 14.34  | 419              | 1.94              | 8099             | M072214_M_- 3.0C--                                                                       | 110                             | 132S          |
| 59              | 16.26  | 476              | 1.73              | 8582             | M072216_M_- 3.0C--                                                                       | 110                             | 132S          |
| 54              | 17.94  | 525              | 1.58              | 8350             | M072218_M_- 3.0C--                                                                       | 110                             | 132S          |
| 47              | 20.54  | 601              | 1.40              | 7959             | M072220_M_- 3.0C--                                                                       | 110                             | 132S          |
| 41              | 23.23  | 679              | 1.26              | 7632             | M072222_M_- 3.0C--                                                                       | 110                             | 132S          |
| 36              | 26.93  | 788              | 1.10              | 7235             | M072228_M_- 3.0C--                                                                       | 110                             | 132S          |
| 30              | 32.12  | 939              | 0.93              | 6756             | M072232_M_- 3.0C--                                                                       | 110                             | 132S          |
| 27              | 35.17  | 1029             | 0.85              | 6513             | M072236_M_- 3.0C--                                                                       | 110                             | 132S          |
| 64              | 15.04  | 440              | 3.68              | 8599             | M082214_M_- 3.0C--                                                                       | 143                             | 132S          |
| 58              | 16.69  | 488              | 2.93              | 10940            | M082216_M_- 3.0C--                                                                       | 143                             | 132S          |
| 53              | 18.26  | 534              | 2.57              | 12647            | M082218_M_- 3.0C--                                                                       | 143                             | 132S          |
| 46              | 20.66  | 604              | 2.43              | 12349            | M082220_M_- 3.0C--                                                                       | 143                             | 132S          |
| 41              | 23.32  | 682              | 2.27              | 12366            | M082222_M_- 3.0C--                                                                       | 143                             | 132S          |
| 34              | 28.27  | 827              | 2.02              | 14369            | M082228_M_- 3.0C--                                                                       | 143                             | 132S          |
| 29              | 32.97  | 964              | 1.76              | 15687            | M082232_M_- 3.0C--                                                                       | 143                             | 132S          |
| 27              | 36.21  | 1059             | 1.61              | 15802            | M082236_M_- 3.0C--                                                                       | 143                             | 132S          |
| 22              | 44.38  | 1298             | 1.31              | 16200            | M082245_M_- 3.0C--                                                                       | 143                             | 132S          |
| 20              | 48.46  | 1417             | 1.20              | 16200            | M082250_M_- 3.0C--                                                                       | 143                             | 132S          |
| 17              | 55.80  | 1632             | 0.96              | 16200            | M082256_M_- 3.0C--                                                                       | 143                             | 132S          |
| 16              | 60.33  | 1746             | 0.97              | 16200            | M083256_M_- 3.0C--                                                                       | 147                             | 132S          |
| 15              | 66.02  | 1911             | 0.89              | 16200            | M083263_M_- 3.0C--                                                                       | 147                             | 132S          |
| 34              | 27.98  | 818              | 3.80              | 17257            | M092228_M_- 3.0C--                                                                       | 191                             | 132S          |
| 30              | 32.31  | 945              | 3.29              | 19380            | M092232_M_- 3.0C--                                                                       | 191                             | 132S          |
| 27              | 35.67  | 1043             | 2.98              | 20500            | M092236_M_- 3.0C--                                                                       | 191                             | 132S          |
| 22              | 43.35  | 1268             | 2.45              | 18653            | M092245_M_- 3.0C--                                                                       | 191                             | 132S          |
| 20              | 49.07  | 1435             | 1.99              | 20500            | M092250_M_- 3.0C--                                                                       | 191                             | 132S          |
| 17              | 55.18  | 1614             | 1.64              | 20500            | M092256_M_- 3.0C--                                                                       | 191                             | 132S          |
| 16              | 59.07  | 1710             | 1.82              | 20500            | M093256_M_- 3.0C--                                                                       | 206                             | 132S          |
| 15              | 64.64  | 1871             | 1.66              | 20500            | M093263_M_- 3.0C--                                                                       | 206                             | 132S          |
| 13              | 73.13  | 2117             | 1.47              | 20500            | M093271_M_- 3.0C--                                                                       | 206                             | 132S          |
| 12              | 82.55  | 2390             | 1.30              | 20500            | M093280_M_- 3.0C--                                                                       | 206                             | 132S          |
| 10              | 100.07 | 2897             | 1.07              | 20500            | M0932100_M_- 3.0C--                                                                      | 206                             | 132S          |
| 8.2             | 116.70 | 3378             | 0.92              | 20500            | M0932112_M_- 3.0C--                                                                      | 206                             | 132S          |
| 7.5             | 128.19 | 3711             | 0.84              | 20500            | M0932125_M_- 3.0C--                                                                      | 206                             | 132S          |
| 20              | 47.93  | 1402             | 3.04              | 30000            | M102250_M_- 3.0C--                                                                       | 220                             | 132S          |
| 19              | 51.49  | 1506             | 2.57              | 30000            | M102256_M_- 3.0C--                                                                       | 220                             | 132S          |



## SELECTION TABLES

**3.0 kW**

6 POLE

**3.7 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 17              | 57.63  | 1668             | 2.87              | 30000            | M103256_M_-3.0C--                                                                        | 243                             | 132S          |
| 15              | 65.24  | 1889             | 2.53              | 30000            | M103263_M_-3.0C--                                                                        | 243                             | 132S          |
| 13              | 72.62  | 2102             | 2.27              | 30000            | M103271_M_-3.0C--                                                                        | 243                             | 132S          |
| 12              | 80.68  | 2336             | 2.05              | 30000            | M103280_M_-3.0C--                                                                        | 243                             | 132S          |
| 10              | 98.68  | 2857             | 1.67              | 30000            | M1032100_M_-3.0C--                                                                       | 243                             | 132S          |
| 8.4             | 113.96 | 3299             | 1.45              | 30000            | M1032112_M_-3.0C--                                                                       | 243                             | 132S          |
| 7.6             | 125.81 | 3642             | 1.31              | 30000            | M1032125_M_-3.0C--                                                                       | 243                             | 132S          |
| 6.3             | 152.91 | 4427             | 1.08              | 30000            | M1032160_M_-3.0C--                                                                       | 243                             | 132S          |
| 5.5             | 173.08 | 5010             | 0.95              | 30000            | M1032180_M_-3.0C--                                                                       | 243                             | 132S          |
| 4.9             | 194.62 | 5634             | 0.85              | 30000            | M1032200_M_-3.0C--                                                                       | 243                             | 132S          |
| 10              | 95.34  | 2760             | 3.51              | 55000            | M1332100_M_-3.0C--                                                                       | 340                             | 132S          |
| 8.3             | 115.08 | 3331             | 2.91              | 55000            | M1332112_M_-3.0C--                                                                       | 340                             | 132S          |
| 7.2             | 132.56 | 3837             | 2.53              | 55000            | M1332125_M_-3.0C--                                                                       | 340                             | 132S          |
| 6.2             | 153.81 | 4453             | 2.18              | 55000            | M1332160_M_-3.0C--                                                                       | 340                             | 132S          |
| 5.4             | 179.28 | 5190             | 1.87              | 55000            | M1332180_M_-3.0C--                                                                       | 340                             | 132S          |
| 5.0             | 192.61 | 5576             | 1.69              | 55000            | M1332200_M_-3.0C--                                                                       | 340                             | 132S          |
| 4.3             | 224.86 | 6375             | 1.52              | 55000            | M1342225_M_-3.0C--                                                                       | 379                             | 132S          |
| 3.7             | 258.39 | 7326             | 1.32              | 55000            | M1342250_M_-3.0C--                                                                       | 379                             | 132S          |
| 3.3             | 289.16 | 8198             | 1.18              | 55000            | M1342280_M_-3.0C--                                                                       | 379                             | 132S          |
| 3.0             | 323.18 | 9163             | 1.06              | 55000            | M1342300_M_-3.0C--                                                                       | 379                             | 132S          |
| 2.6             | 370.11 | 10493            | 0.92              | 55000            | M1342360_M_-3.0C--                                                                       | 379                             | 132S          |
| 8.1             | 118.61 | 3434             | 3.79              | 68000            | M1432112_M_-3.0C--                                                                       | 434                             | 132S          |
| 7.0             | 136.66 | 3956             | 3.29              | 68000            | M1432125_M_-3.0C--                                                                       | 434                             | 132S          |
| 6.1             | 158.58 | 4591             | 2.83              | 68000            | M1432160_M_-3.0C--                                                                       | 434                             | 132S          |
| 5.2             | 184.83 | 5351             | 2.43              | 68000            | M1432180_M_-3.0C--                                                                       | 434                             | 132S          |
| 4.8             | 198.58 | 5749             | 2.26              | 68000            | M1432200_M_-3.0C--                                                                       | 434                             | 132S          |
| 4.2             | 228.38 | 6475             | 2.01              | 68000            | M1442225_M_-3.0C--                                                                       | 475                             | 132S          |
| 3.9             | 244.15 | 6922             | 1.88              | 68000            | M1442250_M_-3.0C--                                                                       | 475                             | 132S          |
| 3.5             | 276.86 | 7849             | 1.66              | 68000            | M1442280_M_-3.0C--                                                                       | 475                             | 132S          |
| 2.8             | 337.68 | 9574             | 1.36              | 68000            | M1442300_M_-3.0C--                                                                       | 475                             | 132S          |
| 2.7             | 352.51 | 9994             | 1.30              | 68000            | M1442360_M_-3.0C--                                                                       | 475                             | 132S          |
| 2.4             | 405.06 | 11484            | 1.13              | 68000            | M1442400_M_-3.0C--                                                                       | 475                             | 132S          |
| 2.1             | 459.33 | 13023            | 1.00              | 68000            | M1442450_M_-3.0C--                                                                       | 475                             | 132S          |
| 1.9             | 506.63 | 14364            | 0.91              | 68000            | M1442500_M_-3.0C--                                                                       | 475                             | 132S          |
| 5.5             | 175.64 | 5085             | 3.76              | 98000            | M1632180_M_-3.0C--                                                                       | 677                             | 132S          |
| 4.9             | 197.02 | 5703             | 2.56              | 98000            | M1632200_M_-3.0C--                                                                       | 677                             | 132S          |
| 404             | 3.59   | 86               | 1.19              | 3221             | M02223.6_M_-3.7A--                                                                       | 59                              | 112M          |
| 288             | 5.03   | 120              | 0.98              | 3074             | M02225.0_M_-3.7A--                                                                       | 59                              | 112M          |
| 261             | 5.55   | 133              | 0.93              | 3036             | M02225.6_M_-3.7A--                                                                       | 59                              | 112M          |
| 404             | 3.59   | 86               | 1.41              | 2740             | M03223.6_M_-3.7A--                                                                       | 59                              | 112M          |
| 288             | 5.03   | 120              | 1.15              | 2548             | M03225.0_M_-3.7A--                                                                       | 59                              | 112M          |
| 261             | 5.55   | 133              | 1.07              | 2508             | M03225.6_M_-3.7A--                                                                       | 59                              | 112M          |
| 230             | 6.30   | 151              | 0.99              | 2439             | M03226.3_M_-3.7A--                                                                       | 59                              | 112M          |
| 405             | 3.58   | 86               | 2.38              | 5191             | M04223.6_M_-3.7A--                                                                       | 69                              | 112M          |
| 288             | 5.04   | 120              | 1.97              | 5215             | M04225.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 257             | 5.65   | 135              | 1.85              | 5242             | M04225.6_M_-3.7A--                                                                       | 69                              | 112M          |
| 229             | 6.34   | 151              | 1.73              | 5311             | M04226.3_M_-3.7A--                                                                       | 69                              | 112M          |
| 180             | 8.05   | 192              | 1.50              | 5417             | M04228.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 159             | 9.13   | 218              | 1.37              | 5290             | M04229.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 133             | 10.89  | 260              | 1.20              | 5558             | M042211_M_-3.7A--                                                                        | 69                              | 112M          |
| 116             | 12.54  | 299              | 1.07              | 5782             | M042212_M_-3.7A--                                                                        | 69                              | 112M          |
| 99              | 14.58  | 350              | 0.94              | 5943             | M042214_M_-3.7A--                                                                        | 69                              | 112M          |
| 405             | 3.58   | 86               | 3.43              | 4365             | M05223.6_M_-3.7A--                                                                       | 69                              | 112M          |
| 288             | 5.04   | 120              | 3.18              | 4565             | M05225.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 257             | 5.65   | 135              | 3.05              | 4669             | M05225.6_M_-3.7A--                                                                       | 69                              | 112M          |
| 229             | 6.34   | 151              | 2.72              | 4746             | M05226.3_M_-3.7A--                                                                       | 69                              | 112M          |
| 180             | 8.05   | 192              | 2.34              | 4951             | M05228.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 159             | 9.13   | 218              | 2.06              | 5047             | M05229.0_M_-3.7A--                                                                       | 69                              | 112M          |
| 133             | 10.89  | 260              | 1.73              | 5162             | M052211_M_-3.7A--                                                                        | 69                              | 112M          |
| 116             | 12.54  | 299              | 1.43              | 5229             | M052212_M_-3.7A--                                                                        | 69                              | 112M          |
| 99              | 14.58  | 350              | 1.30              | 5370             | M052214_M_-3.7A--                                                                        | 69                              | 112M          |
| 327             | 4.44   | 106              | 3.43              | 7262             | M06225.0_M_-3.7A--                                                                       | 74                              | 112M          |
| 232             | 6.24   | 149              | 3.18              | 7262             | M06225.6_M_-3.7A--                                                                       | 74                              | 112M          |
| 207             | 6.99   | 167              | 3.06              | 7262             | M06226.3_M_-3.7A--                                                                       | 74                              | 112M          |
| 185             | 7.85   | 187              | 2.74              | 7262             | M06228.0_M_-3.7A--                                                                       | 74                              | 112M          |
| 145             | 9.97   | 239              | 2.50              | 7262             | M06229.0_M_-3.7A--                                                                       | 74                              | 112M          |
| 128             | 11.30  | 271              | 2.24              | 7262             | M062211_M_-3.7A--                                                                        | 74                              | 112M          |
| 108             | 13.48  | 321              | 1.90              | 7262             | M062212_M_-3.7A--                                                                        | 74                              | 112M          |
| 93              | 15.52  | 372              | 1.43              | 7262             | M062214_M_-3.7A--                                                                        | 74                              | 112M          |
| 80              | 18.05  | 433              | 1.38              | 7262             | M062216_M_-3.7A--                                                                        | 74                              | 112M          |
| 72              | 20.20  | 481              | 1.30              | 7262             | M062218_M_-3.7A--                                                                        | 74                              | 112M          |
| 67              | 21.53  | 517              | 1.22              | 7262             | M062220_M_-3.7A--                                                                        | 74                              | 112M          |
| 57              | 25.51  | 608              | 1.03              | 7262             | M062222_M_-3.7A--                                                                        | 74                              | 112M          |
| 53              | 27.24  | 653              | 0.96              | 7262             | M062228_M_-3.7A--                                                                        | 74                              | 112M          |



## SELECTION TABLES

**3.7 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 394             | 3.68   | 88               | 3.50              | 3091             | M07223.6_M_ 3.7A--                                                                       | 83                              | 112M          |
| 285             | 5.09   | 122              | 3.50              | 8207             | M07225.0_M_ 3.7A--                                                                       | 83                              | 112M          |
| 253             | 5.72   | 137              | 3.50              | 7461             | M07225.6_M_ 3.7A--                                                                       | 83                              | 112M          |
| 231             | 6.29   | 150              | 3.50              | 6761             | M07226.3_M_ 3.7A--                                                                       | 83                              | 112M          |
| 176             | 8.22   | 197              | 3.34              | 5732             | M07228.0_M_ 3.7A--                                                                       | 83                              | 112M          |
| 155             | 9.34   | 223              | 3.09              | 5921             | M07229.0_M_ 3.7A--                                                                       | 83                              | 112M          |
| 128             | 11.35  | 271              | 2.68              | 6185             | M072211_M_ 3.7A--                                                                        | 83                              | 112M          |
| 116             | 12.48  | 299              | 2.49              | 6322             | M072212_M_ 3.7A--                                                                        | 83                              | 112M          |
| 101             | 14.34  | 343              | 2.23              | 6518             | M072214_M_ 3.7A--                                                                        | 83                              | 112M          |
| 89              | 16.26  | 389              | 2.03              | 6843             | M072216_M_ 3.7A--                                                                        | 83                              | 112M          |
| 81              | 17.94  | 428              | 1.85              | 7191             | M072218_M_ 3.7A--                                                                        | 83                              | 112M          |
| 71              | 20.54  | 488              | 1.64              | 7708             | M072220_M_ 3.7A--                                                                        | 83                              | 112M          |
| 62              | 23.23  | 559              | 1.47              | 8166             | M072222_M_ 3.7A--                                                                        | 83                              | 112M          |
| 54              | 26.93  | 641              | 1.29              | 8161             | M072228_M_ 3.7A--                                                                        | 83                              | 112M          |
| 45              | 32.12  | 770              | 1.10              | 7683             | M072232_M_ 3.7A--                                                                        | 83                              | 112M          |
| 41              | 35.17  | 845              | 1.02              | 7454             | M072236_M_ 3.7A--                                                                        | 83                              | 112M          |
| 96              | 15.04  | 361              | 3.92              | 8020             | M082214_M_ 3.7A--                                                                        | 117                             | 112M          |
| 87              | 16.69  | 398              | 3.59              | 8344             | M082216_M_ 3.7A--                                                                        | 117                             | 112M          |
| 79              | 18.26  | 438              | 3.12              | 9068             | M082218_M_ 3.7A--                                                                        | 117                             | 112M          |
| 70              | 20.66  | 495              | 2.97              | 9582             | M082220_M_ 3.7A--                                                                        | 117                             | 112M          |
| 62              | 23.32  | 559              | 2.76              | 10062            | M082222_M_ 3.7A--                                                                        | 117                             | 112M          |
| 51              | 28.27  | 679              | 2.37              | 10170            | M082228_M_ 3.7A--                                                                        | 117                             | 112M          |
| 44              | 32.97  | 787              | 2.08              | 10718            | M082232_M_ 3.7A--                                                                        | 117                             | 112M          |
| 40              | 36.21  | 866              | 1.91              | 11277            | M082236_M_ 3.7A--                                                                        | 117                             | 112M          |
| 33              | 44.38  | 1049             | 1.59              | 12948            | M082245_M_ 3.7A--                                                                        | 117                             | 112M          |
| 30              | 48.46  | 1154             | 1.46              | 14074            | M082250_M_ 3.7A--                                                                        | 117                             | 112M          |
| 26              | 55.80  | 1332             | 1.17              | 16200            | M082256_M_ 3.7A--                                                                        | 117                             | 112M          |
| 24              | 60.33  | 1428             | 1.14              | 16200            | M083256_M_ 3.7A--                                                                        | 121                             | 112M          |
| 22              | 66.02  | 1558             | 1.06              | 16200            | M083263_M_ 3.7A--                                                                        | 121                             | 112M          |
| 19              | 74.69  | 1804             | 0.96              | 16200            | M083271_M_ 3.7A--                                                                        | 121                             | 112M          |
| 52              | 27.98  | 666              | 4.29              | 14321            | M092228_M_ 3.7A--                                                                        | 162                             | 112M          |
| 45              | 32.31  | 770              | 3.81              | 15640            | M092232_M_ 3.7A--                                                                        | 162                             | 112M          |
| 41              | 35.67  | 845              | 3.49              | 16865            | M092236_M_ 3.7A--                                                                        | 162                             | 112M          |
| 33              | 43.35  | 1049             | 2.95              | 18927            | M092245_M_ 3.7A--                                                                        | 162                             | 112M          |
| 30              | 49.07  | 1154             | 2.44              | 20500            | M092250_M_ 3.7A--                                                                        | 162                             | 112M          |
| 26              | 55.18  | 1332             | 2.01              | 20500            | M092256_M_ 3.7A--                                                                        | 162                             | 112M          |
| 25              | 59.07  | 1371             | 2.23              | 20500            | M093256_M_ 3.7A--                                                                        | 177                             | 112M          |
| 22              | 64.64  | 1558             | 2.03              | 20500            | M093263_M_ 3.7A--                                                                        | 177                             | 112M          |
| 20              | 73.13  | 1714             | 1.79              | 20500            | M093271_M_ 3.7A--                                                                        | 177                             | 112M          |
| 18              | 82.55  | 1904             | 1.59              | 20500            | M093280_M_ 3.7A--                                                                        | 177                             | 112M          |
| 14              | 100.07 | 2448             | 1.32              | 20500            | M0932100_M_ 3.7A--                                                                       | 177                             | 112M          |
| 12              | 116.70 | 2856             | 1.12              | 20500            | M0932112_M_ 3.7A--                                                                       | 177                             | 112M          |
| 11              | 128.19 | 3116             | 1.03              | 20500            | M0932125_M_ 3.7A--                                                                       | 177                             | 112M          |
| 30              | 47.93  | 1154             | 3.72              | 30000            | M102250_M_ 3.7A--                                                                        | 191                             | 112M          |
| 28              | 51.49  | 1237             | 3.15              | 30000            | M102256_M_ 3.7A--                                                                        | 191                             | 112M          |
| 25              | 57.63  | 1371             | 3.51              | 30000            | M103256_M_ 3.7A--                                                                        | 214                             | 112M          |
| 22              | 65.24  | 1558             | 3.10              | 30000            | M103263_M_ 3.7A--                                                                        | 214                             | 112M          |
| 20              | 72.62  | 1714             | 2.79              | 30000            | M103271_M_ 3.7A--                                                                        | 214                             | 112M          |
| 18              | 80.68  | 1904             | 2.51              | 30000            | M103280_M_ 3.7A--                                                                        | 214                             | 112M          |
| 15              | 98.68  | 2285             | 2.05              | 30000            | M1032100_M_ 3.7A--                                                                       | 214                             | 112M          |
| 13              | 113.96 | 2637             | 1.77              | 30000            | M1032112_M_ 3.7A--                                                                       | 214                             | 112M          |
| 12              | 125.81 | 2856             | 1.61              | 30000            | M1032125_M_ 3.7A--                                                                       | 214                             | 112M          |
| 9.5             | 152.91 | 3608             | 1.32              | 30000            | M1032160_M_ 3.7A--                                                                       | 214                             | 112M          |
| 8.4             | 173.08 | 4080             | 1.17              | 30000            | M1032180_M_ 3.7A--                                                                       | 214                             | 112M          |
| 7.5             | 194.62 | 4570             | 1.04              | 30000            | M1032200_M_ 3.7A--                                                                       | 214                             | 112M          |
| 6.6             | 220.22 | 5086             | 0.94              | 30000            | M1042225_M_ 3.7A--                                                                       | 248                             | 112M          |
| 15              | 95.34  | 2285             | 4.30              | 55000            | M1332100_M_ 3.7A--                                                                       | 311                             | 112M          |
| 13              | 115.08 | 2637             | 3.57              | 55000            | M1332112_M_ 3.7A--                                                                       | 311                             | 112M          |
| 11              | 132.56 | 3116             | 3.09              | 55000            | M1332125_M_ 3.7A--                                                                       | 311                             | 112M          |
| 9.4             | 153.81 | 3646             | 2.67              | 55000            | M1332160_M_ 3.7A--                                                                       | 311                             | 112M          |
| 8.1             | 179.28 | 4231             | 2.29              | 55000            | M1332180_M_ 3.7A--                                                                       | 311                             | 112M          |
| 7.5             | 192.61 | 4570             | 2.13              | 55000            | M1332200_M_ 3.7A--                                                                       | 311                             | 112M          |
| 6.4             | 224.86 | 5245             | 1.86              | 55000            | M1342225_M_ 3.7A--                                                                       | 352                             | 112M          |
| 5.6             | 258.39 | 5994             | 1.62              | 55000            | M1342250_M_ 3.7A--                                                                       | 352                             | 112M          |
| 5.0             | 289.16 | 6714             | 1.45              | 55000            | M1342280_M_ 3.7A--                                                                       | 352                             | 112M          |
| 4.5             | 323.18 | 7460             | 1.30              | 55000            | M1342300_M_ 3.7A--                                                                       | 352                             | 112M          |
| 3.9             | 370.11 | 8607             | 1.14              | 55000            | M1342360_M_ 3.7A--                                                                       | 352                             | 112M          |
| 3.5             | 418.46 | 9591             | 1.01              | 55000            | M1342400_M_ 3.7A--                                                                       | 352                             | 112M          |



## SELECTION TABLES

**3.7 kW**

4 POLE

**3.7 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM                               | i      | M2<br>Nm         | Fm                | N                | Unit Designation                              |                                 | kg            |  |
|-----------------------------------------|--------|------------------|-------------------|------------------|-----------------------------------------------|---------------------------------|---------------|--|
| Output<br>Speed                         | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span> | Weight of<br>base<br>mount unit | Motor<br>Size |  |
| Blanks to be filled when entering order |        |                  |                   |                  |                                               |                                 |               |  |
| 11                                      | 136.66 | 3116             | 4.02              | 68000            | M1432125_M_ 3.7A--                            | 405                             | 112M          |  |
| 9.1                                     | 158.58 | 3766             | 3.47              | 68000            | M1432160_M_ 3.7A--                            | 405                             | 112M          |  |
| 7.8                                     | 184.83 | 4394             | 2.97              | 68000            | M1432180_M_ 3.7A--                            | 405                             | 112M          |  |
| 7.3                                     | 198.58 | 4695             | 2.77              | 68000            | M1432200_M_ 3.7A--                            | 405                             | 112M          |  |
| 6.3                                     | 228.38 | 5328             | 2.45              | 68000            | M1442225_M_ 3.7A--                            | 448                             | 112M          |  |
| 5.9                                     | 244.15 | 5690             | 2.30              | 68000            | M1442250_M_ 3.7A--                            | 448                             | 112M          |  |
| 5.2                                     | 276.86 | 6455             | 2.03              | 68000            | M1442280_M_ 3.7A--                            | 448                             | 112M          |  |
| 4.3                                     | 337.68 | 7807             | 1.66              | 68000            | M1442300_M_ 3.7A--                            | 448                             | 112M          |  |
| 4.1                                     | 352.51 | 8187             | 1.59              | 68000            | M1442360_M_ 3.7A--                            | 448                             | 112M          |  |
| 3.6                                     | 405.06 | 9325             | 1.38              | 68000            | M1442400_M_ 3.7A--                            | 448                             | 112M          |  |
| 3.2                                     | 459.33 | 10490            | 1.22              | 68000            | M1442450_M_ 3.7A--                            | 448                             | 112M          |  |
| 2.9                                     | 506.63 | 11575            | 1.11              | 68000            | M1442500_M_ 3.7A--                            | 448                             | 112M          |  |
| 7.4                                     | 197.02 | 4632             | 3.14              | 98000            | M1632200_M_ 3.7A--                            | 647                             | 112M          |  |
| 268                                     | 3.58   | 129              | 1.81              | 5282             | M04223.6_M_ 3.7C--                            | 96                              | 132S          |  |
| 190                                     | 5.04   | 182              | 1.49              | 5425             | M04225.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 170                                     | 5.65   | 204              | 1.41              | 5481             | M04225.6_M_ 3.7C--                            | 96                              | 132S          |  |
| 151                                     | 6.34   | 229              | 1.29              | 5449             | M04226.3_M_ 3.7C--                            | 96                              | 132S          |  |
| 119                                     | 8.05   | 291              | 1.07              | 5731             | M04228.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 105                                     | 9.13   | 330              | 0.97              | 5869             | M04229.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 268                                     | 3.58   | 129              | 2.27              | 4476             | M05223.6_M_ 3.7C--                            | 96                              | 132S          |  |
| 190                                     | 5.04   | 182              | 2.11              | 4830             | M05225.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 170                                     | 5.65   | 204              | 2.02              | 4938             | M05225.6_M_ 3.7C--                            | 96                              | 132S          |  |
| 151                                     | 6.34   | 229              | 1.81              | 5026             | M05226.3_M_ 3.7C--                            | 96                              | 132S          |  |
| 119                                     | 8.05   | 291              | 1.55              | 5237             | M05228.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 105                                     | 9.13   | 330              | 1.36              | 5330             | M05229.0_M_ 3.7C--                            | 96                              | 132S          |  |
| 88                                      | 10.89  | 394              | 1.15              | 5512             | M052211_M_ 3.7C--                             | 96                              | 132S          |  |
| 77                                      | 12.54  | 450              | 0.94              | 5694             | M052212_M_ 3.7C--                             | 96                              | 132S          |  |
| 216                                     | 4.44   | 160              | 2.27              | 7200             | M06225.0_M_ 3.7C--                            | 101                             | 132S          |  |
| 154                                     | 6.24   | 225              | 2.11              | 7200             | M06225.6_M_ 3.7C--                            | 101                             | 132S          |  |
| 137                                     | 6.99   | 253              | 2.02              | 7200             | M06226.3_M_ 3.7C--                            | 101                             | 132S          |  |
| 122                                     | 7.85   | 284              | 1.81              | 7200             | M06228.0_M_ 3.7C--                            | 101                             | 132S          |  |
| 96                                      | 9.97   | 361              | 1.65              | 7200             | M06229.0_M_ 3.7C--                            | 101                             | 132S          |  |
| 85                                      | 11.30  | 407              | 1.49              | 7200             | M062211_M_ 3.7C--                             | 101                             | 132S          |  |
| 71                                      | 13.48  | 488              | 1.29              | 7200             | M062212_M_ 3.7C--                             | 101                             | 132S          |  |
| 62                                      | 15.52  | 559              | 1.11              | 7200             | M062214_M_ 3.7C--                             | 101                             | 132S          |  |
| 53                                      | 18.05  | 653              | 0.96              | 7200             | M062216_M_ 3.7C--                             | 101                             | 132S          |  |
| 261                                     | 3.68   | 133              | 2.34              | 9342             | M07223.6_M_ 3.7C--                            | 110                             | 132S          |  |
| 189                                     | 5.09   | 183              | 2.34              | 9177             | M07225.0_M_ 3.7C--                            | 110                             | 132S          |  |
| 168                                     | 5.72   | 206              | 2.34              | 8497             | M07225.6_M_ 3.7C--                            | 110                             | 132S          |  |
| 153                                     | 6.29   | 226              | 2.34              | 7860             | M07226.3_M_ 3.7C--                            | 110                             | 132S          |  |
| 117                                     | 8.22   | 296              | 2.34              | 6280             | M07228.0_M_ 3.7C--                            | 110                             | 132S          |  |
| 103                                     | 9.34   | 336              | 2.23              | 6486             | M07229.0_M_ 3.7C--                            | 110                             | 132S          |  |
| 85                                      | 11.35  | 407              | 1.90              | 7020             | M072211_M_ 3.7C--                             | 110                             | 132S          |  |
| 77                                      | 12.48  | 450              | 1.77              | 7370             | M072212_M_ 3.7C--                             | 110                             | 132S          |  |
| 67                                      | 14.34  | 517              | 1.58              | 7918             | M072214_M_ 3.7C--                             | 110                             | 132S          |  |
| 59                                      | 16.26  | 587              | 1.41              | 8389             | M072216_M_ 3.7C--                             | 110                             | 132S          |  |
| 54                                      | 17.94  | 641              | 1.29              | 8163             | M072218_M_ 3.7C--                             | 110                             | 132S          |  |
| 47                                      | 20.54  | 737              | 1.15              | 7785             | M072220_M_ 3.7C--                             | 110                             | 132S          |  |
| 41                                      | 23.23  | 845              | 1.03              | 7462             | M072222_M_ 3.7C--                             | 110                             | 132S          |  |
| 36                                      | 26.93  | 962              | 0.90              | 7075             | M072228_M_ 3.7C--                             | 110                             | 132S          |  |
| 261                                     | 3.68   | 133              | 3.68              | 16040            | M08223.6_M_ 3.7C--                            | 143                             | 132S          |  |
| 184                                     | 5.21   | 188              | 3.68              | 15809            | M08225.0_M_ 3.7C--                            | 143                             | 132S          |  |
| 166                                     | 5.79   | 209              | 3.68              | 15001            | M08225.6_M_ 3.7C--                            | 143                             | 132S          |  |
| 149                                     | 6.44   | 232              | 3.68              | 14193            | M08226.3_M_ 3.7C--                            | 143                             | 132S          |  |
| 115                                     | 8.33   | 301              | 3.68              | 11401            | M08228.0_M_ 3.7C--                            | 143                             | 132S          |  |
| 103                                     | 9.35   | 336              | 3.68              | 9797             | M08229.0_M_ 3.7C--                            | 143                             | 132S          |  |
| 84                                      | 11.47  | 412              | 3.62              | 7605             | M082211_M_ 3.7C--                             | 143                             | 132S          |  |
| 74                                      | 12.92  | 468              | 3.19              | 7839             | M082212_M_ 3.7C--                             | 143                             | 132S          |  |
| 64                                      | 15.04  | 541              | 2.89              | 8371             | M082214_M_ 3.7C--                             | 143                             | 132S          |  |
| 58                                      | 16.69  | 597              | 2.39              | 10697            | M082216_M_ 3.7C--                             | 143                             | 132S          |  |
| 53                                      | 18.26  | 653              | 2.09              | 12361            | M082218_M_ 3.7C--                             | 143                             | 132S          |  |
| 46                                      | 20.66  | 753              | 1.99              | 12080            | M082220_M_ 3.7C--                             | 143                             | 132S          |  |
| 41                                      | 23.32  | 845              | 1.85              | 12090            | M082222_M_ 3.7C--                             | 143                             | 132S          |  |
| 34                                      | 28.27  | 1018             | 1.64              | 14047            | M082228_M_ 3.7C--                             | 143                             | 132S          |  |
| 29                                      | 32.97  | 1194             | 1.43              | 14977            | M082232_M_ 3.7C--                             | 143                             | 132S          |  |
| 27                                      | 36.21  | 1283             | 1.30              | 15441            | M082236_M_ 3.7C--                             | 143                             | 132S          |  |
| 22                                      | 44.38  | 1574             | 1.06              | 16307            | M082245_M_ 3.7C--                             | 143                             | 132S          |  |
| 20                                      | 48.46  | 1731             | 0.97              | 16151            | M082250_M_ 3.7C--                             | 143                             | 132S          |  |



## SELECTION TABLES

**3.7 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 52              | 18.50  | 666              | 4.27              | 14547            | M092218_M_ 3.7C--                                                                        | 191                             | 132S          |
| 47              | 20.59  | 737              | 3.97              | 15013            | M092220_M_ 3.7C--                                                                        | 191                             | 132S          |
| 42              | 22.87  | 824              | 3.70              | 15473            | M092222_M_ 3.7C--                                                                        | 191                             | 132S          |
| 34              | 27.98  | 1018             | 3.08              | 16864            | M092228_M_ 3.7C--                                                                        | 191                             | 132S          |
| 30              | 32.31  | 1154             | 2.67              | 18938            | M092232_M_ 3.7C--                                                                        | 191                             | 132S          |
| 27              | 35.67  | 1283             | 2.42              | 20607            | M092236_M_ 3.7C--                                                                        | 191                             | 132S          |
| 22              | 43.35  | 1574             | 1.99              | 18228            | M092245_M_ 3.7C--                                                                        | 191                             | 132S          |
| 20              | 49.07  | 1731             | 1.61              | 20500            | M092250_M_ 3.7C--                                                                        | 191                             | 132S          |
| 17              | 55.18  | 2037             | 1.33              | 20500            | M092256_M_ 3.7C--                                                                        | 191                             | 132S          |
| 16              | 59.07  | 2142             | 1.47              | 20500            | M093256_M_ 3.7C--                                                                        | 206                             | 132S          |
| 15              | 64.64  | 2285             | 1.35              | 20500            | M093263_M_ 3.7C--                                                                        | 206                             | 132S          |
| 13              | 73.13  | 2637             | 1.19              | 20500            | M093271_M_ 3.7C--                                                                        | 206                             | 132S          |
| 12              | 82.55  | 2856             | 1.06              | 20500            | M093280_M_ 3.7C--                                                                        | 206                             | 132S          |
| 10              | 100.07 | 3427             | 0.88              | 20500            | M0932100_M_ 3.7C--                                                                       | 206                             | 132S          |
| 27              | 35.44  | 1283             | 3.91              | 30000            | M102236_M_ 3.7C--                                                                        | 220                             | 132S          |
| 23              | 41.12  | 1506             | 3.37              | 30000            | M102245_M_ 3.7C--                                                                        | 220                             | 132S          |
| 20              | 47.93  | 1731             | 2.46              | 30000            | M102250_M_ 3.7C--                                                                        | 220                             | 132S          |
| 19              | 51.49  | 1823             | 2.09              | 30000            | M102256_M_ 3.7C--                                                                        | 220                             | 132S          |
| 17              | 57.63  | 2016             | 2.32              | 30000            | M103256_M_ 3.7C--                                                                        | 243                             | 132S          |
| 15              | 65.24  | 2285             | 2.05              | 30000            | M103263_M_ 3.7C--                                                                        | 243                             | 132S          |
| 13              | 72.62  | 2637             | 1.85              | 30000            | M103271_M_ 3.7C--                                                                        | 243                             | 132S          |
| 12              | 80.68  | 2856             | 1.65              | 30000            | M103280_M_ 3.7C--                                                                        | 243                             | 132S          |
| 10              | 98.68  | 3427             | 1.35              | 30000            | M1032100_M_ 3.7C--                                                                       | 243                             | 132S          |
| 8.4             | 113.96 | 4080             | 1.18              | 30000            | M1032112_M_ 3.7C--                                                                       | 243                             | 132S          |
| 7.6             | 125.81 | 4510             | 1.06              | 30000            | M1032125_M_ 3.7C--                                                                       | 243                             | 132S          |
| 6.3             | 152.91 | 5440             | 0.88              | 30000            | M1032160_M_ 3.7C--                                                                       | 243                             | 132S          |
| 19              | 50.70  | 1823             | 3.23              | 55000            | M132250_M_ 3.7C--                                                                        | 301                             | 132S          |
| 18              | 53.94  | 1924             | 3.23              | 55000            | M132256_M_ 3.7C--                                                                        | 301                             | 132S          |
| 14              | 66.4   | 2448             | 4.09              | 55000            | M133263_M_ 3.7C--                                                                        | 340                             | 132S          |
| 13              | 72.6   | 2637             | 3.74              | 55000            | M133271_M_ 3.7C--                                                                        | 340                             | 132S          |
| 12              | 80.7   | 2856             | 3.36              | 55000            | M133280_M_ 3.7C--                                                                        | 340                             | 132S          |
| 10              | 95.3   | 3427             | 2.85              | 55000            | M1332100_M_ 3.7C--                                                                       | 340                             | 132S          |
| 8.3             | 115.1  | 4130             | 2.36              | 55000            | M1332112_M_ 3.7C--                                                                       | 340                             | 132S          |
| 7.2             | 132.6  | 4760             | 2.05              | 55000            | M1332125_M_ 3.7C--                                                                       | 340                             | 132S          |
| 6.2             | 153.8  | 5528             | 1.76              | 55000            | M1332160_M_ 3.7C--                                                                       | 340                             | 132S          |
| 5.4             | 179.3  | 6347             | 1.51              | 55000            | M1332180_M_ 3.7C--                                                                       | 340                             | 132S          |
| 5.0             | 192.6  | 6855             | 1.37              | 55000            | M1332200_M_ 3.7C--                                                                       | 340                             | 132S          |
| 4.3             | 224.86 | 7807             | 1.23              | 55000            | M1342225_M_ 3.7C--                                                                       | 379                             | 132S          |
| 3.7             | 258.39 | 9073             | 1.07              | 55000            | M1342250_M_ 3.7C--                                                                       | 379                             | 132S          |
| 10              | 98.30  | 3427             | 3.71              | 68000            | M1432100_M_ 3.7C--                                                                       | 434                             | 132S          |
| 8.1             | 118.61 | 4231             | 3.07              | 68000            | M1432112_M_ 3.7C--                                                                       | 434                             | 132S          |
| 7.0             | 136.66 | 4896             | 2.66              | 68000            | M1432125_M_ 3.7C--                                                                       | 434                             | 132S          |
| 6.1             | 158.58 | 5619             | 2.29              | 68000            | M1432160_M_ 3.7C--                                                                       | 434                             | 132S          |
| 5.2             | 184.83 | 6591             | 1.97              | 68000            | M1432180_M_ 3.7C--                                                                       | 434                             | 132S          |
| 4.8             | 198.58 | 7141             | 1.84              | 68000            | M1432200_M_ 3.7C--                                                                       | 434                             | 132S          |
| 4.2             | 228.38 | 7992             | 1.63              | 68000            | M1442225_M_ 3.7C--                                                                       | 475                             | 132S          |
| 3.9             | 244.15 | 8607             | 1.52              | 68000            | M1442250_M_ 3.7C--                                                                       | 475                             | 132S          |
| 3.5             | 276.86 | 9591             | 1.34              | 68000            | M1442280_M_ 3.7C--                                                                       | 475                             | 132S          |
| 2.8             | 337.68 | 11989            | 1.10              | 68000            | M1442300_M_ 3.7C--                                                                       | 475                             | 132S          |
| 2.7             | 352.51 | 12433            | 1.06              | 68000            | M1442360_M_ 3.7C--                                                                       | 475                             | 132S          |
| 2.4             | 405.06 | 13987            | 0.92              | 68000            | M1442400_M_ 3.7C--                                                                       | 475                             | 132S          |
| 6.4             | 149.79 | 5355             | 3.87              | 98000            | M1632160_M_ 3.7C--                                                                       | 677                             | 132S          |
| 5.5             | 175.64 | 6232             | 3.05              | 98000            | M1632180_M_ 3.7C--                                                                       | 677                             | 132S          |
| 4.9             | 197.02 | 6995             | 2.08              | 98000            | M1632200_M_ 3.7C--                                                                       | 677                             | 132S          |
| 4.2             | 228.8  | 7992             | 2.58              | 98000            | M1642225_M_ 3.7C--                                                                       | 844                             | 132S          |
| 3.6             | 264.6  | 9325             | 2.24              | 98000            | M1642250_M_ 3.7C--                                                                       | 844                             | 132S          |
| 3.4             | 285.8  | 9873             | 2.08              | 98000            | M1642280_M_ 3.7C--                                                                       | 844                             | 132S          |
| 3.0             | 323.53 | 11189            | 1.83              | 98000            | M1642300_M_ 3.7C--                                                                       | 844                             | 132S          |
| 2.7             | 360.14 | 12433            | 1.64              | 98000            | M1642360_M_ 3.7C--                                                                       | 844                             | 132S          |
| 2.4             | 400.12 | 13987            | 1.48              | 98000            | M1642400_M_ 3.7C--                                                                       | 844                             | 132S          |
| 1.9             | 504.17 | 17668            | 1.18              | 98000            | M1642500_M_ 3.7C--                                                                       | 844                             | 132S          |
| 1.5             | 646.71 | 22379            | 0.92              | 98000            | M1642650_M_ 3.7C--                                                                       | 844                             | 132S          |



## SELECTION TABLES

**5.5 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 405             | 3.58   | 127              | 1.60              | 4970             | M04223.6_M_-5.5A--                                                                       | 96                              | 132S          |
| 288             | 5.04   | 179              | 1.32              | 4992             | M04225.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 257             | 5.65   | 201              | 1.24              | 5018             | M04225.6_M_-5.5A--                                                                       | 96                              | 132S          |
| 229             | 6.34   | 225              | 1.16              | 5084             | M04226.3_M_-5.5A--                                                                       | 96                              | 132S          |
| 180             | 8.05   | 286              | 1.01              | 5186             | M04228.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 159             | 9.13   | 324              | 0.92              | 5065             | M04229.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 405             | 3.58   | 127              | 2.30              | 4177             | M05223.6_M_-5.5A--                                                                       | 96                              | 132S          |
| 288             | 5.04   | 179              | 2.14              | 4370             | M05225.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 257             | 5.65   | 201              | 2.04              | 4467             | M05225.6_M_-5.5A--                                                                       | 96                              | 132S          |
| 229             | 6.34   | 225              | 1.84              | 4543             | M05226.3_M_-5.5A--                                                                       | 96                              | 132S          |
| 180             | 8.05   | 286              | 1.56              | 4736             | M05228.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 159             | 9.13   | 324              | 1.39              | 4831             | M05229.0_M_-5.5A--                                                                       | 96                              | 132S          |
| 133             | 10.89  | 387              | 1.16              | 4942             | M052211_M_-5.5A--                                                                        | 96                              | 132S          |
| 116             | 12.54  | 445              | 0.96              | 5006             | M052212_M_-5.5A--                                                                        | 96                              | 132S          |
| 99              | 14.58  | 518              | 0.87              | 5140             | M052214_M_-5.5A--                                                                        | 96                              | 132S          |
| 327             | 4.44   | 158              | 2.30              | 7200             | M06225.0_M_-5.5A--                                                                       | 101                             | 132S          |
| 232             | 6.24   | 222              | 2.14              | 7200             | M06225.6_M_-5.5A--                                                                       | 101                             | 132S          |
| 207             | 6.99   | 248              | 2.06              | 7200             | M06226.3_M_-5.5A--                                                                       | 101                             | 132S          |
| 185             | 7.85   | 279              | 1.84              | 7200             | M06228.0_M_-5.5A--                                                                       | 101                             | 132S          |
| 145             | 9.97   | 354              | 1.68              | 7200             | M06229.0_M_-5.5A--                                                                       | 101                             | 132S          |
| 128             | 11.30  | 401              | 1.51              | 7200             | M062211_M_-5.5A--                                                                        | 101                             | 132S          |
| 108             | 13.48  | 479              | 1.28              | 7200             | M062212_M_-5.5A--                                                                        | 101                             | 132S          |
| 93              | 15.52  | 551              | 0.96              | 7200             | M062214_M_-5.5A--                                                                        | 101                             | 132S          |
| 80              | 18.05  | 641              | 0.93              | 7200             | M062216_M_-5.5A--                                                                        | 101                             | 132S          |
| 72              | 20.20  | 717              | 0.87              | 7200             | M062218_M_-5.5A--                                                                        | 101                             | 132S          |
| 67              | 21.53  | 764              | 0.82              | 7200             | M062220_M_-5.5A--                                                                        | 101                             | 132S          |
| 394             | 3.68   | 131              | 2.37              | 8709             | M07223.6_M_-5.5A--                                                                       | 110                             | 132S          |
| 285             | 5.09   | 181              | 2.37              | 7862             | M07225.0_M_-5.5A--                                                                       | 110                             | 132S          |
| 253             | 5.72   | 203              | 2.37              | 7147             | M07225.6_M_-5.5A--                                                                       | 110                             | 132S          |
| 231             | 6.29   | 223              | 2.37              | 6476             | M07226.3_M_-5.5A--                                                                       | 110                             | 132S          |
| 176             | 8.22   | 292              | 2.24              | 5487             | M07228.0_M_-5.5A--                                                                       | 110                             | 132S          |
| 155             | 9.34   | 332              | 2.08              | 5668             | M07229.0_M_-5.5A--                                                                       | 110                             | 132S          |
| 128             | 11.35  | 403              | 1.80              | 5921             | M072211_M_-5.5A--                                                                        | 110                             | 132S          |
| 116             | 12.48  | 443              | 1.67              | 6052             | M072212_M_-5.5A--                                                                        | 110                             | 132S          |
| 101             | 14.34  | 509              | 1.49              | 6240             | M072214_M_-5.5A--                                                                        | 110                             | 132S          |
| 89              | 16.26  | 577              | 1.37              | 6553             | M072216_M_-5.5A--                                                                        | 110                             | 132S          |
| 81              | 17.94  | 637              | 1.25              | 6885             | M072218_M_-5.5A--                                                                        | 110                             | 132S          |
| 71              | 20.54  | 729              | 1.11              | 7384             | M072220_M_-5.5A--                                                                        | 110                             | 132S          |
| 62              | 23.23  | 825              | 0.99              | 7818             | M072222_M_-5.5A--                                                                        | 110                             | 132S          |
| 54              | 26.93  | 956              | 0.87              | 7819             | M072228_M_-5.5A--                                                                        | 110                             | 132S          |
| 394             | 3.68   | 131              | 3.69              | 14661            | M08223.6_M_-5.5A--                                                                       | 143                             | 132S          |
| 278             | 5.21   | 185              | 3.71              | 14092            | M08225.0_M_-5.5A--                                                                       | 143                             | 132S          |
| 250             | 5.79   | 206              | 3.71              | 13169            | M08225.6_M_-5.5A--                                                                       | 143                             | 132S          |
| 225             | 6.44   | 229              | 3.71              | 12015            | M08226.3_M_-5.5A--                                                                       | 143                             | 132S          |
| 174             | 8.33   | 296              | 3.72              | 9198             | M08228.0_M_-5.5A--                                                                       | 143                             | 132S          |
| 155             | 9.35   | 332              | 3.68              | 7524             | M08229.0_M_-5.5A--                                                                       | 143                             | 132S          |
| 126             | 11.47  | 407              | 3.23              | 7509             | M082211_M_-5.5A--                                                                        | 143                             | 132S          |
| 112             | 12.92  | 459              | 2.94              | 7769             | M082212_M_-5.5A--                                                                        | 143                             | 132S          |
| 96              | 15.04  | 534              | 2.65              | 7681             | M082214_M_-5.5A--                                                                        | 143                             | 132S          |
| 87              | 16.69  | 592              | 2.42              | 7990             | M082216_M_-5.5A--                                                                        | 143                             | 132S          |
| 79              | 18.26  | 648              | 2.11              | 8685             | M082218_M_-5.5A--                                                                        | 143                             | 132S          |
| 70              | 20.66  | 733              | 2.00              | 9173             | M082220_M_-5.5A--                                                                        | 143                             | 132S          |
| 62              | 23.32  | 828              | 1.86              | 9636             | M082222_M_-5.5A--                                                                        | 143                             | 132S          |
| 51              | 28.27  | 1004             | 1.60              | 9741             | M082228_M_-5.5A--                                                                        | 143                             | 132S          |
| 44              | 32.97  | 1170             | 1.40              | 10263            | M082232_M_-5.5A--                                                                        | 143                             | 132S          |
| 40              | 36.21  | 1285             | 1.29              | 10798            | M082236_M_-5.5A--                                                                        | 143                             | 132S          |
| 33              | 44.38  | 1575             | 1.06              | 13268            | M082245_M_-5.5A--                                                                        | 143                             | 132S          |
| 30              | 48.46  | 1720             | 0.97              | 13455            | M082250_M_-5.5A--                                                                        | 143                             | 132S          |
| 78              | 18.50  | 657              | 3.84              | 12870            | M092218_M_-5.5A--                                                                        | 191                             | 132S          |
| 70              | 20.59  | 731              | 3.56              | 12763            | M092220_M_-5.5A--                                                                        | 191                             | 132S          |
| 63              | 22.87  | 812              | 3.31              | 12892            | M092222_M_-5.5A--                                                                        | 191                             | 132S          |
| 52              | 27.98  | 993              | 2.89              | 13710            | M092228_M_-5.5A--                                                                        | 191                             | 132S          |
| 45              | 32.31  | 1147             | 2.56              | 14973            | M092232_M_-5.5A--                                                                        | 191                             | 132S          |
| 41              | 35.67  | 1266             | 2.35              | 16145            | M092236_M_-5.5A--                                                                        | 191                             | 132S          |
| 33              | 43.35  | 1539             | 1.99              | 18119            | M092245_M_-5.5A--                                                                        | 191                             | 132S          |
| 30              | 49.07  | 1742             | 1.64              | 20500            | M092250_M_-5.5A--                                                                        | 191                             | 132S          |
| 26              | 55.18  | 1959             | 1.35              | 20500            | M092256_M_-5.5A--                                                                        | 191                             | 132S          |
| 25              | 59.07  | 2076             | 1.50              | 20500            | M093256_M_-5.5A--                                                                        | 206                             | 132S          |
| 22              | 64.64  | 2271             | 1.37              | 20500            | M093263_M_-5.5A--                                                                        | 206                             | 132S          |
| 20              | 73.13  | 2570             | 1.21              | 20500            | M093271_M_-5.5A--                                                                        | 206                             | 132S          |
| 18              | 82.55  | 2901             | 1.07              | 20500            | M093280_M_-5.5A--                                                                        | 206                             | 132S          |
| 14              | 100.07 | 3516             | 0.88              | 20500            | M0932100_M_-5.5A--                                                                       | 206                             | 132S          |
| 35              | 41.12  | 1460             | 3.43              | 23015            | M102245_M_-5.5A--                                                                        | 220                             | 132S          |
| 30              | 47.93  | 1701             | 2.50              | 30000            | M102250_M_-5.5A--                                                                        | 220                             | 132S          |
| 28              | 51.49  | 1828             | 2.12              | 30000            | M102256_M_-5.5A--                                                                        | 220                             | 132S          |



## SELECTION TABLES

**5.5 kW**

4 POLE

**5.5 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 25              | 57.63  | 2025             | 2.36              | 30000            | M103256_M_-5.5A--                                                                        | 243                             | 132S          |
| 22              | 65.24  | 2292             | 2.09              | 30000            | M103263_M_-5.5A--                                                                        | 243                             | 132S          |
| 20              | 72.62  | 2552             | 1.87              | 30000            | M103271_M_-5.5A--                                                                        | 243                             | 132S          |
| 18              | 80.68  | 2835             | 1.69              | 30000            | M103280_M_-5.5A--                                                                        | 243                             | 132S          |
| 15              | 98.68  | 3467             | 1.38              | 30000            | M1032100_M_-5.5A--                                                                       | 243                             | 132S          |
| 13              | 113.96 | 4004             | 1.19              | 30000            | M1032112_M_-5.5A--                                                                       | 243                             | 132S          |
| 12              | 125.81 | 4421             | 1.08              | 30000            | M1032125_M_-5.5A--                                                                       | 243                             | 132S          |
| 9.5             | 152.91 | 5373             | 0.89              | 30000            | M1032160_M_-5.5A--                                                                       | 243                             | 132S          |
| 29              | 50.70  | 1800             | 3.28              | 55000            | M132250_M_-5.5A--                                                                        | 301                             | 132S          |
| 27              | 53.94  | 1915             | 3.28              | 55000            | M132256_M_-5.5A--                                                                        | 301                             | 132S          |
| 20              | 72.60  | 2551             | 3.71              | 55000            | M133271_M_-5.5A--                                                                        | 340                             | 132S          |
| 18              | 80.68  | 2835             | 3.38              | 55000            | M133280_M_-5.5A--                                                                        | 340                             | 132S          |
| 15              | 95.34  | 3350             | 2.90              | 55000            | M1332100_M_-5.5A--                                                                       | 340                             | 132S          |
| 13              | 115.08 | 4044             | 2.40              | 55000            | M1332112_M_-5.5A--                                                                       | 340                             | 132S          |
| 11              | 132.56 | 4658             | 2.08              | 55000            | M1332125_M_-5.5A--                                                                       | 340                             | 132S          |
| 9.4             | 153.81 | 5404             | 1.79              | 55000            | M1332160_M_-5.5A--                                                                       | 340                             | 132S          |
| 8.1             | 179.28 | 6299             | 1.54              | 55000            | M1332180_M_-5.5A--                                                                       | 340                             | 132S          |
| 7.5             | 192.61 | 6768             | 1.43              | 55000            | M1332200_M_-5.5A--                                                                       | 340                             | 132S          |
| 6.4             | 224.86 | 7738             | 1.25              | 55000            | M1342225_M_-5.5A--                                                                       | 379                             | 132S          |
| 5.6             | 258.39 | 8892             | 1.09              | 55000            | M1342250_M_-5.5A--                                                                       | 379                             | 132S          |
| 5.0             | 289.16 | 9951             | 0.97              | 55000            | M1342280_M_-5.5A--                                                                       | 379                             | 132S          |
| 15              | 98.30  | 3454             | 3.76              | 68000            | M1432100_M_-5.5A--                                                                       | 434                             | 132S          |
| 12              | 118.61 | 4168             | 3.12              | 68000            | M1432112_M_-5.5A--                                                                       | 434                             | 132S          |
| 11              | 136.66 | 4802             | 2.71              | 68000            | M1432125_M_-5.5A--                                                                       | 434                             | 132S          |
| 9.1             | 158.58 | 5572             | 2.33              | 68000            | M1432160_M_-5.5A--                                                                       | 434                             | 132S          |
| 7.8             | 184.83 | 6494             | 2.00              | 68000            | M1432180_M_-5.5A--                                                                       | 434                             | 132S          |
| 7.3             | 198.58 | 6978             | 1.86              | 68000            | M1432200_M_-5.5A--                                                                       | 434                             | 132S          |
| 6.3             | 228.38 | 7859             | 1.65              | 68000            | M1442225_M_-5.5A--                                                                       | 475                             | 132S          |
| 5.9             | 244.15 | 8402             | 1.55              | 68000            | M1442250_M_-5.5A--                                                                       | 475                             | 132S          |
| 5.2             | 276.86 | 9528             | 1.36              | 68000            | M1442280_M_-5.5A--                                                                       | 475                             | 132S          |
| 4.3             | 337.68 | 11621            | 1.12              | 68000            | M1442300_M_-5.5A--                                                                       | 475                             | 132S          |
| 4.1             | 352.51 | 12131            | 1.07              | 68000            | M1442360_M_-5.5A--                                                                       | 475                             | 132S          |
| 3.6             | 405.06 | 13939            | 0.93              | 68000            | M1442400_M_-5.5A--                                                                       | 475                             | 132S          |
| 3.2             | 459.33 | 15807            | 0.82              | 68000            | M1442450_M_-5.5A--                                                                       | 475                             | 132S          |
| 10              | 149.79 | 5263             | 3.93              | 98000            | M1632160_M_-5.5A--                                                                       | 677                             | 132S          |
| 8.3             | 175.64 | 6172             | 3.09              | 98000            | M1632180_M_-5.5A--                                                                       | 677                             | 132S          |
| 7.4             | 197.02 | 6923             | 2.11              | 98000            | M1632200_M_-5.5A--                                                                       | 677                             | 132S          |
| 6.3             | 228.84 | 7875             | 2.63              | 98000            | M1642225_M_-5.5A--                                                                       | 844                             | 132S          |
| 5.5             | 264.58 | 9105             | 2.27              | 98000            | M1642250_M_-5.5A--                                                                       | 844                             | 132S          |
| 5.1             | 285.80 | 9835             | 2.10              | 98000            | M1642280_M_-5.5A--                                                                       | 844                             | 132S          |
| 4.5             | 323.53 | 11134            | 1.86              | 98000            | M1642300_M_-5.5A--                                                                       | 844                             | 132S          |
| 4.0             | 360.14 | 12393            | 1.67              | 98000            | M1642360_M_-5.5A--                                                                       | 844                             | 132S          |
| 3.6             | 400.12 | 13769            | 1.50              | 98000            | M1642400_M_-5.5A--                                                                       | 844                             | 132S          |
| 2.9             | 504.17 | 17350            | 1.19              | 98000            | M1642500_M_-5.5A--                                                                       | 844                             | 132S          |
| 2.2             | 646.71 | 22255            | 0.93              | 98000            | M1642650_M_-5.5A--                                                                       | 844                             | 132S          |
| 2.0             | 718.50 | 24726            | 0.84              | 98000            | M1642730_M_-5.5A--                                                                       | 844                             | 132S          |
| 268             | 3.58   | 192              | 1.21              | 4950             | M04223.6_M_-5.5C--                                                                       | 99                              | 132M          |
| 190             | 5.04   | 271              | 1.01              | 5190             | M04225.0_M_-5.5C--                                                                       | 99                              | 132M          |
| 170             | 5.65   | 303              | 0.94              | 5280             | M04225.6_M_-5.5C--                                                                       | 99                              | 132M          |
| 151             | 6.34   | 341              | 0.87              | 5300             | M04226.3_M_-5.5C--                                                                       | 99                              | 132M          |
| 268             | 3.58   | 192              | 1.53              | 4285             | M05223.6_M_-5.5C--                                                                       | 99                              | 132M          |
| 190             | 5.04   | 270              | 1.42              | 4624             | M05225.0_M_-5.5C--                                                                       | 99                              | 132M          |
| 170             | 5.65   | 303              | 1.36              | 4727             | M05225.6_M_-5.5C--                                                                       | 99                              | 132M          |
| 151             | 6.34   | 340              | 1.21              | 4812             | M05226.3_M_-5.5C--                                                                       | 99                              | 132M          |
| 216             | 4.44   | 238              | 1.52              | 7200             | M06225.0_M_-5.5C--                                                                       | 104                             | 132M          |
| 154             | 6.24   | 335              | 1.42              | 7200             | M06225.6_M_-5.5C--                                                                       | 104                             | 132M          |
| 137             | 6.99   | 375              | 1.36              | 7200             | M06226.3_M_-5.5C--                                                                       | 104                             | 132M          |
| 122             | 7.85   | 421              | 1.22              | 7200             | M06228.0_M_-5.5C--                                                                       | 104                             | 132M          |
| 96              | 9.97   | 535              | 1.11              | 7200             | M06229.0_M_-5.5C--                                                                       | 104                             | 132M          |
| 85              | 11.30  | 606              | 1.00              | 7200             | M062211_M_-5.5C--                                                                        | 104                             | 132M          |
| 261             | 3.68   | 197              | 1.57              | 8943             | M07223.6_M_-5.5C--                                                                       | 113                             | 132M          |
| 189             | 5.09   | 273              | 1.57              | 8785             | M07225.0_M_-5.5C--                                                                       | 113                             | 132M          |
| 168             | 5.72   | 307              | 1.57              | 8134             | M07225.6_M_-5.5C--                                                                       | 113                             | 132M          |
| 153             | 6.29   | 337              | 1.57              | 7524             | M07226.3_M_-5.5C--                                                                       | 113                             | 132M          |
| 117             | 8.22   | 441              | 1.57              | 6011             | M07228.0_M_-5.5C--                                                                       | 113                             | 132M          |
| 103             | 9.34   | 501              | 1.50              | 6211             | M07229.0_M_-5.5C--                                                                       | 113                             | 132M          |
| 85              | 11.35  | 609              | 1.28              | 6720             | M072211_M_-5.5C--                                                                        | 113                             | 132M          |
| 77              | 12.48  | 669              | 1.20              | 7060             | M072212_M_-5.5C--                                                                        | 113                             | 132M          |
| 67              | 14.34  | 769              | 1.06              | 7578             | M072214_M_-5.5C--                                                                        | 113                             | 132M          |
| 59              | 16.26  | 872              | 0.95              | 8035             | M072216_M_-5.5C--                                                                        | 113                             | 132M          |
| 54              | 17.94  | 962              | 0.87              | 7819             | M072218_M_-5.5C--                                                                        | 113                             | 132M          |



## SELECTION TABLES

**5.5 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 261             | 3.68   | 197              | 2.46              | 15347            | M08223.6_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 184             | 5.21   | 279              | 2.46              | 15128            | M08225.0_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 166             | 5.79   | 310              | 2.46              | 15442            | M08225.6_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 149             | 6.44   | 345              | 2.46              | 13583            | M08226.3_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 115             | 8.33   | 447              | 2.46              | 10910            | M08228.0_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 103             | 9.35   | 501              | 2.46              | 9374             | M08229.0_M_- 5.5C--                                                                                                      | 146                             | 132M          |
| 84              | 11.47  | 615              | 2.44              | 7280             | M082211_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 74              | 12.92  | 693              | 2.22              | 7534             | M082212_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 64              | 15.04  | 806              | 2.01              | 8044             | M082214_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 58              | 16.69  | 895              | 1.61              | 10243            | M082216_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 53              | 18.26  | 979              | 1.41              | 11839            | M082218_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 46              | 20.66  | 1108             | 1.33              | 12713            | M082220_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 41              | 23.32  | 1250             | 1.24              | 12500            | M082222_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 34              | 28.27  | 1516             | 1.10              | 13442            | M082228_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 29              | 32.97  | 1768             | 0.96              | 14338            | M082232_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 27              | 36.21  | 1942             | 0.88              | 14782            | M082236_M_- 5.5C--                                                                                                       | 146                             | 132M          |
| 59              | 16.34  | 876              | 3.16              | 13052            | M092216_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 52              | 18.50  | 992              | 2.87              | 13926            | M092218_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 47              | 20.59  | 1104             | 2.67              | 14373            | M092220_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 42              | 22.87  | 1226             | 2.49              | 14813            | M092222_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 34              | 27.98  | 1500             | 2.07              | 16144            | M092228_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 30              | 32.31  | 1732             | 1.80              | 18130            | M092232_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 27              | 35.67  | 1913             | 1.63              | 19727            | M092236_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 22              | 43.35  | 2324             | 1.34              | 17450            | M092245_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 20              | 49.07  | 2631             | 1.09              | 20500            | M092250_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 17              | 55.18  | 2959             | 0.90              | 20500            | M092256_M_- 5.5C--                                                                                                       | 194                             | 132M          |
| 16              | 59.07  | 3135             | 0.99              | 20500            | M093256_M_- 5.5C--                                                                                                       | 209                             | 132M          |
| 15              | 64.64  | 3431             | 0.91              | 20500            | M093263_M_- 5.5C--                                                                                                       | 209                             | 132M          |
| 38              | 25.49  | 1367             | 3.44              | 24972            | M102228_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 31              | 30.76  | 1649             | 3.03              | 25984            | M102232_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 27              | 35.44  | 1900             | 2.63              | 29476            | M102236_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 23              | 41.12  | 2205             | 2.27              | 30000            | M102245_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 20              | 47.93  | 2570             | 1.66              | 30000            | M102250_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 19              | 51.49  | 2761             | 1.40              | 30000            | M102256_M_- 5.5C--                                                                                                       | 223                             | 132M          |
| 17              | 57.63  | 3059             | 1.56              | 30000            | M103256_M_- 5.5C--                                                                                                       | 246                             | 132M          |
| 15              | 65.24  | 3462             | 1.38              | 30000            | M103263_M_- 5.5C--                                                                                                       | 246                             | 132M          |
| 13              | 72.62  | 3854             | 1.24              | 30000            | M103271_M_- 5.5C--                                                                                                       | 246                             | 132M          |
| 12              | 80.68  | 4282             | 1.12              | 30000            | M103280_M_- 5.5C--                                                                                                       | 246                             | 132M          |
| 10              | 98.68  | 5237             | 0.91              | 30000            | M1032100_M_- 5.5C--                                                                                                      | 246                             | 132M          |
| 22              | 43.25  | 2319             | 3.33              | 51822            | M132245_M_- 5.5C--                                                                                                       | 304                             | 132M          |
| 19              | 50.70  | 2718             | 2.17              | 55000            | M132250_M_- 5.5C--                                                                                                       | 304                             | 132M          |
| 18              | 53.94  | 2892             | 2.17              | 55000            | M132256_M_- 5.5C--                                                                                                       | 304                             | 132M          |
| 16              | 59.76  | 3172             | 3.04              | 55000            | M133256_M_- 5.5C--                                                                                                       | 343                             | 132M          |
| 14              | 66.40  | 3524             | 2.75              | 55000            | M133263_M_- 5.5C--                                                                                                       | 343                             | 132M          |
| 13              | 72.60  | 3853             | 2.52              | 55000            | M133271_M_- 5.5C--                                                                                                       | 343                             | 132M          |
| 12              | 80.68  | 4282             | 2.27              | 55000            | M133280_M_- 5.5C--                                                                                                       | 343                             | 132M          |
| 10              | 95.34  | 5060             | 1.92              | 55000            | M1332100_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 8.3             | 115.08 | 6108             | 1.59              | 55000            | M1332112_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 7.2             | 132.56 | 7035             | 1.38              | 55000            | M1332125_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 6.2             | 153.81 | 8163             | 1.19              | 55000            | M1332160_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 5.4             | 179.28 | 9515             | 1.02              | 55000            | M1332180_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 5.0             | 192.61 | 10222            | 0.92              | 55000            | M1332200_M_- 5.5C--                                                                                                      | 343                             | 132M          |
| 14              | 68.46  | 3633             | 3.58              | 68000            | M143263_M_- 5.5C--                                                                                                       | 437                             | 132M          |
| 13              | 74.85  | 3972             | 3.27              | 68000            | M143271_M_- 5.5C--                                                                                                       | 437                             | 132M          |
| 12              | 83.17  | 4414             | 2.95              | 68000            | M143280_M_- 5.5C--                                                                                                       | 437                             | 132M          |
| 10              | 98.30  | 5217             | 2.49              | 68000            | M1432100_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 8.1             | 118.61 | 6295             | 2.07              | 68000            | M1432112_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 7.0             | 136.66 | 7253             | 1.79              | 68000            | M1432125_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 6.1             | 158.58 | 8416             | 1.54              | 68000            | M1432160_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 5.2             | 184.83 | 9809             | 1.33              | 68000            | M1432180_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 4.8             | 198.58 | 10539            | 1.23              | 68000            | M1432200_M_- 5.5C--                                                                                                      | 437                             | 132M          |
| 4.2             | 228.38 | 11871            | 1.10              | 68000            | M1442225_M_- 5.5C--                                                                                                      | 478                             | 132M          |
| 3.9             | 244.15 | 12690            | 1.02              | 68000            | M1442250_M_- 5.5C--                                                                                                      | 478                             | 132M          |
| 3.5             | 276.86 | 14391            | 0.90              | 68000            | M1442280_M_- 5.5C--                                                                                                      | 478                             | 132M          |
| 10              | 98.51  | 5228             | 3.96              | 98000            | M1632100_M_- 5.5C--                                                                                                      | 680                             | 132M          |
| 8.1             | 118.21 | 6274             | 3.30              | 98000            | M1632112_M_- 5.5C--                                                                                                      | 680                             | 132M          |
| 7.5             | 128.08 | 6797             | 3.05              | 98000            | M1632125_M_- 5.5C--                                                                                                      | 680                             | 132M          |
| 6.4             | 149.79 | 7950             | 2.60              | 98000            | M1632160_M_- 5.5C--                                                                                                      | 680                             | 132M          |
| 5.5             | 175.64 | 9322             | 2.05              | 98000            | M1632180_M_- 5.5C--                                                                                                      | 680                             | 132M          |
| 4.9             | 197.02 | 10456            | 1.40              | 98000            | M1632200_M_- 5.5C--                                                                                                      | 680                             | 132M          |



## SELECTION TABLES

**5.5 kW**

6 POLE

**7.5 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 4.2             | 228.84 | 11894            | 1.74              | 98000            | M1642225_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 3.6             | 264.58 | 13752            | 1.51              | 98000            | M1642250_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 3.4             | 285.80 | 14855            | 1.39              | 98000            | M1642280_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 3.0             | 323.53 | 16816            | 1.23              | 98000            | M1642300_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 2.7             | 360.14 | 18719            | 1.11              | 98000            | M1642360_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 2.4             | 400.12 | 20797            | 1.00              | 98000            | M1642400_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 2.2             | 445.37 | 23149            | 0.89              | 98000            | M1642450_M_- 5.5C--                                                                                                      | 847                             | 132M          |
| 405             | 3.58   | 173              | 1.17              | 4720             | M04223.6_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 288             | 5.04   | 244              | 0.97              | 4840             | M04225.0_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 257             | 5.65   | 273              | 0.91              | 4900             | M04225.6_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 229             | 6.34   | 307              | 0.85              | 5000             | M04226.3_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 405             | 3.58   | 173              | 1.68              | 4037             | M05223.6_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 288             | 5.04   | 244              | 1.57              | 4223             | M05225.0_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 257             | 5.65   | 274              | 1.50              | 4317             | M05225.6_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 229             | 6.34   | 307              | 1.35              | 4391             | M05226.3_M_- 7.5A--                                                                                                      | 99                              | 132M          |
| 327             | 4.44   | 215              | 1.68              | 7200             | M06225.0_M_- 7.5A--                                                                                                      | 104                             | 132M          |
| 232             | 6.24   | 302              | 1.57              | 7200             | M06225.6_M_- 7.5A--                                                                                                      | 104                             | 132M          |
| 207             | 6.99   | 338              | 1.51              | 7200             | M06226.3_M_- 7.5A--                                                                                                      | 104                             | 132M          |
| 185             | 7.85   | 380              | 1.35              | 7200             | M06228.0_M_- 7.5A--                                                                                                      | 104                             | 132M          |
| 145             | 9.97   | 483              | 1.23              | 7200             | M06229.0_M_- 7.5A--                                                                                                      | 104                             | 132M          |
| 128             | 11.30  | 547              | 1.10              | 7200             | M062211_M_- 7.5A--                                                                                                       | 104                             | 132M          |
| 394             | 3.68   | 178              | 1.74              | 8418             | M07223.6_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 285             | 5.09   | 246              | 1.74              | 7599             | M07225.0_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 253             | 5.72   | 277              | 1.74              | 7415             | M07225.6_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 231             | 6.29   | 304              | 1.74              | 6260             | M07226.3_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 176             | 8.22   | 398              | 1.65              | 5303             | M07228.0_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 155             | 9.34   | 452              | 1.52              | 5478             | M07229.0_M_- 7.5A--                                                                                                      | 113                             | 132M          |
| 128             | 11.35  | 549              | 1.32              | 5723             | M072211_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 116             | 12.48  | 604              | 1.23              | 5852             | M072212_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 101             | 14.34  | 694              | 1.10              | 6031             | M072214_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 89              | 16.26  | 787              | 1.01              | 6337             | M072216_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 81              | 17.94  | 868              | 0.92              | 6659             | M072218_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 71              | 20.54  | 994              | 0.82              | 7142             | M072220_M_- 7.5A--                                                                                                       | 113                             | 132M          |
| 394             | 3.68   | 178              | 2.72              | 14178            | M08223.6_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 278             | 5.21   | 252              | 2.72              | 13997            | M08225.0_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 250             | 5.79   | 280              | 2.72              | 12728            | M08225.6_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 225             | 6.44   | 312              | 2.72              | 11612            | M08226.3_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 174             | 8.33   | 403              | 2.72              | 8886             | M08228.0_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 155             | 9.35   | 453              | 2.71              | 7276             | M08229.0_M_- 7.5A--                                                                                                      | 146                             | 132M          |
| 126             | 11.47  | 555              | 2.38              | 7261             | M082211_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 112             | 12.92  | 625              | 2.17              | 7514             | M082212_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 96              | 15.04  | 728              | 1.95              | 7426             | M082214_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 87              | 16.69  | 808              | 1.78              | 7725             | M082216_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 79              | 18.26  | 884              | 1.55              | 8395             | M082218_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 70              | 20.66  | 1000             | 1.47              | 8868             | M082220_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 62              | 23.32  | 1129             | 1.37              | 9317             | M082222_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 51              | 28.27  | 1369             | 1.18              | 10034            | M082228_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 44              | 32.97  | 1596             | 1.03              | 10100            | M082232_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 40              | 36.21  | 1753             | 0.95              | 10441            | M082236_M_- 7.5A--                                                                                                       | 146                             | 132M          |
| 89              | 16.34  | 791              | 3.10              | 12343            | M092216_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 78              | 18.50  | 896              | 2.81              | 12438            | M092218_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 70              | 20.59  | 997              | 2.61              | 12335            | M092220_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 63              | 22.87  | 1107             | 2.43              | 12459            | M092222_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 52              | 27.98  | 1354             | 2.12              | 13250            | M092228_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 45              | 32.31  | 1564             | 1.88              | 14470            | M092232_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 41              | 35.67  | 1727             | 1.72              | 15604            | M092236_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 33              | 43.35  | 2099             | 1.46              | 17512            | M092245_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 30              | 49.07  | 2375             | 1.20              | 20500            | M092250_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 26              | 55.18  | 2671             | 0.99              | 20500            | M092256_M_- 7.5A--                                                                                                       | 194                             | 132M          |
| 25              | 59.07  | 2830             | 1.10              | 20500            | M093256_M_- 7.5A--                                                                                                       | 209                             | 132M          |
| 22              | 64.64  | 3097             | 1.00              | 20500            | M093263_M_- 7.5A--                                                                                                       | 209                             | 132M          |
| 20              | 73.13  | 3504             | 0.89              | 20500            | M093271_M_- 7.5A--                                                                                                       | 209                             | 132M          |
| 57              | 25.49  | 1234             | 3.81              | 15176            | M102228_M_- 7.5A--                                                                                                       | 223                             | 132M          |
| 47              | 30.76  | 1489             | 3.36              | 15653            | M102232_M_- 7.5A--                                                                                                       | 223                             | 132M          |
| 41              | 35.44  | 1716             | 2.91              | 18898            | M102236_M_- 7.5A--                                                                                                       | 223                             | 132M          |
| 35              | 41.12  | 1991             | 2.51              | 22243            | M102245_M_- 7.5A--                                                                                                       | 223                             | 132M          |
| 30              | 47.93  | 2320             | 1.84              | 30000            | M102250_M_- 7.5A--                                                                                                       | 223                             | 132M          |
| 28              | 51.49  | 2493             | 1.55              | 30000            | M102256_M_- 7.5A--                                                                                                       | 223                             | 132M          |



## SELECTION TABLES

**7.5 kW**

4 POLE

**7.5 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 25              | 57.63  | 2761             | 1.73              | 30000            | M103256_M_- 7.5A--                                                                       | 246                             | 132M          |
| 22              | 65.24  | 3126             | 1.53              | 30000            | M103263_M_- 7.5A--                                                                       | 246                             | 132M          |
| 20              | 72.62  | 3480             | 1.37              | 30000            | M103271_M_- 7.5A--                                                                       | 246                             | 132M          |
| 18              | 80.68  | 3866             | 1.24              | 30000            | M103280_M_- 7.5A--                                                                       | 246                             | 132M          |
| 15              | 98.68  | 4728             | 1.01              | 30000            | M1032100_M_- 7.5A--                                                                      | 246                             | 132M          |
| 13              | 113.96 | 5460             | 0.88              | 30000            | M1032112_M_- 7.5A--                                                                      | 246                             | 132M          |
| 34              | 43.25  | 2094             | 3.69              | 55000            | M132245_M_- 7.5A--                                                                       | 304                             | 132M          |
| 29              | 50.70  | 2454             | 2.41              | 55000            | M132250_M_- 7.5A--                                                                       | 304                             | 132M          |
| 27              | 53.94  | 2611             | 2.41              | 55000            | M132256_M_- 7.5A--                                                                       | 304                             | 132M          |
| 24              | 59.76  | 2863             | 3.22              | 55000            | M133256_M_- 7.5A--                                                                       | 343                             | 132M          |
| 22              | 66.40  | 3182             | 2.94              | 55000            | M133263_M_- 7.5A--                                                                       | 343                             | 132M          |
| 20              | 72.60  | 3479             | 2.72              | 55000            | M133271_M_- 7.5A--                                                                       | 343                             | 132M          |
| 18              | 80.68  | 3866             | 2.48              | 55000            | M133280_M_- 7.5A--                                                                       | 343                             | 132M          |
| 15              | 95.34  | 4568             | 2.12              | 55000            | M1332100_M_- 7.5A--                                                                      | 343                             | 132M          |
| 13              | 115.08 | 5514             | 1.76              | 55000            | M1332112_M_- 7.5A--                                                                      | 343                             | 132M          |
| 11              | 132.56 | 6352             | 1.53              | 55000            | M1332125_M_- 7.5A--                                                                      | 343                             | 132M          |
| 9.4             | 153.81 | 7370             | 1.32              | 55000            | M1332160_M_- 7.5A--                                                                      | 343                             | 132M          |
| 8.1             | 179.28 | 8590             | 1.13              | 55000            | M1332180_M_- 7.5A--                                                                      | 343                             | 132M          |
| 7.5             | 192.61 | 9229             | 1.05              | 55000            | M1332200_M_- 7.5A--                                                                      | 343                             | 132M          |
| 6.4             | 224.86 | 10552            | 0.92              | 55000            | M1342225_M_- 7.5A--                                                                      | 382                             | 132M          |
| 19              | 74.85  | 3586             | 3.62              | 68000            | M143271_M_- 7.5A--                                                                       | 437                             | 132M          |
| 17              | 83.17  | 3985             | 3.26              | 68000            | M143280_M_- 7.5A--                                                                       | 437                             | 132M          |
| 15              | 98.30  | 4710             | 2.76              | 68000            | M1432100_M_- 7.5A--                                                                      | 437                             | 132M          |
| 12              | 118.61 | 5683             | 2.29              | 68000            | M1432112_M_- 7.5A--                                                                      | 437                             | 132M          |
| 11              | 136.66 | 6548             | 1.99              | 68000            | M1432125_M_- 7.5A--                                                                      | 437                             | 132M          |
| 9.1             | 158.58 | 7598             | 1.71              | 68000            | M1432160_M_- 7.5A--                                                                      | 437                             | 132M          |
| 7.8             | 184.83 | 8856             | 1.47              | 68000            | M1432180_M_- 7.5A--                                                                      | 437                             | 132M          |
| 7.3             | 198.58 | 9515             | 1.37              | 68000            | M1432200_M_- 7.5A--                                                                      | 437                             | 132M          |
| 6.3             | 228.38 | 10717            | 1.21              | 68000            | M1442225_M_- 7.5A--                                                                      | 478                             | 132M          |
| 5.9             | 244.15 | 11457            | 1.13              | 68000            | M1442250_M_- 7.5A--                                                                      | 478                             | 132M          |
| 5.2             | 276.86 | 12992            | 1.00              | 68000            | M1442280_M_- 7.5A--                                                                      | 478                             | 132M          |
| 4.3             | 337.68 | 15846            | 0.82              | 68000            | M1442300_M_- 7.5A--                                                                      | 478                             | 132M          |
| 12              | 118.21 | 5664             | 3.65              | 98000            | M1632112_M_- 7.5A--                                                                      | 680                             | 132M          |
| 11              | 128.08 | 6137             | 3.37              | 98000            | M1632125_M_- 7.5A--                                                                      | 680                             | 132M          |
| 10              | 149.79 | 7177             | 2.88              | 98000            | M1632160_M_- 7.5A--                                                                      | 680                             | 132M          |
| 8.3             | 175.64 | 8416             | 2.27              | 98000            | M1632180_M_- 7.5A--                                                                      | 680                             | 132M          |
| 7.4             | 197.02 | 9440             | 1.55              | 98000            | M1632200_M_- 7.5A--                                                                      | 680                             | 132M          |
| 6.3             | 228.84 | 10739            | 1.93              | 98000            | M1642225_M_- 7.5A--                                                                      | 847                             | 132M          |
| 5.5             | 264.58 | 12416            | 1.67              | 98000            | M1642250_M_- 7.5A--                                                                      | 847                             | 132M          |
| 5.1             | 285.80 | 13412            | 1.54              | 98000            | M1642280_M_- 7.5A--                                                                      | 847                             | 132M          |
| 4.5             | 323.53 | 15182            | 1.36              | 98000            | M1642300_M_- 7.5A--                                                                      | 847                             | 132M          |
| 4.0             | 360.14 | 16900            | 1.22              | 98000            | M1642360_M_- 7.5A--                                                                      | 847                             | 132M          |
| 3.6             | 400.12 | 18776            | 1.10              | 98000            | M1642400_M_- 7.5A--                                                                      | 847                             | 132M          |
| 3.3             | 445.37 | 20900            | 0.99              | 98000            | M1642450_M_- 7.5A--                                                                      | 847                             | 132M          |
| 2.9             | 504.17 | 23659            | 0.87              | 98000            | M1642500_M_- 7.5A--                                                                      | 847                             | 132M          |
| 264             | 3.68   | 266              | 1.15              | 8641             | M07223.6_M_- 7.5C--                                                                      | 176                             | 160M          |
| 191             | 5.09   | 368              | 1.15              | 8493             | M07225.0_M_- 7.5C--                                                                      | 176                             | 160M          |
| 170             | 5.72   | 414              | 1.15              | 7864             | M07225.6_M_- 7.5C--                                                                      | 176                             | 160M          |
| 154             | 6.29   | 455              | 1.16              | 7275             | M07226.3_M_- 7.5C--                                                                      | 176                             | 160M          |
| 118             | 8.22   | 595              | 1.15              | 5811             | M07228.0_M_- 7.5C--                                                                      | 176                             | 160M          |
| 104             | 9.34   | 676              | 1.10              | 6002             | M07229.0_M_- 7.5C--                                                                      | 176                             | 160M          |
| 264             | 3.68   | 266              | 1.82              | 14844            | M08223.6_M_- 7.5C--                                                                      | 207                             | 160M          |
| 186             | 5.21   | 377              | 1.82              | 14850            | M08225.0_M_- 7.5C--                                                                      | 207                             | 160M          |
| 168             | 5.79   | 419              | 1.82              | 15100            | M08225.6_M_- 7.5C--                                                                      | 207                             | 160M          |
| 151             | 6.44   | 466              | 1.82              | 13138            | M08226.3_M_- 7.5C--                                                                      | 207                             | 160M          |
| 116             | 8.33   | 603              | 1.82              | 10556            | M08228.0_M_- 7.5C--                                                                      | 207                             | 160M          |
| 104             | 9.35   | 677              | 1.82              | 9068             | M08229.0_M_- 7.5C--                                                                      | 207                             | 160M          |
| 85              | 11.47  | 830              | 1.81              | 7044             | M082211_M_- 7.5C--                                                                       | 207                             | 160M          |
| 75              | 12.92  | 935              | 1.65              | 7289             | M082212_M_- 7.5C--                                                                       | 207                             | 160M          |
| 64              | 15.04  | 1088             | 1.49              | 7783             | M082214_M_- 7.5C--                                                                       | 207                             | 160M          |
| 58              | 16.69  | 1208             | 1.18              | 9895             | M082216_M_- 7.5C--                                                                       | 207                             | 160M          |
| 53              | 18.26  | 1321             | 1.03              | 11436            | M082218_M_- 7.5C--                                                                       | 207                             | 160M          |
| 47              | 20.66  | 1495             | 0.98              | 11171            | M082220_M_- 7.5C--                                                                       | 207                             | 160M          |
| 42              | 23.32  | 1688             | 0.91              | 11187            | M082222_M_- 7.5C--                                                                       | 207                             | 160M          |
| 34              | 28.27  | 2046             | 0.82              | 13006            | M082228_M_- 7.5C--                                                                       | 207                             | 160M          |



## SELECTION TABLES

**7.5 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 118             | 8.22   | 595              | 3.65              | 13490            | M09228.0_M_-7.5C--                                                                                                       | 260                             | 160M          |
| 106             | 9.19   | 665              | 3.40              | 13271            | M09229.0_M_-7.5C--                                                                                                       | 260                             | 160M          |
| 85              | 11.47  | 830              | 2.94              | 12948            | M092211_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 76              | 12.74  | 922              | 2.73              | 12733            | M092212_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 67              | 14.53  | 1051             | 2.50              | 12610            | M092214_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 59              | 16.34  | 1182             | 2.34              | 12629            | M092216_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 52              | 18.50  | 1339             | 2.13              | 13475            | M092218_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 47              | 20.59  | 1490             | 1.98              | 13907            | M092220_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 42              | 22.87  | 1655             | 1.84              | 14332            | M092222_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 35              | 27.98  | 2025             | 1.54              | 15620            | M092228_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 30              | 32.31  | 2338             | 1.33              | 17542            | M092232_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 27              | 35.67  | 2581             | 1.20              | 19087            | M092236_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 22              | 43.35  | 3137             | 0.99              | 16884            | M092245_M_-7.5C--                                                                                                        | 260                             | 160M          |
| 61              | 15.98  | 1156             | 3.17              | 25321            | M102216_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 55              | 17.75  | 1284             | 3.18              | 22831            | M102218_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 50              | 19.41  | 1405             | 3.18              | 20672            | M102220_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 45              | 21.57  | 1561             | 3.00              | 20541            | M102222_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 38              | 25.49  | 1845             | 2.55              | 24162            | M102228_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 32              | 30.76  | 2226             | 2.25              | 25141            | M102232_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 27              | 35.44  | 2565             | 1.95              | 28519            | M102236_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 24              | 41.12  | 2976             | 1.68              | 30000            | M102245_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 20              | 47.93  | 3468             | 1.23              | 30000            | M102250_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 19              | 51.49  | 3726             | 1.04              | 30000            | M102256_M_-7.5C--                                                                                                        | 289                             | 160M          |
| 17              | 57.63  | 4128             | 1.16              | 30000            | M103256_M_-7.5C--                                                                                                        | 312                             | 160M          |
| 15              | 65.24  | 4673             | 1.02              | 30000            | M103263_M_-7.5C--                                                                                                        | 312                             | 160M          |
| 13              | 72.62  | 5201             | 0.92              | 30000            | M103271_M_-7.5C--                                                                                                        | 312                             | 160M          |
| 12              | 80.68  | 5779             | 0.83              | 30000            | M103280_M_-7.5C--                                                                                                        | 312                             | 160M          |
| 29              | 33.25  | 2406             | 3.77              | 49069            | M132232_M_-7.5C--                                                                                                        | 371                             | 160M          |
| 26              | 37.03  | 2680             | 3.43              | 48327            | M132236_M_-7.5C--                                                                                                        | 371                             | 160M          |
| 22              | 43.25  | 3130             | 2.47              | 50140            | M132245_M_-7.5C--                                                                                                        | 371                             | 160M          |
| 19              | 50.70  | 3669             | 1.61              | 55000            | M132250_M_-7.5C--                                                                                                        | 371                             | 160M          |
| 18              | 53.94  | 3903             | 1.61              | 55000            | M132256_M_-7.5C--                                                                                                        | 371                             | 160M          |
| 21              | 46.79  | 3351             | 2.81              | 55000            | M133245_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 18              | 52.97  | 3794             | 2.52              | 55000            | M133250_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 16              | 59.76  | 4280             | 2.25              | 55000            | M133256_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 15              | 66.40  | 4756             | 2.04              | 55000            | M133263_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 13              | 72.60  | 5200             | 1.87              | 55000            | M133271_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 12              | 80.68  | 5779             | 1.68              | 55000            | M133280_M_-7.5C--                                                                                                        | 409                             | 160M          |
| 10              | 95.34  | 6829             | 1.42              | 55000            | M1332100_M_-7.5C--                                                                                                       | 409                             | 160M          |
| 8.4             | 115.08 | 8243             | 1.18              | 55000            | M1332112_M_-7.5C--                                                                                                       | 409                             | 160M          |
| 7.3             | 132.56 | 9495             | 1.02              | 55000            | M1332125_M_-7.5C--                                                                                                       | 409                             | 160M          |
| 6.3             | 153.81 | 11017            | 0.88              | 55000            | M1332160_M_-7.5C--                                                                                                       | 409                             | 160M          |
| 23              | 42.95  | 3108             | 2.41              | 68000            | M142245_M_-7.5C--                                                                                                        | 463                             | 160M          |
| 19              | 50.36  | 3644             | 2.20              | 68000            | M142250_M_-7.5C--                                                                                                        | 463                             | 160M          |
| 17              | 56.49  | 4088             | 2.04              | 68000            | M142256_M_-7.5C--                                                                                                        | 463                             | 160M          |
| 20              | 48.24  | 3455             | 3.65              | 68000            | M143245_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 18              | 54.61  | 3911             | 3.27              | 68000            | M143250_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 16              | 61.61  | 4413             | 2.95              | 68000            | M143256_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 14              | 68.46  | 4903             | 2.65              | 68000            | M143263_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 13              | 74.85  | 5361             | 2.42              | 68000            | M143271_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 12              | 83.17  | 5957             | 2.18              | 68000            | M143280_M_-7.5C--                                                                                                        | 503                             | 160M          |
| 10              | 98.30  | 7041             | 1.85              | 68000            | M1432100_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 8.2             | 118.61 | 8495             | 1.53              | 68000            | M1432112_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 7.1             | 136.66 | 9788             | 1.33              | 68000            | M1432125_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 6.1             | 158.58 | 11358            | 1.14              | 68000            | M1432160_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 5.2             | 184.83 | 13238            | 0.98              | 68000            | M1432180_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 4.9             | 198.58 | 14223            | 0.91              | 68000            | M1432200_M_-7.5C--                                                                                                       | 503                             | 160M          |
| 4.2             | 228.38 | 16020            | 0.81              | 68000            | M1442225_M_-7.5C--                                                                                                       | 541                             | 160M          |
| 13              | 74.49  | 5335             | 3.88              | 98000            | M163271_M_-7.5C--                                                                                                        | 748                             | 160M          |
| 12              | 82.13  | 5883             | 3.52              | 98000            | M163280_M_-7.5C--                                                                                                        | 748                             | 160M          |
| 10              | 98.51  | 7056             | 2.93              | 98000            | M1632100_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 8.2             | 118.21 | 8467             | 2.44              | 98000            | M1632112_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 7.6             | 128.08 | 9174             | 2.26              | 98000            | M1632125_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 6.5             | 149.79 | 10729            | 1.93              | 98000            | M1632160_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 5.5             | 175.64 | 12580            | 1.52              | 98000            | M1632180_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 4.9             | 197.02 | 14112            | 1.03              | 98000            | M1632200_M_-7.5C--                                                                                                       | 748                             | 160M          |
| 4.2             | 228.84 | 16052            | 1.29              | 98000            | M1642225_M_-7.5C--                                                                                                       | 913                             | 160M          |
| 3.7             | 264.58 | 18560            | 1.12              | 98000            | M1642250_M_-7.5C--                                                                                                       | 913                             | 160M          |
| 3.4             | 285.80 | 20048            | 1.03              | 98000            | M1642280_M_-7.5C--                                                                                                       | 913                             | 160M          |
| 3.0             | 323.53 | 22695            | 0.91              | 98000            | M1642300_M_-7.5C--                                                                                                       | 913                             | 160M          |



## SELECTION TABLES

**11.0 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 397             | 3.68   | 259              | 1.18              | 8065             | M07223.6_M_-11.A--                                                                       | 176                             | 160M          |
| 287             | 5.09   | 359              | 1.18              | 7284             | M07225.0_M_-11.A--                                                                       | 176                             | 160M          |
| 255             | 5.72   | 403              | 1.18              | 6900             | M07225.6_M_-11.A--                                                                       | 176                             | 160M          |
| 232             | 6.29   | 444              | 1.18              | 6570             | M07226.3_M_-11.A--                                                                       | 176                             | 160M          |
| 178             | 8.22   | 580              | 1.13              | 5350             | M07228.0_M_-11.A--                                                                       | 176                             | 160M          |
| 156             | 9.34   | 659              | 1.05              | 5256             | M07229.0_M_-11.A--                                                                       | 176                             | 160M          |
| 397             | 3.68   | 259              | 1.87              | 13605            | M08223.6_M_-11.A--                                                                       | 207                             | 160M          |
| 280             | 5.21   | 367              | 1.87              | 13625            | M08225.0_M_-11.A--                                                                       | 207                             | 160M          |
| 252             | 5.79   | 408              | 1.87              | 12212            | M08225.6_M_-11.A--                                                                       | 207                             | 160M          |
| 227             | 6.44   | 454              | 1.87              | 11141            | M08226.3_M_-11.A--                                                                       | 207                             | 160M          |
| 175             | 8.33   | 587              | 1.87              | 8529             | M08228.0_M_-11.A--                                                                       | 207                             | 160M          |
| 156             | 9.35   | 659              | 1.85              | 6977             | M08229.0_M_-11.A--                                                                       | 207                             | 160M          |
| 127             | 11.47  | 809              | 1.63              | 6964             | M082211_M_-11.A--                                                                        | 207                             | 160M          |
| 113             | 12.92  | 911              | 1.48              | 7204             | M082212_M_-11.A--                                                                        | 207                             | 160M          |
| 97              | 15.04  | 1061             | 1.34              | 7126             | M082214_M_-11.A--                                                                        | 207                             | 160M          |
| 87              | 16.69  | 1177             | 1.22              | 7410             | M082216_M_-11.A--                                                                        | 207                             | 160M          |
| 80              | 18.26  | 1288             | 1.06              | 8493             | M082218_M_-11.A--                                                                        | 207                             | 160M          |
| 71              | 20.66  | 1457             | 1.01              | 8509             | M082220_M_-11.A--                                                                        | 207                             | 160M          |
| 63              | 23.32  | 1644             | 0.94              | 8935             | M082222_M_-11.A--                                                                        | 207                             | 160M          |
| 52              | 28.27  | 1993             | 0.80              | 9026             | M082228_M_-11.A--                                                                        | 207                             | 160M          |
| 229             | 6.38   | 450              | 3.91              | 13594            | M09226.3_M_-11.A--                                                                       | 260                             | 160M          |
| 178             | 8.22   | 580              | 3.31              | 13005            | M09228.0_M_-11.A--                                                                       | 260                             | 160M          |
| 159             | 9.19   | 648              | 3.09              | 12905            | M09229.0_M_-11.A--                                                                       | 260                             | 160M          |
| 127             | 11.47  | 809              | 2.66              | 12583            | M092211_M_-11.A--                                                                        | 260                             | 160M          |
| 115             | 12.74  | 898              | 2.48              | 12489            | M092212_M_-11.A--                                                                        | 260                             | 160M          |
| 100             | 14.53  | 1025             | 2.27              | 12369            | M092214_M_-11.A--                                                                        | 260                             | 160M          |
| 89              | 16.34  | 1152             | 2.13              | 11843            | M092216_M_-11.A--                                                                        | 260                             | 160M          |
| 79              | 18.50  | 1304             | 1.93              | 11934            | M092218_M_-11.A--                                                                        | 260                             | 160M          |
| 71              | 20.59  | 1452             | 1.79              | 11835            | M092220_M_-11.A--                                                                        | 260                             | 160M          |
| 64              | 22.87  | 1613             | 1.67              | 11954            | M092222_M_-11.A--                                                                        | 260                             | 160M          |
| 52              | 27.98  | 1973             | 1.45              | 12713            | M092228_M_-11.A--                                                                        | 260                             | 160M          |
| 45              | 32.31  | 2278             | 1.29              | 13884            | M092232_M_-11.A--                                                                        | 260                             | 160M          |
| 41              | 35.67  | 2515             | 1.18              | 14971            | M092236_M_-11.A--                                                                        | 260                             | 160M          |
| 34              | 43.35  | 3057             | 1.00              | 16802            | M092245_M_-11.A--                                                                        | 260                             | 160M          |
| 30              | 49.07  | 3460             | 0.83              | 20075            | M092250_M_-11.A--                                                                        | 260                             | 160M          |
| 91              | 15.98  | 1127             | 3.26              | 19927            | M102216_M_-11.A--                                                                        | 289                             | 160M          |
| 82              | 17.75  | 1252             | 3.27              | 16631            | M102218_M_-11.A--                                                                        | 289                             | 160M          |
| 75              | 19.41  | 1369             | 3.26              | 13551            | M102220_M_-11.A--                                                                        | 289                             | 160M          |
| 68              | 21.57  | 1521             | 3.06              | 12891            | M102222_M_-11.A--                                                                        | 289                             | 160M          |
| 57              | 25.49  | 1797             | 2.61              | 14561            | M102228_M_-11.A--                                                                        | 289                             | 160M          |
| 47              | 30.76  | 2169             | 2.31              | 15018            | M102232_M_-11.A--                                                                        | 289                             | 160M          |
| 41              | 35.44  | 2499             | 2.00              | 18132            | M102236_M_-11.A--                                                                        | 289                             | 160M          |
| 36              | 41.12  | 2899             | 1.72              | 21342            | M102245_M_-11.A--                                                                        | 289                             | 160M          |
| 30              | 47.93  | 3380             | 1.26              | 30000            | M102250_M_-11.A--                                                                        | 289                             | 160M          |
| 28              | 51.49  | 3631             | 1.07              | 30000            | M102256_M_-11.A--                                                                        | 289                             | 160M          |
| 25              | 57.63  | 4022             | 1.19              | 30000            | M103256_M_-11.A--                                                                        | 312                             | 160M          |
| 22              | 65.24  | 4553             | 1.05              | 30000            | M103263_M_-11.A--                                                                        | 312                             | 160M          |
| 20              | 72.62  | 5068             | 0.94              | 30000            | M103271_M_-11.A--                                                                        | 312                             | 160M          |
| 18              | 80.68  | 5631             | 0.85              | 30000            | M103280_M_-11.A--                                                                        | 312                             | 160M          |
| 44              | 33.25  | 2345             | 3.71              | 55000            | M132232_M_-11.A--                                                                        | 371                             | 160M          |
| 39              | 37.03  | 2611             | 3.37              | 55000            | M132236_M_-11.A--                                                                        | 371                             | 160M          |
| 34              | 43.25  | 3050             | 2.53              | 55000            | M132245_M_-11.A--                                                                        | 371                             | 160M          |
| 29              | 50.70  | 3575             | 1.65              | 55000            | M132250_M_-11.A--                                                                        | 371                             | 160M          |
| 27              | 53.94  | 3803             | 1.65              | 55000            | M132256_M_-11.A--                                                                        | 371                             | 160M          |
| 31              | 46.79  | 3266             | 2.76              | 55000            | M133245_M_-11.A--                                                                        | 409                             | 160M          |
| 28              | 52.97  | 3697             | 2.47              | 55000            | M133250_M_-11.A--                                                                        | 409                             | 160M          |
| 24              | 59.76  | 4171             | 2.21              | 55000            | M133256_M_-11.A--                                                                        | 409                             | 160M          |
| 22              | 66.40  | 4634             | 2.02              | 55000            | M133263_M_-11.A--                                                                        | 409                             | 160M          |
| 20              | 72.60  | 5067             | 1.87              | 55000            | M133271_M_-11.A--                                                                        | 409                             | 160M          |
| 18              | 80.68  | 5631             | 1.70              | 55000            | M133280_M_-11.A--                                                                        | 409                             | 160M          |
| 15              | 95.34  | 6654             | 1.46              | 55000            | M1332100_M_-11.A--                                                                       | 409                             | 160M          |
| 13              | 115.08 | 8032             | 1.21              | 55000            | M1332112_M_-11.A--                                                                       | 409                             | 160M          |
| 11              | 132.56 | 9252             | 1.05              | 55000            | M1332125_M_-11.A--                                                                       | 409                             | 160M          |
| 9.5             | 153.81 | 10735            | 0.90              | 55000            | M1332160_M_-11.A--                                                                       | 409                             | 160M          |
| 29              | 50.36  | 3551             | 2.26              | 68000            | M142250_M_-11.A--                                                                        | 463                             | 160M          |
| 26              | 56.49  | 3983             | 2.09              | 68000            | M142256_M_-11.A--                                                                        | 463                             | 160M          |
| 30              | 48.24  | 3367             | 3.45              | 68000            | M143245_M_-11.A--                                                                        | 503                             | 160M          |
| 27              | 54.61  | 3811             | 3.17              | 68000            | M143250_M_-11.A--                                                                        | 503                             | 160M          |
| 24              | 61.61  | 4300             | 3.02              | 68000            | M143256_M_-11.A--                                                                        | 503                             | 160M          |
| 21              | 68.46  | 4778             | 2.66              | 68000            | M143263_M_-11.A--                                                                        | 503                             | 160M          |
| 20              | 74.85  | 5224             | 2.49              | 68000            | M143271_M_-11.A--                                                                        | 503                             | 160M          |
| 18              | 83.17  | 5805             | 2.24              | 68000            | M143280_M_-11.A--                                                                        | 503                             | 160M          |
| 15              | 98.30  | 6861             | 1.89              | 68000            | M1432100_M_-11.A--                                                                       | 503                             | 160M          |
| 12              | 118.61 | 8278             | 1.57              | 68000            | M1432112_M_-11.A--                                                                       | 503                             | 160M          |
| 11              | 136.66 | 9538             | 1.36              | 68000            | M1432125_M_-11.A--                                                                       | 503                             | 160M          |
| 9.2             | 158.58 | 11068            | 1.17              | 68000            | M1432160_M_-11.A--                                                                       | 503                             | 160M          |
| 7.9             | 184.83 | 12900            | 1.01              | 68000            | M1432180_M_-11.A--                                                                       | 503                             | 160M          |
| 7.4             | 198.58 | 13860            | 0.94              | 68000            | M1432200_M_-11.A--                                                                       | 503                             | 160M          |



## SELECTION TABLES

**11.0 kW**

4 POLE

**11.0 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 20              | 74.49  | 5199             | 3.98              | 98000            | M163271_M_-11.A--                                                                        | 748                             | 160M          |
| 18              | 82.13  | 5732             | 3.61              | 98000            | M163280_M_-11.A--                                                                        | 748                             | 160M          |
| 15              | 98.51  | 6875             | 3.01              | 98000            | M1632100_M_-11.A--                                                                       | 748                             | 160M          |
| 12              | 118.21 | 8250             | 2.51              | 98000            | M1632112_M_-11.A--                                                                       | 748                             | 160M          |
| 11              | 128.08 | 8939             | 2.32              | 98000            | M1632125_M_-11.A--                                                                       | 748                             | 160M          |
| 10              | 149.79 | 10454            | 1.98              | 98000            | M1632160_M_-11.A--                                                                       | 748                             | 160M          |
| 8.3             | 175.64 | 12259            | 1.56              | 98000            | M1632180_M_-11.A--                                                                       | 748                             | 160M          |
| 7.4             | 197.02 | 13751            | 1.06              | 98000            | M1632200_M_-11.A--                                                                       | 748                             | 160M          |
| 6.4             | 228.84 | 15642            | 1.32              | 98000            | M1642225_M_-11.A--                                                                       | 913                             | 160M          |
| 5.5             | 264.58 | 18085            | 1.14              | 98000            | M1642250_M_-11.A--                                                                       | 913                             | 160M          |
| 5.1             | 285.80 | 19536            | 1.06              | 98000            | M1642280_M_-11.A--                                                                       | 913                             | 160M          |
| 4.5             | 323.53 | 22115            | 0.94              | 98000            | M1642300_M_-11.A--                                                                       | 913                             | 160M          |
| 4.1             | 360.14 | 24617            | 0.84              | 98000            | M1642360_M_-11.A--                                                                       | 913                             | 160M          |
| 264             | 3.68   | 391              | 1.25              | 14245            | M08223.6_M_-11.C--                                                                       | 214                             | 160L          |
| 186             | 5.21   | 553              | 1.25              | 14300            | M08225.0_M_-11.C--                                                                       | 214                             | 160L          |
| 168             | 5.79   | 615              | 1.25              | 14500            | M08225.6_M_-11.C--                                                                       | 214                             | 160L          |
| 151             | 6.44   | 683              | 1.25              | 14200            | M08226.3_M_-11.C--                                                                       | 214                             | 160L          |
| 116             | 8.33   | 884              | 1.25              | 10126            | M08228.0_M_-11.C--                                                                       | 214                             | 160L          |
| 104             | 9.35   | 992              | 1.25              | 8701             | M08229.0_M_-11.C--                                                                       | 214                             | 160L          |
| 85              | 11.47  | 1217             | 1.23              | 6753             | M082211_M_-11.C--                                                                        | 214                             | 160L          |
| 75              | 12.92  | 1371             | 1.12              | 6989             | M082212_M_-11.C--                                                                        | 214                             | 160L          |
| 64              | 15.04  | 1596             | 1.01              | 7462             | M082214_M_-11.C--                                                                        | 214                             | 160L          |
| 58              | 16.69  | 1771             | 0.81              | 9497             | M082216_M_-11.C--                                                                        | 214                             | 160L          |
| 191             | 5.07   | 538              | 3.40              | 13615            | M09225.0_M_-11.C--                                                                       | 267                             | 160L          |
| 170             | 5.69   | 604              | 3.16              | 13507            | M09225.6_M_-11.C--                                                                       | 267                             | 160L          |
| 152             | 6.38   | 677              | 2.94              | 13286            | M09226.3_M_-11.C--                                                                       | 267                             | 160L          |
| 118             | 8.22   | 872              | 2.49              | 12934            | M09228.0_M_-11.C--                                                                       | 267                             | 160L          |
| 106             | 9.19   | 975              | 2.32              | 12723            | M09229.0_M_-11.C--                                                                       | 267                             | 160L          |
| 85              | 11.47  | 1217             | 2.00              | 12414            | M092211_M_-11.C--                                                                        | 267                             | 160L          |
| 76              | 12.74  | 1352             | 1.86              | 12208            | M092212_M_-11.C--                                                                        | 267                             | 160L          |
| 67              | 14.53  | 1542             | 1.71              | 12089            | M092214_M_-11.C--                                                                        | 267                             | 160L          |
| 59              | 16.34  | 1734             | 1.60              | 12108            | M092216_M_-11.C--                                                                        | 267                             | 160L          |
| 52              | 18.50  | 1963             | 1.45              | 12919            | M092218_M_-11.C--                                                                        | 267                             | 160L          |
| 47              | 20.59  | 2185             | 1.35              | 13333            | M092220_M_-11.C--                                                                        | 267                             | 160L          |
| 42              | 22.87  | 2427             | 1.26              | 13741            | M092222_M_-11.C--                                                                        | 267                             | 160L          |
| 35              | 27.98  | 2970             | 1.05              | 14976            | M092228_M_-11.C--                                                                        | 267                             | 160L          |
| 30              | 32.31  | 3429             | 0.91              | 16818            | M092232_M_-11.C--                                                                        | 267                             | 160L          |
| 27              | 35.67  | 3786             | 0.82              | 18300            | M092236_M_-11.C--                                                                        | 267                             | 160L          |
| 88              | 11.02  | 1170             | 3.61              | 14510            | M102211_M_-11.C--                                                                        | 296                             | 160L          |
| 78              | 12.51  | 1328             | 3.31              | 14033            | M102212_M_-11.C--                                                                        | 296                             | 160L          |
| 69              | 14.16  | 1503             | 3.05              | 13455            | M102214_M_-11.C--                                                                        | 296                             | 160L          |
| 61              | 15.98  | 1696             | 2.16              | 24276            | M102216_M_-11.C--                                                                        | 296                             | 160L          |
| 55              | 17.75  | 1884             | 2.17              | 21889            | M102218_M_-11.C--                                                                        | 296                             | 160L          |
| 50              | 19.41  | 2060             | 2.17              | 19819            | M102220_M_-11.C--                                                                        | 296                             | 160L          |
| 45              | 21.57  | 2289             | 2.05              | 19694            | M102222_M_-11.C--                                                                        | 296                             | 160L          |
| 38              | 25.49  | 2705             | 1.74              | 23166            | M102228_M_-11.C--                                                                        | 296                             | 160L          |
| 32              | 30.76  | 3265             | 1.53              | 24104            | M102232_M_-11.C--                                                                        | 296                             | 160L          |
| 27              | 35.44  | 3761             | 1.33              | 27343            | M102236_M_-11.C--                                                                        | 296                             | 160L          |
| 24              | 41.12  | 4364             | 1.15              | 30000            | M102245_M_-11.C--                                                                        | 296                             | 160L          |
| 20              | 47.93  | 5087             | 0.84              | 30000            | M102250_M_-11.C--                                                                        | 296                             | 160L          |
| 47              | 20.86  | 2214             | 3.91              | 50419            | M132220_M_-11.C--                                                                        | 378                             | 160L          |
| 41              | 23.51  | 2495             | 3.51              | 49593            | M132222_M_-11.C--                                                                        | 378                             | 160L          |
| 36              | 27.08  | 2874             | 3.09              | 48574            | M132228_M_-11.C--                                                                        | 378                             | 160L          |
| 29              | 33.25  | 3529             | 2.57              | 47045            | M132232_M_-11.C--                                                                        | 378                             | 160L          |
| 26              | 37.03  | 3930             | 2.34              | 46333            | M132236_M_-11.C--                                                                        | 378                             | 160L          |
| 22              | 43.25  | 4590             | 1.68              | 48072            | M132245_M_-11.C--                                                                        | 378                             | 160L          |
| 19              | 50.70  | 5381             | 1.10              | 55000            | M132250_M_-11.C--                                                                        | 378                             | 160L          |
| 18              | 53.94  | 5725             | 1.10              | 55000            | M132256_M_-11.C--                                                                        | 378                             | 160L          |
| 21              | 46.79  | 4915             | 1.92              | 55000            | M133245_M_-11.C--                                                                        | 416                             | 160L          |
| 18              | 52.97  | 5564             | 1.72              | 55000            | M133250_M_-11.C--                                                                        | 416                             | 160L          |
| 16              | 59.76  | 6278             | 1.54              | 55000            | M133256_M_-11.C--                                                                        | 416                             | 160L          |
| 15              | 66.40  | 6975             | 1.39              | 55000            | M133263_M_-11.C--                                                                        | 416                             | 160L          |
| 13              | 72.60  | 7627             | 1.27              | 55000            | M133271_M_-11.C--                                                                        | 416                             | 160L          |
| 12              | 80.68  | 8475             | 1.14              | 55000            | M133280_M_-11.C--                                                                        | 416                             | 160L          |
| 10              | 95.34  | 10015            | 0.97              | 55000            | M1332100_M_-11.C--                                                                       | 416                             | 160L          |



## SELECTION TABLES

**11.0 kW**

6 POLE

**15.0 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 29              | 33.89  | 3597             | 3.61              | 68000            | M142232_M_-11.C--                                                                        | 470                             | 160L          |
| 26              | 36.72  | 3897             | 3.34              | 68000            | M142236_M_-11.C--                                                                        | 470                             | 160L          |
| 23              | 42.95  | 4558             | 1.64              | 68000            | M142245_M_-11.C--                                                                        | 470                             | 160L          |
| 19              | 50.36  | 5345             | 1.50              | 68000            | M142250_M_-11.C--                                                                        | 470                             | 160L          |
| 17              | 56.49  | 5995             | 1.39              | 68000            | M142256_M_-11.C--                                                                        | 470                             | 160L          |
| 20              | 48.24  | 5068             | 2.49              | 68000            | M143245_M_-11.C--                                                                        | 510                             | 160L          |
| 18              | 54.61  | 5737             | 2.23              | 68000            | M143250_M_-11.C--                                                                        | 510                             | 160L          |
| 16              | 61.61  | 6472             | 2.01              | 68000            | M143256_M_-11.C--                                                                        | 510                             | 160L          |
| 14              | 68.46  | 7192             | 1.81              | 68000            | M143263_M_-11.C--                                                                        | 510                             | 160L          |
| 13              | 74.85  | 7863             | 1.65              | 68000            | M143271_M_-11.C--                                                                        | 510                             | 160L          |
| 12              | 83.17  | 8737             | 1.49              | 68000            | M143280_M_-11.C--                                                                        | 510                             | 160L          |
| 10              | 98.30  | 10326            | 1.26              | 68000            | M1432100_M_-11.C--                                                                       | 510                             | 160L          |
| 8.2             | 118.61 | 12460            | 1.04              | 68000            | M1432112_M_-11.C--                                                                       | 510                             | 160L          |
| 7.1             | 136.66 | 14356            | 0.91              | 68000            | M1432125_M_-11.C--                                                                       | 510                             | 160L          |
| 19              | 51.82  | 5444             | 3.80              | 98000            | M163250_M_-11.C--                                                                        | 755                             | 160L          |
| 16              | 59.38  | 6238             | 3.32              | 98000            | M163256_M_-11.C--                                                                        | 755                             | 160L          |
| 15              | 63.82  | 6704             | 3.09              | 98000            | M163263_M_-11.C--                                                                        | 755                             | 160L          |
| 13              | 74.49  | 7825             | 2.65              | 98000            | M163271_M_-11.C--                                                                        | 755                             | 160L          |
| 12              | 82.13  | 8628             | 2.40              | 98000            | M163280_M_-11.C--                                                                        | 755                             | 160L          |
| 10              | 98.51  | 10348            | 2.00              | 98000            | M1632100_M_-11.C--                                                                       | 755                             | 160L          |
| 8.2             | 118.21 | 12418            | 1.67              | 98000            | M1632112_M_-11.C--                                                                       | 755                             | 160L          |
| 7.6             | 128.08 | 13455            | 1.54              | 98000            | M1632125_M_-11.C--                                                                       | 755                             | 160L          |
| 6.5             | 149.79 | 15735            | 1.32              | 98000            | M1632160_M_-11.C--                                                                       | 755                             | 160L          |
| 5.5             | 175.64 | 18451            | 1.04              | 98000            | M1632180_M_-11.C--                                                                       | 755                             | 160L          |
| 397             | 3.68   | 354              | 0.86              | 7794             | M07223.6_M_-15.A--                                                                       | 183                             | 160L          |
| 287             | 5.09   | 489              | 0.87              | 7040             | M07225.0_M_-15.A--                                                                       | 183                             | 160L          |
| 255             | 5.72   | 550              | 0.87              | 6399             | M07225.6_M_-15.A--                                                                       | 183                             | 160L          |
| 232             | 6.29   | 605              | 0.87              | 5799             | M07226.3_M_-15.A--                                                                       | 183                             | 160L          |
| 397             | 3.68   | 354              | 1.37              | 13147            | M08223.6_M_-15.A--                                                                       | 214                             | 160L          |
| 280             | 5.21   | 501              | 1.37              | 13200            | M08225.0_M_-15.A--                                                                       | 214                             | 160L          |
| 252             | 5.79   | 557              | 1.37              | 11802            | M08225.6_M_-15.A--                                                                       | 214                             | 160L          |
| 227             | 6.44   | 619              | 1.37              | 10767            | M08226.3_M_-15.A--                                                                       | 214                             | 160L          |
| 175             | 8.33   | 801              | 1.37              | 8243             | M08228.0_M_-15.A--                                                                       | 214                             | 160L          |
| 156             | 9.35   | 899              | 1.36              | 6743             | M08229.0_M_-15.A--                                                                       | 214                             | 160L          |
| 127             | 11.47  | 1103             | 1.20              | 6734             | M082211_M_-15.A--                                                                        | 214                             | 160L          |
| 113             | 12.92  | 1242             | 1.09              | 6966             | M082212_M_-15.A--                                                                        | 214                             | 160L          |
| 97              | 15.04  | 1446             | 0.98              | 6885             | M082214_M_-15.A--                                                                        | 214                             | 160L          |
| 87              | 16.69  | 1605             | 0.90              | 7166             | M082216_M_-15.A--                                                                        | 214                             | 160L          |
| 288             | 5.07   | 488              | 3.30              | 13799            | M09225.0_M_-15.A--                                                                       | 267                             | 160L          |
| 257             | 5.69   | 547              | 3.07              | 13463            | M09225.6_M_-15.A--                                                                       | 267                             | 160L          |
| 229             | 6.38   | 613              | 2.87              | 13138            | M09226.3_M_-15.A--                                                                       | 267                             | 160L          |
| 178             | 8.22   | 790              | 2.43              | 12569            | M09228.0_M_-15.A--                                                                       | 267                             | 160L          |
| 159             | 9.19   | 884              | 2.26              | 12472            | M09229.0_M_-15.A--                                                                       | 267                             | 160L          |
| 127             | 11.47  | 1103             | 1.95              | 12161            | M092211_M_-15.A--                                                                        | 267                             | 160L          |
| 115             | 12.74  | 1225             | 1.82              | 12070            | M092212_M_-15.A--                                                                        | 267                             | 160L          |
| 100             | 14.53  | 1397             | 1.67              | 11954            | M092214_M_-15.A--                                                                        | 267                             | 160L          |
| 89              | 16.34  | 1571             | 1.56              | 11446            | M092216_M_-15.A--                                                                        | 267                             | 160L          |
| 79              | 18.50  | 1779             | 1.42              | 11534            | M092218_M_-15.A--                                                                        | 267                             | 160L          |
| 71              | 20.59  | 1980             | 1.31              | 11438            | M092220_M_-15.A--                                                                        | 267                             | 160L          |
| 64              | 22.87  | 2199             | 1.22              | 11553            | M092222_M_-15.A--                                                                        | 267                             | 160L          |
| 52              | 27.98  | 2690             | 1.07              | 12287            | M092228_M_-15.A--                                                                        | 267                             | 160L          |
| 45              | 32.31  | 3107             | 0.95              | 13418            | M092232_M_-15.A--                                                                        | 267                             | 160L          |
| 41              | 35.67  | 3430             | 0.87              | 14469            | M092236_M_-15.A--                                                                        | 267                             | 160L          |
| 132             | 11.02  | 1060             | 3.52              | 14815            | M102211_M_-15.A--                                                                        | 296                             | 160L          |
| 117             | 12.51  | 1203             | 3.23              | 14450            | M102212_M_-15.A--                                                                        | 296                             | 160L          |
| 103             | 14.16  | 1362             | 2.97              | 13980            | M102214_M_-15.A--                                                                        | 296                             | 160L          |
| 91              | 15.98  | 1537             | 2.39              | 19259            | M102216_M_-15.A--                                                                        | 296                             | 160L          |
| 82              | 17.75  | 1707             | 2.40              | 16073            | M102218_M_-15.A--                                                                        | 296                             | 160L          |
| 75              | 19.41  | 1866             | 2.39              | 13097            | M102220_M_-15.A--                                                                        | 296                             | 160L          |
| 68              | 21.57  | 2074             | 2.24              | 12459            | M102222_M_-15.A--                                                                        | 296                             | 160L          |
| 57              | 25.49  | 2451             | 1.92              | 14073            | M102228_M_-15.A--                                                                        | 296                             | 160L          |
| 47              | 30.76  | 2958             | 1.69              | 14515            | M102232_M_-15.A--                                                                        | 296                             | 160L          |
| 41              | 35.44  | 3408             | 1.47              | 17524            | M102236_M_-15.A--                                                                        | 296                             | 160L          |
| 36              | 41.12  | 3954             | 1.26              | 20626            | M102245_M_-15.A--                                                                        | 296                             | 160L          |
| 30              | 47.93  | 4609             | 0.92              | 29742            | M102250_M_-15.A--                                                                        | 296                             | 160L          |
| 25              | 57.63  | 5485             | 0.87              | 30000            | M103256_M_-15.A--                                                                        | 319                             | 160L          |
| 44              | 33.25  | 3197             | 2.72              | 55000            | M132232_M_-15.A--                                                                        | 378                             | 160L          |
| 39              | 37.03  | 3561             | 2.47              | 55000            | M132236_M_-15.A--                                                                        | 378                             | 160L          |
| 34              | 43.25  | 4159             | 1.86              | 55000            | M132245_M_-15.A--                                                                        | 378                             | 160L          |
| 29              | 50.70  | 4875             | 1.21              | 55000            | M132250_M_-15.A--                                                                        | 378                             | 160L          |
| 27              | 53.94  | 5187             | 1.21              | 55000            | M132256_M_-15.A--                                                                        | 378                             | 160L          |



## SELECTION TABLES

**15.0 kW**

4 POLE

**15.0 kW**

6 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 31              | 46.79  | 4453             | 2.02              | 55000            | M133245_M - 15.A--                                                                       | 416                             | 160L          |
| 28              | 52.97  | 5041             | 1.81              | 55000            | M133250_M - 15.A--                                                                       | 416                             | 160L          |
| 24              | 59.76  | 5688             | 1.62              | 55000            | M133256_M - 15.A--                                                                       | 416                             | 160L          |
| 22              | 66.40  | 6319             | 1.48              | 55000            | M133263_M - 15.A--                                                                       | 416                             | 160L          |
| 20              | 72.60  | 6910             | 1.37              | 55000            | M133271_M - 15.A--                                                                       | 416                             | 160L          |
| 18              | 80.68  | 7679             | 1.25              | 55000            | M133280_M - 15.A--                                                                       | 416                             | 160L          |
| 15              | 95.34  | 9074             | 1.07              | 55000            | M1332100_M - 15.A--                                                                      | 416                             | 160L          |
| 13              | 115.08 | 10953            | 0.89              | 55000            | M1332112_M - 15.A--                                                                      | 416                             | 160L          |
| 40              | 36.72  | 3531             | 3.68              | 68000            | M142236_M - 15.A--                                                                       | 470                             | 160L          |
| 34              | 42.95  | 4130             | 1.81              | 68000            | M142245_M - 15.A--                                                                       | 470                             | 160L          |
| 29              | 50.36  | 4842             | 1.66              | 68000            | M142250_M - 15.A--                                                                       | 470                             | 160L          |
| 26              | 56.49  | 5432             | 1.53              | 68000            | M142256_M - 15.A--                                                                       | 470                             | 160L          |
| 30              | 48.24  | 4591             | 2.53              | 68000            | M143245_M - 15.A--                                                                       | 510                             | 160L          |
| 27              | 54.61  | 5197             | 2.33              | 68000            | M143250_M - 15.A--                                                                       | 510                             | 160L          |
| 24              | 61.61  | 5864             | 2.22              | 68000            | M143256_M - 15.A--                                                                       | 510                             | 160L          |
| 21              | 68.46  | 6516             | 1.95              | 68000            | M143263_M - 15.A--                                                                       | 510                             | 160L          |
| 20              | 74.85  | 7124             | 1.82              | 68000            | M143271_M - 15.A--                                                                       | 510                             | 160L          |
| 18              | 83.17  | 7916             | 1.64              | 68000            | M143280_M - 15.A--                                                                       | 510                             | 160L          |
| 15              | 98.30  | 9356             | 1.39              | 68000            | M1432100_M - 15.A--                                                                      | 510                             | 160L          |
| 12              | 118.61 | 11288            | 1.15              | 68000            | M1432112_M - 15.A--                                                                      | 510                             | 160L          |
| 11              | 136.66 | 13006            | 1.00              | 68000            | M1432125_M - 15.A--                                                                      | 510                             | 160L          |
| 9.2             | 158.58 | 15093            | 0.86              | 68000            | M1432160_M - 15.A--                                                                      | 510                             | 160L          |
| 25              | 59.38  | 5651             | 3.66              | 98000            | M163256_M - 15.A--                                                                       | 755                             | 160L          |
| 23              | 63.82  | 6074             | 3.41              | 98000            | M163263_M - 15.A--                                                                       | 755                             | 160L          |
| 20              | 74.49  | 7089             | 2.92              | 98000            | M163271_M - 15.A--                                                                       | 755                             | 160L          |
| 18              | 82.13  | 7817             | 2.65              | 98000            | M163280_M - 15.A--                                                                       | 755                             | 160L          |
| 15              | 98.51  | 9375             | 2.21              | 98000            | M1632100_M - 15.A--                                                                      | 755                             | 160L          |
| 12              | 118.21 | 11250            | 1.84              | 98000            | M1632112_M - 15.A--                                                                      | 755                             | 160L          |
| 11              | 128.08 | 12190            | 1.70              | 98000            | M1632125_M - 15.A--                                                                      | 755                             | 160L          |
| 10              | 149.79 | 14256            | 1.45              | 98000            | M1632160_M - 15.A--                                                                      | 755                             | 160L          |
| 8.3             | 175.64 | 16716            | 1.14              | 98000            | M1632180_M - 15.A--                                                                      | 755                             | 160L          |
| 6.4             | 228.84 | 21330            | 0.97              | 98000            | M1642225_M - 15.A--                                                                      | 920                             | 160L          |
| 5.5             | 264.58 | 24662            | 0.84              | 98000            | M1642250_M - 15.A--                                                                      | 920                             | 160L          |
| 264             | 3.68   | 533              | 3.02              | 14117            | M09223.6_M - 15.C--                                                                      | 324                             | 180L          |
| 191             | 5.07   | 734              | 2.49              | 13158            | M09225.0_M - 15.C--                                                                      | 324                             | 180L          |
| 170             | 5.69   | 823              | 2.32              | 13054            | M09225.6_M - 15.C--                                                                      | 324                             | 180L          |
| 152             | 6.38   | 923              | 2.16              | 12840            | M09226.3_M - 15.C--                                                                      | 324                             | 180L          |
| 118             | 8.22   | 1190             | 1.82              | 12500            | M09228.0_M - 15.C--                                                                      | 324                             | 180L          |
| 106             | 9.19   | 1330             | 1.70              | 12297            | M09229.0_M - 15.C--                                                                      | 324                             | 180L          |
| 85              | 11.47  | 1660             | 1.47              | 11998            | M092211_M - 15.C--                                                                       | 324                             | 180L          |
| 76              | 12.74  | 1844             | 1.37              | 11799            | M092212_M - 15.C--                                                                       | 324                             | 180L          |
| 67              | 14.53  | 2103             | 1.25              | 11684            | M092214_M - 15.C--                                                                       | 324                             | 180L          |
| 59              | 16.34  | 2365             | 1.17              | 11702            | M092216_M - 15.C--                                                                       | 324                             | 180L          |
| 52              | 18.50  | 2677             | 1.06              | 12485            | M092218_M - 15.C--                                                                       | 324                             | 180L          |
| 47              | 20.59  | 2980             | 0.99              | 12886            | M092220_M - 15.C--                                                                       | 324                             | 180L          |
| 42              | 22.87  | 3310             | 0.92              | 13280            | M092222_M - 15.C--                                                                       | 324                             | 180L          |
| 274             | 3.54   | 512              | 3.45              | 26934            | M10223.6_M - 15.C--                                                                      | 353                             | 180L          |
| 196             | 4.94   | 715              | 3.45              | 24756            | M10225.0_M - 15.C--                                                                      | 353                             | 180L          |
| 181             | 5.37   | 777              | 3.46              | 23042            | M10225.6_M - 15.C--                                                                      | 353                             | 180L          |
| 159             | 6.10   | 883              | 3.45              | 20286            | M10226.3_M - 15.C--                                                                      | 353                             | 180L          |
| 122             | 7.95   | 1151             | 3.27              | 15264            | M10228.0_M - 15.C--                                                                      | 353                             | 180L          |
| 113             | 8.58   | 1242             | 3.12              | 14958            | M10229.0_M - 15.C--                                                                      | 353                             | 180L          |
| 88              | 11.02  | 1595             | 2.65              | 14023            | M102211_M - 15.C--                                                                       | 353                             | 180L          |
| 78              | 12.51  | 1811             | 2.43              | 13562            | M102212_M - 15.C--                                                                       | 353                             | 180L          |
| 69              | 14.16  | 2049             | 2.24              | 13004            | M102214_M - 15.C--                                                                       | 353                             | 180L          |
| 61              | 15.98  | 2313             | 1.59              | 23462            | M102216_M - 15.C--                                                                       | 353                             | 180L          |
| 55              | 17.75  | 2569             | 1.59              | 21155            | M102218_M - 15.C--                                                                       | 353                             | 180L          |
| 50              | 19.41  | 2809             | 1.59              | 19154            | M102220_M - 15.C--                                                                       | 353                             | 180L          |
| 45              | 21.57  | 3122             | 1.50              | 19033            | M102222_M - 15.C--                                                                       | 353                             | 180L          |
| 38              | 25.49  | 3689             | 1.27              | 22389            | M102228_M - 15.C--                                                                       | 353                             | 180L          |
| 32              | 30.76  | 4452             | 1.12              | 23296            | M102232_M - 15.C--                                                                       | 353                             | 180L          |
| 27              | 35.44  | 5129             | 0.97              | 26426            | M102236_M - 15.C--                                                                       | 353                             | 180L          |
| 24              | 41.12  | 5951             | 0.84              | 29431            | M102245_M - 15.C--                                                                       | 353                             | 180L          |
| 66              | 14.63  | 2117             | 3.88              | 51428            | M132214_M - 15.C--                                                                       | 434                             | 180L          |
| 60              | 16.12  | 2333             | 3.61              | 50557            | M132216_M - 15.C--                                                                       | 434                             | 180L          |
| 54              | 18.02  | 2608             | 3.22              | 49934            | M132218_M - 15.C--                                                                       | 434                             | 180L          |
| 47              | 20.86  | 3019             | 2.87              | 48728            | M132220_M - 15.C--                                                                       | 434                             | 180L          |
| 41              | 23.51  | 3403             | 2.57              | 47930            | M132222_M - 15.C--                                                                       | 434                             | 180L          |
| 36              | 27.08  | 3919             | 2.27              | 46945            | M132228_M - 15.C--                                                                       | 434                             | 180L          |
| 29              | 33.25  | 4812             | 1.89              | 45467            | M132232_M - 15.C--                                                                       | 434                             | 180L          |
| 26              | 37.03  | 5359             | 1.71              | 44779            | M132236_M - 15.C--                                                                       | 434                             | 180L          |
| 22              | 43.25  | 6259             | 1.23              | 46460            | M132245_M - 15.C--                                                                       | 434                             | 180L          |
| 19              | 50.70  | 7338             | 0.81              | 53706            | M132250_M - 15.C--                                                                       | 434                             | 180L          |
| 18              | 53.94  | 7807             | 0.81              | 53709            | M132256_M - 15.C--                                                                       | 434                             | 180L          |



## SELECTION TABLES

**15.0 kW**

6 POLE

**18.5 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 21              | 46.79  | 6703             | 1.41              | 55000            | M133245_M_-15.C--                                                                        | 473                             | 180L          |
| 18              | 52.97  | 7588             | 1.26              | 55000            | M133250_M_-15.C--                                                                        | 473                             | 180L          |
| 16              | 59.76  | 8561             | 1.13              | 55000            | M133256_M_-15.C--                                                                        | 473                             | 180L          |
| 15              | 66.40  | 9512             | 1.02              | 55000            | M133263_M_-15.C--                                                                        | 473                             | 180L          |
| 13              | 72.60  | 10400            | 0.93              | 55000            | M133271_M_-15.C--                                                                        | 473                             | 180L          |
| 12              | 80.68  | 11557            | 0.84              | 55000            | M133280_M_-15.C--                                                                        | 473                             | 180L          |
| 41              | 23.55  | 3408             | 3.81              | 68000            | M142222_M_-15.C--                                                                        | 528                             | 180L          |
| 34              | 28.24  | 4087             | 3.18              | 68000            | M142228_M_-15.C--                                                                        | 528                             | 180L          |
| 29              | 33.89  | 4905             | 2.65              | 68000            | M142232_M_-15.C--                                                                        | 528                             | 180L          |
| 26              | 36.72  | 5314             | 2.45              | 68000            | M142236_M_-15.C--                                                                        | 528                             | 180L          |
| 23              | 42.95  | 6216             | 1.20              | 68000            | M142245_M_-15.C--                                                                        | 528                             | 180L          |
| 19              | 50.36  | 7288             | 1.10              | 68000            | M142250_M_-15.C--                                                                        | 528                             | 180L          |
| 17              | 56.49  | 8176             | 1.02              | 68000            | M142256_M_-15.C--                                                                        | 528                             | 180L          |
| 20              | 48.24  | 6910             | 1.82              | 68000            | M143245_M_-15.C--                                                                        | 567                             | 180L          |
| 18              | 54.61  | 7823             | 1.64              | 68000            | M143250_M_-15.C--                                                                        | 567                             | 180L          |
| 16              | 61.61  | 8826             | 1.47              | 68000            | M143256_M_-15.C--                                                                        | 567                             | 180L          |
| 14              | 68.46  | 9807             | 1.33              | 68000            | M143263_M_-15.C--                                                                        | 567                             | 180L          |
| 13              | 74.85  | 10722            | 1.21              | 68000            | M143271_M_-15.C--                                                                        | 567                             | 180L          |
| 12              | 83.17  | 11914            | 1.09              | 68000            | M143280_M_-15.C--                                                                        | 567                             | 180L          |
| 10              | 98.30  | 14081            | 0.92              | 68000            | M1432100_M_-15.C--                                                                       | 567                             | 180L          |
| 26              | 37.54  | 5433             | 3.06              | 75000            | M162236_M_-15.C--                                                                        | 815                             | 180L          |
| 22              | 45.05  | 6520             | 1.70              | 75000            | M162245_M_-15.C--                                                                        | 815                             | 180L          |
| 24              | 41.16  | 5896             | 3.51              | 98000            | M163240_M_-15.C--                                                                        | 813                             | 180L          |
| 21              | 45.64  | 6537             | 3.17              | 98000            | M163245_M_-15.C--                                                                        | 813                             | 180L          |
| 19              | 51.82  | 7423             | 2.79              | 98000            | M163250_M_-15.C--                                                                        | 813                             | 180L          |
| 16              | 59.38  | 8506             | 2.43              | 98000            | M163256_M_-15.C--                                                                        | 813                             | 180L          |
| 15              | 63.82  | 9142             | 2.26              | 98000            | M163263_M_-15.C--                                                                        | 813                             | 180L          |
| 13              | 74.49  | 10671            | 1.94              | 98000            | M163271_M_-15.C--                                                                        | 813                             | 180L          |
| 12              | 82.13  | 11765            | 1.76              | 98000            | M163280_M_-15.C--                                                                        | 813                             | 180L          |
| 10              | 98.51  | 14112            | 1.47              | 98000            | M1632100_M_-15.C--                                                                       | 813                             | 180L          |
| 8.2             | 118.21 | 16934            | 1.22              | 98000            | M1632112_M_-15.C--                                                                       | 813                             | 180L          |
| 7.6             | 128.08 | 18347            | 1.13              | 98000            | M1632125_M_-15.C--                                                                       | 813                             | 180L          |
| 6.5             | 149.79 | 21457            | 0.96              | 98000            | M1632160_M_-15.C--                                                                       | 813                             | 180L          |
| 399             | 3.68   | 433              | 3.28              | 15041            | M09223.6_M_-18.A--                                                                       | 314                             | 180M          |
| 290             | 5.07   | 597              | 2.70              | 13495            | M09225.0_M_-18.A--                                                                       | 314                             | 180M          |
| 258             | 5.69   | 670              | 2.51              | 13166            | M09225.6_M_-18.A--                                                                       | 314                             | 180M          |
| 230             | 6.38   | 751              | 2.34              | 12848            | M09226.3_M_-18.A--                                                                       | 314                             | 180M          |
| 179             | 8.22   | 968              | 1.98              | 12292            | M09228.0_M_-18.A--                                                                       | 314                             | 180M          |
| 160             | 9.19   | 1082             | 1.85              | 12196            | M09229.0_M_-18.A--                                                                       | 314                             | 180M          |
| 128             | 11.47  | 1351             | 1.59              | 11893            | M092211_M_-18.A--                                                                        | 314                             | 180M          |
| 115             | 12.74  | 1501             | 1.49              | 11803            | M092212_M_-18.A--                                                                        | 314                             | 180M          |
| 101             | 14.53  | 1711             | 1.36              | 11690            | M092214_M_-18.A--                                                                        | 314                             | 180M          |
| 90              | 16.34  | 1925             | 1.27              | 11193            | M092216_M_-18.A--                                                                        | 314                             | 180M          |
| 79              | 18.50  | 2179             | 1.16              | 11279            | M092218_M_-18.A--                                                                        | 314                             | 180M          |
| 71              | 20.59  | 2425             | 1.07              | 11185            | M092220_M_-18.A--                                                                        | 314                             | 180M          |
| 64              | 22.87  | 2694             | 1.00              | 11298            | M092222_M_-18.A--                                                                        | 314                             | 180M          |
| 53              | 27.98  | 3296             | 0.87              | 12016            | M092228_M_-18.A--                                                                        | 314                             | 180M          |
| 185             | 7.95   | 936              | 3.56              | 16442            | M10228.0_M_-18.A--                                                                       | 343                             | 180M          |
| 171             | 8.58   | 1011             | 3.38              | 15323            | M10229.0_M_-18.A--                                                                       | 343                             | 180M          |
| 133             | 11.02  | 1298             | 2.87              | 14488            | M102211_M_-18.A--                                                                        | 343                             | 180M          |
| 118             | 12.51  | 1473             | 2.64              | 14131            | M102212_M_-18.A--                                                                        | 343                             | 180M          |
| 104             | 14.16  | 1668             | 2.43              | 13671            | M102214_M_-18.A--                                                                        | 343                             | 180M          |
| 92              | 15.98  | 1882             | 1.95              | 18834            | M102216_M_-18.A--                                                                        | 343                             | 180M          |
| 83              | 17.75  | 2091             | 1.96              | 15719            | M102218_M_-18.A--                                                                        | 343                             | 180M          |
| 76              | 19.41  | 2286             | 1.95              | 12808            | M102220_M_-18.A--                                                                        | 343                             | 180M          |
| 68              | 21.57  | 2541             | 1.83              | 12184            | M102222_M_-18.A--                                                                        | 343                             | 180M          |
| 58              | 25.49  | 3002             | 1.57              | 13762            | M102228_M_-18.A--                                                                        | 343                             | 180M          |
| 48              | 30.76  | 3623             | 1.38              | 14194            | M102232_M_-18.A--                                                                        | 343                             | 180M          |
| 41              | 35.44  | 4174             | 1.20              | 17137            | M102236_M_-18.A--                                                                        | 343                             | 180M          |
| 36              | 41.12  | 4843             | 1.03              | 20171            | M102245_M_-18.A--                                                                        | 343                             | 180M          |
| 44              | 33.25  | 3916             | 2.22              | 55000            | M132232_M_-18.A--                                                                        | 424                             | 180M          |
| 40              | 37.03  | 4362             | 2.02              | 55000            | M132236_M_-18.A--                                                                        | 424                             | 180M          |
| 34              | 43.25  | 5094             | 1.52              | 55000            | M132245_M_-18.A--                                                                        | 424                             | 180M          |
| 29              | 50.70  | 5972             | 0.99              | 55000            | M132250_M_-18.A--                                                                        | 424                             | 180M          |
| 27              | 53.94  | 6353             | 0.99              | 55000            | M132256_M_-18.A--                                                                        | 424                             | 180M          |
| 31              | 46.79  | 5455             | 1.65              | 55000            | M133245_M_-18.A--                                                                        | 463                             | 180M          |
| 28              | 52.97  | 6175             | 1.48              | 55000            | M133250_M_-18.A--                                                                        | 463                             | 180M          |
| 25              | 59.76  | 6967             | 1.32              | 55000            | M133256_M_-18.A--                                                                        | 463                             | 180M          |
| 22              | 66.40  | 7741             | 1.21              | 55000            | M133263_M_-18.A--                                                                        | 463                             | 180M          |
| 20              | 72.60  | 8464             | 1.12              | 55000            | M133271_M_-18.A--                                                                        | 463                             | 180M          |
| 18              | 80.68  | 9406             | 1.02              | 55000            | M133280_M_-18.A--                                                                        | 463                             | 180M          |
| 15              | 95.34  | 11115            | 0.87              | 55000            | M1332100_M_-18.A--                                                                       | 463                             | 180M          |
| 52              | 28.24  | 3326             | 3.91              | 68000            | M142228_M_-18.A--                                                                        | 518                             | 180M          |
| 43              | 33.89  | 3992             | 3.26              | 68000            | M142232_M_-18.A--                                                                        | 518                             | 180M          |
| 40              | 36.72  | 4325             | 3.01              | 68000            | M142236_M_-18.A--                                                                        | 518                             | 180M          |
| 34              | 42.95  | 5059             | 1.48              | 68000            | M142245_M_-18.A--                                                                        | 518                             | 180M          |
| 29              | 50.36  | 5932             | 1.35              | 68000            | M142250_M_-18.A--                                                                        | 518                             | 180M          |
| 26              | 56.49  | 6654             | 1.25              | 68000            | M142256_M_-18.A--                                                                        | 518                             | 180M          |
| 30              | 48.24  | 5624             | 2.06              | 68000            | M143245_M_-18.A--                                                                        | 557                             | 180M          |
| 27              | 54.61  | 6366             | 1.90              | 68000            | M143250_M_-18.A--                                                                        | 557                             | 180M          |
| 24              | 61.61  | 7183             | 1.81              | 68000            | M143256_M_-18.A--                                                                        | 557                             | 180M          |
| 21              | 68.46  | 7981             | 1.59              | 68000            | M143263_M_-18.A--                                                                        | 557                             | 180M          |
| 20              | 74.85  | 8726             | 1.49              | 68000            | M143271_M_-18.A--                                                                        | 557                             | 180M          |
| 18              | 83.17  | 9696             | 1.34              | 68000            | M143280_M_-18.A--                                                                        | 557                             | 180M          |



## SELECTION TABLES

**18.5 kW**

4 POLE

**18.5 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 15              | 98.30  | 11460            | 1.13              | 68000            | M1432100_M_-18.A-                                                                        | 557                             | 180M          |
| 12              | 118.61 | 13828            | 0.94              | 68000            | M1432112_M_-18.A-                                                                        | 557                             | 180M          |
| 39              | 37.54  | 4422             | 3.75              | 98000            | M162236_M_-18.A-                                                                         | 805                             | 180M          |
| 33              | 45.05  | 5306             | 2.09              | 98000            | M162245_M_-18.A-                                                                         | 805                             | 180M          |
| 32              | 45.64  | 5320             | 3.89              | 98000            | M163245_M_-18.A-                                                                         | 803                             | 180M          |
| 28              | 51.82  | 6041             | 3.43              | 98000            | M163250_M_-18.A-                                                                         | 803                             | 180M          |
| 25              | 59.38  | 6923             | 2.99              | 98000            | M163256_M_-18.A-                                                                         | 803                             | 180M          |
| 23              | 63.82  | 7440             | 2.78              | 98000            | M163263_M_-18.A-                                                                         | 803                             | 180M          |
| 20              | 74.49  | 8684             | 2.38              | 98000            | M163271_M_-18.A-                                                                         | 803                             | 180M          |
| 18              | 82.13  | 9575             | 2.16              | 98000            | M163280_M_-18.A-                                                                         | 803                             | 180M          |
| 15              | 98.51  | 11484            | 1.80              | 98000            | M1632100_M_-18.A-                                                                        | 803                             | 180M          |
| 12              | 118.21 | 13781            | 1.50              | 98000            | M1632112_M_-18.A-                                                                        | 803                             | 180M          |
| 11              | 128.08 | 14932            | 1.39              | 98000            | M1632125_M_-18.A-                                                                        | 803                             | 180M          |
| 10              | 149.79 | 17463            | 1.19              | 98000            | M1632160_M_-18.A-                                                                        | 803                             | 180M          |
| 8.4             | 175.64 | 20476            | 0.93              | 98000            | M1632180_M_-18.A-                                                                        | 803                             | 180M          |
| 266             | 3.68   | 650              | 2.48              | 13811            | M09223.6_M_-18.C-                                                                        | 375                             | 200L          |
| 193             | 5.07   | 896              | 2.04              | 12873            | M09225.0_M_-18.C-                                                                        | 375                             | 200L          |
| 172             | 5.69   | 1005             | 1.90              | 12771            | M09225.6_M_-18.C-                                                                        | 375                             | 200L          |
| 154             | 6.38   | 1127             | 1.77              | 12561            | M09226.3_M_-18.C-                                                                        | 375                             | 200L          |
| 119             | 8.22   | 1452             | 1.49              | 12228            | M09228.0_M_-18.C-                                                                        | 375                             | 200L          |
| 107             | 9.19   | 1624             | 1.39              | 12030            | M09229.0_M_-18.C-                                                                        | 375                             | 200L          |
| 85              | 11.47  | 2026             | 1.20              | 11737            | M092211_M_-18.C-                                                                         | 375                             | 200L          |
| 77              | 12.74  | 2251             | 1.12              | 11543            | M092212_M_-18.C-                                                                         | 375                             | 200L          |
| 67              | 14.53  | 2567             | 1.02              | 11430            | M092214_M_-18.C-                                                                         | 375                             | 200L          |
| 60              | 16.34  | 2887             | 0.96              | 11448            | M092216_M_-18.C-                                                                         | 375                             | 200L          |
| 53              | 18.50  | 3268             | 0.87              | 12215            | M092218_M_-18.C-                                                                         | 375                             | 200L          |
| 277             | 3.54   | 625              | 2.83              | 26349            | M10223.6_M_-18.C-                                                                        | 404                             | 200L          |
| 198             | 4.94   | 873              | 2.83              | 24219            | M10225.0_M_-18.C-                                                                        | 404                             | 200L          |
| 182             | 5.37   | 949              | 2.84              | 22541            | M10225.6_M_-18.C-                                                                        | 404                             | 200L          |
| 161             | 6.10   | 1078             | 2.83              | 19846            | M10226.3_M_-18.C-                                                                        | 404                             | 200L          |
| 123             | 7.95   | 1405             | 2.68              | 14933            | M10228.0_M_-18.C-                                                                        | 404                             | 200L          |
| 114             | 8.58   | 1516             | 2.55              | 14634            | M10229.0_M_-18.C-                                                                        | 404                             | 200L          |
| 89              | 11.02  | 1947             | 2.17              | 13719            | M102211_M_-18.C-                                                                         | 404                             | 200L          |
| 78              | 12.51  | 2210             | 1.99              | 13268            | M102212_M_-18.C-                                                                         | 404                             | 200L          |
| 69              | 14.16  | 2502             | 1.83              | 12722            | M102214_M_-18.C-                                                                         | 404                             | 200L          |
| 61              | 15.98  | 2823             | 1.30              | 22953            | M102216_M_-18.C-                                                                         | 404                             | 200L          |
| 55              | 17.75  | 3136             | 1.30              | 20696            | M102218_M_-18.C-                                                                         | 404                             | 200L          |
| 50              | 19.41  | 3429             | 1.30              | 18738            | M102220_M_-18.C-                                                                         | 404                             | 200L          |
| 45              | 21.57  | 3811             | 1.23              | 18620            | M102222_M_-18.C-                                                                         | 404                             | 200L          |
| 38              | 25.49  | 4503             | 1.04              | 21903            | M102228_M_-18.C-                                                                         | 404                             | 200L          |
| 32              | 30.76  | 5435             | 0.92              | 22790            | M102232_M_-18.C-                                                                         | 404                             | 200L          |
| 259             | 3.79   | 670              | 3.52              | 55000            | M13223.6_M_-18.C-                                                                        | 486                             | 200L          |
| 186             | 5.26   | 929              | 3.52              | 55000            | M13225.0_M_-18.C-                                                                        | 486                             | 200L          |
| 170             | 5.77   | 1019             | 3.52              | 55000            | M13225.6_M_-18.C-                                                                        | 486                             | 200L          |
| 154             | 6.35   | 1122             | 3.52              | 55000            | M13226.3_M_-18.C-                                                                        | 486                             | 200L          |
| 121             | 8.11   | 1433             | 3.52              | 55000            | M13228.0_M_-18.C-                                                                        | 486                             | 200L          |
| 109             | 8.99   | 1588             | 3.52              | 55000            | M13229.0_M_-18.C-                                                                        | 486                             | 200L          |
| 83              | 11.81  | 2087             | 3.52              | 52949            | M132211_M_-18.C-                                                                         | 486                             | 200L          |
| 76              | 12.92  | 2283             | 3.52              | 51563            | M132212_M_-18.C-                                                                         | 486                             | 200L          |
| 67              | 14.63  | 2585             | 3.18              | 50312            | M132214_M_-18.C-                                                                         | 486                             | 200L          |
| 61              | 16.12  | 2848             | 2.96              | 49459            | M132216_M_-18.C-                                                                         | 486                             | 200L          |
| 54              | 18.02  | 3184             | 2.64              | 48851            | M132218_M_-18.C-                                                                         | 486                             | 200L          |
| 47              | 20.86  | 3685             | 2.35              | 47670            | M132220_M_-18.C-                                                                         | 486                             | 200L          |
| 42              | 23.51  | 4154             | 2.11              | 46890            | M132222_M_-18.C-                                                                         | 486                             | 200L          |
| 36              | 27.08  | 4784             | 1.86              | 45926            | M132228_M_-18.C-                                                                         | 486                             | 200L          |
| 29              | 33.25  | 5874             | 1.55              | 44480            | M132232_M_-18.C-                                                                         | 486                             | 200L          |
| 26              | 37.03  | 6542             | 1.40              | 43807            | M132236_M_-18.C-                                                                         | 486                             | 200L          |
| 23              | 43.25  | 7641             | 1.01              | 45451            | M132245_M_-18.C-                                                                         | 486                             | 200L          |
| 21              | 46.79  | 8183             | 1.15              | 55000            | M133245_M_-18.C-                                                                         | 524                             | 200L          |
| 19              | 52.97  | 9263             | 1.03              | 55000            | M133250_M_-18.C-                                                                         | 524                             | 200L          |
| 16              | 59.76  | 10450            | 0.92              | 55000            | M133256_M_-18.C-                                                                         | 524                             | 200L          |
| 15              | 66.40  | 11612            | 0.84              | 55000            | M133263_M_-18.C-                                                                         | 524                             | 200L          |
| 46              | 21.36  | 3774             | 3.44              | 68000            | M142220_M_-18.C-                                                                         | 581                             | 200L          |
| 42              | 23.55  | 4161             | 3.12              | 68000            | M142222_M_-18.C-                                                                         | 581                             | 200L          |
| 35              | 28.24  | 4989             | 2.61              | 68000            | M142228_M_-18.C-                                                                         | 581                             | 200L          |
| 29              | 33.89  | 5988             | 2.17              | 68000            | M142232_M_-18.C-                                                                         | 581                             | 200L          |
| 27              | 36.72  | 6488             | 2.00              | 68000            | M142236_M_-18.C-                                                                         | 581                             | 200L          |
| 23              | 42.95  | 7588             | 0.99              | 68000            | M142245_M_-18.C-                                                                         | 581                             | 200L          |
| 19              | 50.36  | 8897             | 0.90              | 68000            | M142250_M_-18.C-                                                                         | 581                             | 200L          |
| 17              | 56.49  | 9980             | 0.83              | 68000            | M142256_M_-18.C-                                                                         | 581                             | 200L          |
| 20              | 48.24  | 8436             | 1.49              | 68000            | M143245_M_-18.C-                                                                         | 618                             | 200L          |
| 18              | 54.61  | 9550             | 1.34              | 68000            | M143250_M_-18.C-                                                                         | 618                             | 200L          |
| 16              | 61.61  | 10774            | 1.21              | 68000            | M143256_M_-18.C-                                                                         | 618                             | 200L          |
| 14              | 68.46  | 11972            | 1.09              | 68000            | M143263_M_-18.C-                                                                         | 618                             | 200L          |
| 13              | 74.85  | 13089            | 0.99              | 68000            | M143271_M_-18.C-                                                                         | 618                             | 200L          |
| 12              | 83.17  | 14544            | 0.89              | 68000            | M143280_M_-18.C-                                                                         | 618                             | 200L          |
| 31              | 31.41  | 5549             | 3.53              | 98000            | M162232_M_-18.C-                                                                         | 862                             | 200L          |
| 26              | 37.54  | 6632             | 2.50              | 98000            | M162236_M_-18.C-                                                                         | 862                             | 200L          |
| 22              | 45.05  | 7959             | 1.39              | 98000            | M162245_M_-18.C-                                                                         | 862                             | 200L          |
| 24              | 41.16  | 7198             | 2.88              | 98000            | M163240_M_-18.C-                                                                         | 866                             | 200L          |
| 21              | 45.64  | 7981             | 2.59              | 98000            | M163250_M_-18.C-                                                                         | 866                             | 200L          |
| 19              | 51.82  | 9062             | 2.28              | 98000            | M163256_M_-18.C-                                                                         | 866                             | 200L          |
| 17              | 59.38  | 10384            | 1.99              | 98000            | M163256_M_-18.C-                                                                         | 866                             | 200L          |
| 15              | 63.82  | 11160            | 1.85              | 98000            | M163263_M_-18.C-                                                                         | 866                             | 200L          |
| 13              | 74.49  | 13026            | 1.59              | 98000            | M163271_M_-18.C-                                                                         | 866                             | 200L          |
| 12              | 82.13  | 14362            | 1.44              | 98000            | M163280_M_-18.C-                                                                         | 866                             | 200L          |
| 10              | 98.51  | 17227            | 1.20              | 98000            | M1632100_M_-18.C-                                                                        | 866                             | 200L          |
| 8.3             | 118.21 | 20672            | 1.00              | 98000            | M1632112_M_-18.C-                                                                        | 866                             | 200L          |
| 7.7             | 128.08 | 22398            | 0.92              | 98000            | M1632125_M_-18.C-                                                                        | 866                             | 200L          |



## SELECTION TABLES

**22.0 kW**

4 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 399             | 3.68   | 515              | 2.75              | 14757            | M09223.6_M_-22.A--                                                                                                       | 324                             | 180L          |
| 290             | 5.07   | 710              | 2.27              | 13240            | M09225.0_M_-22.A--                                                                                                       | 324                             | 180L          |
| 258             | 5.69   | 797              | 2.11              | 12917            | M09225.6_M_-22.A--                                                                                                       | 324                             | 180L          |
| 230             | 6.38   | 894              | 1.97              | 12606            | M09226.3_M_-22.A--                                                                                                       | 324                             | 180L          |
| 179             | 8.22   | 1151             | 1.67              | 12060            | M09228.0_M_-22.A--                                                                                                       | 324                             | 180L          |
| 160             | 9.19   | 1287             | 1.55              | 11966            | M09229.0_M_-22.A--                                                                                                       | 324                             | 180L          |
| 128             | 11.47  | 1607             | 1.34              | 11668            | M092211_M_-22.A--                                                                                                        | 324                             | 180L          |
| 115             | 12.74  | 1784             | 1.25              | 11580            | M092212_M_-22.A--                                                                                                        | 324                             | 180L          |
| 101             | 14.53  | 2035             | 1.14              | 11469            | M092214_M_-22.A--                                                                                                        | 324                             | 180L          |
| 90              | 16.34  | 2289             | 1.07              | 10982            | M092216_M_-22.A--                                                                                                        | 324                             | 180L          |
| 79              | 18.50  | 2591             | 0.97              | 11066            | M092218_M_-22.A--                                                                                                        | 324                             | 180L          |
| 71              | 20.59  | 2884             | 0.90              | 10974            | M092220_M_-22.A--                                                                                                        | 324                             | 180L          |
| 64              | 22.87  | 3203             | 0.84              | 11085            | M092222_M_-22.A--                                                                                                        | 324                             | 180L          |
| 415             | 3.54   | 496              | 3.55              | 23795            | M10223.6_M_-22.A--                                                                                                       | 353                             | 180L          |
| 298             | 4.94   | 692              | 3.57              | 25190            | M10225.0_M_-22.A--                                                                                                       | 353                             | 180L          |
| 274             | 5.37   | 752              | 3.58              | 23930            | M10225.6_M_-22.A--                                                                                                       | 353                             | 180L          |
| 241             | 6.10   | 854              | 3.53              | 21831            | M10226.3_M_-22.A--                                                                                                       | 353                             | 180L          |
| 185             | 7.95   | 1114             | 2.99              | 16131            | M10228.0_M_-22.A--                                                                                                       | 353                             | 180L          |
| 171             | 8.58   | 1202             | 2.85              | 15034            | M10229.0_M_-22.A--                                                                                                       | 353                             | 180L          |
| 133             | 11.02  | 1544             | 2.42              | 14215            | M102211_M_-22.A--                                                                                                        | 353                             | 180L          |
| 118             | 12.51  | 1752             | 2.22              | 13864            | M102212_M_-22.A--                                                                                                        | 353                             | 180L          |
| 104             | 14.16  | 1983             | 2.04              | 13413            | M102214_M_-22.A--                                                                                                        | 353                             | 180L          |
| 92              | 15.98  | 2238             | 1.64              | 18478            | M102216_M_-22.A--                                                                                                        | 353                             | 180L          |
| 83              | 17.75  | 2486             | 1.65              | 15422            | M102218_M_-22.A--                                                                                                        | 353                             | 180L          |
| 76              | 19.41  | 2719             | 1.64              | 12566            | M102220_M_-22.A--                                                                                                        | 353                             | 180L          |
| 68              | 21.57  | 3021             | 1.54              | 11954            | M102222_M_-22.A--                                                                                                        | 353                             | 180L          |
| 58              | 25.49  | 3570             | 1.32              | 13502            | M102228_M_-22.A--                                                                                                        | 353                             | 180L          |
| 48              | 30.76  | 4308             | 1.16              | 13926            | M102232_M_-22.A--                                                                                                        | 353                             | 180L          |
| 41              | 35.44  | 4964             | 1.01              | 16813            | M102236_M_-22.A--                                                                                                        | 353                             | 180L          |
| 36              | 41.12  | 5760             | 0.87              | 19790            | M102245_M_-22.A--                                                                                                        | 353                             | 180L          |
| 70              | 20.86  | 2922             | 2.84              | 42849            | M132220_M_-22.A--                                                                                                        | 434                             | 180L          |
| 63              | 23.51  | 3293             | 2.55              | 44451            | M132222_M_-22.A--                                                                                                        | 434                             | 180L          |
| 54              | 27.08  | 3793             | 2.24              | 47872            | M132228_M_-22.A--                                                                                                        | 434                             | 180L          |
| 44              | 33.25  | 4657             | 1.87              | 54308            | M132232_M_-22.A--                                                                                                        | 434                             | 180L          |
| 40              | 37.03  | 5187             | 1.70              | 55000            | M132236_M_-22.A--                                                                                                        | 434                             | 180L          |
| 34              | 43.25  | 6058             | 1.27              | 55000            | M132245_M_-22.A--                                                                                                        | 434                             | 180L          |
| 29              | 50.70  | 7101             | 0.83              | 55000            | M132250_M_-22.A--                                                                                                        | 434                             | 180L          |
| 27              | 53.94  | 7555             | 0.83              | 55000            | M132256_M_-22.A--                                                                                                        | 434                             | 180L          |
| 31              | 46.79  | 6487             | 1.39              | 55000            | M133245_M_-22.A--                                                                                                        | 473                             | 180L          |
| 28              | 52.97  | 7343             | 1.24              | 55000            | M133250_M_-22.A--                                                                                                        | 473                             | 180L          |
| 25              | 59.76  | 8285             | 1.11              | 55000            | M133256_M_-22.A--                                                                                                        | 473                             | 180L          |
| 22              | 66.40  | 9206             | 1.02              | 55000            | M133263_M_-22.A--                                                                                                        | 473                             | 180L          |
| 20              | 72.60  | 10065            | 0.94              | 55000            | M133271_M_-22.A--                                                                                                        | 473                             | 180L          |
| 18              | 80.68  | 11185            | 0.86              | 55000            | M133280_M_-22.A--                                                                                                        | 473                             | 180L          |
| 62              | 23.55  | 3299             | 3.94              | 68000            | M142222_M_-22.A--                                                                                                        | 528                             | 180L          |
| 52              | 28.24  | 3955             | 3.29              | 68000            | M142228_M_-22.A--                                                                                                        | 528                             | 180L          |
| 43              | 33.89  | 4747             | 2.74              | 68000            | M142232_M_-22.A--                                                                                                        | 528                             | 180L          |
| 40              | 36.72  | 5143             | 2.53              | 68000            | M142236_M_-22.A--                                                                                                        | 528                             | 180L          |
| 34              | 42.95  | 6016             | 1.25              | 68000            | M142245_M_-22.A--                                                                                                        | 528                             | 180L          |
| 29              | 50.36  | 7054             | 1.14              | 68000            | M142250_M_-22.A--                                                                                                        | 528                             | 180L          |
| 26              | 56.49  | 7912             | 1.05              | 68000            | M142256_M_-22.A--                                                                                                        | 528                             | 180L          |
| 30              | 48.24  | 6688             | 1.73              | 68000            | M143245_M_-22.A--                                                                                                        | 567                             | 180L          |
| 27              | 54.61  | 7571             | 1.60              | 68000            | M143250_M_-22.A--                                                                                                        | 567                             | 180L          |
| 24              | 61.61  | 8541             | 1.52              | 68000            | M143256_M_-22.A--                                                                                                        | 567                             | 180L          |
| 21              | 68.46  | 9491             | 1.34              | 68000            | M143263_M_-22.A--                                                                                                        | 567                             | 180L          |
| 20              | 74.85  | 10377            | 1.25              | 68000            | M143271_M_-22.A--                                                                                                        | 567                             | 180L          |
| 18              | 83.17  | 11530            | 1.13              | 68000            | M143280_M_-22.A--                                                                                                        | 567                             | 180L          |
| 15              | 98.30  | 13628            | 0.95              | 68000            | M1432100_M_-22.A--                                                                                                       | 567                             | 180L          |
| 39              | 37.54  | 5258             | 3.16              | 75000            | M162236_M_-22.A--                                                                                                        | 815                             | 180L          |
| 33              | 45.05  | 6310             | 1.76              | 75000            | M162245_M_-22.A--                                                                                                        | 815                             | 180L          |
| 36              | 41.16  | 5706             | 3.63              | 98000            | M163240_M_-22.A--                                                                                                        | 813                             | 180L          |
| 32              | 45.64  | 6327             | 3.27              | 98000            | M163245_M_-22.A--                                                                                                        | 813                             | 180L          |
| 28              | 51.82  | 7184             | 2.88              | 98000            | M163250_M_-22.A--                                                                                                        | 813                             | 180L          |
| 25              | 59.38  | 8232             | 2.51              | 98000            | M163256_M_-22.A--                                                                                                        | 813                             | 180L          |
| 23              | 63.82  | 8848             | 2.34              | 98000            | M163263_M_-22.A--                                                                                                        | 813                             | 180L          |
| 20              | 74.49  | 10327            | 2.00              | 98000            | M163271_M_-22.A--                                                                                                        | 813                             | 180L          |
| 18              | 82.13  | 11386            | 1.82              | 98000            | M163280_M_-22.A--                                                                                                        | 813                             | 180L          |
| 15              | 98.51  | 13657            | 1.52              | 98000            | M1632100_M_-22.A--                                                                                                       | 813                             | 180L          |
| 12              | 118.21 | 16388            | 1.26              | 98000            | M1632112_M_-22.A--                                                                                                       | 813                             | 180L          |
| 11              | 128.08 | 17757            | 1.17              | 98000            | M1632125_M_-22.A--                                                                                                       | 813                             | 180L          |
| 10              | 149.79 | 20766            | 1.00              | 98000            | M1632160_M_-22.A--                                                                                                       | 813                             | 180L          |



## SELECTION TABLES

**22.0 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 266             | 3.68  | 773              | 3.69              | 14313            | M09223.6_M_-22.C--                                                                       | 375                             | 200L          |
| 193             | 5.07  | 1065             | 2.77              | 14430            | M09225.0_M_-22.C--                                                                       | 375                             | 200L          |
| 172             | 5.69  | 1195             | 2.55              | 14854            | M09225.6_M_-22.C--                                                                       | 375                             | 200L          |
| 154             | 6.38  | 1340             | 2.32              | 16345            | M09226.3_M_-22.C--                                                                       | 375                             | 200L          |
| 119             | 8.22  | 1727             | 1.80              | 18136            | M09228.0_M_-22.C--                                                                       | 375                             | 200L          |
| 107             | 9.19  | 1931             | 1.61              | 19707            | M09229.0_M_-22.C--                                                                       | 375                             | 200L          |
| 85              | 11.47 | 2410             | 1.29              | 17381            | M092211_M_-22.C--                                                                        | 375                             | 200L          |
| 77              | 12.74 | 2677             | 1.07              | 20500            | M092212_M_-22.C--                                                                        | 375                             | 200L          |
| 67              | 14.53 | 3053             | 0.87              | 20183            | M092214_M_-22.C--                                                                        | 375                             | 200L          |
| 277             | 3.54  | 744              | 2.38              | 25852            | M10223.6_M_-22.C--                                                                       | 404                             | 200L          |
| 198             | 4.94  | 1038             | 2.38              | 23761            | M10225.0_M_-22.C--                                                                       | 404                             | 200L          |
| 182             | 5.37  | 1128             | 2.38              | 22116            | M10225.6_M_-22.C--                                                                       | 404                             | 200L          |
| 161             | 6.10  | 1282             | 2.38              | 19471            | M10226.3_M_-22.C--                                                                       | 404                             | 200L          |
| 123             | 7.95  | 1670             | 2.25              | 14651            | M10228.0_M_-22.C--                                                                       | 404                             | 200L          |
| 114             | 8.58  | 1803             | 2.15              | 14357            | M10229.0_M_-22.C--                                                                       | 404                             | 200L          |
| 89              | 11.02 | 2315             | 1.82              | 13460            | M102211_M_-22.C--                                                                        | 404                             | 200L          |
| 78              | 12.51 | 2628             | 1.67              | 13017            | M102212_M_-22.C--                                                                        | 404                             | 200L          |
| 69              | 14.16 | 2975             | 1.54              | 12481            | M102214_M_-22.C--                                                                        | 404                             | 200L          |
| 61              | 15.98 | 3357             | 1.09              | 22519            | M102216_M_-22.C--                                                                        | 404                             | 200L          |
| 55              | 17.75 | 3729             | 1.10              | 20305            | M102218_M_-22.C--                                                                        | 404                             | 200L          |
| 50              | 19.41 | 4078             | 1.10              | 18385            | M102220_M_-22.C--                                                                        | 404                             | 200L          |
| 45              | 21.57 | 4532             | 1.03              | 18269            | M102222_M_-22.C--                                                                        | 404                             | 200L          |
| 38              | 25.49 | 5355             | 0.88              | 21489            | M102228_M_-22.C--                                                                        | 404                             | 200L          |
| 259             | 3.79  | 796              | 2.96              | 55000            | M13223.6_M_-22.C--                                                                       | 486                             | 200L          |
| 186             | 5.26  | 1105             | 2.96              | 55000            | M13225.0_M_-22.C--                                                                       | 486                             | 200L          |
| 170             | 5.77  | 1212             | 2.96              | 55000            | M13225.6_M_-22.C--                                                                       | 486                             | 200L          |
| 154             | 6.35  | 1334             | 2.96              | 55000            | M13226.3_M_-22.C--                                                                       | 486                             | 200L          |
| 121             | 8.11  | 1704             | 2.96              | 55000            | M13228.0_M_-22.C--                                                                       | 486                             | 200L          |
| 109             | 8.99  | 1889             | 2.96              | 55000            | M13229.0_M_-22.C--                                                                       | 486                             | 200L          |
| 83              | 11.81 | 2481             | 2.96              | 51949            | M132211_M_-22.C--                                                                        | 486                             | 200L          |
| 76              | 12.92 | 2714             | 2.96              | 50589            | M132212_M_-22.C--                                                                        | 486                             | 200L          |
| 67              | 14.63 | 3074             | 2.67              | 49362            | M132214_M_-22.C--                                                                        | 486                             | 200L          |
| 61              | 16.12 | 3387             | 2.49              | 48526            | M132216_M_-22.C--                                                                        | 486                             | 200L          |
| 54              | 18.02 | 3786             | 2.22              | 47928            | M132218_M_-22.C--                                                                        | 486                             | 200L          |
| 47              | 20.86 | 4383             | 1.97              | 46770            | M132220_M_-22.C--                                                                        | 486                             | 200L          |
| 42              | 23.51 | 4939             | 1.77              | 46004            | M132222_M_-22.C--                                                                        | 486                             | 200L          |
| 36              | 27.08 | 5690             | 1.56              | 45059            | M132228_M_-22.C--                                                                        | 486                             | 200L          |
| 29              | 33.25 | 6986             | 1.30              | 43641            | M132232_M_-22.C--                                                                        | 486                             | 200L          |
| 26              | 37.03 | 7780             | 1.18              | 42980            | M132236_M_-22.C--                                                                        | 486                             | 200L          |
| 23              | 43.25 | 9087             | 0.85              | 44593            | M132245_M_-22.C--                                                                        | 486                             | 200L          |
| 21              | 46.79 | 9831             | 0.96              | 54742            | M133245_M_-22.C--                                                                        | 524                             | 200L          |
| 19              | 52.97 | 11129            | 0.86              | 54082            | M133250_M_-22.C--                                                                        | 524                             | 200L          |
| 58              | 17.02 | 3576             | 3.64              | 68000            | M142216_M_-22.C--                                                                        | 581                             | 200L          |
| 54              | 18.30 | 3845             | 3.38              | 68000            | M142218_M_-22.C--                                                                        | 581                             | 200L          |
| 46              | 21.36 | 4488             | 2.90              | 68000            | M142220_M_-22.C--                                                                        | 581                             | 200L          |
| 42              | 23.55 | 4948             | 2.63              | 68000            | M142222_M_-22.C--                                                                        | 581                             | 200L          |
| 35              | 28.24 | 5933             | 2.19              | 68000            | M142228_M_-22.C--                                                                        | 581                             | 200L          |
| 29              | 33.89 | 7120             | 1.83              | 68000            | M142232_M_-22.C--                                                                        | 581                             | 200L          |
| 27              | 36.72 | 7715             | 1.69              | 68000            | M142236_M_-22.C--                                                                        | 581                             | 200L          |
| 23              | 42.95 | 9024             | 0.83              | 68000            | M142245_M_-22.C--                                                                        | 581                             | 200L          |
| 20              | 48.24 | 10032            | 1.26              | 68000            | M143245_M_-22.C--                                                                        | 618                             | 200L          |
| 18              | 54.61 | 11356            | 1.13              | 68000            | M143250_M_-22.C--                                                                        | 618                             | 200L          |
| 16              | 61.61 | 12812            | 1.01              | 68000            | M143256_M_-22.C--                                                                        | 618                             | 200L          |
| 14              | 68.46 | 14237            | 0.91              | 68000            | M143263_M_-22.C--                                                                        | 618                             | 200L          |
| 36              | 27.26 | 5727             | 3.60              | 98000            | M162228_M_-22.C--                                                                        | 862                             | 200L          |
| 31              | 31.41 | 6599             | 2.97              | 98000            | M162232_M_-22.C--                                                                        | 862                             | 200L          |
| 26              | 37.54 | 7887             | 2.10              | 98000            | M162236_M_-22.C--                                                                        | 862                             | 200L          |
| 22              | 45.05 | 9465             | 1.17              | 98000            | M162245_M_-22.C--                                                                        | 862                             | 200L          |
| 24              | 41.16 | 8559             | 2.42              | 98000            | M163240_M_-22.C--                                                                        | 866                             | 200L          |
| 21              | 45.64 | 9490             | 2.18              | 98000            | M163245_M_-22.C--                                                                        | 866                             | 200L          |
| 19              | 51.82 | 10776            | 1.92              | 98000            | M163250_M_-22.C--                                                                        | 866                             | 200L          |
| 17              | 59.38 | 12348            | 1.68              | 98000            | M163256_M_-22.C--                                                                        | 866                             | 200L          |
| 15              | 63.82 | 13272            | 1.56              | 98000            | M163263_M_-22.C--                                                                        | 866                             | 200L          |
| 13              | 74.49 | 15491            | 1.34              | 98000            | M163271_M_-22.C--                                                                        | 866                             | 200L          |
| 12              | 82.13 | 17079            | 1.21              | 98000            | M163280_M_-22.C--                                                                        | 866                             | 200L          |
| 10              | 98.51 | 20486            | 1.01              | 98000            | M1632100_M_-22.C--                                                                       | 866                             | 200L          |



## SELECTION TABLES

**30.0 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i      | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|--------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio  | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 399             | 3.68   | 703              | 2.02              | 14262            | M09223.6_M_-30.A--                                                                       | 375                             | 200L          |
| 290             | 5.07   | 968              | 1.66              | 12796            | M09225.0_M_-30.A--                                                                       | 375                             | 200L          |
| 258             | 5.69   | 1087             | 1.55              | 12484            | M09225.6_M_-30.A--                                                                       | 375                             | 200L          |
| 230             | 6.38   | 1219             | 1.44              | 12183            | M09226.3_M_-30.A--                                                                       | 375                             | 200L          |
| 179             | 8.22   | 1570             | 1.22              | 11655            | M09228.0_M_-30.A--                                                                       | 375                             | 200L          |
| 160             | 9.19   | 1755             | 1.14              | 11565            | M09229.0_M_-30.A--                                                                       | 375                             | 200L          |
| 128             | 11.47  | 2191             | 0.98              | 11277            | M092211_M_-30.A--                                                                        | 375                             | 200L          |
| 115             | 12.74  | 2433             | 0.92              | 11192            | M092212_M_-30.A--                                                                        | 375                             | 200L          |
| 101             | 14.53  | 2775             | 0.84              | 11085            | M092214_M_-30.A--                                                                        | 375                             | 200L          |
| 415             | 3.54   | 676              | 2.60              | 22997            | M10223.6_M_-30.A--                                                                       | 404                             | 200L          |
| 298             | 4.94   | 944              | 2.62              | 24345            | M10225.0_M_-30.A--                                                                       | 404                             | 200L          |
| 274             | 5.37   | 1026             | 2.62              | 23127            | M10225.6_M_-30.A--                                                                       | 404                             | 200L          |
| 241             | 6.10   | 1165             | 2.59              | 21099            | M10226.3_M_-30.A--                                                                       | 404                             | 200L          |
| 185             | 7.95   | 1518             | 2.19              | 15590            | M10228.0_M_-30.A--                                                                       | 404                             | 200L          |
| 171             | 8.58   | 1639             | 2.09              | 14529            | M10229.0_M_-30.A--                                                                       | 404                             | 200L          |
| 133             | 11.02  | 2105             | 1.77              | 13738            | M102211_M_-30.A--                                                                        | 404                             | 200L          |
| 118             | 12.51  | 2389             | 1.63              | 13399            | M102212_M_-30.A--                                                                        | 404                             | 200L          |
| 104             | 14.16  | 2705             | 1.50              | 12963            | M102214_M_-30.A--                                                                        | 404                             | 200L          |
| 92              | 15.98  | 3052             | 1.20              | 17858            | M102216_M_-30.A--                                                                        | 404                             | 200L          |
| 83              | 17.75  | 3390             | 1.21              | 14904            | M102218_M_-30.A--                                                                        | 404                             | 200L          |
| 76              | 19.41  | 3707             | 1.20              | 12144            | M102220_M_-30.A--                                                                        | 404                             | 200L          |
| 68              | 21.57  | 4120             | 1.13              | 11553            | M102222_M_-30.A--                                                                        | 404                             | 200L          |
| 58              | 25.49  | 4869             | 0.97              | 13049            | M102228_M_-30.A--                                                                        | 404                             | 200L          |
| 48              | 30.76  | 5875             | 0.85              | 13459            | M102232_M_-30.A--                                                                        | 404                             | 200L          |
| 388             | 3.79   | 724              | 3.26              | 55000            | M13223.6_M_-30.A--                                                                       | 486                             | 200L          |
| 279             | 5.26   | 1005             | 3.25              | 55000            | M13225.0_M_-30.A--                                                                       | 486                             | 200L          |
| 255             | 5.77   | 1102             | 3.26              | 55000            | M13225.6_M_-30.A--                                                                       | 486                             | 200L          |
| 231             | 6.35   | 1213             | 3.26              | 55000            | M13226.3_M_-30.A--                                                                       | 486                             | 200L          |
| 181             | 8.11   | 1549             | 3.26              | 55000            | M13228.0_M_-30.A--                                                                       | 486                             | 200L          |
| 164             | 8.99   | 1717             | 3.26              | 55000            | M13229.0_M_-30.A--                                                                       | 486                             | 200L          |
| 124             | 11.81  | 2256             | 3.25              | 55000            | M132211_M_-30.A--                                                                        | 486                             | 200L          |
| 114             | 12.92  | 2468             | 3.21              | 55000            | M132212_M_-30.A--                                                                        | 486                             | 200L          |
| 100             | 14.63  | 2794             | 2.87              | 51537            | M132214_M_-30.A--                                                                        | 486                             | 200L          |
| 91              | 16.12  | 3079             | 2.63              | 48377            | M132216_M_-30.A--                                                                        | 486                             | 200L          |
| 82              | 18.02  | 3442             | 2.38              | 43006            | M132218_M_-30.A--                                                                        | 486                             | 200L          |
| 70              | 20.86  | 3984             | 2.08              | 41412            | M132220_M_-30.A--                                                                        | 486                             | 200L          |
| 63              | 23.51  | 4490             | 1.87              | 42960            | M132222_M_-30.A--                                                                        | 486                             | 200L          |
| 54              | 27.08  | 5172             | 1.65              | 46266            | M132228_M_-30.A--                                                                        | 486                             | 200L          |
| 44              | 33.25  | 6351             | 1.37              | 52486            | M132232_M_-30.A--                                                                        | 486                             | 200L          |
| 40              | 37.03  | 7073             | 1.24              | 55000            | M132236_M_-30.A--                                                                        | 486                             | 200L          |
| 34              | 43.25  | 8261             | 0.93              | 55000            | M132245_M_-30.A--                                                                        | 486                             | 200L          |
| 31              | 46.79  | 8846             | 1.02              | 55000            | M133245_M_-30.A--                                                                        | 524                             | 200L          |
| 28              | 52.97  | 10014            | 0.91              | 55000            | M133250_M_-30.A--                                                                        | 524                             | 200L          |
| 86              | 17.02  | 3251             | 3.91              | 68000            | M142216_M_-30.A--                                                                        | 581                             | 200L          |
| 80              | 18.30  | 3495             | 3.66              | 68000            | M142218_M_-30.A--                                                                        | 581                             | 200L          |
| 69              | 21.36  | 4080             | 3.19              | 68000            | M142220_M_-30.A--                                                                        | 581                             | 200L          |
| 62              | 23.55  | 4498             | 2.89              | 68000            | M142222_M_-30.A--                                                                        | 581                             | 200L          |
| 52              | 28.24  | 5394             | 2.41              | 68000            | M142228_M_-30.A--                                                                        | 581                             | 200L          |
| 43              | 33.89  | 6473             | 2.01              | 68000            | M142232_M_-30.A--                                                                        | 581                             | 200L          |
| 40              | 36.72  | 7014             | 1.85              | 68000            | M142236_M_-30.A--                                                                        | 581                             | 200L          |
| 34              | 42.95  | 8203             | 0.91              | 68000            | M142245_M_-30.A--                                                                        | 581                             | 200L          |
| 29              | 50.36  | 9619             | 0.83              | 68000            | M142250_M_-30.A--                                                                        | 581                             | 200L          |
| 30              | 48.24  | 9120             | 1.27              | 68000            | M143245_M_-30.A--                                                                        | 618                             | 200L          |
| 27              | 54.61  | 10324            | 1.17              | 68000            | M143250_M_-30.A--                                                                        | 618                             | 200L          |
| 24              | 61.61  | 11647            | 1.12              | 68000            | M143256_M_-30.A--                                                                        | 618                             | 200L          |
| 21              | 68.46  | 12942            | 0.98              | 68000            | M143263_M_-30.A--                                                                        | 618                             | 200L          |
| 20              | 74.85  | 14150            | 0.92              | 68000            | M143271_M_-30.A--                                                                        | 618                             | 200L          |
| 54              | 27.26  | 5207             | 3.96              | 98000            | M162228_M_-30.A--                                                                        | 862                             | 200L          |
| 47              | 31.41  | 5999             | 3.27              | 98000            | M162232_M_-30.A--                                                                        | 862                             | 200L          |
| 39              | 37.54  | 7170             | 2.32              | 98000            | M162236_M_-30.A--                                                                        | 862                             | 200L          |
| 33              | 45.05  | 8605             | 1.29              | 98000            | M162245_M_-30.A--                                                                        | 862                             | 200L          |
| 36              | 41.16  | 7781             | 2.66              | 98000            | M163240_M_-30.A--                                                                        | 866                             | 200L          |
| 32              | 45.64  | 8628             | 2.40              | 98000            | M163245_M_-30.A--                                                                        | 866                             | 200L          |
| 28              | 51.82  | 9797             | 2.11              | 98000            | M163250_M_-30.A--                                                                        | 866                             | 200L          |
| 25              | 59.38  | 11226            | 1.84              | 98000            | M163256_M_-30.A--                                                                        | 866                             | 200L          |
| 23              | 63.82  | 12065            | 1.72              | 98000            | M163263_M_-30.A--                                                                        | 866                             | 200L          |
| 20              | 74.49  | 14082            | 1.47              | 98000            | M163271_M_-30.A--                                                                        | 866                             | 200L          |
| 18              | 82.13  | 15527            | 1.33              | 98000            | M163280_M_-30.A--                                                                        | 866                             | 200L          |
| 15              | 98.51  | 18623            | 1.11              | 98000            | M1632100_M_-30.A--                                                                       | 866                             | 200L          |
| 12              | 118.21 | 22348            | 0.93              | 98000            | M1632112_M_-30.A--                                                                       | 866                             | 200L          |



## SELECTION TABLES

**30.0 kW**

6 POLE

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 268             | 3.68  | 1049             | 1.53              | 13103            | M09223.6_M_-30.C--                                                                       | 469                             | 225M          |
| 194             | 5.07  | 1445             | 1.27              | 12213            | M09225.0_M_-30.C--                                                                       | 469                             | 225M          |
| 173             | 5.69  | 1622             | 1.18              | 12116            | M09225.6_M_-30.C--                                                                       | 469                             | 225M          |
| 154             | 6.38  | 1819             | 1.09              | 11917            | M09226.3_M_-30.C--                                                                       | 469                             | 225M          |
| 120             | 8.22  | 2343             | 0.93              | 11602            | M09228.0_M_-30.C--                                                                       | 469                             | 225M          |
| 107             | 9.19  | 2620             | 0.86              | 11413            | M09229.0_M_-30.C--                                                                       | 469                             | 225M          |
| 278             | 3.54  | 1009             | 1.75              | 24999            | M10223.6_M_-30.C--                                                                       | 498                             | 225M          |
| 199             | 4.94  | 1408             | 1.75              | 22977            | M10225.0_M_-30.C--                                                                       | 498                             | 225M          |
| 183             | 5.37  | 1531             | 1.76              | 21386            | M10225.6_M_-30.C--                                                                       | 498                             | 225M          |
| 161             | 6.10  | 1739             | 1.75              | 18829            | M10226.3_M_-30.C--                                                                       | 498                             | 225M          |
| 124             | 7.95  | 2266             | 1.66              | 14168            | M10228.0_M_-30.C--                                                                       | 498                             | 225M          |
| 115             | 8.58  | 2446             | 1.58              | 13883            | M10229.0_M_-30.C--                                                                       | 498                             | 225M          |
| 89              | 11.02 | 3141             | 1.34              | 13016            | M102211_M_-30.C--                                                                        | 498                             | 225M          |
| 79              | 12.51 | 3566             | 1.23              | 12588            | M102212_M_-30.C--                                                                        | 498                             | 225M          |
| 70              | 14.16 | 4036             | 1.14              | 12069            | M102214_M_-30.C--                                                                        | 498                             | 225M          |
| 260             | 3.79  | 1080             | 2.18              | 55000            | M13223.6_M_-30.C--                                                                       | 580                             | 225M          |
| 187             | 5.26  | 1499             | 2.18              | 55000            | M13225.0_M_-30.C--                                                                       | 580                             | 225M          |
| 171             | 5.77  | 1645             | 2.18              | 55000            | M13225.6_M_-30.C--                                                                       | 580                             | 225M          |
| 155             | 6.35  | 1810             | 2.18              | 55000            | M13226.3_M_-30.C--                                                                       | 580                             | 225M          |
| 121             | 8.11  | 2312             | 2.18              | 55000            | M13228.0_M_-30.C--                                                                       | 580                             | 225M          |
| 110             | 8.99  | 2563             | 2.18              | 55000            | M13229.0_M_-30.C--                                                                       | 580                             | 225M          |
| 83              | 11.81 | 3366             | 2.18              | 50235            | M132211_M_-30.C--                                                                        | 580                             | 225M          |
| 76              | 12.92 | 3683             | 2.18              | 48920            | M132212_M_-30.C--                                                                        | 580                             | 225M          |
| 67              | 14.63 | 4170             | 1.97              | 47733            | M132214_M_-30.C--                                                                        | 580                             | 225M          |
| 61              | 16.12 | 4595             | 1.83              | 46924            | M132216_M_-30.C--                                                                        | 580                             | 225M          |
| 55              | 18.02 | 5137             | 1.64              | 46347            | M132218_M_-30.C--                                                                        | 580                             | 225M          |
| 47              | 20.86 | 5946             | 1.45              | 45227            | M132220_M_-30.C--                                                                        | 580                             | 225M          |
| 42              | 23.51 | 6701             | 1.31              | 44486            | M132222_M_-30.C--                                                                        | 580                             | 225M          |
| 36              | 27.08 | 7719             | 1.15              | 43572            | M132228_M_-30.C--                                                                        | 580                             | 225M          |
| 30              | 33.25 | 9478             | 0.96              | 42201            | M132232_M_-30.C--                                                                        | 580                             | 225M          |
| 83              | 11.80 | 3364             | 3.81              | 63710            | M142211_M_-30.C--                                                                        | 676                             | 225M          |
| 75              | 13.08 | 3728             | 3.46              | 63963            | M142212_M_-30.C--                                                                        | 676                             | 225M          |
| 66              | 14.86 | 4236             | 3.07              | 68000            | M142214_M_-30.C--                                                                        | 676                             | 225M          |
| 58              | 17.02 | 4851             | 2.68              | 68000            | M142216_M_-30.C--                                                                        | 676                             | 225M          |
| 54              | 18.30 | 5216             | 2.49              | 68000            | M142218_M_-30.C--                                                                        | 676                             | 225M          |
| 46              | 21.36 | 6089             | 2.14              | 68000            | M142220_M_-30.C--                                                                        | 676                             | 225M          |
| 42              | 23.55 | 6713             | 1.94              | 68000            | M142222_M_-30.C--                                                                        | 676                             | 225M          |
| 35              | 28.24 | 8050             | 1.61              | 68000            | M142228_M_-30.C--                                                                        | 676                             | 225M          |
| 29              | 33.89 | 9660             | 1.35              | 68000            | M142232_M_-30.C--                                                                        | 676                             | 225M          |
| 27              | 36.72 | 10467            | 1.24              | 68000            | M142236_M_-30.C--                                                                        | 676                             | 225M          |
| 20              | 48.24 | 13610            | 0.93              | 67426            | M143245_M_-30.C--                                                                        | 712                             | 225M          |
| 18              | 54.61 | 15407            | 0.83              | 66627            | M143250_M_-30.C--                                                                        | 712                             | 225M          |
| 48              | 20.39 | 5812             | 3.54              | 98000            | M162220_M_-30.C--                                                                        | 952                             | 225M          |
| 42              | 23.51 | 6701             | 3.07              | 98000            | M162222_M_-30.C--                                                                        | 952                             | 225M          |
| 36              | 27.26 | 7770             | 2.65              | 98000            | M162228_M_-30.C--                                                                        | 952                             | 225M          |
| 31              | 31.41 | 8953             | 2.19              | 98000            | M162232_M_-30.C--                                                                        | 952                             | 225M          |
| 26              | 37.54 | 10701            | 1.55              | 98000            | M162236_M_-30.C--                                                                        | 952                             | 225M          |
| 22              | 45.05 | 12841            | 0.86              | 98000            | M162245_M_-30.C--                                                                        | 952                             | 225M          |
| 24              | 41.16 | 11613            | 1.78              | 98000            | M163240_M_-30.C--                                                                        | 961                             | 225M          |
| 22              | 45.64 | 12876            | 1.61              | 98000            | M163245_M_-30.C--                                                                        | 961                             | 225M          |
| 19              | 51.82 | 14620            | 1.42              | 98000            | M163250_M_-30.C--                                                                        | 961                             | 225M          |
| 17              | 59.38 | 16753            | 1.24              | 98000            | M163256_M_-30.C--                                                                        | 961                             | 225M          |
| 15              | 63.82 | 18006            | 1.15              | 98000            | M163263_M_-30.C--                                                                        | 961                             | 225M          |
| 13              | 74.49 | 21016            | 0.98              | 98000            | M163271_M_-30.C--                                                                        | 961                             | 225M          |
| 12              | 82.13 | 23172            | 0.89              | 98000            | M163280_M_-30.C--                                                                        | 961                             | 225M          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**37.0 kW**

4 POLE

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 399             | 3.68  | 867              | 1.64              | 13936            | M09223.6_M_-__37.A--                                                                     | 436                             | 225S          |
| 290             | 5.07  | 1194             | 1.35              | 12504            | M09225.0_M_-__37.A--                                                                     | 436                             | 225S          |
| 258             | 5.69  | 1340             | 1.25              | 12199            | M09225.6_M_-__37.A--                                                                     | 436                             | 225S          |
| 230             | 6.38  | 1503             | 1.17              | 11905            | M09226.3_M_-__37.A--                                                                     | 436                             | 225S          |
| 179             | 8.22  | 1936             | 0.99              | 11389            | M09228.0_M_-__37.A--                                                                     | 436                             | 225S          |
| 160             | 9.19  | 2165             | 0.92              | 11301            | M09229.0_M_-__37.A--                                                                     | 436                             | 225S          |
| 415             | 3.54  | 834              | 2.11              | 22473            | M10223.6_M_-__37.A--                                                                     | 465                             | 225S          |
| 298             | 4.94  | 1164             | 2.12              | 23790            | M10225.0_M_-__37.A--                                                                     | 465                             | 225S          |
| 274             | 5.37  | 1265             | 2.13              | 22600            | M10225.6_M_-__37.A--                                                                     | 465                             | 225S          |
| 241             | 6.10  | 1437             | 2.10              | 20617            | M10226.3_M_-__37.A--                                                                     | 465                             | 225S          |
| 185             | 7.95  | 1873             | 1.78              | 15235            | M10228.0_M_-__37.A--                                                                     | 465                             | 225S          |
| 171             | 8.58  | 2021             | 1.69              | 14198            | M10229.0_M_-__37.A--                                                                     | 465                             | 225S          |
| 133             | 11.02 | 2596             | 1.44              | 13425            | M102211_M_-__37.A--                                                                      | 465                             | 225S          |
| 118             | 12.51 | 2947             | 1.32              | 13094            | M102212_M_-__37.A--                                                                      | 465                             | 225S          |
| 104             | 14.16 | 3336             | 1.21              | 12668            | M102214_M_-__37.A--                                                                      | 465                             | 225S          |
| 92              | 15.98 | 3764             | 0.97              | 17451            | M102216_M_-__37.A--                                                                      | 465                             | 225S          |
| 83              | 17.75 | 4181             | 0.98              | 14565            | M102218_M_-__37.A--                                                                      | 465                             | 225S          |
| 76              | 19.41 | 4572             | 0.98              | 11867            | M102220_M_-__37.A--                                                                      | 465                             | 225S          |
| 68              | 21.57 | 5081             | 0.92              | 11289            | M102222_M_-__37.A--                                                                      | 465                             | 225S          |
| 388             | 3.79  | 893              | 2.64              | 55000            | M13223.6_M_-__37.A--                                                                     | 547                             | 225S          |
| 279             | 5.26  | 1239             | 2.64              | 55000            | M13225.0_M_-__37.A--                                                                     | 547                             | 225S          |
| 255             | 5.77  | 1359             | 2.64              | 55000            | M13225.6_M_-__37.A--                                                                     | 547                             | 225S          |
| 231             | 6.35  | 1496             | 2.64              | 55000            | M13226.3_M_-__37.A--                                                                     | 547                             | 225S          |
| 181             | 8.11  | 1910             | 2.64              | 55000            | M13228.0_M_-__37.A--                                                                     | 547                             | 225S          |
| 164             | 8.99  | 2118             | 2.64              | 55000            | M13229.0_M_-__37.A--                                                                     | 547                             | 225S          |
| 124             | 11.81 | 2782             | 2.64              | 55000            | M132211_M_-__37.A--                                                                      | 547                             | 225S          |
| 114             | 12.92 | 3044             | 2.60              | 55000            | M132212_M_-__37.A--                                                                      | 547                             | 225S          |
| 100             | 14.63 | 3446             | 2.32              | 50362            | M132214_M_-__37.A--                                                                      | 547                             | 225S          |
| 91              | 16.12 | 3797             | 2.13              | 47274            | M132216_M_-__37.A--                                                                      | 547                             | 225S          |
| 82              | 18.02 | 4245             | 1.93              | 42026            | M132218_M_-__37.A--                                                                      | 547                             | 225S          |
| 70              | 20.86 | 4914             | 1.69              | 40467            | M132220_M_-__37.A--                                                                      | 547                             | 225S          |
| 63              | 23.51 | 5538             | 1.52              | 41980            | M132222_M_-__37.A--                                                                      | 547                             | 225S          |
| 54              | 27.08 | 6379             | 1.33              | 45211            | M132228_M_-__37.A--                                                                      | 547                             | 225S          |
| 44              | 33.25 | 7833             | 1.11              | 51289            | M132232_M_-__37.A--                                                                      | 547                             | 225S          |
| 40              | 37.03 | 8723             | 1.01              | 54553            | M132236_M_-__37.A--                                                                      | 547                             | 225S          |
| 99              | 14.86 | 3501             | 3.57              | 68000            | M142214_M_-__37.A--                                                                      | 643                             | 225S          |
| 86              | 17.02 | 4009             | 3.17              | 68000            | M142216_M_-__37.A--                                                                      | 643                             | 225S          |
| 80              | 18.30 | 4311             | 2.97              | 68000            | M142218_M_-__37.A--                                                                      | 643                             | 225S          |
| 69              | 21.36 | 5032             | 2.58              | 68000            | M142220_M_-__37.A--                                                                      | 643                             | 225S          |
| 62              | 23.55 | 5548             | 2.34              | 68000            | M142222_M_-__37.A--                                                                      | 643                             | 225S          |
| 52              | 28.24 | 6652             | 1.95              | 68000            | M142228_M_-__37.A--                                                                      | 643                             | 225S          |
| 43              | 33.89 | 7983             | 1.63              | 68000            | M142232_M_-__37.A--                                                                      | 643                             | 225S          |
| 40              | 36.72 | 8650             | 1.50              | 68000            | M142236_M_-__37.A--                                                                      | 643                             | 225S          |
| 24              | 61.61 | 14365            | 0.90              | 68000            | M143256_M_-__37.A--                                                                      | 679                             | 225S          |
| 21              | 68.46 | 15962            | 0.80              | 68000            | M143263_M_-__37.A--                                                                      | 679                             | 225S          |
| 63              | 23.51 | 5538             | 3.72              | 98000            | M162222_M_-__37.A--                                                                      | 919                             | 225S          |
| 54              | 27.26 | 6422             | 3.21              | 98000            | M162228_M_-__37.A--                                                                      | 919                             | 225S          |
| 47              | 31.41 | 7399             | 2.65              | 98000            | M162232_M_-__37.A--                                                                      | 919                             | 225S          |
| 39              | 37.54 | 8843             | 1.88              | 98000            | M162236_M_-__37.A--                                                                      | 919                             | 225S          |
| 33              | 45.05 | 10612            | 1.05              | 98000            | M162245_M_-__37.A--                                                                      | 919                             | 225S          |
| 25              | 59.38 | 13845            | 1.50              | 98000            | M163256_M_-__37.A--                                                                      | 928                             | 225S          |
| 23              | 63.82 | 14880            | 1.39              | 98000            | M163263_M_-__37.A--                                                                      | 928                             | 225S          |
| 20              | 74.49 | 17368            | 1.19              | 98000            | M163271_M_-__37.A--                                                                      | 928                             | 225S          |
| 18              | 82.13 | 19150            | 1.08              | 98000            | M163280_M_-__37.A--                                                                      | 928                             | 225S          |
| 15              | 98.51 | 22969            | 0.90              | 98000            | M1632100_M_-__37.A--                                                                     | 928                             | 225S          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**37.0 kW**

6 POLE

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 260             | 3.79  | 1332             | 1.77              | 55000            | M13223.6_M_-37.C--                                                                                                       | 669                             | 250M          |
| 187             | 5.26  | 1849             | 1.77              | 55000            | M13225.0_M_-37.C--                                                                                                       | 669                             | 250M          |
| 171             | 5.77  | 2028             | 1.77              | 55000            | M13225.6_M_-37.C--                                                                                                       | 669                             | 250M          |
| 155             | 6.35  | 2232             | 1.77              | 55000            | M13226.3_M_-37.C--                                                                                                       | 669                             | 250M          |
| 121             | 8.11  | 2851             | 1.77              | 55000            | M13228.0_M_-37.C--                                                                                                       | 669                             | 250M          |
| 110             | 8.99  | 3160             | 1.77              | 55000            | M13229.0_M_-37.C--                                                                                                       | 669                             | 250M          |
| 83              | 11.81 | 4152             | 1.77              | 49089            | M132211_M_-37.C--                                                                                                        | 669                             | 250M          |
| 76              | 12.92 | 4542             | 1.77              | 47804            | M132212_M_-37.C--                                                                                                        | 669                             | 250M          |
| 67              | 14.63 | 5143             | 1.60              | 46645            | M132214_M_-37.C--                                                                                                        | 669                             | 250M          |
| 61              | 16.12 | 5667             | 1.49              | 45854            | M132216_M_-37.C--                                                                                                        | 669                             | 250M          |
| 55              | 18.02 | 6335             | 1.33              | 45290            | M132218_M_-37.C--                                                                                                        | 669                             | 250M          |
| 47              | 20.86 | 7333             | 1.18              | 44195            | M132220_M_-37.C--                                                                                                        | 669                             | 250M          |
| 42              | 23.51 | 8265             | 1.06              | 43472            | M132222_M_-37.C--                                                                                                        | 669                             | 250M          |
| 36              | 27.08 | 9520             | 0.93              | 42578            | M132228_M_-37.C--                                                                                                        | 669                             | 250M          |
| 116             | 8.51  | 2992             | 3.84              | 60302            | M14228.0_M_-37.C--                                                                                                       | 765                             | 250M          |
| 104             | 9.45  | 3322             | 3.70              | 61439            | M14229.0_M_-37.C--                                                                                                       | 765                             | 250M          |
| 83              | 11.80 | 4148             | 3.09              | 62257            | M142211_M_-37.C--                                                                                                        | 765                             | 250M          |
| 75              | 13.08 | 4598             | 2.81              | 62505            | M142212_M_-37.C--                                                                                                        | 765                             | 250M          |
| 66              | 14.86 | 5224             | 2.49              | 68000            | M142214_M_-37.C--                                                                                                        | 765                             | 250M          |
| 58              | 17.02 | 5983             | 2.17              | 68000            | M142216_M_-37.C--                                                                                                        | 765                             | 250M          |
| 54              | 18.30 | 6433             | 2.02              | 68000            | M142218_M_-37.C--                                                                                                        | 765                             | 250M          |
| 46              | 21.36 | 7509             | 1.73              | 68000            | M142220_M_-37.C--                                                                                                        | 765                             | 250M          |
| 42              | 23.55 | 8279             | 1.57              | 68000            | M142222_M_-37.C--                                                                                                        | 765                             | 250M          |
| 35              | 28.24 | 9928             | 1.31              | 68000            | M142228_M_-37.C--                                                                                                        | 765                             | 250M          |
| 29              | 33.89 | 11914            | 1.09              | 68000            | M142232_M_-37.C--                                                                                                        | 765                             | 250M          |
| 27              | 36.72 | 12909            | 1.01              | 68000            | M142236_M_-37.C--                                                                                                        | 765                             | 250M          |
| 70              | 14.01 | 4925             | 3.63              | 98000            | M162214_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 61              | 16.19 | 5692             | 3.55              | 98000            | M162216_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 56              | 17.49 | 6149             | 3.35              | 98000            | M162218_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 48              | 20.39 | 7168             | 2.87              | 98000            | M162220_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 42              | 23.51 | 8265             | 2.49              | 98000            | M162222_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 36              | 27.26 | 9583             | 2.15              | 98000            | M162228_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 31              | 31.41 | 11042            | 1.77              | 98000            | M162232_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 26              | 37.54 | 13197            | 1.26              | 98000            | M162236_M_-37.C--                                                                                                        | 1024                            | 250M          |
| 24              | 41.16 | 14322            | 1.45              | 98000            | M163240_M_-37.C--                                                                                                        | 980                             | 250M          |
| 22              | 45.64 | 15880            | 1.30              | 98000            | M163245_M_-37.C--                                                                                                        | 980                             | 250M          |
| 19              | 51.82 | 18032            | 1.15              | 98000            | M163250_M_-37.C--                                                                                                        | 980                             | 250M          |
| 17              | 59.38 | 20662            | 1.00              | 98000            | M163256_M_-37.C--                                                                                                        | 980                             | 250M          |
| 15              | 63.82 | 22207            | 0.93              | 98000            | M163263_M_-37.C--                                                                                                        | 980                             | 250M          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**45.0 kW**

4 POLE

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 402             | 3.68  | 1047             | 1.36              | 13650            | M09223.6_M_-45.A--                                                                                                       | 469                             | 225M          |
| 292             | 5.07  | 1443             | 1.12              | 12247            | M09225.0_M_-45.A--                                                                                                       | 469                             | 225M          |
| 260             | 5.69  | 1619             | 1.04              | 11948            | M09225.6_M_-45.A--                                                                                                       | 469                             | 225M          |
| 232             | 6.38  | 1816             | 0.97              | 11660            | M09226.3_M_-45.A--                                                                                                       | 469                             | 225M          |
| 418             | 3.54  | 1007             | 1.75              | 22010            | M10223.6_M_-45.A--                                                                                                       | 498                             | 225M          |
| 300             | 4.94  | 1406             | 1.76              | 23301            | M10225.0_M_-45.A--                                                                                                       | 498                             | 225M          |
| 276             | 5.37  | 1528             | 1.76              | 22135            | M10225.6_M_-45.A--                                                                                                       | 498                             | 225M          |
| 243             | 6.10  | 1736             | 1.74              | 20193            | M10226.3_M_-45.A--                                                                                                       | 498                             | 225M          |
| 186             | 7.95  | 2262             | 1.47              | 14921            | M10228.0_M_-45.A--                                                                                                       | 498                             | 225M          |
| 172             | 8.58  | 2442             | 1.40              | 13906            | M10229.0_M_-45.A--                                                                                                       | 498                             | 225M          |
| 134             | 11.02 | 3136             | 1.19              | 13149            | M102211_M_-45.A--                                                                                                        | 498                             | 225M          |
| 118             | 12.51 | 3560             | 1.09              | 12824            | M102212_M_-45.A--                                                                                                        | 498                             | 225M          |
| 105             | 14.16 | 4029             | 1.01              | 12407            | M102214_M_-45.A--                                                                                                        | 498                             | 225M          |
| 93              | 15.98 | 4547             | 0.81              | 17092            | M102216_M_-45.A--                                                                                                        | 498                             | 225M          |
| 83              | 17.75 | 5051             | 0.81              | 14265            | M102218_M_-45.A--                                                                                                        | 498                             | 225M          |
| 76              | 19.41 | 5523             | 0.81              | 11623            | M102220_M_-45.A--                                                                                                        | 498                             | 225M          |
| 391             | 3.79  | 1078             | 2.19              | 55000            | M13223.6_M_-45.A--                                                                                                       | 580                             | 225M          |
| 281             | 5.26  | 1497             | 2.18              | 55000            | M13225.0_M_-45.A--                                                                                                       | 580                             | 225M          |
| 256             | 5.77  | 1642             | 2.19              | 55000            | M13225.6_M_-45.A--                                                                                                       | 580                             | 225M          |
| 233             | 6.35  | 1807             | 2.19              | 55000            | M13226.3_M_-45.A--                                                                                                       | 580                             | 225M          |
| 182             | 8.11  | 2308             | 2.19              | 55000            | M13228.0_M_-45.A--                                                                                                       | 580                             | 225M          |
| 165             | 8.99  | 2558             | 2.19              | 55000            | M13229.0_M_-45.A--                                                                                                       | 580                             | 225M          |
| 125             | 11.81 | 3361             | 2.18              | 55000            | M132211_M_-45.A--                                                                                                        | 580                             | 225M          |
| 115             | 12.92 | 3677             | 2.15              | 55000            | M132212_M_-45.A--                                                                                                        | 580                             | 225M          |
| 101             | 14.63 | 4163             | 1.92              | 49326            | M132214_M_-45.A--                                                                                                        | 580                             | 225M          |
| 92              | 16.12 | 4587             | 1.76              | 46301            | M132216_M_-45.A--                                                                                                        | 580                             | 225M          |
| 82              | 18.02 | 5128             | 1.60              | 41161            | M132218_M_-45.A--                                                                                                        | 580                             | 225M          |
| 71              | 20.86 | 5936             | 1.40              | 39635            | M132220_M_-45.A--                                                                                                        | 580                             | 225M          |
| 63              | 23.51 | 6690             | 1.26              | 41117            | M132222_M_-45.A--                                                                                                        | 580                             | 225M          |
| 55              | 27.08 | 7706             | 1.10              | 44281            | M132228_M_-45.A--                                                                                                        | 580                             | 225M          |
| 45              | 33.25 | 9462             | 0.92              | 50234            | M132232_M_-45.A--                                                                                                        | 580                             | 225M          |
| 125             | 11.80 | 3358             | 3.66              | 68000            | M142211_M_-45.A--                                                                                                        | 676                             | 225M          |
| 113             | 13.08 | 3722             | 3.33              | 68000            | M142212_M_-45.A--                                                                                                        | 676                             | 225M          |
| 100             | 14.86 | 4229             | 2.96              | 68000            | M142214_M_-45.A--                                                                                                        | 676                             | 225M          |
| 87              | 17.02 | 4843             | 2.62              | 68000            | M142216_M_-45.A--                                                                                                        | 676                             | 225M          |
| 81              | 18.30 | 5208             | 2.46              | 68000            | M142218_M_-45.A--                                                                                                        | 676                             | 225M          |
| 69              | 21.36 | 6078             | 2.14              | 68000            | M142220_M_-45.A--                                                                                                        | 676                             | 225M          |
| 63              | 23.55 | 6701             | 1.94              | 68000            | M142222_M_-45.A--                                                                                                        | 676                             | 225M          |
| 52              | 28.24 | 8036             | 1.62              | 68000            | M142228_M_-45.A--                                                                                                        | 676                             | 225M          |
| 44              | 33.89 | 9644             | 1.35              | 68000            | M142232_M_-45.A--                                                                                                        | 676                             | 225M          |
| 40              | 36.72 | 10449            | 1.24              | 68000            | M142236_M_-45.A--                                                                                                        | 676                             | 225M          |
| 73              | 20.39 | 5802             | 3.55              | 98000            | M162220_M_-45.A--                                                                                                        | 952                             | 225M          |
| 63              | 23.51 | 6690             | 3.08              | 98000            | M162222_M_-45.A--                                                                                                        | 952                             | 225M          |
| 54              | 27.26 | 7757             | 2.66              | 98000            | M162228_M_-45.A--                                                                                                        | 952                             | 225M          |
| 47              | 31.41 | 8938             | 2.19              | 98000            | M162232_M_-45.A--                                                                                                        | 952                             | 225M          |
| 39              | 37.54 | 10683            | 1.55              | 98000            | M162236_M_-45.A--                                                                                                        | 952                             | 225M          |
| 33              | 45.05 | 12820            | 0.87              | 98000            | M162245_M_-45.A--                                                                                                        | 952                             | 225M          |
| 36              | 41.16 | 11593            | 1.79              | 98000            | M163240_M_-45.A--                                                                                                        | 961                             | 225M          |
| 32              | 45.64 | 12854            | 1.61              | 98000            | M163245_M_-45.A--                                                                                                        | 961                             | 225M          |
| 29              | 51.82 | 14596            | 1.42              | 98000            | M163250_M_-45.A--                                                                                                        | 961                             | 225M          |
| 25              | 59.38 | 16725            | 1.24              | 98000            | M163256_M_-45.A--                                                                                                        | 961                             | 225M          |
| 23              | 63.82 | 17976            | 1.15              | 98000            | M163263_M_-45.A--                                                                                                        | 961                             | 225M          |
| 20              | 74.49 | 20981            | 0.99              | 98000            | M163271_M_-45.A--                                                                                                        | 961                             | 225M          |
| 18              | 82.13 | 23133            | 0.89              | 98000            | M163280_M_-45.A--                                                                                                        | 961                             | 225M          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)



## SELECTION TABLES

**45.0 kW**

6 POLE

**55.0 kW**

4 POLE

**NOTE**

Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

Thermal rating should be checked (Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 260             | 3.79  | 1620             | 1.46              | 55000            | M13223.6_M_-45.C--                                                                       | 785                             | 280S          |
| 187             | 5.26  | 2249             | 1.45              | 55000            | M13225.0_M_-45.C--                                                                       | 785                             | 280S          |
| 171             | 5.77  | 2467             | 1.46              | 55000            | M13225.6_M_-45.C--                                                                       | 785                             | 280S          |
| 155             | 6.35  | 2715             | 1.45              | 55000            | M13226.3_M_-45.C--                                                                       | 785                             | 280S          |
| 121             | 8.11  | 3468             | 1.46              | 55000            | M13228.0_M_-45.C--                                                                       | 785                             | 280S          |
| 110             | 8.99  | 3844             | 1.45              | 55000            | M13229.0_M_-45.C--                                                                       | 785                             | 280S          |
| 83              | 11.81 | 5050             | 1.46              | 48043            | M132211._M_-45.C--                                                                       | 785                             | 280S          |
| 76              | 12.92 | 5524             | 1.45              | 46786            | M132212._M_-45.C--                                                                       | 785                             | 280S          |
| 67              | 14.63 | 6255             | 1.31              | 45651            | M132214._M_-45.C--                                                                       | 785                             | 280S          |
| 61              | 16.12 | 6892             | 1.22              | 44877            | M132216._M_-45.C--                                                                       | 785                             | 280S          |
| 55              | 18.02 | 7705             | 1.09              | 44325            | M132218._M_-45.C--                                                                       | 785                             | 280S          |
| 47              | 20.86 | 8919             | 0.97              | 43254            | M132220._M_-45.C--                                                                       | 785                             | 280S          |
| 42              | 23.51 | 10052            | 0.87              | 42546            | M132222._M_-45.C--                                                                       | 785                             | 280S          |
| 263             | 3.75  | 1603             | 3.33              | 51482            | M14223.6_M_-45.C--                                                                       | 881                             | 280S          |
| 188             | 5.24  | 2240             | 3.33              | 52500            | M14225.0_M_-45.C--                                                                       | 881                             | 280S          |
| 167             | 5.90  | 2523             | 3.33              | 53756            | M14225.6_M_-45.C--                                                                       | 881                             | 280S          |
| 149             | 6.63  | 2835             | 3.33              | 55470            | M14226.3_M_-45.C--                                                                       | 881                             | 280S          |
| 116             | 8.51  | 3639             | 3.16              | 59017            | M14228.0_M_-45.C--                                                                       | 881                             | 280S          |
| 104             | 9.45  | 4041             | 3.04              | 60130            | M14229.0_M_-45.C--                                                                       | 881                             | 280S          |
| 83              | 11.80 | 5045             | 2.54              | 60931            | M142211._M_-45.C--                                                                       | 881                             | 280S          |
| 75              | 13.08 | 5593             | 2.31              | 61173            | M142212._M_-45.C--                                                                       | 881                             | 280S          |
| 66              | 14.86 | 6354             | 2.05              | 68000            | M142214._M_-45.C--                                                                       | 881                             | 280S          |
| 58              | 17.02 | 7277             | 1.79              | 68000            | M142216._M_-45.C--                                                                       | 881                             | 280S          |
| 54              | 18.30 | 7825             | 1.66              | 68000            | M142218._M_-45.C--                                                                       | 881                             | 280S          |
| 46              | 21.36 | 9133             | 1.42              | 68000            | M142220._M_-45.C--                                                                       | 881                             | 280S          |
| 42              | 23.55 | 10069            | 1.29              | 68000            | M142222._M_-45.C--                                                                       | 881                             | 280S          |
| 35              | 28.24 | 12075            | 1.08              | 68000            | M142228._M_-45.C--                                                                       | 881                             | 280S          |
| 29              | 33.89 | 14490            | 0.90              | 68000            | M142232._M_-45.C--                                                                       | 881                             | 280S          |
| 27              | 36.72 | 15700            | 0.83              | 68000            | M142236._M_-45.C--                                                                       | 881                             | 280S          |
| 78              | 12.67 | 5417             | 3.80              | 98000            | M162212._M_-45.C--                                                                       | 1140                            | 280S          |
| 70              | 14.01 | 5990             | 2.99              | 98000            | M162214._M_-45.C--                                                                       | 1140                            | 280S          |
| 61              | 16.19 | 6922             | 2.92              | 98000            | M162216._M_-45.C--                                                                       | 1140                            | 280S          |
| 56              | 17.49 | 7478             | 2.75              | 98000            | M162218._M_-45.C--                                                                       | 1140                            | 280S          |
| 48              | 20.39 | 8718             | 2.36              | 98000            | M162220._M_-45.C--                                                                       | 1140                            | 280S          |
| 42              | 23.51 | 10052            | 2.05              | 98000            | M162222._M_-45.C--                                                                       | 1140                            | 280S          |
| 36              | 27.26 | 11656            | 1.77              | 98000            | M162228._M_-45.C--                                                                       | 1140                            | 280S          |
| 31              | 31.41 | 13430            | 1.46              | 98000            | M162232._M_-45.C--                                                                       | 1140                            | 280S          |
| 26              | 37.54 | 16051            | 1.03              | 98000            | M162236._M_-45.C--                                                                       | 1140                            | 280S          |
| 24              | 41.16 | 17598            | 1.18              | 98000            | M163240._M_-40.C--                                                                       | 1096                            | 280S          |
| 22              | 45.64 | 19513            | 1.06              | 98000            | M163245._M_-40.C--                                                                       | 1096                            | 280S          |
| 19              | 51.82 | 22157            | 0.93              | 98000            | M163250._M_-40.C--                                                                       | 1096                            | 280S          |
| 391             | 3.79  | 1318             | 1.79              | 55000            | M13223.6_M_-55.A--                                                                       | 669                             | 250M          |
| 281             | 5.26  | 1829             | 1.79              | 55000            | M13225.0_M_-55.A--                                                                       | 669                             | 250M          |
| 256             | 5.77  | 2007             | 1.79              | 55000            | M13225.6_M_-55.A--                                                                       | 669                             | 250M          |
| 233             | 6.35  | 2209             | 1.79              | 55000            | M13226.3_M_-55.A--                                                                       | 669                             | 250M          |
| 182             | 8.11  | 2821             | 1.79              | 55000            | M13228.0_M_-55.A--                                                                       | 669                             | 250M          |
| 165             | 8.99  | 3127             | 1.79              | 55000            | M13229.0_M_-55.A--                                                                       | 669                             | 250M          |
| 125             | 11.81 | 4108             | 1.79              | 55000            | M132211._M_-55.A--                                                                       | 669                             | 250M          |
| 115             | 12.92 | 4494             | 1.76              | 55000            | M132212._M_-55.A--                                                                       | 669                             | 250M          |
| 101             | 14.63 | 5088             | 1.57              | 48249            | M132214._M_-55.A--                                                                       | 669                             | 250M          |
| 92              | 16.12 | 5607             | 1.44              | 45290            | M132216._M_-55.A--                                                                       | 669                             | 250M          |
| 82              | 18.02 | 6267             | 1.31              | 40262            | M132218._M_-55.A--                                                                       | 669                             | 250M          |
| 71              | 20.86 | 7255             | 1.14              | 38770            | M132220._M_-55.A--                                                                       | 669                             | 250M          |
| 63              | 23.51 | 8177             | 1.03              | 40219            | M132222._M_-55.A--                                                                       | 669                             | 250M          |
| 55              | 27.08 | 9418             | 0.90              | 43314            | M132228._M_-55.A--                                                                       | 669                             | 250M          |
| 174             | 8.51  | 2960             | 3.78              | 68000            | M14228.0_M_-55.A--                                                                       | 765                             | 250M          |
| 157             | 9.45  | 3287             | 3.56              | 68000            | M14229.0_M_-55.A--                                                                       | 765                             | 250M          |
| 125             | 11.80 | 4104             | 3.00              | 68000            | M142211._M_-55.A--                                                                       | 765                             | 250M          |
| 113             | 13.08 | 4549             | 2.73              | 68000            | M142212._M_-55.A--                                                                       | 765                             | 250M          |
| 100             | 14.86 | 5168             | 2.42              | 68000            | M142214._M_-55.A--                                                                       | 765                             | 250M          |
| 87              | 17.02 | 5920             | 2.15              | 68000            | M142216._M_-55.A--                                                                       | 765                             | 250M          |
| 81              | 18.30 | 6365             | 2.01              | 68000            | M142218._M_-55.A--                                                                       | 765                             | 250M          |
| 69              | 21.36 | 7429             | 1.75              | 68000            | M142220._M_-55.A--                                                                       | 765                             | 250M          |
| 63              | 23.55 | 8191             | 1.59              | 68000            | M142222._M_-55.A--                                                                       | 765                             | 250M          |
| 52              | 28.24 | 9822             | 1.32              | 68000            | M142228._M_-55.A--                                                                       | 765                             | 250M          |
| 106             | 14.01 | 4873             | 3.67              | 98000            | M162214._M_-55.A--                                                                       | 1024                            | 250M          |
| 91              | 16.19 | 5631             | 3.59              | 98000            | M162216._M_-55.A--                                                                       | 1024                            | 250M          |
| 85              | 17.49 | 6083             | 3.39              | 98000            | M162218._M_-55.A--                                                                       | 1024                            | 250M          |
| 73              | 20.39 | 7092             | 2.90              | 98000            | M162220._M_-55.A--                                                                       | 1024                            | 250M          |
| 63              | 23.51 | 8177             | 2.52              | 98000            | M162222._M_-55.A--                                                                       | 1024                            | 250M          |
| 54              | 27.26 | 9481             | 2.17              | 98000            | M162228._M_-55.A--                                                                       | 1024                            | 250M          |
| 47              | 31.41 | 10924            | 1.79              | 98000            | M162232._M_-55.A--                                                                       | 1024                            | 250M          |
| 39              | 37.54 | 13056            | 1.27              | 98000            | M162236._M_-55.A--                                                                       | 1024                            | 250M          |
| 36              | 41.16 | 14169            | 1.46              | 98000            | M163240._M_-55.A--                                                                       | 980                             | 250M          |
| 32              | 45.64 | 15711            | 1.32              | 98000            | M163245._M_-55.A--                                                                       | 980                             | 250M          |
| 29              | 51.82 | 17839            | 1.16              | 98000            | M163250._M_-55.A--                                                                       | 980                             | 250M          |
| 25              | 59.38 | 20442            | 1.01              | 98000            | M163256._M_-55.A--                                                                       | 980                             | 250M          |
| 23              | 63.82 | 21970            | 0.94              | 98000            | M163263._M_-55.A--                                                                       | 980                             | 250M          |



## SELECTION TABLES

**55.0 kW**

6 POLE

**75.0 kW**

4 POLE

**75.0 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 260             | 3.79  | 1981             | 1.19              | 55000            | M13223.6_M_-55.C--                                                                       | 875                             | 280M          |
| 187             | 5.26  | 2749             | 1.19              | 55000            | M13225.0_M_-55.C--                                                                       | 875                             | 280M          |
| 171             | 5.77  | 3015             | 1.19              | 55000            | M13225.6_M_-55.C--                                                                       | 875                             | 280M          |
| 155             | 6.35  | 3318             | 1.19              | 55000            | M13226.3_M_-55.C--                                                                       | 875                             | 280M          |
| 121             | 8.11  | 4238             | 1.19              | 55000            | M13228.0_M_-55.C--                                                                       | 875                             | 280M          |
| 110             | 8.99  | 4698             | 1.19              | 55000            | M13229.0_M_-55.C--                                                                       | 875                             | 280M          |
| 83              | 11.81 | 6172             | 1.19              | 46995            | M132211_M_-55.C--                                                                        | 875                             | 280M          |
| 76              | 12.92 | 6752             | 1.19              | 45765            | M132212_M_-55.C--                                                                        | 875                             | 280M          |
| 67              | 14.63 | 7645             | 1.08              | 44655            | M132214_M_-55.C--                                                                        | 875                             | 280M          |
| 61              | 16.12 | 8424             | 1.00              | 43898            | M132216_M_-55.C--                                                                        | 875                             | 280M          |
| 55              | 18.02 | 9417             | 0.89              | 43357            | M132218_M_-55.C--                                                                        | 875                             | 280M          |
| 263             | 3.75  | 1960             | 2.72              | 50358            | M14223.6_M_-55.C--                                                                       | 971                             | 280M          |
| 188             | 5.24  | 2738             | 2.72              | 51354            | M14225.0_M_-55.C--                                                                       | 971                             | 280M          |
| 167             | 5.90  | 3083             | 2.72              | 52583            | M14225.6_M_-55.C--                                                                       | 971                             | 280M          |
| 149             | 6.63  | 3465             | 2.72              | 54259            | M14226.3_M_-55.C--                                                                       | 971                             | 280M          |
| 116             | 8.51  | 4447             | 2.59              | 57729            | M14228.0_M_-55.C--                                                                       | 971                             | 280M          |
| 104             | 9.45  | 4938             | 2.49              | 58817            | M14229.0_M_-55.C--                                                                       | 971                             | 280M          |
| 83              | 11.80 | 6166             | 2.08              | 59601            | M142211_M_-55.C--                                                                        | 971                             | 280M          |
| 75              | 13.08 | 6835             | 1.89              | 59838            | M142212_M_-55.C--                                                                        | 971                             | 280M          |
| 66              | 14.86 | 7766             | 1.67              | 68000            | M142214_M_-55.C--                                                                        | 971                             | 280M          |
| 58              | 17.02 | 8894             | 1.46              | 68000            | M142216_M_-55.C--                                                                        | 971                             | 280M          |
| 54              | 18.30 | 9563             | 1.36              | 68000            | M142218_M_-55.C--                                                                        | 971                             | 280M          |
| 46              | 21.36 | 11162            | 1.16              | 68000            | M142220_M_-55.C--                                                                        | 971                             | 280M          |
| 42              | 23.55 | 12307            | 1.06              | 68000            | M142222_M_-55.C--                                                                        | 971                             | 280M          |
| 88              | 11.17 | 5837             | 3.51              | 98000            | M162211_M_-55.C--                                                                        | 1230                            | 280M          |
| 78              | 12.67 | 6621             | 3.11              | 98000            | M162212_M_-55.C--                                                                        | 1230                            | 280M          |
| 70              | 14.01 | 7321             | 2.44              | 98000            | M162214_M_-55.C--                                                                        | 1230                            | 280M          |
| 61              | 16.19 | 8461             | 2.39              | 98000            | M162216_M_-55.C--                                                                        | 1230                            | 280M          |
| 56              | 17.49 | 9140             | 2.25              | 98000            | M162218_M_-55.C--                                                                        | 1230                            | 280M          |
| 48              | 20.39 | 10655            | 1.93              | 98000            | M162220_M_-55.C--                                                                        | 1230                            | 280M          |
| 42              | 23.51 | 12286            | 1.68              | 98000            | M162222_M_-55.C--                                                                        | 1230                            | 280M          |
| 36              | 27.26 | 14246            | 1.45              | 98000            | M162228_M_-55.C--                                                                        | 1230                            | 280M          |
| 31              | 31.41 | 16414            | 1.19              | 98000            | M162232_M_-55.C--                                                                        | 1230                            | 280M          |
| 26              | 37.54 | 19618            | 0.85              | 98000            | M162236_M_-55.C--                                                                        | 1230                            | 280M          |
| 395             | 3.75  | 1779             | 3.00              | 68000            | M14223.6_M_-75.A--                                                                       | 881                             | 280S          |
| 282             | 5.24  | 2485             | 3.00              | 68000            | M14225.0_M_-75.A--                                                                       | 881                             | 280S          |
| 251             | 5.90  | 2798             | 3.00              | 68000            | M14225.6_M_-75.A--                                                                       | 881                             | 280S          |
| 223             | 6.63  | 3144             | 3.00              | 68000            | M14226.3_M_-75.A--                                                                       | 881                             | 280S          |
| 174             | 8.51  | 4036             | 2.77              | 68000            | M14228.0_M_-75.A--                                                                       | 881                             | 280S          |
| 157             | 9.45  | 4482             | 2.61              | 68000            | M14229.0_M_-75.A--                                                                       | 881                             | 280S          |
| 125             | 11.80 | 5596             | 2.20              | 68000            | M142211_M_-75.A--                                                                        | 881                             | 280S          |
| 113             | 13.08 | 6203             | 2.00              | 68000            | M142212_M_-75.A--                                                                        | 881                             | 280S          |
| 100             | 14.86 | 7048             | 1.77              | 68000            | M142214_M_-75.A--                                                                        | 881                             | 280S          |
| 87              | 17.02 | 8072             | 1.57              | 68000            | M142216_M_-75.A--                                                                        | 881                             | 280S          |
| 81              | 18.30 | 8679             | 1.47              | 68000            | M142218_M_-75.A--                                                                        | 881                             | 280S          |
| 69              | 21.36 | 10130            | 1.28              | 68000            | M142220_M_-75.A--                                                                        | 881                             | 280S          |
| 132             | 11.17 | 5298             | 3.87              | 98000            | M162211_M_-75.A--                                                                        | 1140                            | 280S          |
| 117             | 12.67 | 6009             | 3.43              | 98000            | M162212_M_-75.A--                                                                        | 1140                            | 280S          |
| 106             | 14.01 | 6645             | 2.69              | 98000            | M162214_M_-75.A--                                                                        | 1140                            | 280S          |
| 91              | 16.19 | 7678             | 2.63              | 98000            | M162216_M_-75.A--                                                                        | 1140                            | 280S          |
| 85              | 17.49 | 8295             | 2.48              | 98000            | M162218_M_-75.A--                                                                        | 1140                            | 280S          |
| 73              | 20.39 | 9670             | 2.13              | 98000            | M162220_M_-75.A--                                                                        | 1140                            | 280S          |
| 63              | 23.51 | 11150            | 1.85              | 98000            | M162222_M_-75.A--                                                                        | 1140                            | 280S          |
| 54              | 27.26 | 12929            | 1.59              | 98000            | M162228_M_-75.A--                                                                        | 1140                            | 280S          |
| 47              | 31.41 | 14897            | 1.32              | 98000            | M162232_M_-75.A--                                                                        | 1140                            | 280S          |
| 39              | 37.54 | 17804            | 0.93              | 98000            | M162236_M_-75.A--                                                                        | 1140                            | 280S          |
| 120             | 8.19  | 5836             | 3.41              | 98000            | M16228.0_M_-75.C--                                                                       | 1400                            | 315S          |
| 105             | 9.35  | 6663             | 3.03              | 98000            | M16229.0_M_-75.C--                                                                       | 1400                            | 315S          |
| 88              | 11.17 | 7960             | 2.58              | 98000            | M162211_M_-75.C--                                                                        | 1400                            | 315S          |
| 78              | 12.67 | 9029             | 2.28              | 98000            | M162212_M_-75.C--                                                                        | 1400                            | 315S          |
| 70              | 14.01 | 9984             | 1.79              | 98000            | M162214_M_-75.C--                                                                        | 1400                            | 315S          |
| 61              | 16.19 | 11537            | 1.75              | 98000            | M162216_M_-75.C--                                                                        | 1400                            | 315S          |
| 56              | 17.49 | 12464            | 1.65              | 98000            | M162218_M_-75.C--                                                                        | 1400                            | 315S          |
| 48              | 20.39 | 14530            | 1.42              | 98000            | M162220_M_-75.C--                                                                        | 1400                            | 315S          |
| 42              | 23.51 | 16754            | 1.23              | 98000            | M162222_M_-75.C--                                                                        | 1400                            | 315S          |
| 36              | 27.26 | 19426            | 1.06              | 98000            | M162228_M_-75.C--                                                                        | 1400                            | 315S          |
| 31              | 31.41 | 22383            | 0.88              | 98000            | M162232_M_-75.C--                                                                        | 1400                            | 315S          |



## SELECTION TABLES

**90.0 kW**

4 POLE

**90.0 kW**

6 POLE

**110 kW**

4 POLE

**110 kW**

6 POLE

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <span>1</span> - <span>20</span><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 395             | 3.75  | 2134             | 2.50              | 66701            | M14223.6_M_-__90.A--                                                                     | 971                             | 280M          |
| 282             | 5.24  | 2982             | 2.50              | 68000            | M14225.0_M_-__90.A--                                                                     | 971                             | 280M          |
| 251             | 5.90  | 3358             | 2.50              | 68000            | M14225.6_M_-__90.A--                                                                     | 971                             | 280M          |
| 223             | 6.63  | 3773             | 2.50              | 68000            | M14226.3_M_-__90.A--                                                                     | 971                             | 280M          |
| 174             | 8.51  | 4843             | 2.31              | 68000            | M14228.0_M_-__90.A--                                                                     | 971                             | 280M          |
| 157             | 9.45  | 5378             | 2.18              | 68000            | M14229.0_M_-__90.A--                                                                     | 971                             | 280M          |
| 158             | 9.35  | 5321             | 3.80              | 98000            | M16229.0_M_-__90.A--                                                                     | 1230                            | 280M          |
| 132             | 11.17 | 6357             | 3.22              | 98000            | M162211_M_-__90.A--                                                                      | 1230                            | 280M          |
| 117             | 12.67 | 7211             | 2.86              | 98000            | M162212_M_-__90.A--                                                                      | 1230                            | 280M          |
| 106             | 14.01 | 7973             | 2.24              | 98000            | M162214_M_-__90.A--                                                                      | 1230                            | 280M          |
| 91              | 16.19 | 9214             | 2.19              | 98000            | M162216_M_-__90.A--                                                                      | 1230                            | 280M          |
| 85              | 17.49 | 9954             | 2.07              | 98000            | M162218_M_-__90.A--                                                                      | 1230                            | 280M          |
| 73              | 20.39 | 11605            | 1.78              | 98000            | M162220_M_-__90.A--                                                                      | 1230                            | 280M          |
| 63              | 23.51 | 13380            | 1.54              | 98000            | M162222_M_-__90.A--                                                                      | 1230                            | 280M          |
| 54              | 27.26 | 15514            | 1.33              | 98000            | M162228_M_-__90.A--                                                                      | 1230                            | 280M          |
| 47              | 31.41 | 17876            | 1.10              | 98000            | M162232_M_-__90.A--                                                                      | 1230                            | 280M          |
| 157             | 6.26  | 5353             | 3.64              | 98000            | M16226.3_M_-__90.C--                                                                     | 1440                            | 315M          |
| 120             | 8.19  | 7004             | 2.84              | 98000            | M16228.0_M_-__90.C--                                                                     | 1440                            | 315M          |
| 105             | 9.35  | 7996             | 2.53              | 98000            | M16229.0_M_-__90.C--                                                                     | 1440                            | 315M          |
| 88              | 11.17 | 9552             | 2.15              | 98000            | M162211_M_-__90.C--                                                                      | 1440                            | 315M          |
| 78              | 12.67 | 10835            | 1.90              | 98000            | M162212_M_-__90.C--                                                                      | 1440                            | 315M          |
| 70              | 14.01 | 11980            | 1.49              | 98000            | M162214_M_-__90.C--                                                                      | 1440                            | 315M          |
| 61              | 16.19 | 13845            | 1.46              | 98000            | M162216_M_-__90.C--                                                                      | 1440                            | 315M          |
| 56              | 17.49 | 14956            | 1.38              | 98000            | M162218_M_-__90.C--                                                                      | 1440                            | 315M          |
| 48              | 20.39 | 17436            | 1.18              | 98000            | M162220_M_-__90.C--                                                                      | 1440                            | 315M          |
| 42              | 23.51 | 20104            | 1.02              | 98000            | M162222_M_-__90.C--                                                                      | 1440                            | 315M          |
| 36              | 27.26 | 23311            | 0.88              | 98000            | M162228_M_-__90.C--                                                                      | 1440                            | 315M          |
| 181             | 8.19  | 5697             | 3.49              | 98000            | M16228.0_M_-__110A--                                                                     | 1400                            | 315S          |
| 158             | 9.35  | 6504             | 3.11              | 98000            | M16229.0_M_-__110A--                                                                     | 1400                            | 315S          |
| 132             | 11.17 | 7770             | 2.64              | 98000            | M162211_M_-__110A--                                                                      | 1400                            | 315S          |
| 117             | 12.67 | 8813             | 2.34              | 98000            | M162212_M_-__110A--                                                                      | 1400                            | 315S          |
| 106             | 14.01 | 9745             | 1.84              | 98000            | M162214_M_-__110A--                                                                      | 1400                            | 315S          |
| 91              | 16.19 | 11262            | 1.79              | 98000            | M162216_M_-__110A--                                                                      | 1400                            | 315S          |
| 85              | 17.49 | 12166            | 1.69              | 98000            | M162218_M_-__110A--                                                                      | 1400                            | 315S          |
| 73              | 20.39 | 14183            | 1.45              | 98000            | M162220_M_-__110A--                                                                      | 1400                            | 315S          |
| 63              | 23.51 | 16354            | 1.26              | 98000            | M162222_M_-__110A--                                                                      | 1400                            | 315S          |
| 54              | 27.26 | 18962            | 1.09              | 98000            | M162228_M_-__110A--                                                                      | 1400                            | 315S          |
| 47              | 31.41 | 21849            | 0.90              | 98000            | M162232_M_-__110A--                                                                      | 1400                            | 315S          |
| 199             | 4.95  | 5174             | 3.71              | 98000            | M16225.0_M_-__110C--                                                                     | 1440                            | 315M          |
| 184             | 5.35  | 5595             | 3.47              | 98000            | M16225.6_M_-__110C--                                                                     | 1440                            | 315M          |
| 157             | 6.26  | 6540             | 2.98              | 98000            | M16226.3_M_-__110C--                                                                     | 1440                            | 315M          |
| 120             | 8.19  | 8560             | 2.32              | 98000            | M16228.0_M_-__110C--                                                                     | 1440                            | 315M          |
| 105             | 9.35  | 9772             | 2.07              | 98000            | M16229.0_M_-__110C--                                                                     | 1440                            | 315M          |
| 88              | 11.17 | 11675            | 1.76              | 98000            | M162211_M_-__110C--                                                                      | 1440                            | 315M          |
| 78              | 12.67 | 13242            | 1.56              | 98000            | M162212_M_-__110C--                                                                      | 1440                            | 315M          |
| 70              | 14.01 | 14643            | 1.22              | 98000            | M162214_M_-__110C--                                                                      | 1440                            | 315M          |
| 61              | 16.19 | 16921            | 1.19              | 98000            | M162216_M_-__110C--                                                                      | 1440                            | 315M          |
| 56              | 17.49 | 18280            | 1.13              | 98000            | M162218_M_-__110C--                                                                      | 1440                            | 315M          |
| 48              | 20.39 | 21311            | 0.97              | 98000            | M162220_M_-__110C--                                                                      | 1440                            | 315M          |
| 42              | 23.51 | 24572            | 0.84              | 98000            | M162222_M_-__110C--                                                                      | 1440                            | 315M          |



## SELECTION TABLES

**132 kW**

4 POLE

**132 kW**

6 POLE

**160 kW**

4 POLE

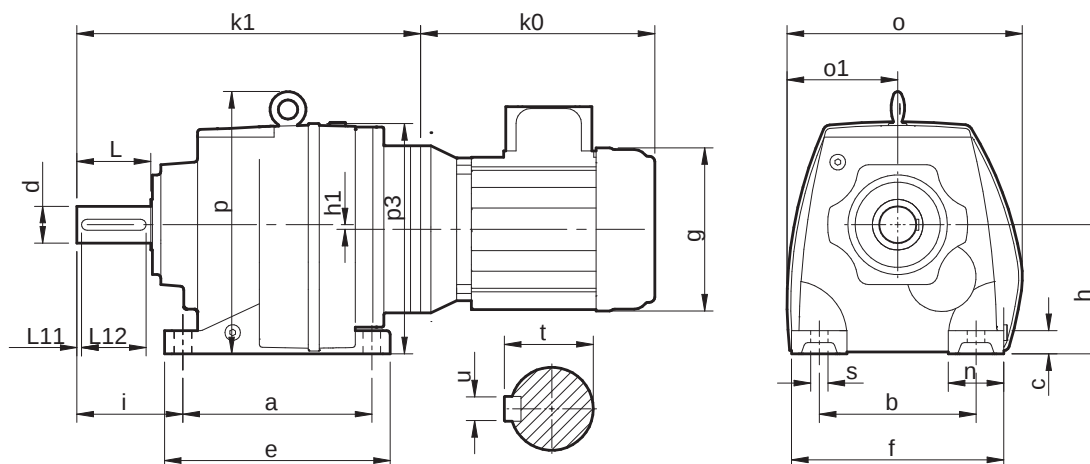
| N2<br>RPM       | i     | M2<br>Nm         | Fm                | N                | Unit Designation                                                                                                         | kg                              |               |
|-----------------|-------|------------------|-------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| Output<br>Speed | Ratio | Output<br>Torque | Service<br>Factor | Overhung<br>Load | Column Entry <input type="text" value="1"/> - <input type="text" value="20"/><br>Blanks to be filled when entering order | Weight of<br>base<br>mount unit | Motor<br>Size |
| 236             | 6.26  | 5225             | 3.71              | 98000            | M16226.3_M_-__132A--                                                                                                     | 1440                            | 315M          |
| 181             | 8.19  | 6836             | 2.91              | 98000            | M16228.0_M_-__132A--                                                                                                     | 1440                            | 315M          |
| 158             | 9.35  | 7805             | 2.59              | 98000            | M16229.0_M_-__132A--                                                                                                     | 1440                            | 315M          |
| 132             | 11.17 | 9324             | 2.20              | 98000            | M162211_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 117             | 12.67 | 10576            | 1.95              | 98000            | M162212_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 106             | 14.01 | 11694            | 1.53              | 98000            | M162214_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 91              | 16.19 | 13514            | 1.49              | 98000            | M162216_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 85              | 17.49 | 14599            | 1.41              | 98000            | M162218_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 73              | 20.39 | 17020            | 1.21              | 98000            | M162220_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 63              | 23.51 | 19624            | 1.05              | 98000            | M162222_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 54              | 27.26 | 22755            | 0.91              | 98000            | M162228_M_-__132A--                                                                                                      | 1440                            | 315M          |
| 199             | 4.95  | 6208             | 3.09              | 98000            | M16225.0_M_-__132C--                                                                                                     | 1590                            | 315L          |
| 184             | 5.35  | 6714             | 2.89              | 98000            | M16225.6_M_-__132C--                                                                                                     | 1590                            | 315L          |
| 157             | 6.26  | 7848             | 2.48              | 98000            | M16226.3_M_-__132C--                                                                                                     | 1590                            | 315L          |
| 120             | 8.19  | 10272            | 1.94              | 98000            | M16228.0_M_-__132C--                                                                                                     | 1590                            | 315L          |
| 105             | 9.35  | 11727            | 1.72              | 98000            | M16229.0_M_-__132C--                                                                                                     | 1590                            | 315L          |
| 88              | 11.17 | 14009            | 1.46              | 98000            | M162211_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 78              | 12.67 | 15891            | 1.30              | 98000            | M162212_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 70              | 14.01 | 17571            | 1.02              | 98000            | M162214_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 61              | 16.19 | 20306            | 0.99              | 98000            | M162216_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 56              | 17.49 | 21936            | 0.94              | 98000            | M162218_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 48              | 20.39 | 25573            | 0.81              | 98000            | M162220_M_-__132C--                                                                                                      | 1590                            | 315L          |
| 299             | 4.95  | 5008             | 3.83              | 98000            | M16225.0_M_-__160A--                                                                                                     | 1590                            | 315L          |
| 276             | 5.35  | 5416             | 3.58              | 98000            | M16225.6_M_-__160A--                                                                                                     | 1590                            | 315L          |
| 237             | 6.26  | 6331             | 3.06              | 98000            | M16226.3_M_-__160A--                                                                                                     | 1590                            | 315L          |
| 181             | 8.19  | 8290             | 2.40              | 98000            | M16228.0_M_-__160A--                                                                                                     | 1590                            | 315L          |
| 158             | 9.35  | 9463             | 2.13              | 98000            | M16229.0_M_-__160A--                                                                                                     | 1590                            | 315L          |
| 132             | 11.17 | 11302            | 1.81              | 98000            | M162211_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 117             | 12.67 | 12819            | 1.61              | 98000            | M162212_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 106             | 14.01 | 14175            | 1.26              | 98000            | M162214_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 91              | 16.19 | 16381            | 1.23              | 98000            | M162216_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 85              | 17.49 | 17696            | 1.16              | 98000            | M162218_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 73              | 20.39 | 20630            | 1.00              | 97984            | M162220_M_-__160A--                                                                                                      | 1590                            | 315L          |
| 63              | 23.51 | 23787            | 0.87              | 98000            | M162222_M_-__160A--                                                                                                      | 1590                            | 315L          |

**NOTE**

Other output speeds  
are available using  
2 and 8 pole motors  
- Consult Application  
Engineering

Thermal rating should  
be checked  
(Refer page no. 112)

## DIMENSIONS - BASE MOUNTED DOUBLE/ TRIPLE REDUCTION



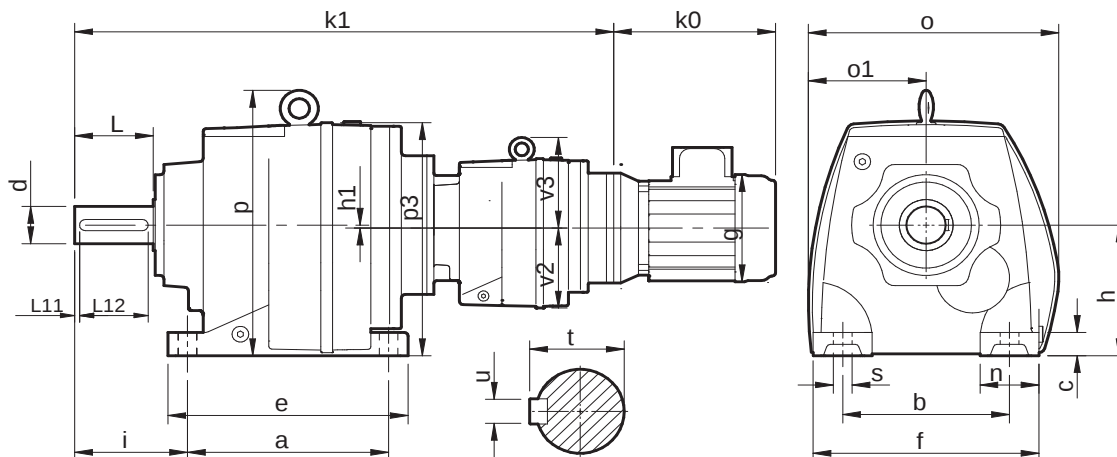
| Size           | a   | b   | c  | e   | f   | h   | h1   | i   | n   | o   | o1  | p   | p3  | s  | d      | L   | L11 | L12 | t   | u  |
|----------------|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|--------|-----|-----|-----|-----|----|
| M0122<br>M0132 | 110 | 110 | 12 | 131 | 135 | 75  | 0    | 58  | 25  | 152 | 76  | -   | 149 | 10 | 20 k6  | 40  | 4   | 32  | 23  | 6  |
| M0222<br>M0232 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 35  | 170 | 84  | -   | 180 | 10 | 25 k6  | 50  | 4   | 40  | 28  | 8  |
| M0322<br>M0332 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 35  | 170 | 84  | -   | 180 | 10 | 25 k6  | 50  | 4   | 40  | 28  | 8  |
| M0422<br>M0432 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 90  | 55  | 204 | 97  | -   | 208 | 15 | 30 k6  | 60  | 4   | 50  | 33  | 8  |
| M0522<br>M0532 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 100 | 55  | 204 | 97  | -   | 208 | 15 | 35 k6  | 70  | 7   | 60  | 38  | 10 |
| M0622<br>M0632 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60  | 220 | 110 | 246 | 214 | 15 | 35 k6  | 70  | 7   | 60  | 38  | 10 |
| M0722<br>M0732 | 205 | 170 | 25 | 245 | 230 | 140 | 0    | 115 | 60  | 252 | 119 | 295 | 250 | 19 | 40 k6  | 80  | 5   | 70  | 43  | 12 |
| M0822<br>M0832 | 260 | 215 | 35 | 310 | 290 | 180 | 0    | 140 | 75  | 320 | 167 | 360 | 310 | 19 | 50 k6  | 100 | 10  | 80  | 54  | 14 |
| M0922<br>M0932 | 310 | 250 | 45 | 365 | 340 | 225 | 0    | 160 | 90  | 375 | 176 | 465 | 395 | 23 | 60 m6  | 120 | 5   | 100 | 64  | 18 |
| M1022<br>M1032 | 370 | 290 | 45 | 440 | 400 | 250 | 0    | 185 | 110 | 435 | 206 | 524 | 446 | 27 | 70 m6  | 140 | 7   | 110 | 75  | 20 |
| M1322<br>M1332 | 410 | 340 | 60 | 490 | 450 | 315 | 17.6 | 220 | 110 | 480 | 231 | 615 | 516 | 33 | 90 m6  | 170 | 5   | 140 | 95  | 25 |
| M1422<br>M1432 | 500 | 380 | 70 | 590 | 530 | 355 | 23.6 | 260 | 150 | 535 | 268 | 680 | 581 | 39 | 110 m6 | 210 | 10  | 180 | 116 | 28 |
| M1622<br>M1632 | 580 | 500 | 80 | 670 | 660 | 425 | 42.2 | 270 | 160 | 760 | 335 | 805 | 675 | 39 | 120 m6 | 210 | 5   | 200 | 127 | 32 |

| Size |      |      | M0122 | M0132 | M0222 | M0232 | M0322 | M0332 | M0422 | M0432 | M0522 | M0532 | M0622 | M0632 | M0722 | M0732 | M0822 | M0832 | M0922 | M0932 | M1022 | M1032 | M1322 | M1332 | M1422 | M1432 | M1622 | M1632 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | k0** | øg** | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    |
| 63   | 183  | 124  | 209   | 224   | 240   | 253   | 240   | 253   | 270   | 300   | 280   | 310   | 301   | 331   | -     | 353   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| 71   | 210  | 140  | 213   | 228   | 244   | 257   | 244   | 257   | 276   | 304   | 286   | 314   | 307   | 335   | -     | 359   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     |
| 80   | 262  | 158  | 226   | 241   | 257   | 270   | 257   | 270   | 294   | 317   | 304   | 327   | 325   | 348   | 362   | 377   | 477   | 462   | 522   | 575   | -     | 640   | -     | -     | -     | -     | -     | -     |
| 90S  | 294  | 180  | 236   | 251   | 267   | 280   | 267   | 280   | 304   | 327   | 314   | 337   | 335   | 358   | 372   | 387   | 477   | 472   | 522   | 575   | -     | 640   | -     | -     | -     | -     | -     | -     |
| 90L  | 325  | 180  | 236   | 251   | 267   | 280   | 267   | 280   | 304   | 327   | 314   | 337   | 335   | 358   | 372   | 387   | 477   | 472   | 522   | 575   | -     | 640   | -     | -     | -     | -     | -     | -     |
| 100L | 314  | 198  | 244   | 259   | 275   | 288   | 275   | 288   | 331   | 335   | 341   | 345   | 362   | 366   | 384   | 414   | 483   | 484   | 528   | 581   | 596   | 646   | 713   | 718   | 828   | 836   | -     | 972   |
| 112M | 338  | 222  | 244   | 259   | 275   | 288   | 275   | 288   | 331   | 335   | 341   | 345   | 362   | 366   | 384   | 414   | 483   | 484   | 528   | 581   | 596   | 646   | 713   | 718   | 828   | 836   | -     | 972   |
| 132S | 373  | 262  | -     | -     | -     | -     | -     | -     | 331   | -     | 341   | -     | 362   | -     | 406   | 414   | 483   | 506   | 528   | 581   | 596   | 646   | 713   | 718   | 828   | 836   | -     | 972   |
| 132M | 409  | 262  | -     | -     | -     | -     | -     | -     | 331   | -     | 341   | -     | 362   | -     | 406   | 414   | 483   | 506   | 528   | 581   | 596   | 646   | 713   | 718   | 828   | 836   | -     | 972   |
| 160M | 479  | 314  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 414   | -     | 513   | 514   | 563   | 611   | 631   | 681   | 706   | 753   | 821   | 871   | -     | 965   |
| 160L | 523  | 314  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 414   | -     | 513   | 514   | 563   | 611   | 631   | 681   | 706   | 753   | 821   | 871   | -     | 965   |
| 180M | 545  | 354  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 563   | -     | 631   | 681   | 706   | 753   | 821   | 871   | 1106  | 965   |
| 180L | 583  | 354  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 563   | -     | 631   | 681   | 706   | 753   | 821   | 871   | 1106  | 965   |
| 200L | 650  | 395  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 563   | -     | 631   | 681   | 706   | 753   | 821   | 871   | 1106  | 965   |
| 225S | 740  | 435  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 590   | -     | 658   | 708   | 733   | 780   | 848   | 898   | 1136  | 965   |
| 225M | 740  | 435  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 590   | -     | 658   | 708   | 733   | 780   | 848   | 898   | 1136  | 992   |
| 250M | 790  | 481  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 905   | -     | 1020  | -     | 1136  | 992   |
| 280S | 900  | 543  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 905   | -     | 1020  | -     | 1136  | 1164  |
| 280M | 900  | 543  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 905   | -     | 1020  | -     | 1136  | 1164  |
| 315S | 1015 | 621  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1166  | -     |
| 315M | 1015 | 621  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1166  | -     |
| 315L | 1178 | 621  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1166  | -     |

\*\* Motor lengths k0 for standard own brand motors can be found on the motor details page.

# SERIES M

## DIMENSIONS - BASE MOUNTED QUADRUPLE/ QUINTUPLE REDUCTION

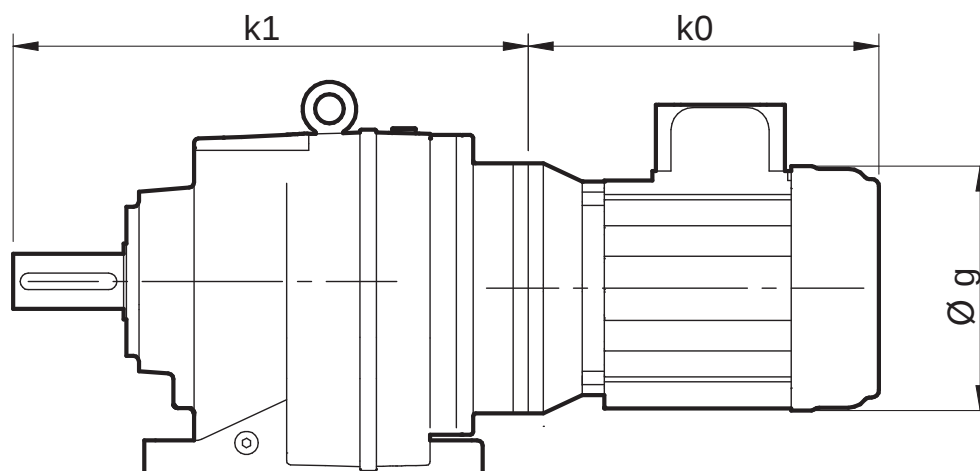


| Size           | a   | b   | c  | e   | f   | h   | h1   | i   | n   | o   | o1  | p   | p3  | s  | d      | L   | L11 | L12 | t    | u  | v2  | v3  |
|----------------|-----|-----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|----|--------|-----|-----|-----|------|----|-----|-----|
| M0342<br>M0352 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 35  | 170 | 84  | -   | 180 | 10 | 25 k6  | 50  | 4   | 40  | 28   | 8  | 76  | 74  |
| M0442<br>M0452 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 90  | 55  | 204 | 97  | -   | 208 | 15 | 30 k6  | 60  | 4   | 50  | 33   | 8  | 91  | 90  |
| M0542<br>M0552 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 100 | 55  | 204 | 97  | -   | 208 | 15 | 35 k6  | 70  | 7   | 60  | 38   | 10 | 91  | 90  |
| M0642<br>M0652 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60  | 220 | 110 | 246 | 214 | 15 | 35 k6  | 70  | 7   | 60  | 38   | 10 | 91  | 90  |
| M0742<br>M0752 | 205 | 170 | 25 | 245 | 230 | 140 | 0    | 115 | 60  | 252 | 119 | 295 | 250 | 19 | 40 k6  | 80  | 5   | 70  | 43   | 12 | 91  | 90  |
| M0842<br>M0852 | 260 | 215 | 35 | 310 | 290 | 180 | 0    | 140 | 75  | 320 | 167 | 360 | 310 | 19 | 50 k6  | 100 | 10  | 80  | 53.5 | 14 | 115 | 93  |
| M0942<br>M0952 | 310 | 250 | 45 | 365 | 340 | 225 | 0    | 160 | 90  | 375 | 176 | 465 | 395 | 23 | 60 m6  | 120 | 5   | 100 | 64   | 18 | 115 | 93  |
| M1042<br>M1052 | 370 | 290 | 45 | 440 | 400 | 250 | 0    | 185 | 110 | 435 | 206 | 524 | 446 | 27 | 70 m6  | 140 | 7   | 110 | 74.5 | 20 | 140 | 155 |
| M1342<br>M1352 | 410 | 340 | 60 | 490 | 450 | 315 | 17.6 | 220 | 110 | 480 | 231 | 615 | 516 | 33 | 90 m6  | 170 | 5   | 140 | 95   | 25 | 140 | 155 |
| M1442<br>M1452 | 500 | 380 | 70 | 590 | 530 | 355 | 23.6 | 260 | 150 | 535 | 268 | 680 | 581 | 39 | 110 m6 | 210 | 10  | 180 | 116  | 28 | 140 | 155 |
| M1642<br>M1652 | 580 | 500 | 80 | 670 | 660 | 425 | 42.2 | 270 | 160 | 760 | 335 | 805 | 675 | 39 | 120 m6 | 210 | 5   | 200 | 127  | 32 | 230 | 240 |

| Size |      |      | M0342 | M0352 | M0442 | M0452 | M0542 | M0552 | M0642 | M0652 | M0742 | M0752 | M0842 | M0852 | M0942 | M0952 | M1042 | M1052 | M1342 | M1352 | M1442 | M1452 | M1642 | M1652 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | k0** | øg** | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    | k1    |
| 63   | 183  | 124  | 426   | 441   | 494   | 507   | 504   | 517   | 525   | 538   | 562   | 575   | 652   | 682   | 732   | 762   | -     | 869   | -     | 986   | -     | 1101  | -     | -     |
| 71   | 210  | 140  | 430   | 445   | 498   | 511   | 508   | 521   | 529   | 542   | 566   | 579   | 658   | 686   | 738   | 766   | -     | 875   | -     | 992   | -     | 1107  | -     | -     |
| 80   | 262  | 158  | 443   | 458   | 511   | 524   | 521   | 534   | 542   | 555   | 579   | 592   | 676   | 699   | 756   | 779   | 878   | 893   | 995   | 1010  | 1110  | 1125  | 1518  | 1571  |
| 90S  | 294  | 180  | 453   | 468   | 521   | 534   | 531   | 544   | 552   | 565   | 589   | 602   | 686   | 709   | 766   | 789   | 888   | 903   | 1005  | 1020  | 1120  | 1135  | 1518  | 1571  |
| 90L  | 325  | 180  | 453   | 468   | 521   | 534   | 531   | 544   | 552   | 565   | 589   | 602   | 686   | 709   | 766   | 789   | 888   | 903   | 1005  | 1020  | 1120  | 1135  | 1518  | 1571  |
| 100L | 314  | 198  | 461   | 476   | 529   | 542   | 539   | 552   | 560   | 573   | 597   | 610   | 713   | 717   | 793   | 797   | 900   | 930   | 1017  | 1047  | 1132  | 1162  | 1524  | 1577  |
| 112M | 338  | 222  | 461   | 476   | 529   | 542   | 539   | 552   | 560   | 573   | 597   | 610   | 713   | 717   | 793   | 797   | 900   | 930   | 1017  | 1047  | 1132  | 1162  | 1524  | 1577  |
| 132S | 373  | 262  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 713   | -     | 793   | -     | 922   | 930   | 1039  | 1047  | 1154  | 1162  | 1524  | 1577  |
| 132M | 409  | 262  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 713   | -     | 793   | -     | 922   | 930   | 1039  | 1047  | 1154  | 1162  | 1524  | 1577  |
| 160M | 479  | 314  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 930   | -     | 1047  | -     | 1162  | -     | 1559  | 1607  |
| 160L | 523  | 314  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 930   | -     | 1047  | -     | 1162  | -     | 1559  | 1607  |
| 180M | 545  | 354  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1559  | -     |
| 180L | 583  | 354  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1559  | -     |
| 200L | 650  | 395  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1559  | -     |
| 225S | 740  | 435  | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 1559  | -     |

\*\* Motor lengths k0 for standard own brand motors can be found on the motor details page.

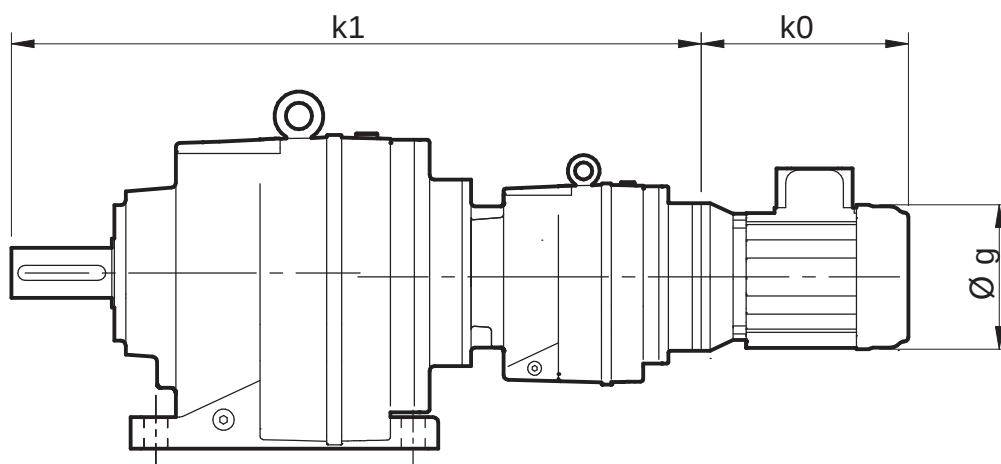
## DIMENSIONS - BASE MOUNTED UNITS WITH INTEGRAL MOTOR



| Size    |     | M0122 |     | M0222 |     | M0322 |     | M0422 |     | M0522 |     | M0622 |     | M0722 |     | M0822 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 175   | 222 | 206   | 222 | 206   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 175   | 222 | 206   | 222 | 206   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 175   | 297 | 206   | 297 | 206   | 297 | 258   | 282 | 268   | 282 | 289   | 282 | -     | -   | -     | -   |
| 0.75 kW | 158 | 175   | 297 | 206   | 297 | 206   | 297 | 258   | 282 | 268   | 282 | 289   | 282 | -     | -   | -     | -   |
| 1.1 kW  | 179 | 175   | 307 | 206   | 307 | 206   | 307 | 258   | 292 | 268   | 292 | 289   | 292 | 325   | 278 | -     | -   |
| 1.5 kW  | 179 | 175   | 307 | 206   | 307 | 206   | 307 | 258   | 292 | 268   | 292 | 289   | 292 | 325   | 278 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | 258   | 354 | 268   | 354 | 289   | 354 | 325   | 340 | 395   | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | 258   | 354 | 268   | 354 | 289   | 354 | 325   | 340 | 395   | 331 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | 258   | 424 | 268   | 424 | 289   | 424 | 325   | 410 | 395   | 401 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | 258   | 495 | 268   | 495 | 289   | 495 | 325   | 481 | 395   | 472 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 325   | 481 | 395   | 472 |

| Size    |     | M0132 |     | M0232 |     | M0332 |     | M0432 |     | M0532 |     | M0632 |     | M0732 |     | M0832 |     | M0932 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 190   | 222 | 219   | 222 | 219   | 222 | 266   | 222 | 276   | 222 | 297   | 222 | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 190   | 222 | 219   | 222 | 219   | 222 | 266   | 222 | 276   | 222 | 297   | 222 | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 190   | 297 | 219   | 297 | 219   | 297 | 266   | 297 | 276   | 297 | 297   | 297 | 341   | 282 | -     | -   | -     | -   |
| 0.75 kW | 158 | 190   | 297 | 219   | 297 | 219   | 297 | 266   | 297 | 276   | 297 | 297   | 297 | 341   | 282 | -     | -   | -     | -   |
| 1.1 kW  | 179 | 190   | 307 | 219   | 307 | 219   | 307 | 266   | 307 | 276   | 307 | 297   | 307 | 341   | 292 | 425   | 278 | -     | -   |
| 1.5 kW  | 179 | 190   | 307 | 219   | 307 | 219   | 307 | 266   | 307 | 276   | 307 | 297   | 307 | 341   | 292 | 425   | 278 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 341   | 354 | 425   | 331 | 494   | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 341   | 354 | 425   | 331 | 494   | 331 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 401 | 494   | 366 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 472 | 494   | 488 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 472 | 494   | 488 |

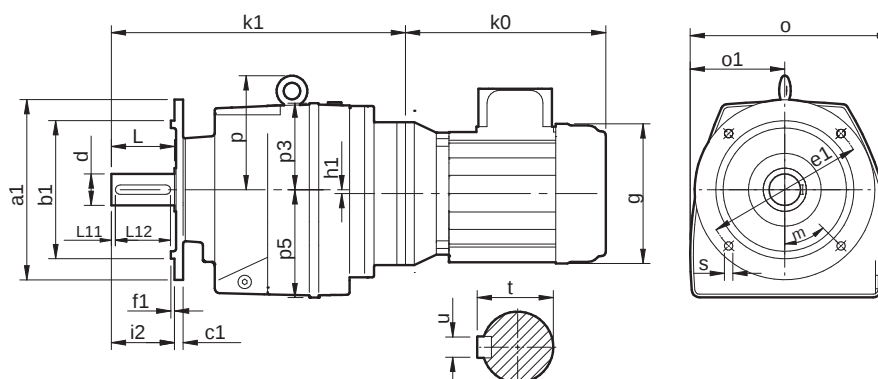
## DIMENSIONS - BASE MOUNTED UNITS WITH INTEGRAL MOTOR



| Size    |     | M0342 |     | M0442 |     | M0542 |     | M0642 |     | M0742 |     | M0842 |     | M0942 |     | M1042 |     | M1342 |     | M1442 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 392   | 222 | 460   | 222 | 470   | 222 | 491   | 222 | 528   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 392   | 222 | 460   | 222 | 470   | 222 | 491   | 222 | 528   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 392   | 297 | 460   | 297 | 470   | 297 | 491   | 297 | 528   | 297 | 640   | 282 | 720   | 282 | -     | -   | -     | -   | -     | -   |
| 0.75 kW | 158 | 392   | 297 | 460   | 297 | 470   | 297 | 491   | 297 | 528   | 297 | 640   | 282 | 720   | 282 | -     | -   | -     | -   | -     | -   |
| 1.1 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 292 | 720   | 292 | 841   | 278 | 958   | 278 | 1073  | 278 |
| 1.5 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 292 | 720   | 292 | 841   | 278 | 958   | 278 | 1073  | 278 |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 354 | 720   | 354 | 841   | 340 | 958   | 340 | 1073  | 340 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 354 | 720   | 354 | 841   | 340 | 958   | 340 | 1073  | 340 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 410 | 958   | 410 | 1073  | 410 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 481 | 958   | 481 | 1073  | 481 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 481 | 958   | 481 | 1073  | 481 |

| Size    |     | M0352 |     | M0452 |     | M0552 |     | M0652 |     | M0752 |     | M0852 |     | M0952 |     | M1052 |     | M1352 |     | M1452 |     | M1652 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 407   | 222 | 473   | 222 | 483   | 222 | 504   | 222 | 541   | 222 | 648   | 222 | 728   | 222 | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 407   | 222 | 473   | 222 | 483   | 222 | 504   | 222 | 541   | 222 | 648   | 222 | 728   | 222 | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 407   | 297 | 473   | 297 | 483   | 297 | 504   | 297 | 541   | 297 | 648   | 297 | 728   | 297 | 857   | 282 | 974   | 282 | 1089  | 282 | -     | -   |
| 0.75 kW | 158 | 407   | 297 | 473   | 297 | 483   | 297 | 504   | 297 | 541   | 297 | 648   | 297 | 728   | 297 | 857   | 282 | 974   | 282 | 1089  | 282 | -     | -   |
| 1.1 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 292 | 974   | 292 | 1089  | 292 | -     | -   |
| 1.5 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 292 | 974   | 292 | 1089  | 292 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 354 | 974   | 354 | 1089  | 354 | 1482  | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 354 | 974   | 354 | 1089  | 354 | 1482  | 331 |

## DIMENSIONS - FLANGE MOUNTED DOUBLE/ TRIPLE REDUCTION

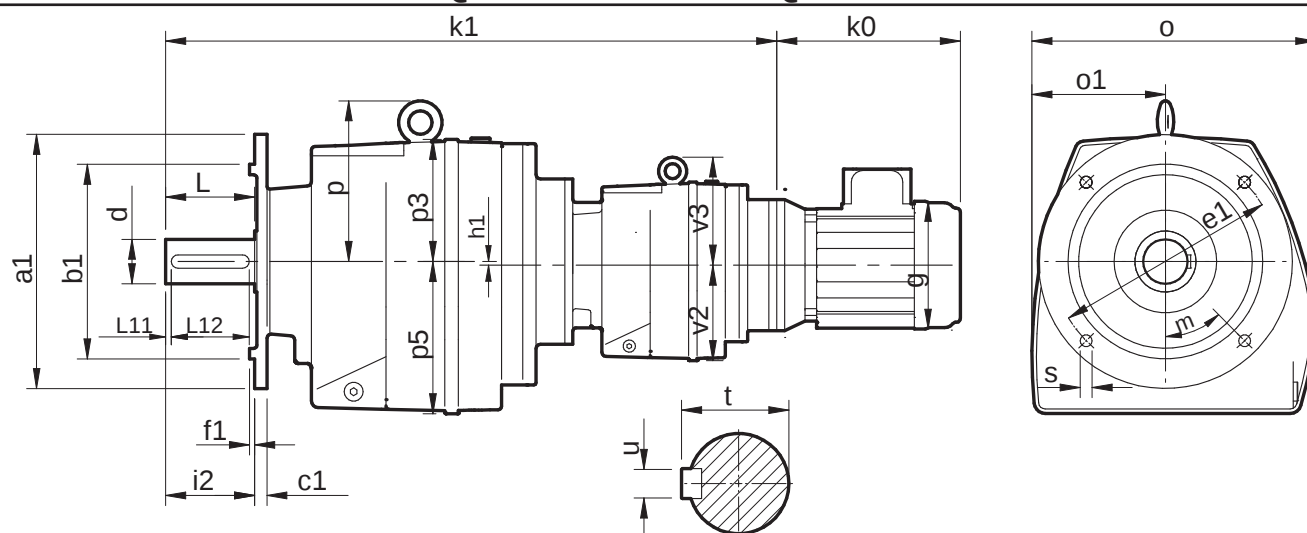


| Size           | a1  | b1  | c1 | e1  | f1  | s      | m     | h1   | i2  | o   | o1  | p   | p3  | p5  | d      | L   | L11 | L12 | t   | u  |
|----------------|-----|-----|----|-----|-----|--------|-------|------|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|-----|----|
| M0122<br>M0132 | 120 | 80  | 09 | 100 | 3   | 4 x 7  | 45°   | 0    | 40  | 152 | 76  | -   | 74  | 76  | 20 k6  | 40  | 4   | 32  | 23  | 6  |
|                | 140 | 95  | 09 | 115 | 3   | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 160 | 110 | 09 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0222<br>M0232 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 170 | 84  | -   | 90  | 91  | 25 k6  | 50  | 4   | 40  | 28  | 8  |
|                | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0322<br>M0332 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 170 | 84  | -   | 90  | 91  | 25 k6  | 50  | 4   | 40  | 28  | 8  |
|                | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0422<br>M0432 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 60  | 204 | 97  | -   | 93  | 115 | 30 k6  | 60  | 4   | 50  | 33  | 8  |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0522<br>M0532 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 70  | 204 | 97  | -   | 93  | 115 | 35 k6  | 70  | 7   | 60  | 38  | 10 |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0622<br>M0632 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 14.5 | 70  | 220 | 110 | 116 | 84  | 130 | 35 k6  | 70  | 7   | 60  | 38  | 10 |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0722<br>M0732 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 0    | 80  | 252 | 119 | 155 | 110 | 140 | 40 k6  | 80  | 5   | 70  | 43  | 12 |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0822<br>M0832 | 300 | 230 | 17 | 265 | 4   | 4 x 13 | 45°   | 0    | 100 | 320 | 167 | 180 | 130 | 182 | 50 k6  | 100 | 10  | 80  | 54  | 14 |
|                | 350 | 250 | 17 | 300 | 5   | 4 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M0922<br>M0932 | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 120 | 375 | 176 | 240 | 170 | 230 | 60 m6  | 120 | 5   | 100 | 64  | 18 |
|                | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M1022<br>M1032 | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 140 | 435 | 206 | 274 | 196 | 255 | 70 m6  | 140 | 7   | 110 | 75  | 20 |
|                | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M1322<br>M1332 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 17.6 | 170 | 480 | 231 | 300 | 202 | 310 | 90 m6  | 170 | 5   | 140 | 95  | 25 |
|                | 550 | 450 | 25 | 500 | 5   |        |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M1422<br>M1432 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 23.6 | 210 | 535 | 268 | 325 | 226 | 350 | 110 m6 | 210 | 10  | 180 | 116 | 28 |
|                | 550 | 450 | 25 | 500 | 5   |        |       |      |     |     |     |     |     |     |        |     |     |     |     |    |
| M1622<br>M1632 | 550 | 450 | 25 | 500 | 5   | 8 x 18 | 22.5° | 42.2 | 210 | 760 | 335 | 380 | 250 | 415 | 120 m6 | 210 | 5   | 200 | 127 | 32 |
|                | 660 | 550 | 28 | 600 | 6   | 8 x 22 |       |      |     |     |     |     |     |     |        |     |     |     |     |    |

[illegible]

\*\* Motor lengths k0 for standard own brand motors can be found on the motor details page.

## DIMENSIONS - FLANGE MOUNTED QUADRUPLE/ QUINTUPLE REDUCTION

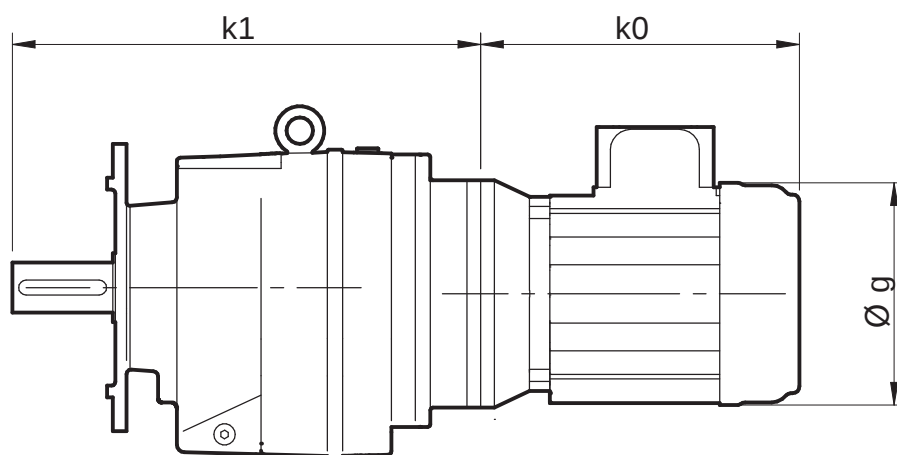


| Size           | a1  | b1  | c1 | e1  | f1  | s      | m     | h1   | i2  | o   | o1  | p   | p3  | p5  | d      | L   | L11 | L12 | t    | u  | v2  | v3  |
|----------------|-----|-----|----|-----|-----|--------|-------|------|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----|------|----|-----|-----|
| M0342<br>M0352 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 170 | 84  | -   | 90  | 91  | 25 k6  | 50  | 4   | 40  | 28   | 8  | 76  | 74  |
|                | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0432<br>M0452 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 60  | 204 | 97  | -   | 93  | 115 | 30 k6  | 60  | 4   | 50  | 33   | 8  | 91  | 90  |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0542<br>M0552 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 70  | 204 | 97  | -   | 93  | 115 | 35 k6  | 70  | 7   | 60  | 38   | 10 | 91  | 90  |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0642<br>M0652 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 14.5 | 70  | 220 | 110 | 116 | 84  | 130 | 35 k6  | 70  | 7   | 60  | 38   | 10 | 91  | 90  |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0742<br>M0752 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 0    | 80  | 252 | 119 | 155 | 110 | 140 | 40 k6  | 80  | 5   | 70  | 43   | 12 | 91  | 90  |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0842<br>M0852 | 300 | 230 | 17 | 265 | 4   | 4 x 13 | 45°   | 0    | 100 | 320 | 167 | 180 | 130 | 182 | 50 k6  | 100 | 10  | 80  | 53.5 | 14 | 115 | 93  |
|                | 350 | 250 | 17 | 300 | 5   | 4 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M0942          | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 120 | 375 | 176 | 240 | 170 | 230 | 60 m6  | 120 | 5   | 100 | 64   | 18 | 115 | 93  |
| M0952          | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M1042          | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 140 | 435 | 206 | 274 | 196 | 255 | 70 m6  | 140 | 7   | 110 | 74.5 | 20 | 140 | 155 |
| M1052          | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M1342          | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 17.6 | 170 | 480 | 231 | 300 | 202 | 310 | 90 m6  | 170 | 5   | 140 | 95   | 25 | 140 | 155 |
| M1352          | 550 | 450 | 25 | 500 | 5   |        |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M1442          | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 23.6 | 210 | 535 | 268 | 325 | 226 | 350 | 110 m6 | 210 | 10  | 180 | 116  | 28 | 140 | 155 |
| M1452          | 550 | 450 | 25 | 500 | 5   |        |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |
| M1642          | 550 | 450 | 25 | 500 | 5   | 8 x 18 | 22.5° | 42.2 | 210 | 760 | 335 | 380 | 250 | 415 | 120 m6 | 210 | 5   | 200 | 127  | 32 | 230 | 240 |
| M1652          | 660 | 550 | 28 | 600 | 6   |        |       |      |     |     |     |     |     |     |        |     |     |     |      |    |     |     |

[illegible]

\*\* Motor lengths k0 for standard own brand motors can be found on the motor details page.

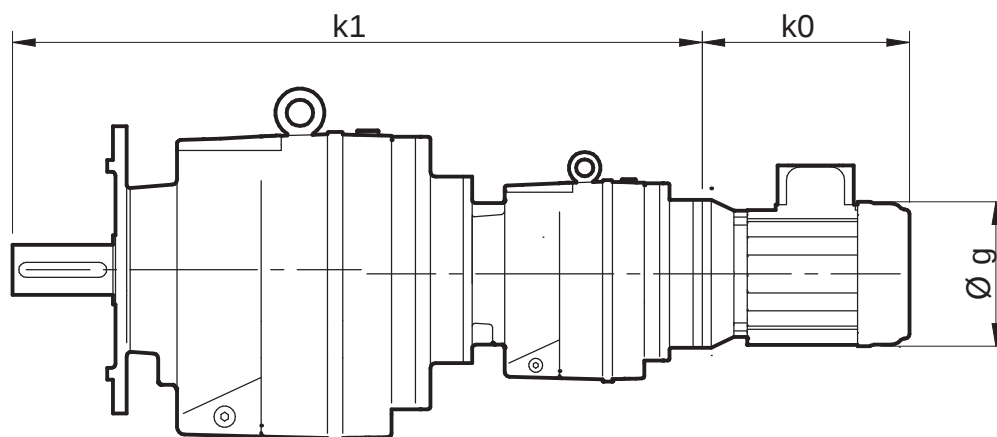
## DIMENSIONS - FLANGE MOUNTED UNITS WITH INTEGRAL MOTOR



| Size    |     | M0122 |     | M0222 |     | M0322 |     | M0422 |     | M0522 |     | M0622 |     | M0722 |     | M0822 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 175   | 222 | 206   | 222 | 206   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 175   | 222 | 206   | 222 | 206   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 175   | 297 | 206   | 297 | 206   | 297 | 258   | 282 | 268   | 282 | 289   | 282 | -     | -   | -     | -   |
| 0.75 kW | 158 | 175   | 297 | 206   | 297 | 206   | 297 | 258   | 282 | 268   | 282 | 289   | 282 | -     | -   | -     | -   |
| 1.1 kW  | 179 | 175   | 307 | 206   | 307 | 206   | 307 | 258   | 292 | 268   | 292 | 289   | 292 | 325   | 278 | -     | -   |
| 1.5 kW  | 179 | 175   | 307 | 206   | 307 | 206   | 307 | 258   | 292 | 268   | 292 | 289   | 292 | 325   | 278 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | 258   | 354 | 268   | 354 | 289   | 354 | 325   | 340 | 395   | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | 258   | 354 | 268   | 354 | 289   | 354 | 325   | 340 | 395   | 331 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | 258   | 424 | 268   | 424 | 289   | 424 | 325   | 410 | 395   | 401 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | 258   | 495 | 268   | 495 | 289   | 495 | 325   | 481 | 395   | 472 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 325   | 481 | 395   | 472 |

| Size    |     | M0132 |     | M0232 |     | M0332 |     | M0432 |     | M0532 |     | M0632 |     | M0732 |     | M0832 |     | M0932 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 190   | 222 | 219   | 222 | 219   | 222 | 266   | 222 | 276   | 222 | 297   | 222 | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 190   | 222 | 219   | 222 | 219   | 222 | 266   | 222 | 276   | 222 | 297   | 222 | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 190   | 297 | 219   | 297 | 219   | 297 | 266   | 297 | 276   | 297 | 297   | 297 | 341   | 282 | -     | -   | -     | -   |
| 0.75 kW | 158 | 190   | 297 | 219   | 297 | 219   | 297 | 266   | 297 | 276   | 297 | 297   | 297 | 341   | 282 | -     | -   | -     | -   |
| 1.1 kW  | 179 | 190   | 307 | 219   | 307 | 219   | 307 | 266   | 307 | 276   | 307 | 297   | 307 | 341   | 292 | 425   | 278 | -     | -   |
| 1.5 kW  | 179 | 190   | 307 | 219   | 307 | 219   | 307 | 266   | 307 | 276   | 307 | 297   | 307 | 341   | 292 | 425   | 278 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 341   | 354 | 425   | 331 | 494   | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 341   | 354 | 425   | 331 | 494   | 331 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 401 | 494   | 366 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 472 | 494   | 488 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 425   | 472 | 494   | 488 |

## DIMENSIONS - FLANGE MOUNTED UNITS WITH INTEGRAL MOTOR



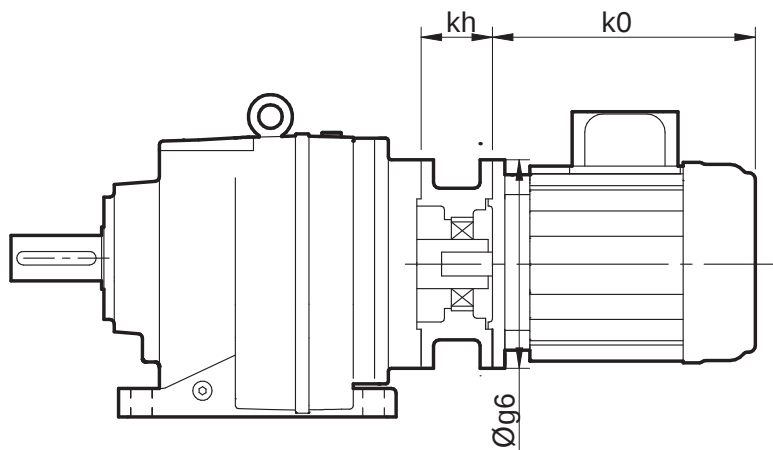
| Size    |     | M0342 |     | M0442 |     | M0542 |     | M0642 |     | M0742 |     | M0842 |     | M0942 |     | M1042 |     | M1342 |     | M1442 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 392   | 222 | 460   | 222 | 470   | 222 | 491   | 222 | 528   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 392   | 222 | 460   | 222 | 470   | 222 | 491   | 222 | 528   | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 392   | 297 | 460   | 297 | 470   | 297 | 491   | 297 | 528   | 297 | 640   | 282 | 720   | 282 | -     | -   | -     | -   | -     | -   |
| 0.75 kW | 158 | 392   | 297 | 460   | 297 | 470   | 297 | 491   | 297 | 528   | 297 | 640   | 282 | 720   | 282 | -     | -   | -     | -   | -     | -   |
| 1.1 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 292 | 720   | 292 | 841   | 278 | 958   | 278 | 1073  | 278 |
| 1.5 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 292 | 720   | 292 | 841   | 278 | 958   | 278 | 1073  | 278 |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 354 | 720   | 354 | 841   | 340 | 958   | 340 | 1073  | 340 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 640   | 354 | 720   | 354 | 841   | 340 | 958   | 340 | 1073  | 340 |
| 3.7 kW  | 222 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 410 | 958   | 410 | 1073  | 410 |
| 5.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 481 | 958   | 481 | 1073  | 481 |
| 7.5 kW  | 262 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 841   | 481 | 958   | 481 | 1073  | 481 |

| Size    |     | M0352 |     | M0452 |     | M0552 |     | M0652 |     | M0752 |     | M0852 |     | M0952 |     | M1052 |     | M1352 |     | M1452 |     | M1652 |     |
|---------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
|         | Øg  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  | k1    | k0  |
| 0.25 kW | 140 | 407   | 222 | 473   | 222 | 483   | 222 | 504   | 222 | 541   | 222 | 648   | 222 | 728   | 222 | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.37 kW | 140 | 407   | 222 | 473   | 222 | 483   | 222 | 504   | 222 | 541   | 222 | 648   | 222 | 728   | 222 | -     | -   | -     | -   | -     | -   | -     | -   |
| 0.55 kW | 158 | 407   | 297 | 473   | 297 | 483   | 297 | 504   | 297 | 541   | 297 | 648   | 297 | 728   | 297 | 857   | 282 | 974   | 282 | 1089  | 282 | -     | -   |
| 0.75 kW | 158 | 407   | 297 | 473   | 297 | 483   | 297 | 504   | 297 | 541   | 297 | 648   | 297 | 728   | 297 | 857   | 282 | 974   | 282 | 1089  | 282 | -     | -   |
| 1.1 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 292 | 974   | 292 | 1089  | 292 | -     | -   |
| 1.5 kW  | 179 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 292 | 974   | 292 | 1089  | 292 | -     | -   |
| 2.2 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 354 | 974   | 354 | 1089  | 354 | 1482  | 331 |
| 3.0 kW  | 198 | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | -     | -   | 857   | 354 | 974   | 354 | 1089  | 354 | 1482  | 331 |

## MOTORISED BACKSTOP MODULE

Motorised backstop modules can be fitted between the gear unit and motor. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation motor speed must exceed lift off speed.

Suitable for ambient temperature -40°C to + 50°C



### **Warning**

Removal of motor or backstop will release the drive. Ensure all driven machinery is secure prior to any maintenance work

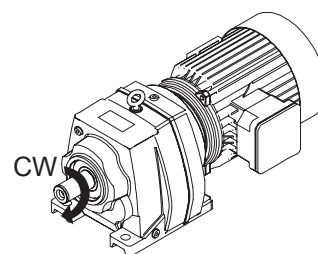
### **IEC B5 Flange**

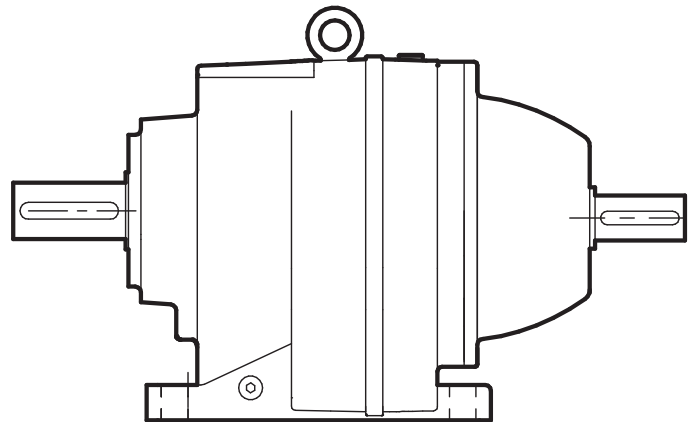
| Motor Frame Size | Lift off speed<br>'n' min<br>rev/min | Rated locking<br>torque 'T max'<br>(at motor) Nm | Øg6 | kh  |
|------------------|--------------------------------------|--------------------------------------------------|-----|-----|
| 100              | 670                                  | 170                                              | 250 | 70  |
| 112              | 670                                  | 170                                              | 250 | 70  |
| 132              | 620                                  | 940                                              | 300 | 95  |
| 160              | 620                                  | 940                                              | 350 | 130 |
| 180              | 620                                  | 940                                              | 350 | 130 |
| 200              | 550                                  | 1260                                             | 400 | 130 |

When a backstop module is fitted dimension kh should be added to the overall length of the geared motor assembly.

Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram)

|    |   |               |   |               |
|----|---|---------------|---|---------------|
| CW | - | Free Rotation | - | Clockwise     |
|    |   | Locked        | - | Anticlockwise |
| AC | - | Free Rotation | - | Anticlockwise |
|    |   | Locked        | - | Clockwise     |





# REDUCER SERIES M

# SERIES M

## OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

### Maximum Permissible Overhung Loads

When a sprocket, gear etc. is mounted on the shaft a calculation, as below, must be made to determine the overhung load (P) on the shaft, and the results compared to the maximum permissible overhung loads tabulated (Fra or Frb). Overhung loads can be reduced by increasing the diameter of the sprocket, gear, etc. If the maximum permissible overhung load is exceeded, the sprocket, gear, etc. should be mounted on a separate shaft, flexibly coupled and supported in its own bearings, or the gear unit shaft could be extended to run in an outboard bearing.

Permissible overhung loads vary according to the direction of rotation. The values tabulated are for the most unfavourable direction with the unit transmitting full rated power, with load P applied midway along the shaft extension. Hence they may be increased for a more favourable direction of rotation, or if the power transmitted is less than the rated capacity of the gear unit - consult our Application Engineers for details.

The position of the sprocket, gear etc should be as close to the gear unit case as possible, should the position of the outputshaft load P vary from midway along the shaft extension, the allowable tabulated loads Fra shall be adjusted by Factor FL (see details below)

All units will accept 100% momentary overload on stated capacities. In any event, the sprocket, gear etc. should be positioned as close as possible to the gear unit case in order to reduce bearing loads and shaft stresses, to prolong life.

All units will accept 100% momentary overload on stated capacities.

### Overhung load (Newtons)

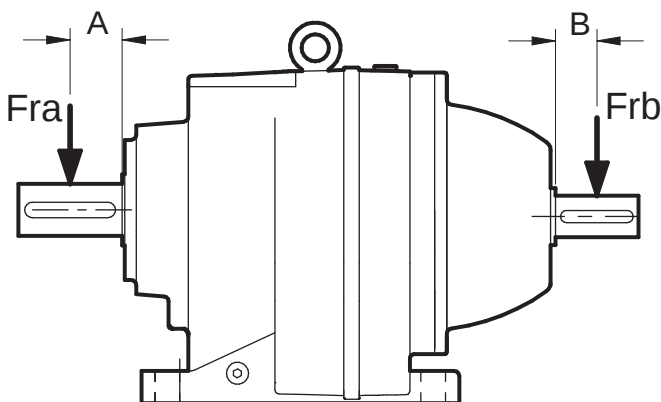
$$P = \frac{kW \times 9,500,000 \times K}{N \times R}$$

The applied load P should not exceed tabulated values Fra and Frb

where

- P = equivalent overhung load (Newtons)  
kW = power transmitted by the shaft (kW)  
N = speed of shaft (rev/min)  
R = pitch radius of sprocket, etc. (mm)  
K = factor

Note: 1 Newton = 0.101972 kp = 0.227809 lbf.



### Axial Thrust Capacities (Newtons)

No check or calculation is required if the axial thrust load ( $F_A$ ) towards or away from the unit is under 50% of the permissible overhung load.

If the axial thrust considerably exceeds these values or if there is a combination of axial thrust loads and overhung loads please contact our Application Engineers.

### Inputshaft Overhung Loads, Frb (Kn) 1450 rpm

Two, Three, Four and Five Stage Units

|         | M01  | M02  | M03  | M04 | M05 | M06 | M07  | M08  | M09  | M10  | M13  | M14  | M16  |
|---------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|
| 2 Stage | 1.5  | 1.65 | 1.56 | 1.2 | 1.1 | 0.9 | 1.65 | 1.5  | 1.5  | 2.55 | 6.9  | 7.1  | 12   |
| 3 Stage | 1.65 | 1.75 | 1.75 | 1.5 | 1.5 | 1.5 | 1.8  | 2.25 | 3.5  | 4.2  | 12   | 12   | 12   |
| 4 Stage | -    | -    | 1.5  | 1.5 | 1.5 | 1.5 | 1.5  | 1.75 | 1.75 | 2.25 | 2.25 | 2.25 | 2.25 |
| 5 Stage | -    | -    | 1.5  | 1.5 | 1.5 | 1.5 | 1.5  | 1.75 | 1.75 | 2.25 | 2.25 | 2.25 | 2.25 |

### Overhung member K (factor)

|                        |      |
|------------------------|------|
| Chain sprocket*        | 1.00 |
| Spur or helical pinion | 1.25 |
| Vee belt sheave        | 1.50 |
| Flat belt pulley       | 2.00 |

\* If multistrand chain drives are equally loaded and the outer strand is further than dimension Fra output or Frb input, refer to our Application Engineers.

### Output Shaft Overhung Loads (Fra)

Consult the Gear Unit Ratings Tables for value Fra

The Fra values tabulated assume load P is applied midway along the shaft extension (dimension A in the table below)

If load P is applied in a different position the tabulated value Fra shall be adjusted by the following formula:

$$Fra \times FL$$

$$FL = C \times \frac{D}{(D+Lx)}$$

Lx = Distance (mm) to the applied load P from the shaft shoulder

|           | A (mm) | Reduction Stages | B (mm) | Constants |     |
|-----------|--------|------------------|--------|-----------|-----|
|           |        |                  |        | C         | D   |
| M01       | 20     | 2 & 3            | 20     | 1.43      | 47  |
| M02 & M03 | 25     | 2 & 3            | 20     | 1.41      | 61  |
| M04       | 30     | 2, 3, 4 & 5      | 20     | 1.39      | 77  |
| M05       | 35     | 2, 3, 4 & 5      | 20     | 1.45      | 77  |
| M06       | 35     | 2, 3, 4 & 5      | 20     | 1.37      | 94  |
| M07       | 40     | 2                | 25     | 1.41      | 97  |
|           |        | 3, 4 & 5         | 20     |           |     |
| M08       | 50     | 2                | 30     | 1.42      | 118 |
|           |        | 3                | 25     |           |     |
|           |        | 4 & 5            | 20     |           |     |
| M09       | 60     | 2                | 40     | 1.44      | 136 |
|           |        | 3                | 30     |           |     |
|           |        | 4 & 5            | 20     |           |     |
| M10       | 70     | 2                | 55     | 1.42      | 167 |
|           |        | 3                | 40     |           |     |
|           |        | 4                | 25     |           |     |
|           |        | 5                | 20     |           |     |
| M13       | 85     | 2 & 3            | 55     | 1.49      | 174 |
|           |        | 4                | 25     |           |     |
|           |        | 5                | 20     |           |     |
| M14       | 105    | 2 & 3            | 55     | 1.47      | 223 |
|           |        | 4                | 25     |           |     |
|           |        | 5                | 20     |           |     |
| M16       | 105    | 2                | 70     | 1.38      | 274 |
|           |        | 3                | 55     |           |     |
|           |        | 4                | 40     |           |     |
|           |        | 5                | 30     |           |     |
|           |        |                  |        |           |     |



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              |     |       | n1 = 1450 |     |      |      | n1 = 960 |     |      |      | n1 = 2900 |     |      |      | n1 = 725 |     |      |      |
|--------------|-----|-------|-----------|-----|------|------|----------|-----|------|------|-----------|-----|------|------|----------|-----|------|------|
|              | in  | i     | n2        | M2  | Pm   | Fra  | n2       | M2  | Pm   | Fra  | n2        | M2  | Pm   | Fra  | n2       | M2  | Pm   | Fra  |
| <b>M0122</b> | 3.6 | 3.750 | 387       | 59  | 2.44 | 1.24 | 256      | 68  | 1.86 | 1.35 | 773       | 47  | 3.88 | 1.11 | 193      | 73  | 1.51 | 1.44 |
|              | 5.0 | 5.066 | 286       | 68  | 2.08 | 1.32 | 189      | 76  | 1.54 | 1.44 | 572       | 54  | 3.30 | 1.15 | 143      | 79  | 1.21 | 1.46 |
|              | 5.6 | 5.762 | 252       | 71  | 1.91 | 1.36 | 167      | 78  | 1.39 | 1.48 | 503       | 57  | 3.07 | 1.18 | 126      | 82  | 1.10 | 1.49 |
|              | 6.3 | 6.528 | 222       | 75  | 1.78 | 1.39 | 147      | 80  | 1.26 | 1.52 | 444       | 60  | 2.85 | 1.20 | 111      | 84  | 1.00 | 1.59 |
|              | 8.0 | 8.348 | 174       | 79  | 1.47 | 1.47 | 115      | 85  | 1.04 | 1.66 | 347       | 66  | 2.45 | 1.27 | 87       | 90  | 0.84 | 1.68 |
|              | 9.0 | 8.997 | 161       | 80  | 1.38 | 1.49 | 107      | 87  | 0.99 | 1.71 | 322       | 67  | 2.31 | 1.29 | 81       | 90  | 0.77 | 1.77 |
|              | 11. | 11.36 | 128       | 84  | 1.15 | 1.59 | 85       | 90  | 0.81 | 1.81 | 255       | 74  | 2.02 | 1.35 | 64       | 90  | 0.61 | 1.84 |
|              | 12. | 12.88 | 113       | 87  | 1.05 | 1.68 | 75       | 90  | 0.72 | 1.83 | 225       | 77  | 1.85 | 1.39 | 56       | 90  | 0.54 | 1.90 |
|              | 14. | 14.71 | 99        | 90  | 0.95 | 1.77 | 65       | 90  | 0.63 | 1.85 | 197       | 80  | 1.69 | 1.43 | 49       | 90  | 0.47 | 1.90 |
|              | 16. | 16.37 | 89        | 90  | 0.85 | 1.84 | 59       | 90  | 0.56 | 1.90 | 177       | 81  | 1.53 | 1.46 | 44       | 90  | 0.43 | 1.90 |
|              | 18. | 18.05 | 80        | 90  | 0.77 | 1.90 | 53       | 90  | 0.51 | 1.90 | 161       | 83  | 1.42 | 1.49 | 40       | 90  | 0.39 | 1.90 |
|              | 20. | 19.86 | 73        | 90  | 0.70 | 1.90 | 48       | 90  | 0.46 | 1.90 | 146       | 84  | 1.31 | 1.53 | 37       | 90  | 0.35 | 1.90 |
|              | 22. | 23.27 | 62        | 90  | 0.60 | 1.90 | 41       | 90  | 0.40 | 1.90 | 125       | 86  | 1.15 | 1.61 | 31       | 90  | 0.30 | 1.90 |
|              | 28. | 27.92 | 52        | 90  | 0.50 | 1.90 | 34       | 90  | 0.33 | 1.90 | 104       | 90  | 1.00 | 1.73 | 26       | 90  | 0.25 | 1.90 |
|              | 32. | 32.54 | 45        | 90  | 0.43 | 1.90 | 30       | 90  | 0.28 | 1.90 | 89        | 90  | 0.86 | 1.84 | 22       | 90  | 0.21 | 1.90 |
|              | 36. | 36.16 | 40        | 90  | 0.39 | 1.90 | 27       | 90  | 0.26 | 1.90 | 80        | 90  | 0.77 | 1.87 | 20       | 90  | 0.19 | 1.90 |
|              | 45. | 43.54 | 33        | 84  | 0.30 | 1.90 | 22       | 84  | 0.20 | 1.90 | 67        | 84  | 0.60 | 1.90 | 17       | 84  | 0.15 | 1.90 |
|              | 50. | 49.91 | 29        | 72  | 0.22 | 1.90 | 19       | 72  | 0.15 | 1.90 | 58        | 72  | 0.45 | 1.90 | 15       | 72  | 0.11 | 1.90 |
|              | 56. | 56.72 | 26        | 71  | 0.19 | 1.90 | 17       | 71  | 0.13 | 1.90 | 51        | 71  | 0.39 | 1.90 | 13       | 71  | 0.10 | 1.90 |
| <b>M0132</b> | 56. | 58.46 | 25        | 90  | 0.24 | 1.90 | 16       | 90  | 0.16 | 1.90 | 50        | 90  | 0.48 | 1.90 | 12       | 90  | 0.12 | 1.90 |
|              | 63. | 64.45 | 22        | 90  | 0.22 | 1.90 | 15       | 90  | 0.14 | 1.90 | 45        | 90  | 0.44 | 1.90 | 11       | 90  | 0.11 | 1.90 |
|              | 71. | 70.93 | 20        | 90  | 0.20 | 1.90 | 14       | 90  | 0.13 | 1.90 | 41        | 90  | 0.40 | 1.90 | 10       | 90  | 0.10 | 1.90 |
|              | 80. | 83.10 | 17        | 90  | 0.17 | 1.90 | 12       | 90  | 0.11 | 1.90 | 35        | 90  | 0.34 | 1.90 | 8.7      | 90  | 0.08 | 1.90 |
|              | 100 | 99.70 | 15        | 90  | 0.14 | 1.90 | 10       | 90  | 0.09 | 1.90 | 29        | 90  | 0.28 | 1.90 | 7.3      | 90  | 0.07 | 1.90 |
|              | 112 | 116.2 | 12        | 90  | 0.12 | 1.90 | 8.3      | 90  | 0.08 | 1.90 | 25        | 90  | 0.24 | 1.90 | 6.2      | 90  | 0.06 | 1.90 |
|              | 125 | 129.1 | 11        | 90  | 0.11 | 1.90 | 7.4      | 90  | 0.07 | 1.90 | 22        | 90  | 0.22 | 1.90 | 5.6      | 90  | 0.05 | 1.90 |
|              | 160 | 155.5 | 9.3       | 90  | 0.09 | 1.90 | 6.2      | 90  | 0.06 | 1.90 | 19        | 90  | 0.18 | 1.90 | 4.7      | 90  | 0.05 | 1.90 |
|              | 180 | 178.2 | 8.1       | 90  | 0.08 | 1.90 | 5.4      | 90  | 0.05 | 1.90 | 16        | 90  | 0.16 | 1.90 | 4.1      | 90  | 0.04 | 1.90 |
|              | 200 | 202.6 | 7.2       | 90  | 0.07 | 1.90 | 4.7      | 90  | 0.05 | 1.90 | 14        | 90  | 0.14 | 1.90 | 3.6      | 90  | 0.03 | 1.90 |
| <b>M0222</b> | 3.6 | 3.589 | 404       | 100 | 4.32 | 3.16 | 267      | 115 | 3.29 | 3.19 | 808       | 79  | 6.82 | 2.81 | 202      | 126 | 2.72 | 3.35 |
|              | 5.0 | 5.034 | 288       | 116 | 3.57 | 3.08 | 191      | 131 | 2.67 | 3.11 | 576       | 92  | 5.66 | 3.12 | 144      | 137 | 2.11 | 3.25 |
|              | 5.6 | 5.547 | 261       | 121 | 3.38 | 3.06 | 173      | 134 | 2.48 | 3.08 | 523       | 96  | 5.36 | 3.09 | 131      | 140 | 1.96 | 3.29 |
|              | 6.3 | 6.299 | 230       | 127 | 3.12 | 3.03 | 152      | 138 | 2.25 | 3.13 | 460       | 101 | 4.97 | 3.04 | 115      | 145 | 1.78 | 3.39 |
|              | 8.0 | 8.000 | 181       | 136 | 2.63 | 2.98 | 120      | 145 | 1.86 | 3.26 | 363       | 111 | 4.30 | 2.95 | 91       | 154 | 1.49 | 3.70 |
|              | 9.0 | 9.088 | 160       | 140 | 2.39 | 3.02 | 106      | 150 | 1.69 | 3.45 | 319       | 116 | 3.96 | 2.95 | 80       | 159 | 1.36 | 3.96 |
|              | 11. | 11.15 | 130       | 145 | 2.01 | 3.15 | 86       | 158 | 1.45 | 3.77 | 260       | 125 | 3.47 | 2.94 | 65       | 160 | 1.11 | 4.00 |
|              | 12. | 12.37 | 117       | 148 | 1.85 | 3.23 | 78       | 160 | 1.33 | 4.00 | 234       | 130 | 3.26 | 2.92 | 59       | 160 | 1.00 | 4.00 |
|              | 14. | 14.05 | 103       | 153 | 1.69 | 3.42 | 68       | 160 | 1.17 | 4.00 | 206       | 136 | 3.00 | 2.91 | 52       | 160 | 0.88 | 4.00 |
|              | 16. | 15.97 | 91        | 160 | 1.55 | 3.63 | 60       | 160 | 1.03 | 4.00 | 182       | 141 | 2.74 | 2.83 | 45       | 160 | 0.78 | 4.00 |
|              | 18. | 17.58 | 82        | 160 | 1.41 | 3.88 | 55       | 160 | 0.93 | 4.00 | 165       | 142 | 2.50 | 2.91 | 41       | 160 | 0.71 | 4.00 |
|              | 20. | 20.23 | 72        | 160 | 1.23 | 4.00 | 47       | 160 | 0.81 | 4.00 | 143       | 145 | 2.22 | 3.00 | 36       | 160 | 0.61 | 4.00 |
|              | 22. | 21.99 | 66        | 160 | 1.13 | 4.00 | 44       | 160 | 0.75 | 4.00 | 132       | 147 | 2.07 | 3.05 | 33       | 160 | 0.56 | 4.00 |
|              | 28. | 26.40 | 55        | 160 | 0.94 | 4.00 | 36       | 160 | 0.62 | 4.00 | 110       | 153 | 1.80 | 3.26 | 27       | 160 | 0.47 | 4.00 |
|              | 32. | 31.68 | 46        | 160 | 0.78 | 4.00 | 30       | 160 | 0.52 | 4.00 | 92        | 160 | 1.56 | 3.61 | 23       | 160 | 0.39 | 4.00 |
|              | 36. | 35.69 | 41        | 160 | 0.69 | 4.00 | 27       | 160 | 0.46 | 4.00 | 81        | 160 | 1.39 | 3.92 | 20       | 160 | 0.35 | 4.00 |
|              | 45. | 41.49 | 35        | 160 | 0.60 | 4.00 | 23       | 160 | 0.40 | 4.00 | 70        | 160 | 1.19 | 4.00 | 17       | 160 | 0.30 | 4.00 |
|              | 50. | 47.09 | 31        | 160 | 0.53 | 4.00 | 20       | 160 | 0.35 | 4.00 | 62        | 160 | 1.05 | 4.00 | 15       | 160 | 0.26 | 4.00 |
|              | 56. | 53.54 | 27        | 160 | 0.46 | 4.00 | 18       | 160 | 0.31 | 4.00 | 54        | 160 | 0.93 | 4.00 | 14       | 160 | 0.23 | 4.00 |
| <b>M0232</b> | 56. | 57.03 | 25        | 160 | 0.44 | 4.00 | 17       | 160 | 0.29 | 4.00 | 51        | 160 | 0.88 | 4.00 | 13       | 160 | 0.22 | 4.00 |
|              | 63. | 62.87 | 23        | 160 | 0.40 | 4.00 | 15       | 160 | 0.26 | 4.00 | 46        | 160 | 0.80 | 4.00 | 12       | 160 | 0.20 | 4.00 |
|              | 71. | 69.19 | 21        | 160 | 0.36 | 4.00 | 14       | 160 | 0.24 | 4.00 | 42        | 160 | 0.72 | 4.00 | 10       | 160 | 0.18 | 4.00 |
|              | 80. | 81.07 | 18        | 160 | 0.31 | 4.00 | 12       | 160 | 0.20 | 4.00 | 36        | 160 | 0.62 | 4.00 | 8.9      | 160 | 0.15 | 4.00 |
|              | 100 | 97.26 | 15        | 160 | 0.26 | 4.00 | 10       | 160 | 0.17 | 4.00 | 30        | 160 | 0.52 | 4.00 | 7.5      | 160 | 0.13 | 4.00 |
|              | 112 | 113.4 | 13        | 160 | 0.22 | 4.00 | 8.5      | 160 | 0.15 | 4.00 | 26        | 160 | 0.44 | 4.00 | 6.4      | 160 | 0.11 | 4.00 |
|              | 125 | 126.0 | 12        | 160 | 0.20 | 4.00 | 7.6      | 160 | 0.13 | 4.00 | 23        | 160 | 0.40 | 4.00 | 5.8      | 160 | 0.10 | 4.00 |
|              | 160 | 151.7 | 10        | 160 | 0.17 | 4.00 | 6.3      | 160 | 0.11 | 4.00 | 19        | 160 | 0.33 | 4.00 | 4.8      | 160 | 0.08 | 4.00 |
|              | 180 | 173.9 | 8.3       | 160 | 0.14 | 4.00 | 5.5      | 160 | 0.10 | 4.00 | 17        | 160 | 0.29 | 4.00 | 4.2      | 160 | 0.07 | 4.00 |
|              | 200 | 197.6 | 7.3       | 160 | 0.13 | 4.00 | 4.9      | 160 | 0.08 | 4.00 | 15        | 160 | 0.25 | 4.00 | 3.7      | 160 | 0.06 | 4.00 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |     |       |      | n1 = 960 |     |       |      | n1 = 2900 |     |       |      | n1 = 725 |     |       |      |
|-------|-----|-------|-----------|-----|-------|------|----------|-----|-------|------|-----------|-----|-------|------|----------|-----|-------|------|
|       | in  | i     | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  |
| M0322 | 3.6 | 3.589 | 404       | 118 | 5.09  | 2.64 | 267      | 134 | 3.83  | 2.64 | 808       | 96  | 8.29  | 2.49 | 202      | 146 | 3.15  | 2.65 |
|       | 5.0 | 5.034 | 288       | 135 | 4.15  | 2.51 | 191      | 153 | 3.12  | 2.52 | 576       | 110 | 6.77  | 2.59 | 144      | 167 | 2.57  | 2.51 |
|       | 5.6 | 5.547 | 261       | 140 | 3.91  | 2.49 | 173      | 159 | 2.94  | 2.48 | 523       | 114 | 6.37  | 2.55 | 131      | 173 | 2.42  | 2.46 |
|       | 6.3 | 6.299 | 230       | 147 | 3.62  | 2.44 | 152      | 167 | 2.72  | 2.43 | 460       | 120 | 5.90  | 2.49 | 115      | 182 | 2.24  | 2.46 |
|       | 8.0 | 8.000 | 181       | 161 | 3.12  | 2.37 | 120      | 182 | 2.33  | 2.39 | 363       | 130 | 5.04  | 2.38 | 91       | 196 | 1.90  | 2.83 |
|       | 9.0 | 9.088 | 160       | 168 | 2.86  | 2.34 | 106      | 190 | 2.14  | 2.59 | 319       | 136 | 4.64  | 2.37 | 80       | 207 | 1.76  | 3.04 |
|       | 11. | 11.15 | 130       | 179 | 2.49  | 2.34 | 86       | 203 | 1.87  | 2.91 | 260       | 146 | 4.06  | 2.34 | 65       | 210 | 1.46  | 3.34 |
|       | 12. | 12.37 | 117       | 186 | 2.33  | 2.43 | 78       | 209 | 1.73  | 3.09 | 234       | 151 | 3.78  | 2.32 | 59       | 210 | 1.32  | 3.24 |
|       | 14. | 14.05 | 103       | 194 | 2.14  | 2.62 | 68       | 210 | 1.53  | 3.31 | 206       | 158 | 3.48  | 2.29 | 52       | 210 | 1.16  | 3.14 |
|       | 16. | 15.97 | 91        | 205 | 1.99  | 2.83 | 60       | 210 | 1.35  | 3.28 | 182       | 166 | 3.22  | 2.20 | 45       | 210 | 1.02  | 3.03 |
|       | 18. | 17.58 | 82        | 208 | 1.83  | 2.98 | 55       | 210 | 1.23  | 3.18 | 165       | 169 | 2.98  | 2.25 | 41       | 210 | 0.93  | 3.03 |
|       | 20. | 20.23 | 72        | 210 | 1.61  | 3.22 | 47       | 210 | 1.06  | 3.05 | 143       | 175 | 2.68  | 2.28 | 36       | 210 | 0.80  | 3.03 |
|       | 22. | 21.99 | 66        | 210 | 1.48  | 3.35 | 44       | 210 | 0.98  | 3.03 | 132       | 182 | 2.56  | 2.33 | 33       | 210 | 0.74  | 3.03 |
|       | 28. | 26.40 | 55        | 210 | 1.23  | 3.19 | 36       | 210 | 0.82  | 3.03 | 110       | 193 | 2.27  | 2.52 | 27       | 210 | 0.62  | 3.03 |
|       | 32. | 31.68 | 46        | 210 | 1.03  | 3.03 | 30       | 210 | 0.68  | 3.03 | 92        | 205 | 2.01  | 2.81 | 23       | 210 | 0.51  | 3.03 |
|       | 36. | 35.69 | 41        | 210 | 0.91  | 3.06 | 27       | 210 | 0.60  | 3.03 | 81        | 209 | 1.81  | 3.01 | 20       | 210 | 0.46  | 3.03 |
|       | 45. | 41.49 | 35        | 200 | 0.75  | 3.64 | 23       | 206 | 0.51  | 3.64 | 70        | 188 | 1.40  | 3.20 | 17       | 210 | 0.39  | 3.64 |
|       | 50. | 47.09 | 31        | 203 | 0.67  | 4.00 | 20       | 208 | 0.45  | 4.00 | 62        | 192 | 1.26  | 4.00 | 15       | 208 | 0.34  | 4.00 |
|       | 56. | 53.54 | 27        | 206 | 0.60  | 4.00 | 18       | 206 | 0.39  | 4.00 | 54        | 205 | 1.19  | 4.00 | 14       | 210 | 0.30  | 4.00 |
| M0332 | 56. | 57.03 | 25        | 210 | 0.58  | 4.00 | 17       | 210 | 0.38  | 4.00 | 51        | 210 | 1.15  | 4.00 | 13       | 210 | 0.29  | 4.00 |
|       | 63. | 62.87 | 23        | 210 | 0.52  | 4.00 | 15       | 210 | 0.35  | 4.00 | 46        | 210 | 1.05  | 4.00 | 12       | 210 | 0.26  | 4.00 |
|       | 71. | 69.19 | 21        | 210 | 0.48  | 4.00 | 14       | 210 | 0.31  | 4.00 | 42        | 210 | 0.95  | 4.00 | 10       | 210 | 0.24  | 4.00 |
|       | 80. | 81.07 | 18        | 210 | 0.41  | 4.00 | 12       | 210 | 0.27  | 4.00 | 36        | 210 | 0.81  | 4.00 | 8.9      | 210 | 0.20  | 4.00 |
|       | 100 | 97.26 | 15        | 210 | 0.34  | 4.00 | 10       | 210 | 0.22  | 4.00 | 30        | 210 | 0.68  | 4.00 | 7.5      | 210 | 0.17  | 4.00 |
|       | 112 | 113.4 | 13        | 210 | 0.29  | 4.00 | 8.5      | 210 | 0.19  | 4.00 | 26        | 210 | 0.58  | 4.00 | 6.4      | 210 | 0.14  | 4.00 |
|       | 125 | 126.0 | 12        | 210 | 0.26  | 4.00 | 7.6      | 210 | 0.17  | 4.00 | 23        | 210 | 0.52  | 4.00 | 5.8      | 210 | 0.13  | 4.00 |
|       | 160 | 151.7 | 10        | 210 | 0.22  | 4.00 | 6.3      | 210 | 0.14  | 4.00 | 19        | 210 | 0.43  | 4.00 | 4.8      | 210 | 0.11  | 4.00 |
|       | 180 | 173.9 | 8.3       | 210 | 0.19  | 4.00 | 5.5      | 210 | 0.13  | 4.00 | 17        | 210 | 0.38  | 4.00 | 4.2      | 210 | 0.09  | 4.00 |
|       | 200 | 197.6 | 7.3       | 210 | 0.17  | 4.00 | 4.9      | 210 | 0.11  | 4.00 | 15        | 210 | 0.33  | 4.00 | 3.7      | 210 | 0.08  | 4.00 |
| M0342 | 225 | 235.0 | 6.2       | 210 | 0.144 | 4.00 | 4.1      | 210 | 0.095 | 4.00 | 12        | 210 | 0.287 | 4.00 | 3.1      | 210 | 0.072 | 4.00 |
|       | 250 | 261.4 | 5.5       | 210 | 0.129 | 4.00 | 3.7      | 210 | 0.085 | 4.00 | 11        | 210 | 0.258 | 4.00 | 2.8      | 210 | 0.065 | 4.00 |
|       | 280 | 287.8 | 5.0       | 210 | 0.117 | 4.00 | 3.3      | 210 | 0.078 | 4.00 | 10        | 210 | 0.234 | 4.00 | 2.5      | 210 | 0.059 | 4.00 |
|       | 300 | 317.3 | 4.6       | 210 | 0.106 | 4.00 | 3.0      | 210 | 0.070 | 4.00 | 9.1       | 210 | 0.213 | 4.00 | 2.3      | 210 | 0.053 | 4.00 |
|       | 360 | 365.0 | 4.0       | 210 | 0.092 | 4.00 | 2.6      | 210 | 0.061 | 4.00 | 7.9       | 210 | 0.185 | 4.00 | 2.0      | 210 | 0.046 | 4.00 |
|       | 400 | 401.7 | 3.6       | 210 | 0.084 | 4.00 | 2.4      | 210 | 0.056 | 4.00 | 7.2       | 210 | 0.168 | 4.00 | 1.8      | 210 | 0.042 | 4.00 |
|       | 450 | 436.7 | 3.3       | 210 | 0.077 | 4.00 | 2.2      | 210 | 0.051 | 4.00 | 6.6       | 210 | 0.155 | 4.00 | 1.7      | 210 | 0.039 | 4.00 |
|       | 500 | 511.7 | 2.8       | 210 | 0.066 | 4.00 | 1.9      | 210 | 0.044 | 4.00 | 5.7       | 210 | 0.132 | 4.00 | 1.4      | 210 | 0.033 | 4.00 |
|       | 650 | 614.2 | 2.4       | 210 | 0.055 | 4.00 | 1.6      | 210 | 0.036 | 4.00 | 4.7       | 210 | 0.110 | 4.00 | 1.2      | 210 | 0.027 | 4.00 |
|       | 730 | 736.9 | 2.0       | 210 | 0.046 | 4.00 | 1.3      | 210 | 0.030 | 4.00 | 3.9       | 210 | 0.092 | 4.00 | 0.98     | 210 | 0.023 | 4.00 |
|       | 860 | 884.3 | 1.6       | 210 | 0.038 | 4.00 | 1.1      | 210 | 0.025 | 4.00 | 3.3       | 210 | 0.076 | 4.00 | 0.82     | 210 | 0.019 | 4.00 |
|       | 10C | 1031  | 1.4       | 210 | 0.033 | 4.00 | 0.93     | 210 | 0.022 | 4.00 | 2.8       | 210 | 0.065 | 4.00 | 0.70     | 210 | 0.016 | 4.00 |
|       | 11C | 1161  | 1.2       | 210 | 0.029 | 4.00 | 0.83     | 210 | 0.019 | 4.00 | 2.5       | 210 | 0.058 | 4.00 | 0.62     | 210 | 0.015 | 4.00 |
|       | 13C | 1291  | 1.1       | 210 | 0.026 | 4.00 | 0.74     | 210 | 0.017 | 4.00 | 2.2       | 210 | 0.052 | 4.00 | 0.56     | 210 | 0.013 | 4.00 |
|       | 15C | 1500  | 0.97      | 210 | 0.022 | 4.00 | 0.64     | 210 | 0.015 | 4.00 | 1.9       | 210 | 0.045 | 4.00 | 0.48     | 210 | 0.011 | 4.00 |
|       | 18C | 1807  | 0.80      | 210 | 0.019 | 4.00 | 0.53     | 210 | 0.012 | 4.00 | 1.6       | 210 | 0.037 | 4.00 | 0.40     | 210 | 0.009 | 4.00 |
|       | 20C | 2051  | 0.71      | 210 | 0.016 | 4.00 | 0.47     | 210 | 0.011 | 4.00 | 1.4       | 210 | 0.033 | 4.00 | 0.35     | 210 | 0.008 | 4.00 |
|       | 24C | 2350  | 0.62      | 210 | 0.014 | 4.00 | 0.41     | 210 | 0.010 | 4.00 | 1.2       | 210 | 0.029 | 4.00 | 0.31     | 210 | 0.007 | 4.00 |
|       | 27C | 2671  | 0.54      | 210 | 0.013 | 4.00 | 0.36     | 210 | 0.008 | 4.00 | 1.1       | 210 | 0.025 | 4.00 | 0.27     | 210 | 0.006 | 4.00 |
| M0352 | 27C | 2632  | 0.55      | 210 | 0.013 | 4.00 | 0.36     | 210 | 0.009 | 4.00 | 1.1       | 210 | 0.026 | 4.00 | 0.28     | 210 | 0.006 | 4.00 |
|       | 32C | 3068  | 0.47      | 210 | 0.011 | 4.00 | 0.31     | 210 | 0.007 | 4.00 | 0.95      | 210 | 0.022 | 4.00 | 0.24     | 210 | 0.006 | 4.00 |
|       | 36C | 3681  | 0.39      | 210 | 0.009 | 4.00 | 0.26     | 210 | 0.006 | 4.00 | 0.79      | 210 | 0.018 | 4.00 | 0.20     | 210 | 0.005 | 4.00 |
|       | 40C | 4091  | 0.35      | 210 | 0.008 | 4.00 | 0.23     | 210 | 0.005 | 4.00 | 0.71      | 210 | 0.017 | 4.00 | 0.18     | 210 | 0.004 | 4.00 |
|       | 46C | 4609  | 0.31      | 210 | 0.007 | 4.00 | 0.21     | 210 | 0.005 | 4.00 | 0.63      | 210 | 0.015 | 4.00 | 0.16     | 210 | 0.004 | 4.00 |
|       | 55C | 5550  | 0.26      | 210 | 0.006 | 4.00 | 0.17     | 210 | 0.004 | 4.00 | 0.52      | 210 | 0.012 | 4.00 | 0.13     | 210 | 0.003 | 4.00 |
|       | 65C | 6452  | 0.22      | 210 | 0.005 | 4.00 | 0.15     | 210 | 0.003 | 4.00 | 0.45      | 210 | 0.011 | 4.00 | 0.11     | 210 | 0.003 | 4.00 |
|       | 74C | 7396  | 0.20      | 210 | 0.005 | 4.00 | 0.13     | 210 | 0.003 | 4.00 | 0.39      | 210 | 0.009 | 4.00 | 0.098    | 210 | 0.002 | 4.00 |
|       | 84C | 8394  | 0.17      | 210 | 0.004 | 4.00 | 0.11     | 210 | 0.003 | 4.00 | 0.35      | 210 | 0.008 | 4.00 | 0.086    | 210 | 0.002 | 4.00 |
|       | 95C | 9540  | 0.15      | 210 | 0.004 | 4.00 | 0.10     | 210 | 0.002 | 4.00 | 0.30      | 210 | 0.007 | 4.00 | 0.076    | 210 | 0.002 | 4.00 |
|       | 10K | 10845 | 0.13      | 210 | 0.003 | 4.00 | 0.089    | 210 | 0.002 | 4.00 | 0.27      | 210 | 0.006 | 4.00 | 0.067    | 210 | 0.002 | 4.00 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |     |       |      | n1 = 960 |     |       |      | n1 = 2900 |     |       |      | n1 = 725 |     |       |      |
|-------|-----|-------|-----------|-----|-------|------|----------|-----|-------|------|-----------|-----|-------|------|----------|-----|-------|------|
|       | in  | i     | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  |
| M0422 | 3.6 | 3.585 | 404       | 203 | 8.77  | 4.72 | 268      | 233 | 6.67  | 4.95 | 809       | 161 | 13.92 | 3.54 | 202      | 256 | 5.53  | 4.73 |
|       | 5.0 | 5.040 | 288       | 237 | 7.29  | 4.84 | 190      | 272 | 5.54  | 5.19 | 575       | 188 | 11.56 | 3.92 | 144      | 290 | 4.46  | 4.98 |
|       | 5.6 | 5.649 | 257       | 249 | 6.83  | 4.90 | 170      | 286 | 5.19  | 5.28 | 513       | 198 | 10.86 | 4.06 | 128      | 298 | 4.09  | 5.11 |
|       | 6.3 | 6.341 | 229       | 262 | 6.40  | 5.00 | 151      | 294 | 4.76  | 5.30 | 457       | 208 | 10.16 | 4.16 | 114      | 307 | 3.75  | 5.25 |
|       | 8.0 | 8.053 | 180       | 289 | 5.56  | 5.18 | 119      | 310 | 3.95  | 5.69 | 360       | 229 | 8.81  | 4.25 | 90       | 326 | 3.14  | 5.59 |
|       | 9.0 | 9.129 | 159       | 299 | 5.07  | 5.11 | 105      | 319 | 3.58  | 5.89 | 318       | 241 | 8.18  | 4.29 | 79       | 340 | 2.89  | 5.87 |
|       | 11. | 10.89 | 133       | 311 | 4.42  | 5.45 | 88       | 333 | 3.14  | 6.25 | 266       | 258 | 7.34  | 4.37 | 67       | 340 | 2.42  | 6.27 |
|       | 12. | 12.54 | 116       | 320 | 3.95  | 5.74 | 77       | 338 | 2.76  | 6.63 | 231       | 272 | 6.72  | 4.47 | 58       | 340 | 2.10  | 6.62 |
|       | 14. | 14.58 | 99        | 329 | 3.50  | 5.98 | 66       | 340 | 2.39  | 7.07 | 199       | 288 | 6.12  | 4.62 | 50       | 340 | 1.81  | 7.05 |
|       | 16. | 16.31 | 89        | 338 | 3.21  | 6.23 | 59       | 340 | 2.14  | 7.13 | 178       | 304 | 5.78  | 4.72 | 44       | 340 | 1.61  | 7.13 |
|       | 18. | 17.39 | 83        | 340 | 3.03  | 6.40 | 55       | 340 | 2.01  | 7.13 | 167       | 306 | 5.45  | 4.81 | 42       | 340 | 1.51  | 7.13 |
|       | 20. | 20.61 | 70        | 340 | 2.56  | 6.87 | 47       | 340 | 1.69  | 7.13 | 141       | 315 | 4.74  | 5.01 | 35       | 340 | 1.28  | 7.13 |
|       | 22. | 22.00 | 66        | 340 | 2.39  | 7.06 | 44       | 340 | 1.59  | 7.13 | 132       | 319 | 4.49  | 5.08 | 33       | 340 | 1.20  | 7.13 |
|       | 28. | 27.30 | 53        | 340 | 1.93  | 7.13 | 35       | 340 | 1.28  | 7.13 | 106       | 331 | 3.76  | 5.34 | 27       | 340 | 0.96  | 7.13 |
|       | 32. | 32.19 | 45        | 340 | 1.64  | 7.13 | 30       | 340 | 1.08  | 7.13 | 90        | 338 | 3.25  | 5.59 | 23       | 340 | 0.82  | 7.13 |
|       | 36. | 35.25 | 41        | 340 | 1.49  | 7.13 | 27       | 340 | 0.99  | 7.13 | 82        | 340 | 2.99  | 5.79 | 21       | 340 | 0.75  | 7.13 |
|       | 45. | 43.20 | 34        | 340 | 1.22  | 7.13 | 22       | 340 | 0.81  | 7.13 | 67        | 340 | 2.44  | 6.26 | 17       | 340 | 0.61  | 7.13 |
|       | 50. | 48.15 | 30        | 340 | 1.09  | 7.13 | 20       | 340 | 0.72  | 7.13 | 60        | 340 | 2.19  | 6.52 | 15       | 340 | 0.55  | 7.13 |
|       | 56. | 54.00 | 27        | 270 | 0.77  | 7.20 | 18       | 270 | 0.51  | 7.20 | 54        | 270 | 1.55  | 7.18 | 13       | 270 | 0.39  | 7.20 |
| M0432 | 56. | 58.38 | 25        | 340 | 0.91  | 7.20 | 16       | 340 | 0.60  | 7.20 | 50        | 340 | 1.82  | 6.69 | 12       | 340 | 0.46  | 7.20 |
|       | 63. | 64.29 | 23        | 340 | 0.83  | 7.20 | 15       | 340 | 0.55  | 7.20 | 45        | 340 | 1.66  | 6.92 | 11       | 340 | 0.41  | 7.20 |
|       | 71. | 73.95 | 20        | 340 | 0.72  | 7.20 | 13       | 340 | 0.48  | 7.20 | 39        | 340 | 1.44  | 7.20 | 9.8      | 340 | 0.36  | 7.20 |
|       | 80. | 80.4  | 18        | 340 | 0.66  | 7.20 | 12       | 340 | 0.44  | 7.20 | 36        | 340 | 1.32  | 7.20 | 9.0      | 340 | 0.33  | 7.20 |
|       | 100 | 96.52 | 15        | 340 | 0.55  | 7.20 | 10       | 340 | 0.37  | 7.20 | 30        | 340 | 1.10  | 7.20 | 7.5      | 340 | 0.28  | 7.20 |
|       | 112 | 115.8 | 13        | 340 | 0.46  | 7.20 | 8.3      | 340 | 0.30  | 7.20 | 25        | 340 | 0.92  | 7.20 | 6.3      | 340 | 0.23  | 7.20 |
|       | 125 | 130.5 | 11        | 340 | 0.41  | 7.20 | 7.4      | 340 | 0.27  | 7.20 | 22        | 340 | 0.82  | 7.20 | 5.6      | 340 | 0.20  | 7.20 |
|       | 160 | 151.7 | 10        | 340 | 0.35  | 7.20 | 6.3      | 340 | 0.23  | 7.20 | 19        | 340 | 0.70  | 7.20 | 4.8      | 340 | 0.18  | 7.20 |
|       | 180 | 172.2 | 8.4       | 340 | 0.31  | 7.20 | 5.6      | 340 | 0.20  | 7.20 | 17        | 340 | 0.62  | 7.20 | 4.2      | 340 | 0.15  | 7.20 |
|       | 200 | 195.8 | 7.4       | 340 | 0.27  | 7.20 | 4.9      | 340 | 0.18  | 7.20 | 15        | 340 | 0.54  | 7.20 | 3.7      | 340 | 0.14  | 7.20 |
| M0442 | 225 | 232.8 | 6.2       | 340 | 0.23  | 7.20 | 4.1      | 340 | 0.16  | 7.20 | 12        | 340 | 0.47  | 7.20 | 3.1      | 340 | 0.12  | 7.20 |
|       | 250 | 260.5 | 5.6       | 340 | 0.21  | 7.20 | 3.7      | 340 | 0.14  | 7.20 | 11        | 340 | 0.42  | 7.20 | 2.8      | 340 | 0.10  | 7.20 |
|       | 280 | 277.6 | 5.2       | 340 | 0.20  | 7.20 | 3.5      | 340 | 0.13  | 7.20 | 10        | 340 | 0.39  | 7.20 | 2.6      | 340 | 0.098 | 7.20 |
|       | 300 | 305.7 | 4.7       | 340 | 0.18  | 7.20 | 3.1      | 340 | 0.12  | 7.20 | 9.5       | 340 | 0.36  | 7.20 | 2.4      | 340 | 0.089 | 7.20 |
|       | 360 | 362.3 | 4.0       | 340 | 0.15  | 7.20 | 2.6      | 340 | 0.10  | 7.20 | 8.0       | 340 | 0.30  | 7.20 | 2.0      | 340 | 0.075 | 7.20 |
|       | 400 | 416.8 | 3.5       | 340 | 0.13  | 7.20 | 2.3      | 340 | 0.087 | 7.20 | 7.0       | 340 | 0.26  | 7.20 | 1.7      | 340 | 0.066 | 7.20 |
|       | 450 | 445.0 | 3.3       | 340 | 0.12  | 7.20 | 2.2      | 340 | 0.081 | 7.20 | 6.5       | 340 | 0.25  | 7.20 | 1.6      | 340 | 0.061 | 7.20 |
|       | 500 | 483.8 | 3.0       | 340 | 0.11  | 7.20 | 2.0      | 340 | 0.075 | 7.20 | 6.0       | 340 | 0.23  | 7.20 | 1.5      | 340 | 0.056 | 7.20 |
|       | 650 | 600.3 | 2.4       | 340 | 0.091 | 7.20 | 1.6      | 340 | 0.060 | 7.20 | 4.8       | 340 | 0.18  | 7.20 | 1.2      | 340 | 0.046 | 7.20 |
|       | 730 | 720.7 | 2.0       | 340 | 0.076 | 7.20 | 1.3      | 340 | 0.050 | 7.20 | 4.0       | 340 | 0.15  | 7.20 | 1.0      | 340 | 0.038 | 7.20 |
|       | 860 | 849.8 | 1.7       | 340 | 0.064 | 7.20 | 1.1      | 340 | 0.043 | 7.20 | 3.4       | 340 | 0.13  | 7.20 | 0.85     | 340 | 0.032 | 7.20 |
|       | 10C | 1020  | 1.4       | 340 | 0.054 | 7.20 | 0.94     | 340 | 0.035 | 7.20 | 2.8       | 340 | 0.11  | 7.20 | 0.71     | 340 | 0.027 | 7.20 |
|       | 11C | 1117  | 1.3       | 340 | 0.049 | 7.20 | 0.86     | 340 | 0.032 | 7.20 | 2.6       | 340 | 0.098 | 7.20 | 0.65     | 340 | 0.024 | 7.20 |
|       | 13C | 1258  | 1.2       | 340 | 0.043 | 7.20 | 0.76     | 340 | 0.029 | 7.20 | 2.3       | 340 | 0.087 | 7.20 | 0.58     | 340 | 0.022 | 7.20 |
|       | 15C | 1542  | 0.94      | 340 | 0.035 | 7.20 | 0.62     | 340 | 0.023 | 7.20 | 1.9       | 340 | 0.071 | 7.20 | 0.47     | 340 | 0.018 | 7.20 |
|       | 18C | 1792  | 0.81      | 340 | 0.030 | 7.20 | 0.54     | 340 | 0.020 | 7.20 | 1.6       | 340 | 0.061 | 7.20 | 0.40     | 340 | 0.015 | 7.20 |
|       | 20C | 1998  | 0.73      | 340 | 0.027 | 7.20 | 0.48     | 340 | 0.018 | 7.20 | 1.5       | 340 | 0.055 | 7.20 | 0.36     | 340 | 0.014 | 7.20 |
|       | 24C | 2268  | 0.64      | 340 | 0.024 | 7.20 | 0.42     | 340 | 0.016 | 7.20 | 1.3       | 340 | 0.048 | 7.20 | 0.32     | 340 | 0.012 | 7.20 |
|       | 27C | 2578  | 0.56      | 340 | 0.021 | 7.20 | 0.37     | 340 | 0.014 | 7.20 | 1.1       | 340 | 0.042 | 7.20 | 0.28     | 340 | 0.011 | 7.20 |
| M0452 | 27C | 2655  | 0.55      | 340 | 0.021 | 7.20 | 0.36     | 340 | 0.014 | 7.20 | 1.1       | 340 | 0.041 | 7.20 | 0.27     | 340 | 0.010 | 7.20 |
|       | 32C | 3095  | 0.47      | 340 | 0.018 | 7.20 | 0.31     | 340 | 0.012 | 7.20 | 0.94      | 340 | 0.035 | 7.20 | 0.23     | 340 | 0.009 | 7.20 |
|       | 36C | 3650  | 0.40      | 340 | 0.015 | 7.20 | 0.26     | 340 | 0.010 | 7.20 | 0.79      | 340 | 0.030 | 7.20 | 0.20     | 340 | 0.008 | 7.20 |
|       | 40C | 4055  | 0.36      | 340 | 0.014 | 7.20 | 0.24     | 340 | 0.009 | 7.20 | 0.72      | 340 | 0.027 | 7.20 | 0.18     | 340 | 0.007 | 7.20 |
|       | 46C | 4440  | 0.33      | 340 | 0.012 | 7.20 | 0.22     | 340 | 0.008 | 7.20 | 0.65      | 340 | 0.025 | 7.20 | 0.16     | 340 | 0.006 | 7.20 |
|       | 55C | 5347  | 0.27      | 340 | 0.010 | 7.20 | 0.18     | 340 | 0.007 | 7.20 | 0.54      | 340 | 0.021 | 7.20 | 0.14     | 340 | 0.005 | 7.20 |
|       | 65C | 6553  | 0.22      | 340 | 0.008 | 7.20 | 0.15     | 340 | 0.006 | 7.20 | 0.44      | 340 | 0.017 | 7.20 | 0.11     | 340 | 0.004 | 7.20 |
|       | 74C | 7511  | 0.19      | 340 | 0.007 | 7.20 | 0.13     | 340 | 0.005 | 7.20 | 0.39      | 340 | 0.015 | 7.20 | 0.097    | 340 | 0.004 | 7.20 |
|       | 84C | 8372  | 0.17      | 340 | 0.007 | 7.20 | 0.11     | 340 | 0.004 | 7.20 | 0.35      | 340 | 0.013 | 7.20 | 0.087    | 340 | 0.003 | 7.20 |
|       | 95C | 9514  | 0.15      | 340 | 0.006 | 7.20 | 0.10     | 340 | 0.004 | 7.20 | 0.30      | 340 | 0.012 | 7.20 | 0.076    | 340 | 0.003 | 7.20 |
|       | 10K | 10670 | 0.14      | 270 | 0.004 | 7.20 | 0.090    | 270 | 0.003 | 7.20 | 0.27      | 270 | 0.008 | 7.20 | 0.068    | 270 | 0.002 | 7.20 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |     |       |      | n1 = 960 |     |       |      | n1 = 2900 |     |       |      | n1 = 725 |     |       |      |
|-------|-----|-------|-----------|-----|-------|------|----------|-----|-------|------|-----------|-----|-------|------|----------|-----|-------|------|
|       | in  | i     | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  |
| M0522 | 3.6 | 3.585 | 404       | 292 | 12.62 | 3.81 | 268      | 293 | 8.38  | 4.09 | 809       | 263 | 22.73 | 2.65 | 202      | 293 | 6.33  | 4.38 |
|       | 5.0 | 5.040 | 288       | 382 | 11.74 | 4.02 | 190      | 383 | 7.79  | 4.45 | 575       | 317 | 19.49 | 3.37 | 144      | 383 | 5.89  | 4.77 |
|       | 5.6 | 5.649 | 257       | 409 | 11.22 | 4.13 | 170      | 412 | 7.48  | 4.57 | 513       | 336 | 18.43 | 3.65 | 128      | 413 | 5.66  | 4.90 |
|       | 6.3 | 6.341 | 229       | 413 | 10.09 | 4.25 | 151      | 413 | 6.68  | 4.71 | 457       | 364 | 17.79 | 3.74 | 114      | 414 | 5.06  | 5.05 |
|       | 8.0 | 8.053 | 180       | 441 | 8.48  | 4.51 | 119      | 450 | 5.73  | 4.99 | 360       | 381 | 14.66 | 3.86 | 90       | 450 | 4.33  | 5.38 |
|       | 9.0 | 9.129 | 159       | 450 | 7.64  | 4.66 | 105      | 450 | 5.06  | 5.15 | 318       | 381 | 12.93 | 3.92 | 79       | 450 | 3.82  | 5.65 |
|       | 11. | 10.89 | 133       | 450 | 6.40  | 4.86 | 88       | 450 | 4.24  | 5.43 | 266       | 406 | 11.55 | 4.09 | 67       | 450 | 3.20  | 6.04 |
|       | 12. | 12.54 | 116       | 426 | 5.26  | 5.03 | 77       | 427 | 3.49  | 5.73 | 231       | 418 | 10.33 | 4.23 | 58       | 426 | 2.63  | 6.38 |
|       | 14. | 14.58 | 99        | 450 | 4.78  | 5.22 | 66       | 450 | 3.17  | 6.07 | 199       | 432 | 9.18  | 4.44 | 50       | 450 | 2.39  | 6.76 |
|       | 16. | 16.31 | 89        | 450 | 4.27  | 5.41 | 59       | 450 | 2.83  | 6.34 | 178       | 442 | 8.40  | 4.53 | 44       | 450 | 2.14  | 6.81 |
|       | 18. | 17.39 | 83        | 450 | 4.01  | 5.50 | 55       | 450 | 2.65  | 6.49 | 167       | 448 | 7.98  | 4.60 | 42       | 450 | 2.00  | 6.79 |
|       | 20. | 20.61 | 70        | 450 | 3.38  | 5.92 | 47       | 450 | 2.24  | 6.82 | 141       | 450 | 6.77  | 4.79 | 35       | 450 | 1.69  | 6.82 |
|       | 22. | 22.00 | 66        | 450 | 3.17  | 6.07 | 44       | 450 | 2.10  | 6.80 | 132       | 450 | 6.34  | 4.87 | 33       | 450 | 1.58  | 6.80 |
|       | 28. | 27.30 | 53        | 450 | 2.55  | 6.59 | 35       | 450 | 1.69  | 6.63 | 106       | 450 | 5.11  | 5.13 | 27       | 450 | 1.28  | 6.32 |
|       | 32. | 32.19 | 45        | 450 | 2.17  | 6.81 | 30       | 450 | 1.43  | 6.81 | 90        | 450 | 4.33  | 5.38 | 23       | 450 | 1.08  | 6.81 |
|       | 36. | 35.25 | 41        | 450 | 1.98  | 6.79 | 27       | 450 | 1.31  | 6.79 | 82        | 450 | 3.96  | 5.58 | 21       | 450 | 0.99  | 6.79 |
|       | 45. | 43.20 | 34        | 425 | 1.52  | 6.58 | 22       | 439 | 1.04  | 6.58 | 67        | 439 | 3.15  | 6.03 | 17       | 439 | 0.79  | 6.58 |
|       | 50. | 48.15 | 30        | 380 | 1.22  | 6.76 | 20       | 380 | 0.81  | 6.76 | 60        | 380 | 2.45  | 6.28 | 15       | 380 | 0.61  | 6.76 |
|       | 56. | 54.00 | 27        | 270 | 0.77  | 7.20 | 18       | 270 | 0.51  | 7.20 | 54        | 270 | 1.55  | 6.90 | 13       | 270 | 0.39  | 7.20 |
| M0532 | 56. | 58.38 | 25        | 450 | 1.21  | 7.20 | 16       | 450 | 0.80  | 7.20 | 50        | 443 | 2.38  | 6.14 | 12       | 450 | 0.60  | 7.20 |
|       | 63. | 64.29 | 23        | 450 | 1.10  | 7.20 | 15       | 450 | 0.73  | 7.20 | 45        | 431 | 2.10  | 6.38 | 11       | 450 | 0.55  | 7.20 |
|       | 71. | 73.95 | 20        | 450 | 0.95  | 7.20 | 13       | 450 | 0.63  | 7.20 | 39        | 443 | 1.88  | 6.73 | 10       | 450 | 0.48  | 7.20 |
|       | 80. | 80.40 | 18        | 450 | 0.88  | 7.20 | 12       | 450 | 0.58  | 7.20 | 36        | 450 | 1.75  | 6.65 | 9.0      | 450 | 0.44  | 7.20 |
|       | 100 | 96.52 | 15        | 450 | 0.73  | 7.20 | 10       | 450 | 0.48  | 7.20 | 30        | 370 | 1.20  | 6.46 | 7.5      | 450 | 0.36  | 7.20 |
|       | 112 | 115.8 | 13        | 450 | 0.61  | 7.20 | 8.3      | 450 | 0.40  | 7.20 | 25        | 380 | 1.03  | 6.25 | 6.3      | 450 | 0.30  | 7.20 |
|       | 125 | 130.5 | 11        | 450 | 0.54  | 7.20 | 7.4      | 450 | 0.36  | 7.20 | 22        | 387 | 0.93  | 6.10 | 5.6      | 450 | 0.27  | 7.20 |
|       | 160 | 151.7 | 10        | 450 | 0.46  | 7.20 | 6.3      | 450 | 0.31  | 7.20 | 19        | 396 | 0.82  | 7.20 | 4.8      | 450 | 0.23  | 7.20 |
|       | 180 | 172.2 | 8.4       | 450 | 0.41  | 7.20 | 5.6      | 450 | 0.27  | 7.20 | 17        | 404 | 0.73  | 7.20 | 4.2      | 450 | 0.20  | 7.20 |
|       | 200 | 195.8 | 7.4       | 450 | 0.36  | 7.20 | 4.9      | 450 | 0.24  | 7.20 | 15        | 411 | 0.66  | 7.20 | 3.7      | 450 | 0.18  | 7.20 |
| M0542 | 225 | 232.8 | 6.2       | 450 | 0.31  | 7.20 | 4.1      | 450 | 0.21  | 7.20 | 12        | 450 | 0.62  | 7.20 | 3.1      | 450 | 0.16  | 7.20 |
|       | 250 | 260.5 | 5.6       | 450 | 0.28  | 7.20 | 3.7      | 450 | 0.18  | 7.20 | 11        | 450 | 0.56  | 7.20 | 2.8      | 450 | 0.14  | 7.20 |
|       | 280 | 277.6 | 5.2       | 450 | 0.26  | 7.20 | 3.5      | 450 | 0.17  | 7.20 | 10        | 450 | 0.52  | 7.20 | 2.6      | 450 | 0.13  | 7.20 |
|       | 300 | 305.7 | 4.7       | 450 | 0.24  | 7.20 | 3.1      | 450 | 0.16  | 7.20 | 9.5       | 450 | 0.47  | 7.20 | 2.4      | 450 | 0.12  | 7.20 |
|       | 360 | 362.3 | 4.0       | 450 | 0.20  | 7.20 | 2.6      | 450 | 0.13  | 7.20 | 8.0       | 450 | 0.40  | 7.20 | 2.0      | 450 | 0.10  | 7.20 |
|       | 400 | 416.8 | 3.5       | 450 | 0.17  | 7.20 | 2.3      | 450 | 0.11  | 7.20 | 7.0       | 450 | 0.35  | 7.20 | 1.7      | 450 | 0.087 | 7.20 |
|       | 450 | 445.0 | 3.3       | 450 | 0.16  | 7.20 | 2.2      | 450 | 0.11  | 7.20 | 6.5       | 450 | 0.32  | 7.20 | 1.6      | 450 | 0.081 | 7.20 |
|       | 500 | 483.8 | 3.0       | 450 | 0.15  | 7.20 | 2.0      | 450 | 0.099 | 7.20 | 6.0       | 450 | 0.30  | 7.20 | 1.5      | 450 | 0.075 | 7.20 |
|       | 650 | 600.3 | 2.4       | 450 | 0.12  | 7.20 | 1.6      | 450 | 0.080 | 7.20 | 4.8       | 450 | 0.24  | 7.20 | 1.2      | 450 | 0.060 | 7.20 |
|       | 730 | 720.7 | 2.0       | 450 | 0.10  | 7.20 | 1.3      | 450 | 0.066 | 7.20 | 4.0       | 450 | 0.20  | 7.20 | 1.0      | 450 | 0.050 | 7.20 |
|       | 860 | 849.8 | 1.7       | 450 | 0.085 | 7.20 | 1.1      | 450 | 0.056 | 7.20 | 3.4       | 450 | 0.17  | 7.20 | 0.85     | 450 | 0.043 | 7.20 |
|       | 10C | 1020  | 1.4       | 450 | 0.071 | 7.20 | 0.94     | 450 | 0.047 | 7.20 | 2.8       | 450 | 0.14  | 7.20 | 0.71     | 450 | 0.035 | 7.20 |
|       | 11C | 1117  | 1.3       | 450 | 0.065 | 7.20 | 0.86     | 450 | 0.043 | 7.20 | 2.6       | 450 | 0.13  | 7.20 | 0.65     | 450 | 0.032 | 7.20 |
|       | 13C | 1258  | 1.2       | 450 | 0.057 | 7.20 | 0.76     | 450 | 0.038 | 7.20 | 2.3       | 450 | 0.11  | 7.20 | 0.58     | 450 | 0.029 | 7.20 |
|       | 15C | 1542  | 0.94      | 450 | 0.047 | 7.20 | 0.62     | 450 | 0.031 | 7.20 | 1.9       | 450 | 0.094 | 7.20 | 0.47     | 450 | 0.023 | 7.20 |
|       | 18C | 1792  | 0.81      | 450 | 0.040 | 7.20 | 0.54     | 450 | 0.027 | 7.20 | 1.6       | 450 | 0.081 | 7.20 | 0.40     | 450 | 0.020 | 7.20 |
|       | 20C | 1998  | 0.73      | 380 | 0.031 | 7.20 | 0.48     | 380 | 0.020 | 7.20 | 1.5       | 380 | 0.061 | 7.20 | 0.36     | 380 | 0.015 | 7.20 |
|       | 24C | 2268  | 0.64      | 380 | 0.027 | 7.20 | 0.42     | 380 | 0.018 | 7.20 | 1.3       | 380 | 0.054 | 7.20 | 0.32     | 380 | 0.013 | 7.20 |
|       | 27C | 2578  | 0.56      | 380 | 0.024 | 7.20 | 0.37     | 380 | 0.016 | 7.20 | 1.1       | 380 | 0.047 | 7.20 | 0.28     | 380 | 0.012 | 7.20 |
| M0552 | 27C | 2655  | 0.55      | 450 | 0.027 | 7.20 | 0.36     | 450 | 0.018 | 7.20 | 1.1       | 450 | 0.055 | 7.20 | 0.27     | 450 | 0.014 | 7.20 |
|       | 32C | 3095  | 0.47      | 450 | 0.023 | 7.20 | 0.31     | 450 | 0.016 | 7.20 | 0.94      | 450 | 0.047 | 7.20 | 0.23     | 450 | 0.012 | 7.20 |
|       | 36C | 3650  | 0.40      | 450 | 0.020 | 7.20 | 0.26     | 450 | 0.013 | 7.20 | 0.79      | 450 | 0.040 | 7.20 | 0.20     | 450 | 0.010 | 7.20 |
|       | 40C | 4055  | 0.36      | 450 | 0.018 | 7.20 | 0.24     | 450 | 0.012 | 7.20 | 0.72      | 450 | 0.036 | 7.20 | 0.18     | 450 | 0.009 | 7.20 |
|       | 46C | 4440  | 0.33      | 450 | 0.016 | 7.20 | 0.22     | 450 | 0.011 | 7.20 | 0.65      | 450 | 0.033 | 7.20 | 0.16     | 450 | 0.008 | 7.20 |
|       | 55C | 5347  | 0.27      | 450 | 0.014 | 7.20 | 0.18     | 450 | 0.009 | 7.20 | 0.54      | 450 | 0.027 | 7.20 | 0.14     | 450 | 0.007 | 7.20 |
|       | 65C | 6553  | 0.22      | 450 | 0.011 | 7.20 | 0.15     | 450 | 0.007 | 7.20 | 0.44      | 450 | 0.022 | 7.20 | 0.11     | 450 | 0.006 | 7.20 |
|       | 74C | 7511  | 0.19      | 450 | 0.010 | 7.20 | 0.13     | 450 | 0.006 | 7.20 | 0.39      | 450 | 0.019 | 7.20 | 0.097    | 450 | 0.005 | 7.20 |
|       | 84C | 8372  | 0.17      | 380 | 0.007 | 7.20 | 0.11     | 380 | 0.005 | 7.20 | 0.35      | 380 | 0.015 | 7.20 | 0.087    | 380 | 0.004 | 7.20 |
|       | 95C | 9514  | 0.15      | 380 | 0.006 | 7.20 | 0.10     | 380 | 0.004 | 7.20 | 0.30      | 380 | 0.013 | 7.20 | 0.076    | 380 | 0.003 | 7.20 |
|       | 10K | 10670 | 0.14      | 270 | 0.004 | 7.20 | 0.090    | 270 | 0.003 | 7.20 | 0.27      | 270 | 0.008 | 7.20 | 0.068    | 270 | 0.002 | 7.20 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |     |       |      | n1 = 960 |     |       |      | n1 = 2900 |     |       |      | n1 = 725 |     |       |      |
|-------|-----|-------|-----------|-----|-------|------|----------|-----|-------|------|-----------|-----|-------|------|----------|-----|-------|------|
|       | in  | i     | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  | n2        | M2  | Pm    | Fra  | n2       | M2  | Pm    | Fra  |
| M0622 | 5.0 | 4.438 | 327       | 362 | 12.64 | 7.20 | 216      | 363 | 8.39  | 7.20 | 653       | 326 | 22.76 | 6.03 | 163      | 363 | 6.34  | 7.20 |
|       | 5.6 | 6.240 | 232       | 473 | 11.74 | 6.93 | 154      | 474 | 7.79  | 7.20 | 465       | 393 | 19.52 | 5.97 | 116      | 474 | 5.88  | 7.20 |
|       | 6.3 | 6.994 | 207       | 510 | 11.30 | 7.14 | 137      | 511 | 7.49  | 7.20 | 415       | 416 | 18.43 | 6.23 | 104      | 511 | 5.66  | 7.20 |
|       | 8.0 | 7.851 | 185       | 512 | 10.10 | 7.20 | 122      | 512 | 6.69  | 7.20 | 369       | 436 | 17.21 | 6.39 | 92       | 512 | 5.05  | 7.20 |
|       | 9.0 | 9.970 | 145       | 594 | 9.23  | 7.20 | 96       | 594 | 6.11  | 7.20 | 291       | 484 | 15.04 | 6.59 | 73       | 594 | 4.62  | 7.20 |
|       | 11. | 11.30 | 128       | 604 | 8.28  | 7.20 | 85       | 607 | 5.51  | 7.20 | 257       | 507 | 13.90 | 6.78 | 64       | 607 | 4.16  | 7.20 |
|       | 12. | 13.48 | 108       | 613 | 7.05  | 7.20 | 71       | 625 | 4.76  | 7.20 | 215       | 538 | 12.37 | 7.08 | 54       | 628 | 3.61  | 7.20 |
|       | 14. | 15.52 | 93        | 528 | 5.27  | 7.20 | 62       | 625 | 4.13  | 7.20 | 187       | 527 | 10.52 | 7.20 | 47       | 528 | 2.64  | 7.20 |
|       | 16. | 18.05 | 80        | 596 | 5.12  | 7.20 | 53       | 625 | 3.55  | 7.20 | 161       | 584 | 10.03 | 7.20 | 40       | 597 | 2.56  | 7.20 |
|       | 18. | 20.20 | 72        | 625 | 4.79  | 7.20 | 48       | 625 | 3.17  | 7.20 | 144       | 598 | 9.17  | 7.20 | 36       | 625 | 2.40  | 7.20 |
|       | 20. | 21.53 | 67        | 625 | 4.50  | 7.20 | 45       | 625 | 2.98  | 7.20 | 135       | 600 | 8.64  | 7.20 | 34       | 625 | 2.25  | 7.20 |
|       | 22. | 25.51 | 57        | 625 | 3.80  | 7.20 | 38       | 625 | 2.51  | 7.20 | 114       | 610 | 7.41  | 7.20 | 28       | 625 | 1.90  | 7.20 |
|       | 28. | 27.24 | 53        | 625 | 3.55  | 7.20 | 35       | 625 | 2.35  | 7.20 | 106       | 614 | 6.98  | 7.20 | 27       | 625 | 1.78  | 7.20 |
|       | 32. | 33.80 | 43        | 625 | 2.86  | 7.20 | 28       | 625 | 1.90  | 7.20 | 86        | 625 | 5.73  | 7.20 | 21       | 625 | 1.43  | 7.20 |
|       | 36. | 39.86 | 36        | 625 | 2.43  | 7.20 | 24       | 625 | 1.61  | 7.20 | 73        | 625 | 4.86  | 7.20 | 18       | 625 | 1.21  | 7.20 |
|       | 45. | 43.64 | 33        | 625 | 2.22  | 7.20 | 22       | 625 | 1.47  | 7.20 | 66        | 625 | 4.44  | 7.20 | 17       | 625 | 1.11  | 7.20 |
|       | 50. | 53.49 | 27        | 526 | 1.52  | 7.20 | 18       | 544 | 1.04  | 7.20 | 54        | 514 | 2.98  | 7.20 | 14       | 557 | 0.81  | 7.20 |
|       | 56. | 59.61 | 24        | 470 | 1.22  | 7.20 | 16       | 470 | 0.81  | 7.20 | 49        | 470 | 2.44  | 7.20 | 12       | 470 | 0.61  | 7.20 |
|       | 63. | 66.86 | 22        | 334 | 0.77  | 7.20 | 14       | 334 | 0.51  | 7.20 | 43        | 334 | 1.55  | 7.20 | 11       | 334 | 0.39  | 7.20 |
| M0632 | 63. | 72.28 | 20        | 625 | 1.35  | 7.20 | 13       | 625 | 0.90  | 7.20 | 40        | 549 | 2.38  | 7.20 | 10       | 625 | 0.68  | 7.20 |
|       | 71. | 79.60 | 18        | 625 | 1.23  | 7.20 | 12       | 625 | 0.81  | 7.20 | 36        | 534 | 2.10  | 7.20 | 9.1      | 625 | 0.61  | 7.20 |
|       | 80. | 91.56 | 16        | 625 | 1.07  | 7.20 | 10       | 625 | 0.71  | 7.20 | 32        | 549 | 1.88  | 7.20 | 7.9      | 625 | 0.53  | 7.20 |
|       | 100 | 99.54 | 15        | 625 | 0.98  | 7.20 | 10       | 625 | 0.65  | 7.20 | 29        | 558 | 1.75  | 7.20 | 7.3      | 625 | 0.49  | 7.20 |
|       | 112 | 119.5 | 12        | 625 | 0.82  | 7.20 | 8.0      | 625 | 0.54  | 7.20 | 24        | 585 | 1.53  | 7.20 | 6.1      | 625 | 0.41  | 7.20 |
|       | 125 | 143.4 | 10        | 625 | 0.68  | 7.20 | 6.7      | 625 | 0.45  | 7.20 | 20        | 613 | 1.34  | 7.20 | 5.1      | 625 | 0.34  | 7.20 |
|       | 160 | 161.6 | 9.0       | 625 | 0.61  | 7.20 | 5.9      | 625 | 0.40  | 7.20 | 18        | 625 | 1.21  | 7.20 | 4.5      | 625 | 0.30  | 7.20 |
|       | 180 | 187.8 | 7.7       | 625 | 0.52  | 7.20 | 5.1      | 625 | 0.34  | 7.20 | 15        | 625 | 1.04  | 7.20 | 3.9      | 625 | 0.26  | 7.20 |
|       | 200 | 213.2 | 6.8       | 625 | 0.46  | 7.20 | 4.5      | 625 | 0.30  | 7.20 | 14        | 625 | 0.92  | 7.20 | 3.4      | 625 | 0.23  | 7.20 |
|       | 225 | 242.4 | 6.0       | 598 | 0.39  | 7.20 | 4.0      | 623 | 0.27  | 7.20 | 12        | 575 | 0.74  | 7.20 | 3.0      | 625 | 0.20  | 7.20 |
| M0642 | 280 | 272.9 | 5.3       | 625 | 0.37  | 7.20 | 3.5      | 625 | 0.24  | 7.20 | 11        | 625 | 0.74  | 7.20 | 2.7      | 625 | 0.18  | 7.20 |
|       | 300 | 313.9 | 4.6       | 625 | 0.32  | 7.20 | 3.1      | 625 | 0.21  | 7.20 | 9.2       | 625 | 0.64  | 7.20 | 2.3      | 625 | 0.16  | 7.20 |
|       | 360 | 365.1 | 4.0       | 625 | 0.28  | 7.20 | 2.6      | 625 | 0.18  | 7.20 | 7.9       | 625 | 0.55  | 7.20 | 2.0      | 625 | 0.14  | 7.20 |
|       | 400 | 396.9 | 3.7       | 625 | 0.25  | 7.20 | 2.4      | 625 | 0.17  | 7.20 | 7.3       | 625 | 0.51  | 7.20 | 1.8      | 625 | 0.13  | 7.20 |
|       | 450 | 444.1 | 3.3       | 625 | 0.23  | 7.20 | 2.2      | 625 | 0.15  | 7.20 | 6.5       | 625 | 0.45  | 7.20 | 1.6      | 625 | 0.11  | 7.20 |
|       | 500 | 533.1 | 2.7       | 625 | 0.19  | 7.20 | 1.8      | 625 | 0.12  | 7.20 | 5.4       | 625 | 0.38  | 7.20 | 1.4      | 625 | 0.094 | 7.20 |
|       | 650 | 568.2 | 2.6       | 625 | 0.18  | 7.20 | 1.7      | 625 | 0.12  | 7.20 | 5.1       | 625 | 0.35  | 7.20 | 1.3      | 625 | 0.088 | 7.20 |
|       | 730 | 681.9 | 2.1       | 625 | 0.15  | 7.20 | 1.4      | 625 | 0.098 | 7.20 | 4.3       | 625 | 0.29  | 7.20 | 1.1      | 625 | 0.074 | 7.20 |
|       | 860 | 808.1 | 1.8       | 625 | 0.12  | 7.20 | 1.2      | 625 | 0.082 | 7.20 | 3.6       | 625 | 0.25  | 7.20 | 0.90     | 625 | 0.062 | 7.20 |
|       | 10C | 972.2 | 1.5       | 625 | 0.10  | 7.20 | 0.99     | 625 | 0.068 | 7.20 | 3.0       | 625 | 0.21  | 7.20 | 0.75     | 625 | 0.052 | 7.20 |
|       | 11C | 1130  | 1.3       | 625 | 0.089 | 7.20 | 0.85     | 625 | 0.059 | 7.20 | 2.6       | 625 | 0.18  | 7.20 | 0.64     | 625 | 0.044 | 7.20 |
|       | 13C | 1402  | 1.0       | 625 | 0.072 | 7.20 | 0.68     | 625 | 0.047 | 7.20 | 2.1       | 625 | 0.14  | 7.20 | 0.52     | 625 | 0.036 | 7.20 |
|       | 15C | 1592  | 0.91      | 625 | 0.063 | 7.20 | 0.60     | 625 | 0.042 | 7.20 | 1.8       | 625 | 0.13  | 7.20 | 0.46     | 625 | 0.032 | 7.20 |
|       | 18C | 1877  | 0.77      | 625 | 0.053 | 7.20 | 0.51     | 625 | 0.035 | 7.20 | 1.5       | 625 | 0.11  | 7.20 | 0.39     | 625 | 0.027 | 7.20 |
|       | 20C | 2055  | 0.71      | 625 | 0.049 | 7.20 | 0.47     | 625 | 0.032 | 7.20 | 1.4       | 625 | 0.098 | 7.20 | 0.35     | 625 | 0.024 | 7.20 |
|       | 24C | 2337  | 0.62      | 625 | 0.043 | 7.20 | 0.41     | 625 | 0.028 | 7.20 | 1.2       | 625 | 0.086 | 7.20 | 0.31     | 625 | 0.021 | 7.20 |
|       | 27C | 2519  | 0.58      | 625 | 0.040 | 7.20 | 0.38     | 625 | 0.026 | 7.20 | 1.2       | 625 | 0.080 | 7.20 | 0.29     | 625 | 0.020 | 7.20 |
| M0652 | 27C | 2649  | 0.55      | 625 | 0.038 | 7.20 | 0.36     | 625 | 0.025 | 7.20 | 1.1       | 625 | 0.076 | 7.20 | 0.27     | 625 | 0.019 | 7.20 |
|       | 32C | 3088  | 0.47      | 625 | 0.033 | 7.20 | 0.31     | 625 | 0.022 | 7.20 | 0.94      | 625 | 0.065 | 7.20 | 0.23     | 625 | 0.016 | 7.20 |
|       | 36C | 3832  | 0.38      | 625 | 0.026 | 7.20 | 0.25     | 625 | 0.017 | 7.20 | 0.76      | 625 | 0.053 | 7.20 | 0.19     | 625 | 0.013 | 7.20 |
|       | 40C | 4258  | 0.34      | 625 | 0.024 | 7.20 | 0.23     | 625 | 0.016 | 7.20 | 0.68      | 625 | 0.047 | 7.20 | 0.17     | 625 | 0.012 | 7.20 |
|       | 46C | 5021  | 0.29      | 625 | 0.020 | 7.20 | 0.19     | 625 | 0.013 | 7.20 | 0.58      | 625 | 0.040 | 7.20 | 0.14     | 625 | 0.010 | 7.20 |
|       | 55C | 6046  | 0.24      | 625 | 0.017 | 7.20 | 0.16     | 625 | 0.011 | 7.20 | 0.48      | 625 | 0.033 | 7.20 | 0.12     | 625 | 0.008 | 7.20 |
|       | 65C | 6620  | 0.22      | 625 | 0.015 | 7.20 | 0.15     | 625 | 0.010 | 7.20 | 0.44      | 625 | 0.030 | 7.20 | 0.11     | 625 | 0.008 | 7.20 |
|       | 74C | 7588  | 0.19      | 625 | 0.013 | 7.20 | 0.13     | 625 | 0.009 | 7.20 | 0.38      | 625 | 0.027 | 7.20 | 0.096    | 625 | 0.007 | 7.20 |
|       | 84C | 8624  | 0.17      | 625 | 0.012 | 7.20 | 0.11     | 625 | 0.008 | 7.20 | 0.34      | 625 | 0.023 | 7.20 | 0.084    | 625 | 0.006 | 7.20 |
|       | 95C | 9300  | 0.16      | 625 | 0.011 | 7.20 | 0.10     | 625 | 0.007 | 7.20 | 0.31      | 625 | 0.022 | 7.20 | 0.078    | 625 | 0.005 | 7.20 |
|       | 10K | 10569 | 0.14      | 625 | 0.010 | 7.20 | 0.091    | 625 | 0.006 | 7.20 | 0.27      | 625 | 0.019 | 7.20 | 0.069    | 625 | 0.005 | 7.20 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              | in  | i     | n1 = 1450 |     |       |       | n1 = 960 |     |       |       | n1 = 2900 |     |       |       | n1 = 725 |     |       |       |
|--------------|-----|-------|-----------|-----|-------|-------|----------|-----|-------|-------|-----------|-----|-------|-------|----------|-----|-------|-------|
|              |     |       | n2        | M2  | Pm    | Fra   | n2       | M2  | Pm    | Fra   | n2        | M2  | Pm    | Fra   | n2       | M2  | Pm    | Fra   |
| <b>M0722</b> | 3.6 | 3.678 | 394       | 306 | 12.89 | 7.92  | 261      | 306 | 8.53  | 8.51  | 788       | 304 | 25.61 | 6.16  | 197      | 307 | 6.47  | 9.08  |
|              | 5.0 | 5.094 | 285       | 425 | 12.93 | 7.15  | 188      | 425 | 8.56  | 8.36  | 569       | 423 | 25.73 | 5.44  | 142      | 426 | 6.48  | 9.24  |
|              | 5.6 | 5.722 | 253       | 477 | 12.92 | 6.50  | 168      | 478 | 8.57  | 7.74  | 507       | 446 | 24.15 | 5.48  | 127      | 478 | 6.47  | 8.64  |
|              | 6.3 | 6.292 | 230       | 525 | 12.93 | 5.89  | 153      | 526 | 8.58  | 7.16  | 461       | 464 | 22.85 | 5.44  | 115      | 526 | 6.48  | 8.08  |
|              | 8.0 | 8.218 | 176       | 655 | 12.35 | 5.02  | 117      | 687 | 8.57  | 5.72  | 353       | 519 | 19.57 | 4.95  | 88       | 687 | 6.48  | 6.37  |
|              | 9.0 | 9.344 | 155       | 689 | 11.42 | 5.23  | 103      | 743 | 8.16  | 5.94  | 310       | 547 | 18.14 | 4.70  | 78       | 780 | 6.47  | 6.89  |
|              | 11. | 11.35 | 128       | 726 | 9.91  | 5.55  | 85       | 773 | 6.99  | 6.54  | 256       | 588 | 16.05 | 4.44  | 64       | 811 | 5.54  | 7.73  |
|              | 12. | 12.48 | 116       | 740 | 9.19  | 5.72  | 77       | 793 | 6.52  | 6.92  | 232       | 611 | 15.17 | 5.58  | 58       | 819 | 5.08  | 8.07  |
|              | 14. | 14.34 | 101       | 761 | 8.22  | 5.97  | 67       | 806 | 5.77  | 7.53  | 202       | 644 | 13.92 | 4.80  | 51       | 830 | 4.48  | 7.83  |
|              | 16. | 16.26 | 89        | 786 | 7.49  | 6.33  | 59       | 818 | 5.16  | 8.08  | 178       | 684 | 13.03 | 5.01  | 45       | 841 | 4.01  | 7.60  |
|              | 18. | 17.94 | 81        | 794 | 6.86  | 6.72  | 54       | 825 | 4.72  | 7.94  | 162       | 700 | 12.09 | 5.17  | 40       | 850 | 3.67  | 7.39  |
|              | 20. | 20.54 | 71        | 804 | 6.06  | 7.30  | 47       | 837 | 4.18  | 7.67  | 141       | 731 | 11.03 | 5.40  | 35       | 861 | 3.25  | 7.14  |
|              | 22. | 23.23 | 62        | 813 | 5.42  | 7.83  | 41       | 847 | 3.74  | 7.44  | 125       | 748 | 9.98  | 5.61  | 31       | 865 | 2.88  | 6.88  |
|              | 28. | 26.93 | 54        | 825 | 4.75  | 7.94  | 36       | 860 | 3.28  | 7.16  | 108       | 768 | 8.84  | 5.87  | 27       | 865 | 2.49  | 6.58  |
|              | 32. | 32.12 | 45        | 840 | 4.05  | 7.60  | 30       | 865 | 2.76  | 6.81  | 90        | 786 | 7.58  | 6.28  | 23       | 865 | 2.09  | 6.23  |
|              | 36. | 35.17 | 41        | 847 | 3.73  | 7.44  | 27       | 865 | 2.52  | 6.63  | 82        | 792 | 6.98  | 6.65  | 21       | 865 | 1.91  | 6.01  |
|              | 45. | 42.21 | 34        | 863 | 3.17  | 7.09  | 23       | 865 | 2.10  | 6.23  | 69        | 806 | 5.92  | 7.42  | 17       | 865 | 1.59  | 5.61  |
|              | 50. | 48.56 | 30        | 700 | 2.23  | 8.60  | 20       | 701 | 1.48  | 8.35  | 60        | 700 | 4.47  | 8.99  | 15       | 701 | 1.12  | 8.35  |
|              | 56. | 53.96 | 27        | 596 | 1.71  | 10.00 | 18       | 596 | 1.13  | 10.00 | 54        | 596 | 3.42  | 10.00 | 13       | 596 | 0.86  | 10.00 |
| <b>M0732</b> | 56. | 58.95 | 25        | 754 | 2.00  | 10.00 | 16       | 865 | 1.52  | 10.00 | 49        | 640 | 3.40  | 9.20  | 12       | 865 | 1.15  | 10.00 |
|              | 63. | 62.83 | 23        | 770 | 1.92  | 10.00 | 15       | 865 | 1.43  | 10.00 | 46        | 650 | 3.24  | 9.04  | 12       | 865 | 1.08  | 10.00 |
|              | 71. | 74.47 | 19        | 815 | 1.71  | 10.00 | 13       | 865 | 1.20  | 10.00 | 39        | 673 | 2.83  | 8.59  | 10       | 865 | 0.91  | 10.00 |
|              | 80. | 79.51 | 18        | 833 | 1.64  | 10.00 | 12       | 865 | 1.13  | 10.00 | 36        | 682 | 2.69  | 8.41  | 9.1      | 865 | 0.85  | 10.00 |
|              | 100 | 98.66 | 15        | 865 | 1.37  | 10.00 | 10       | 865 | 0.91  | 10.00 | 29        | 714 | 2.27  | 7.81  | 7.3      | 865 | 0.69  | 10.00 |
|              | 112 | 116.3 | 12        | 865 | 1.16  | 10.00 | 8.3      | 865 | 0.77  | 10.00 | 25        | 751 | 2.02  | 8.10  | 6.2      | 874 | 0.59  | 10.00 |
|              | 125 | 127.4 | 11        | 865 | 1.06  | 10.00 | 7.5      | 865 | 0.70  | 10.00 | 23        | 775 | 1.90  | 9.20  | 5.7      | 880 | 0.54  | 10.00 |
|              | 160 | 156.1 | 9.3       | 865 | 0.87  | 10.00 | 6.1      | 875 | 0.58  | 10.00 | 19        | 828 | 1.66  | 10.00 | 4.6      | 880 | 0.44  | 10.00 |
|              | 180 | 174.0 | 8.3       | 865 | 0.78  | 10.00 | 5.5      | 880 | 0.52  | 10.00 | 17        | 858 | 1.54  | 10.00 | 4.2      | 880 | 0.40  | 10.00 |
|              | 200 | 195.2 | 7.4       | 865 | 0.69  | 10.00 | 4.9      | 880 | 0.47  | 10.00 | 15        | 868 | 1.39  | 10.00 | 3.7      | 880 | 0.35  | 10.00 |
| <b>M0742</b> | 225 | 229.0 | 6.3       | 880 | 0.62  | 10.00 | 4.2      | 880 | 0.41  | 10.00 | 13        | 880 | 1.23  | 10.00 | 3.2      | 880 | 0.31  | 10.00 |
|              | 250 | 259.7 | 5.6       | 880 | 0.54  | 10.00 | 3.7      | 880 | 0.36  | 10.00 | 11        | 880 | 1.09  | 10.00 | 2.8      | 880 | 0.27  | 10.00 |
|              | 280 | 286.5 | 5.1       | 880 | 0.49  | 10.00 | 3.4      | 880 | 0.33  | 10.00 | 10        | 880 | 0.99  | 10.00 | 2.5      | 880 | 0.25  | 10.00 |
|              | 300 | 315.4 | 4.6       | 880 | 0.45  | 10.00 | 3.0      | 880 | 0.30  | 10.00 | 9.2       | 880 | 0.90  | 10.00 | 2.3      | 880 | 0.22  | 10.00 |
|              | 360 | 361.2 | 4.0       | 880 | 0.39  | 10.00 | 2.7      | 880 | 0.26  | 10.00 | 8.0       | 880 | 0.78  | 10.00 | 2.0      | 880 | 0.20  | 10.00 |
|              | 400 | 415.5 | 3.5       | 880 | 0.34  | 10.00 | 2.3      | 880 | 0.23  | 10.00 | 7.0       | 880 | 0.68  | 10.00 | 1.7      | 880 | 0.17  | 10.00 |
|              | 450 | 469.8 | 3.1       | 880 | 0.30  | 10.00 | 2.0      | 880 | 0.20  | 10.00 | 6.2       | 880 | 0.60  | 10.00 | 1.5      | 880 | 0.15  | 10.00 |
|              | 500 | 510.7 | 2.8       | 880 | 0.28  | 10.00 | 1.9      | 880 | 0.18  | 10.00 | 5.7       | 880 | 0.55  | 10.00 | 1.4      | 880 | 0.14  | 10.00 |
|              | 650 | 592.1 | 2.4       | 880 | 0.24  | 10.00 | 1.6      | 880 | 0.16  | 10.00 | 4.9       | 880 | 0.48  | 10.00 | 1.2      | 880 | 0.12  | 10.00 |
|              | 730 | 710.8 | 2.0       | 880 | 0.20  | 10.00 | 1.4      | 880 | 0.13  | 10.00 | 4.1       | 880 | 0.40  | 10.00 | 1.0      | 880 | 0.099 | 10.00 |
|              | 860 | 847.8 | 1.7       | 880 | 0.17  | 10.00 | 1.1      | 880 | 0.11  | 10.00 | 3.4       | 880 | 0.33  | 10.00 | 0.86     | 880 | 0.083 | 10.00 |
|              | 10C | 1017  | 1.4       | 880 | 0.14  | 10.00 | 0.94     | 880 | 0.092 | 10.00 | 2.9       | 880 | 0.28  | 10.00 | 0.71     | 880 | 0.069 | 10.00 |
|              | 11C | 1114  | 1.3       | 880 | 0.13  | 10.00 | 0.86     | 880 | 0.084 | 10.00 | 2.6       | 880 | 0.25  | 10.00 | 0.65     | 880 | 0.063 | 10.00 |
|              | 13C | 1255  | 1.2       | 880 | 0.11  | 10.00 | 0.76     | 880 | 0.075 | 10.00 | 2.3       | 880 | 0.23  | 10.00 | 0.58     | 880 | 0.056 | 10.00 |
|              | 15C | 1506  | 0.96      | 880 | 0.094 | 10.00 | 0.64     | 880 | 0.062 | 10.00 | 1.9       | 880 | 0.19  | 10.00 | 0.48     | 880 | 0.047 | 10.00 |
|              | 18C | 1751  | 0.83      | 880 | 0.081 | 10.00 | 0.55     | 880 | 0.053 | 10.00 | 1.7       | 880 | 0.16  | 10.00 | 0.41     | 880 | 0.040 | 10.00 |
|              | 20C | 2015  | 0.72      | 880 | 0.070 | 10.00 | 0.48     | 880 | 0.046 | 10.00 | 1.4       | 880 | 0.14  | 10.00 | 0.36     | 880 | 0.035 | 10.00 |
|              | 24C | 2287  | 0.63      | 880 | 0.062 | 10.00 | 0.42     | 880 | 0.041 | 10.00 | 1.3       | 880 | 0.12  | 10.00 | 0.32     | 880 | 0.031 | 10.00 |
|              | 27C | 2600  | 0.56      | 880 | 0.054 | 10.00 | 0.37     | 880 | 0.036 | 10.00 | 1.1       | 880 | 0.11  | 10.00 | 0.28     | 880 | 0.027 | 10.00 |
| <b>M0752</b> | 27C | 2619  | 0.55      | 880 | 0.054 | 10.00 | 0.37     | 880 | 0.036 | 10.00 | 1.1       | 880 | 0.11  | 10.00 | 0.28     | 880 | 0.027 | 10.00 |
|              | 32C | 3053  | 0.47      | 880 | 0.047 | 10.00 | 0.31     | 880 | 0.031 | 10.00 | 0.95      | 880 | 0.093 | 10.00 | 0.24     | 880 | 0.023 | 10.00 |
|              | 36C | 3641  | 0.40      | 880 | 0.039 | 10.00 | 0.26     | 880 | 0.026 | 10.00 | 0.80      | 880 | 0.078 | 10.00 | 0.20     | 880 | 0.020 | 10.00 |
|              | 40C | 4046  | 0.36      | 880 | 0.035 | 10.00 | 0.24     | 880 | 0.023 | 10.00 | 0.72      | 880 | 0.070 | 10.00 | 0.18     | 880 | 0.018 | 10.00 |
|              | 46C | 4431  | 0.33      | 880 | 0.032 | 10.00 | 0.22     | 880 | 0.021 | 10.00 | 0.65      | 880 | 0.064 | 10.00 | 0.16     | 880 | 0.016 | 10.00 |
|              | 55C | 5335  | 0.27      | 880 | 0.027 | 10.00 | 0.18     | 880 | 0.018 | 10.00 | 0.54      | 880 | 0.053 | 10.00 | 0.14     | 880 | 0.013 | 10.00 |
|              | 65C | 6403  | 0.23      | 880 | 0.022 | 10.00 | 0.15     | 880 | 0.015 | 10.00 | 0.45      | 880 | 0.044 | 10.00 | 0.11     | 880 | 0.011 | 10.00 |
|              | 74C | 7339  | 0.20      | 880 | 0.019 | 10.00 | 0.13     | 880 | 0.013 | 10.00 | 0.40      | 880 | 0.039 | 10.00 | 0.099    | 880 | 0.010 | 10.00 |
|              | 84C | 8443  | 0.17      | 880 | 0.017 | 10.00 | 0.11     | 880 | 0.011 | 10.00 | 0.34      | 880 | 0.034 | 10.00 | 0.086    | 880 | 0.008 | 10.00 |
|              | 95C | 9596  | 0.15      | 880 | 0.015 | 10.00 | 0.10     | 880 | 0.010 | 10.00 | 0.30      | 880 | 0.030 | 10.00 | 0.076    | 880 | 0.007 | 10.00 |
|              | 10K | 10662 | 0.14      | 880 | 0.013 | 10.00 | 0.090    | 880 | 0.009 | 10.00 | 0.27      | 880 | 0.027 | 10.00 | 0.068    | 880 | 0.007 | 10.00 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              |     |       | n1 = 1450 |      |       |       | n1 = 960 |      |       |       | n1 = 2900 |      |       |       | n1 = 725 |      |       |       |
|--------------|-----|-------|-----------|------|-------|-------|----------|------|-------|-------|-----------|------|-------|-------|----------|------|-------|-------|
|              | in  | i     | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   |
| <b>M0822</b> | 3.6 | 3.68  | 394       | 482  | 20.30 | 12.70 | 261      | 484  | 13.50 | 13.90 | 788       | 479  | 40.35 | 9.77  | 197      | 485  | 10.22 | 14.60 |
|              | 5.0 | 5.21  | 278       | 686  | 20.38 | 12.20 | 184      | 688  | 13.54 | 13.70 | 556       | 683  | 40.59 | 9.00  | 139      | 688  | 10.22 | 15.00 |
|              | 5.6 | 5.79  | 250       | 763  | 20.41 | 11.40 | 166      | 764  | 13.53 | 13.00 | 501       | 760  | 40.66 | 8.50  | 125      | 765  | 10.23 | 14.30 |
|              | 6.3 | 6.44  | 225       | 849  | 20.42 | 10.40 | 149      | 851  | 13.55 | 12.30 | 450       | 832  | 40.02 | 8.09  | 113      | 851  | 10.23 | 13.60 |
|              | 8.0 | 8.33  | 174       | 1100 | 20.46 | 7.96  | 115      | 1100 | 13.55 | 9.88  | 348       | 926  | 34.45 | 8.00  | 87       | 1100 | 10.23 | 11.30 |
|              | 9.0 | 9.35  | 155       | 1220 | 20.21 | 6.52  | 103      | 1240 | 13.60 | 8.49  | 310       | 967  | 32.04 | 7.75  | 78       | 1240 | 10.27 | 9.93  |
|              | 11. | 11.47 | 126       | 1310 | 17.69 | 6.60  | 84       | 1500 | 13.41 | 6.60  | 253       | 1040 | 28.10 | 7.38  | 63       | 1520 | 10.27 | 9.00  |
|              | 12. | 12.92 | 112       | 1340 | 16.07 | 6.90  | 74       | 1540 | 12.23 | 6.90  | 224       | 1060 | 25.42 | 7.37  | 56       | 1690 | 10.13 | 9.00  |
|              | 14. | 15.04 | 96        | 1410 | 14.52 | 6.90  | 64       | 1620 | 11.05 | 7.45  | 193       | 1120 | 23.07 | 7.23  | 48       | 1700 | 8.76  | 9.50  |
|              | 16. | 16.69 | 87        | 1420 | 13.18 | 7.25  | 58       | 1420 | 8.73  | 9.72  | 174       | 1150 | 21.35 | 7.24  | 43       | 1420 | 6.59  | 12.40 |
|              | 18. | 18.26 | 79        | 1360 | 11.54 | 8.00  | 53       | 1360 | 7.64  | 11.40 | 159       | 1160 | 19.68 | 7.51  | 40       | 1360 | 5.77  | 14.20 |
|              | 20. | 20.66 | 70        | 1460 | 10.95 | 8.50  | 46       | 1460 | 7.25  | 11.20 | 140       | 1200 | 18.00 | 7.48  | 35       | 1460 | 5.47  | 14.00 |
|              | 22. | 23.32 | 62        | 1540 | 10.23 | 9.00  | 41       | 1540 | 6.77  | 11.30 | 124       | 1230 | 16.34 | 7.66  | 31       | 1540 | 5.12  | 14.20 |
|              | 28. | 28.27 | 51        | 1580 | 8.66  | 9.25  | 34       | 1670 | 6.06  | 13.30 | 103       | 1260 | 13.81 | 8.22  | 26       | 1670 | 4.58  | 14.80 |
|              | 32. | 32.97 | 44        | 1620 | 7.61  | 9.89  | 29       | 1700 | 5.29  | 14.40 | 88        | 1280 | 12.03 | 8.61  | 22       | 1700 | 3.99  | 15.00 |
|              | 36. | 36.21 | 40        | 1650 | 7.06  | 10.50 | 27       | 1700 | 4.82  | 15.00 | 80        | 1310 | 11.21 | 8.70  | 20       | 1700 | 3.64  | 16.20 |
|              | 45. | 44.38 | 33        | 1690 | 5.90  | 12.30 | 22       | 1700 | 3.93  | 16.20 | 65        | 1340 | 9.36  | 9.79  | 16       | 1700 | 2.97  | 16.20 |
|              | 50. | 48.46 | 30        | 1690 | 5.40  | 13.50 | 20       | 1700 | 3.60  | 16.20 | 60        | 1350 | 8.63  | 10.40 | 15       | 1700 | 2.72  | 16.20 |
|              | 56. | 55.80 | 26        | 1540 | 4.28  | 16.20 | 17       | 1540 | 2.83  | 16.20 | 52        | 1360 | 7.55  | 11.70 | 13       | 1550 | 2.15  | 16.20 |
| <b>M0832</b> | 56. | 60.33 | 24        | 1600 | 4.15  | 16.20 | 16       | 1700 | 2.92  | 16.20 | 48        | 1300 | 6.75  | 13.20 | 12       | 1700 | 2.21  | 16.20 |
|              | 63. | 66.02 | 22        | 1650 | 3.91  | 16.20 | 15       | 1700 | 2.67  | 16.20 | 44        | 1340 | 6.35  | 13.50 | 11       | 1700 | 2.02  | 16.20 |
|              | 71. | 74.69 | 19        | 1700 | 3.56  | 16.20 | 13       | 1700 | 2.36  | 16.20 | 39        | 1390 | 5.83  | 14.10 | 10       | 1700 | 1.78  | 16.20 |
|              | 80. | 84.31 | 17        | 1700 | 3.16  | 16.20 | 11       | 1700 | 2.09  | 16.20 | 34        | 1440 | 5.35  | 14.60 | 8.6      | 1700 | 1.58  | 16.20 |
|              | 100 | 102.2 | 14        | 1700 | 2.60  | 16.20 | 9.4      | 1700 | 1.72  | 16.20 | 28        | 1520 | 4.66  | 16.20 | 7.1      | 1700 | 1.30  | 16.20 |
|              | 112 | 119.2 | 12        | 1700 | 2.23  | 16.20 | 8.1      | 1700 | 1.48  | 16.20 | 24        | 1600 | 4.20  | 16.20 | 6.1      | 1700 | 1.12  | 16.20 |
|              | 125 | 130.9 | 11        | 1700 | 2.03  | 16.20 | 7.3      | 1700 | 1.35  | 16.20 | 22        | 1640 | 3.92  | 16.20 | 5.5      | 1700 | 1.02  | 16.20 |
|              | 160 | 160.4 | 9.0       | 1700 | 1.66  | 16.20 | 6.0      | 1700 | 1.10  | 16.20 | 18        | 1700 | 3.32  | 16.20 | 4.5      | 1700 | 0.83  | 16.20 |
|              | 180 | 175.2 | 8.3       | 1700 | 1.52  | 16.20 | 5.5      | 1700 | 1.01  | 16.20 | 17        | 1700 | 3.04  | 16.20 | 4.1      | 1700 | 0.76  | 16.20 |
|              | 200 | 201.8 | 7.2       | 1700 | 1.32  | 16.20 | 4.8      | 1700 | 0.87  | 16.20 | 14        | 1700 | 2.64  | 16.20 | 3.6      | 1700 | 0.66  | 16.20 |
| <b>M0842</b> | 225 | 228.9 | 6.3       | 1700 | 1.19  | 16.20 | 4.2      | 1700 | 0.79  | 16.20 | 13        | 1700 | 2.39  | 16.20 | 3.2      | 1700 | 0.60  | 16.20 |
|              | 250 | 259.0 | 5.6       | 1700 | 1.05  | 16.20 | 3.7      | 1700 | 0.70  | 16.20 | 11        | 1700 | 2.11  | 16.20 | 2.8      | 1700 | 0.53  | 16.20 |
|              | 280 | 301.2 | 4.8       | 1700 | 0.91  | 16.20 | 3.2      | 1700 | 0.60  | 16.20 | 10        | 1700 | 1.81  | 16.20 | 2.4      | 1700 | 0.45  | 16.20 |
|              | 300 | 337.0 | 4.3       | 1700 | 0.81  | 16.20 | 2.8      | 1700 | 0.54  | 16.20 | 8.6       | 1700 | 1.62  | 16.20 | 2.2      | 1700 | 0.41  | 16.20 |
|              | 360 | 359.2 | 4.0       | 1700 | 0.76  | 16.20 | 2.7      | 1700 | 0.50  | 16.20 | 8.1       | 1700 | 1.52  | 16.20 | 2.0      | 1700 | 0.38  | 16.20 |
|              | 400 | 425.7 | 3.4       | 1700 | 0.64  | 16.20 | 2.3      | 1700 | 0.42  | 16.20 | 6.8       | 1700 | 1.28  | 16.20 | 1.7      | 1700 | 0.32  | 16.20 |
|              | 450 | 480.5 | 3.0       | 1700 | 0.57  | 16.20 | 2.0      | 1700 | 0.38  | 16.20 | 6.0       | 1700 | 1.14  | 16.20 | 1.5      | 1700 | 0.28  | 16.20 |
|              | 500 | 513.0 | 2.8       | 1700 | 0.53  | 16.20 | 1.9      | 1700 | 0.35  | 16.20 | 5.7       | 1700 | 1.06  | 16.20 | 1.4      | 1700 | 0.27  | 16.20 |
|              | 650 | 621.9 | 2.3       | 1700 | 0.44  | 16.20 | 1.5      | 1700 | 0.29  | 16.20 | 4.7       | 1700 | 0.88  | 16.20 | 1.2      | 1700 | 0.22  | 16.20 |
|              | 730 | 771.8 | 1.9       | 1700 | 0.35  | 16.20 | 1.2      | 1700 | 0.23  | 16.20 | 3.8       | 1700 | 0.71  | 16.20 | 0.9      | 1700 | 0.18  | 16.20 |
|              | 860 | 900.0 | 1.6       | 1700 | 0.30  | 16.20 | 1.1      | 1700 | 0.20  | 16.20 | 3.2       | 1700 | 0.61  | 16.20 | 0.81     | 1700 | 0.15  | 16.20 |
|              | 10C | 1061  | 1.4       | 1700 | 0.26  | 16.20 | 0.90     | 1700 | 0.17  | 16.20 | 2.7       | 1700 | 0.51  | 16.20 | 0.68     | 1700 | 0.13  | 16.20 |
|              | 11C | 1166  | 1.2       | 1700 | 0.23  | 16.20 | 0.82     | 1700 | 0.16  | 16.20 | 2.5       | 1700 | 0.47  | 16.20 | 0.62     | 1700 | 0.12  | 16.20 |
|              | 13C | 1277  | 1.1       | 1700 | 0.21  | 16.20 | 0.75     | 1700 | 0.14  | 16.20 | 2.3       | 1700 | 0.43  | 16.20 | 0.57     | 1700 | 0.11  | 16.20 |
|              | 15C | 1564  | 0.93      | 1700 | 0.17  | 16.20 | 0.61     | 1700 | 0.12  | 16.20 | 1.9       | 1700 | 0.35  | 16.20 | 0.46     | 1700 | 0.087 | 16.20 |
|              | 18C | 1917  | 0.76      | 1700 | 0.14  | 16.20 | 0.50     | 1700 | 0.09  | 16.20 | 1.5       | 1700 | 0.28  | 16.20 | 0.38     | 1700 | 0.071 | 16.20 |
|              | 20C | 2094  | 0.69      | 1700 | 0.13  | 16.20 | 0.46     | 1700 | 0.086 | 16.20 | 1.4       | 1700 | 0.26  | 16.20 | 0.35     | 1700 | 0.065 | 16.20 |
|              | 24C | 2333  | 0.62      | 1700 | 0.12  | 16.20 | 0.41     | 1700 | 0.077 | 16.20 | 1.2       | 1700 | 0.23  | 16.20 | 0.31     | 1700 | 0.059 | 16.20 |
|              | 27C | 2617  | 0.55      | 1700 | 0.10  | 16.20 | 0.37     | 1700 | 0.069 | 16.20 | 1.1       | 1700 | 0.21  | 16.20 | 0.28     | 1700 | 0.052 | 16.20 |
| <b>M0852</b> | 27C | 2728  | 0.53      | 1700 | 0.10  | 16.20 | 0.35     | 1700 | 0.067 | 16.20 | 1.1       | 1700 | 0.20  | 16.20 | 0.27     | 1700 | 0.050 | 16.20 |
|              | 32C | 3274  | 0.44      | 1700 | 0.084 | 16.20 | 0.29     | 1700 | 0.056 | 16.20 | 0.89      | 1700 | 0.17  | 16.20 | 0.22     | 1700 | 0.042 | 16.20 |
|              | 36C | 3818  | 0.38      | 1700 | 0.072 | 16.20 | 0.25     | 1700 | 0.048 | 16.20 | 0.76      | 1700 | 0.14  | 16.20 | 0.19     | 1700 | 0.036 | 16.20 |
|              | 40C | 4302  | 0.34      | 1700 | 0.064 | 16.20 | 0.22     | 1700 | 0.042 | 16.20 | 0.67      | 1700 | 0.13  | 16.20 | 0.17     | 1700 | 0.032 | 16.20 |
|              | 46C | 4726  | 0.31      | 1700 | 0.058 | 16.20 | 0.20     | 1700 | 0.038 | 16.20 | 0.61      | 1700 | 0.12  | 16.20 | 0.15     | 1700 | 0.029 | 16.20 |
|              | 55C | 5494  | 0.26      | 1700 | 0.050 | 16.20 | 0.17     | 1700 | 0.033 | 16.20 | 0.53      | 1700 | 0.10  | 16.20 | 0.13     | 1700 | 0.025 | 16.20 |
|              | 65C | 6733  | 0.22      | 1700 | 0.041 | 16.20 | 0.14     | 1700 | 0.027 | 16.20 | 0.43      | 1700 | 0.082 | 16.20 | 0.11     | 1700 | 0.020 | 16.20 |
|              | 74C | 7641  | 0.19      | 1700 | 0.036 | 16.20 | 0.13     | 1700 | 0.024 | 16.20 | 0.38      | 1700 | 0.072 | 16.20 | 0.095    | 1700 | 0.018 | 16.20 |
|              | 84C | 8344  | 0.17      | 1700 | 0.033 | 16.20 | 0.12     | 1700 | 0.022 | 16.20 | 0.35      | 1700 | 0.066 | 16.20 | 0.087    | 1700 | 0.016 | 16.20 |
|              | 95C | 9486  | 0.15      | 1700 | 0.029 | 16.20 | 0.10     | 1700 | 0.019 | 16.20 | 0.31      | 1700 | 0.058 | 16.20 | 0.076    | 1700 | 0.014 | 16.20 |
|              | 10K | 10924 | 0.13      | 1700 | 0.025 | 16.20 | 0.088    | 1700 | 0.017 | 16.20 | 0.27      | 1700 | 0.050 | 16.20 | 0.066    | 1700 | 0.013 | 16.20 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              |     |       | n1 = 1450 |      |       |       | n1 = 960 |      |       |       | n1 = 2900 |      |       |       | n1 = 725 |      |       |       |
|--------------|-----|-------|-----------|------|-------|-------|----------|------|-------|-------|-----------|------|-------|-------|----------|------|-------|-------|
|              | in  | i     | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   |
| <b>M0922</b> | 3.6 | 3.685 | 393       | 1420 | 59.70 | 13.20 | 261      | 1610 | 44.82 | 12.50 | 787       | 1130 | 95.02 | 9.54  | 197      | 1750 | 36.79 | 12.40 |
|              | 5.0 | 5.073 | 286       | 1610 | 49.17 | 12.10 | 189      | 1830 | 37.00 | 11.90 | 572       | 1310 | 80.02 | 10.10 | 143      | 1990 | 30.39 | 12.10 |
|              | 5.6 | 5.686 | 255       | 1680 | 45.78 | 11.90 | 169      | 1910 | 34.46 | 11.90 | 510       | 1370 | 74.66 | 10.40 | 128      | 2070 | 28.20 | 12.10 |
|              | 6.3 | 6.382 | 227       | 1760 | 42.73 | 11.70 | 150      | 1990 | 31.98 | 11.80 | 454       | 1420 | 68.94 | 10.80 | 114      | 2160 | 26.22 | 12.00 |
|              | 8.0 | 8.224 | 176       | 1920 | 36.17 | 11.40 | 117      | 2170 | 27.07 | 11.70 | 353       | 1560 | 58.78 | 11.60 | 88       | 2360 | 22.23 | 11.80 |
|              | 9.0 | 9.188 | 158       | 2000 | 33.72 | 11.40 | 104      | 2260 | 25.23 | 11.60 | 316       | 1620 | 54.63 | 11.60 | 79       | 2460 | 20.74 | 11.70 |
|              | 11. | 11.47 | 126       | 2150 | 29.04 | 11.30 | 84       | 2440 | 21.82 | 11.50 | 253       | 1750 | 47.28 | 11.30 | 63       | 2650 | 17.90 | 11.80 |
|              | 12. | 12.74 | 114       | 2230 | 27.12 | 11.30 | 75       | 2520 | 20.29 | 11.40 | 228       | 1810 | 44.02 | 11.10 | 57       | 2740 | 16.66 | 12.20 |
|              | 14. | 14.53 | 100       | 2330 | 24.84 | 11.30 | 66       | 2630 | 18.57 | 11.40 | 200       | 1890 | 40.31 | 10.90 | 50       | 2860 | 15.25 | 12.80 |
|              | 16. | 16.34 | 89        | 2450 | 23.23 | 10.90 | 59       | 2770 | 17.39 | 11.50 | 177       | 1990 | 37.74 | 10.70 | 44       | 3020 | 14.32 | 12.90 |
|              | 18. | 18.50 | 78        | 2520 | 21.10 | 11.10 | 52       | 2850 | 15.80 | 12.40 | 157       | 2040 | 34.17 | 11.00 | 39       | 3100 | 12.98 | 13.90 |
|              | 20. | 20.59 | 70        | 2600 | 19.56 | 11.10 | 47       | 2950 | 14.70 | 12.90 | 141       | 2110 | 31.75 | 11.00 | 35       | 3100 | 11.66 | 15.20 |
|              | 22. | 22.87 | 63        | 2690 | 18.22 | 11.30 | 42       | 3050 | 13.68 | 13.40 | 127       | 2190 | 29.67 | 10.90 | 32       | 3110 | 10.53 | 17.10 |
|              | 28. | 27.98 | 52        | 2870 | 15.89 | 12.20 | 34       | 3110 | 11.40 | 14.90 | 104       | 2280 | 25.25 | 11.40 | 26       | 3110 | 8.61  | 19.50 |
|              | 32. | 32.31 | 45        | 2940 | 14.10 | 13.50 | 30       | 3110 | 9.87  | 17.00 | 90        | 2330 | 22.35 | 12.00 | 22       | 3110 | 7.46  | 19.80 |
|              | 36. | 35.67 | 41        | 2970 | 12.90 | 14.70 | 27       | 3110 | 8.94  | 18.70 | 81        | 2350 | 20.41 | 12.50 | 20       | 3110 | 6.75  | 19.80 |
|              | 45. | 43.35 | 33        | 3060 | 10.94 | 16.80 | 22       | 3110 | 7.36  | 16.90 | 67        | 2420 | 17.30 | 13.30 | 17       | 3110 | 5.56  | 16.70 |
|              | 50. | 49.07 | 30        | 2860 | 9.03  | 20.50 | 20       | 2860 | 5.98  | 20.50 | 59        | 2430 | 15.34 | 14.90 | 15       | 2870 | 4.53  | 20.50 |
|              | 56. | 55.18 | 26        | 2650 | 7.44  | 20.50 | 17       | 2650 | 4.93  | 20.50 | 53        | 2430 | 13.65 | 16.50 | 13       | 2650 | 3.72  | 20.50 |
| <b>M0932</b> | 56. | 59.07 | 25        | 3110 | 8.24  | 20.50 | 16       | 3110 | 5.46  | 20.50 | 49        | 2660 | 14.10 | 15.10 | 12       | 3110 | 4.12  | 20.50 |
|              | 63. | 64.64 | 22        | 3110 | 7.53  | 20.50 | 15       | 3110 | 4.99  | 20.50 | 45        | 2730 | 13.22 | 15.70 | 11       | 3110 | 3.77  | 20.50 |
|              | 71. | 73.13 | 20        | 3110 | 6.66  | 20.50 | 13       | 3110 | 4.41  | 20.50 | 40        | 2830 | 12.11 | 16.40 | 9.9      | 3110 | 3.33  | 20.50 |
|              | 80. | 82.55 | 18        | 3110 | 5.90  | 20.50 | 12       | 3110 | 3.90  | 20.50 | 35        | 2940 | 11.15 | 17.20 | 8.8      | 3110 | 2.95  | 20.50 |
|              | 100 | 100.1 | 14        | 3110 | 4.86  | 20.50 | 9.6      | 3110 | 3.22  | 20.50 | 29        | 3110 | 9.73  | 18.60 | 7.2      | 3110 | 2.43  | 20.50 |
|              | 112 | 116.7 | 12        | 3110 | 4.17  | 20.50 | 8.2      | 3110 | 2.76  | 20.50 | 25        | 3110 | 8.34  | 20.50 | 6.2      | 3110 | 2.09  | 20.50 |
|              | 125 | 128.2 | 11        | 3110 | 3.80  | 20.50 | 7.5      | 3110 | 2.51  | 20.50 | 23        | 3110 | 7.59  | 20.50 | 5.7      | 3110 | 1.90  | 20.50 |
|              | 160 | 157.1 | 9.2       | 3110 | 3.10  | 20.50 | 6.1      | 3110 | 2.05  | 20.50 | 18        | 3110 | 6.20  | 20.50 | 4.6      | 3110 | 1.55  | 20.50 |
|              | 180 | 171.6 | 8.4       | 3110 | 2.84  | 20.50 | 5.6      | 3110 | 1.88  | 20.50 | 17        | 3110 | 5.67  | 20.50 | 4.2      | 3110 | 1.42  | 20.50 |
|              | 200 | 197.5 | 7.3       | 3110 | 2.46  | 20.50 | 4.9      | 3110 | 1.63  | 20.50 | 15        | 3110 | 4.93  | 20.50 | 3.7      | 3110 | 1.23  | 20.50 |
| <b>M0942</b> | 225 | 231.8 | 6.3       | 3110 | 2.16  | 20.50 | 4.1      | 3110 | 1.43  | 20.50 | 13        | 3110 | 4.31  | 20.50 | 3.1      | 3110 | 1.08  | 20.50 |
|              | 250 | 258.1 | 5.6       | 3110 | 1.94  | 20.50 | 3.7      | 3110 | 1.28  | 20.50 | 11        | 3110 | 3.87  | 20.50 | 2.8      | 3110 | 0.97  | 20.50 |
|              | 280 | 286.7 | 5.1       | 3110 | 1.74  | 20.50 | 3.3      | 3110 | 1.15  | 20.50 | 10        | 3110 | 3.49  | 20.50 | 2.5      | 3110 | 0.87  | 20.50 |
|              | 300 | 300.2 | 4.8       | 3110 | 1.66  | 20.50 | 3.2      | 3110 | 1.10  | 20.50 | 9.7       | 3110 | 3.33  | 20.50 | 2.4      | 3110 | 0.83  | 20.50 |
|              | 360 | 358.0 | 4.1       | 3110 | 1.40  | 20.50 | 2.7      | 3110 | 0.92  | 20.50 | 8.1       | 3110 | 2.79  | 20.50 | 2.0      | 3110 | 0.70  | 20.50 |
|              | 400 | 397.7 | 3.6       | 3110 | 1.26  | 20.50 | 2.4      | 3110 | 0.83  | 20.50 | 7.3       | 3110 | 2.51  | 20.50 | 1.8      | 3110 | 0.63  | 20.50 |
|              | 450 | 452.9 | 3.2       | 3110 | 1.10  | 20.50 | 2.1      | 3110 | 0.73  | 20.50 | 6.4       | 3110 | 2.21  | 20.50 | 1.6      | 3110 | 0.55  | 20.50 |
|              | 500 | 503.2 | 2.9       | 3110 | 0.99  | 20.50 | 1.9      | 3110 | 0.66  | 20.50 | 5.8       | 3110 | 1.99  | 20.50 | 1.4      | 3110 | 0.50  | 20.50 |
|              | 650 | 665.8 | 2.2       | 3110 | 0.75  | 20.50 | 1.4      | 3110 | 0.50  | 20.50 | 4.4       | 3110 | 1.50  | 20.50 | 1.1      | 3110 | 0.38  | 20.50 |
|              | 730 | 736.4 | 2.0       | 3110 | 0.68  | 20.50 | 1.3      | 3110 | 0.45  | 20.50 | 3.9       | 3110 | 1.36  | 20.50 | 0.98     | 3110 | 0.34  | 20.50 |
|              | 860 | 882.1 | 1.6       | 3110 | 0.57  | 20.50 | 1.1      | 3110 | 0.38  | 20.50 | 3.3       | 3110 | 1.13  | 20.50 | 0.82     | 3110 | 0.28  | 20.50 |
|              | 10C | 1040  | 1.4       | 3110 | 0.48  | 20.50 | 0.92     | 3110 | 0.32  | 20.50 | 2.8       | 3110 | 0.96  | 20.50 | 0.70     | 3110 | 0.24  | 20.50 |
|              | 11C | 1139  | 1.3       | 3110 | 0.44  | 20.50 | 0.84     | 3110 | 0.29  | 20.50 | 2.5       | 3110 | 0.88  | 20.50 | 0.64     | 3110 | 0.22  | 20.50 |
|              | 13C | 1257  | 1.2       | 3110 | 0.40  | 20.50 | 0.76     | 3110 | 0.26  | 20.50 | 2.3       | 3110 | 0.79  | 20.50 | 0.58     | 3110 | 0.20  | 20.50 |
|              | 15C | 1528  | 0.95      | 3110 | 0.33  | 20.50 | 0.63     | 3110 | 0.22  | 20.50 | 1.9       | 3110 | 0.65  | 20.50 | 0.47     | 3110 | 0.16  | 20.50 |
|              | 18C | 1873  | 0.77      | 3110 | 0.27  | 20.50 | 0.51     | 3110 | 0.18  | 20.50 | 1.5       | 3110 | 0.53  | 20.50 | 0.39     | 3110 | 0.13  | 20.50 |
|              | 20C | 2087  | 0.69      | 3110 | 0.24  | 20.50 | 0.46     | 3110 | 0.16  | 20.50 | 1.4       | 3110 | 0.48  | 20.50 | 0.35     | 3110 | 0.12  | 20.50 |
|              | 24C | 2341  | 0.62      | 3110 | 0.21  | 20.50 | 0.41     | 3110 | 0.14  | 20.50 | 1.2       | 3110 | 0.43  | 20.50 | 0.31     | 3110 | 0.11  | 20.50 |
|              | 27C | 2650  | 0.55      | 3110 | 0.19  | 20.50 | 0.36     | 3110 | 0.12  | 20.50 | 1.1       | 3110 | 0.38  | 20.50 | 0.27     | 3110 | 0.094 | 20.50 |
| <b>M0952</b> | 27C | 2700  | 0.54      | 3110 | 0.19  | 20.50 | 0.36     | 3110 | 0.12  | 20.50 | 1.1       | 3110 | 0.37  | 20.50 | 0.27     | 3110 | 0.093 | 20.50 |
|              | 32C | 3240  | 0.45      | 3110 | 0.16  | 20.50 | 0.30     | 3110 | 0.10  | 20.50 | 0.90      | 3110 | 0.31  | 20.50 | 0.22     | 3110 | 0.078 | 20.50 |
|              | 36C | 3651  | 0.40      | 3110 | 0.14  | 20.50 | 0.26     | 3110 | 0.091 | 20.50 | 0.79      | 3110 | 0.28  | 20.50 | 0.20     | 3110 | 0.069 | 20.50 |
|              | 40C | 4131  | 0.35      | 3110 | 0.12  | 20.50 | 0.23     | 3110 | 0.081 | 20.50 | 0.70      | 3110 | 0.24  | 20.50 | 0.18     | 3110 | 0.061 | 20.50 |
|              | 46C | 4655  | 0.31      | 3110 | 0.11  | 20.50 | 0.21     | 3110 | 0.071 | 20.50 | 0.62      | 3110 | 0.22  | 20.50 | 0.16     | 3110 | 0.054 | 20.50 |
|              | 55C | 5563  | 0.26      | 3110 | 0.090 | 20.50 | 0.17     | 3110 | 0.060 | 20.50 | 0.52      | 3110 | 0.18  | 20.50 | 0.13     | 3110 | 0.045 | 20.50 |
|              | 65C | 6577  | 0.22      | 3110 | 0.076 | 20.50 | 0.15     | 3110 | 0.051 | 20.50 | 0.44      | 3110 | 0.15  | 20.50 | 0.11     | 3110 | 0.038 | 20.50 |
|              | 74C | 7444  | 0.19      | 3110 | 0.067 | 20.50 | 0.13     | 3110 | 0.045 | 20.50 | 0.39      | 3110 | 0.13  | 20.50 | 0.097    | 3110 | 0.034 | 20.50 |
|              | 84C | 8449  | 0.17      | 3110 | 0.059 | 20.50 | 0.11     | 3110 | 0.039 | 20.50 | 0.34      | 3110 | 0.12  | 20.50 | 0.086    | 3110 | 0.030 | 20.50 |
|              | 95C | 9605  | 0.15      | 3110 | 0.052 | 20.50 | 0.10     | 3110 | 0.035 | 20.50 | 0.30      | 3110 | 0.10  | 20.50 | 0.075    | 3110 | 0.026 | 20.50 |
|              | 10K | 10801 | 0.13      | 3110 | 0.047 | 20.50 | 0.089    | 3110 | 0.031 | 20.50 | 0.27      | 3110 | 0.093 | 20.50 | 0.067    | 3110 | 0.023 | 20.50 |

Thermal rating should be checked (Refer page no. 112).



Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |      |       |       | n1 = 960 |      |       |       | n1 = 2900 |      |        |       | n1 = 725 |      |       |       |
|-------|-----|-------|-----------|------|-------|-------|----------|------|-------|-------|-----------|------|--------|-------|----------|------|-------|-------|
|       | in  | i     | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   | n2        | M2   | Pm     | Fra   | n2       | M2   | Pm    | Fra   |
| M1022 | 3.6 | 3.54  | 410       | 1760 | 77.14 | 20.70 | 272      | 1770 | 51.36 | 23.50 | 820       | 1760 | 154.27 | 13.30 | 205      | 1770 | 38.79 | 24.70 |
|       | 5.0 | 4.94  | 294       | 2470 | 77.50 | 21.90 | 194      | 2470 | 51.31 | 21.60 | 587       | 2260 | 141.82 | 12.00 | 147      | 2470 | 38.75 | 24.10 |
|       | 5.6 | 5.37  | 270       | 2690 | 77.61 | 20.80 | 179      | 2690 | 51.38 | 20.10 | 540       | 2340 | 135.02 | 12.20 | 135      | 2690 | 38.80 | 22.80 |
|       | 6.3 | 6.10  | 238       | 3020 | 76.70 | 19.00 | 157      | 3050 | 51.29 | 17.70 | 475       | 2450 | 124.45 | 12.60 | 119      | 3060 | 38.86 | 20.60 |
|       | 8.0 | 7.95  | 183       | 3330 | 64.94 | 14.30 | 121      | 3760 | 48.54 | 13.40 | 365       | 2700 | 105.30 | 13.60 | 91       | 3980 | 38.81 | 14.40 |
|       | 9.0 | 8.58  | 169       | 3420 | 61.77 | 13.40 | 112      | 3870 | 46.28 | 13.20 | 338       | 2780 | 100.42 | 13.90 | 85       | 4210 | 38.02 | 13.00 |
|       | 11. | 11.02 | 132       | 3730 | 52.44 | 12.90 | 87       | 4220 | 39.28 | 12.60 | 263       | 3020 | 84.92  | 14.10 | 66       | 4590 | 32.27 | 12.30 |
|       | 12. | 12.51 | 116       | 3890 | 48.18 | 12.70 | 77       | 4400 | 36.08 | 12.30 | 232       | 3160 | 78.27  | 13.70 | 58       | 4790 | 29.66 | 11.90 |
|       | 14. | 14.16 | 102       | 4050 | 44.31 | 12.40 | 68       | 4590 | 33.25 | 11.90 | 205       | 3290 | 71.99  | 13.20 | 51       | 4850 | 26.53 | 13.70 |
|       | 16. | 15.98 | 91        | 3670 | 35.58 | 17.50 | 60       | 3670 | 23.56 | 22.30 | 181       | 3470 | 67.29  | 12.20 | 45       | 3680 | 17.84 | 27.80 |
|       | 18. | 17.75 | 82        | 4090 | 35.70 | 14.60 | 54       | 4090 | 23.64 | 20.10 | 163       | 3540 | 61.80  | 12.50 | 41       | 4090 | 17.85 | 26.00 |
|       | 20. | 19.41 | 75        | 4460 | 35.60 | 11.90 | 49       | 4470 | 23.62 | 18.20 | 149       | 3650 | 58.27  | 12.40 | 37       | 4470 | 17.84 | 24.30 |
|       | 22. | 21.57 | 67        | 4650 | 33.40 | 11.40 | 45       | 4690 | 22.30 | 18.20 | 134       | 3770 | 54.16  | 12.20 | 34       | 4690 | 16.84 | 24.50 |
|       | 28. | 25.49 | 57        | 4700 | 28.57 | 13.10 | 38       | 4700 | 18.91 | 21.80 | 114       | 3980 | 48.38  | 12.00 | 28       | 4700 | 14.28 | 28.50 |
|       | 32. | 30.76 | 47        | 5000 | 25.18 | 13.70 | 31       | 5000 | 16.67 | 23.00 | 94        | 4220 | 42.51  | 11.70 | 24       | 5000 | 12.59 | 30.00 |
|       | 36. | 35.44 | 41        | 5000 | 21.86 | 16.80 | 27       | 5000 | 14.47 | 26.50 | 82        | 4410 | 38.56  | 11.40 | 20       | 5000 | 10.93 | 30.00 |
|       | 45. | 41.12 | 35        | 5000 | 18.84 | 20.10 | 23       | 5000 | 12.47 | 30.00 | 71        | 4640 | 34.96  | 10.90 | 18       | 5000 | 9.42  | 30.00 |
|       | 50. | 47.93 | 30        | 4260 | 13.77 | 30.00 | 20       | 4260 | 9.12  | 30.00 | 61        | 4250 | 27.48  | 16.60 | 15       | 4260 | 6.89  | 30.00 |
|       | 56. | 51.49 | 28        | 3870 | 11.64 | 30.00 | 19       | 3870 | 7.71  | 30.00 | 56        | 3870 | 23.29  | 21.50 | 14       | 3870 | 5.82  | 30.00 |
| M1032 | 56. | 57.63 | 25        | 4780 | 12.98 | 30.00 | 17       | 4780 | 8.60  | 30.00 | 50        | 3920 | 21.29  | 23.20 | 13       | 4780 | 6.49  | 30.00 |
|       | 63. | 65.24 | 22        | 4780 | 11.47 | 30.00 | 15       | 4780 | 7.59  | 30.00 | 44        | 4070 | 19.53  | 24.30 | 11       | 4780 | 5.73  | 30.00 |
|       | 71. | 72.62 | 20        | 4780 | 10.30 | 30.00 | 13       | 4780 | 6.82  | 30.00 | 40        | 4200 | 18.11  | 25.40 | 10       | 4780 | 5.15  | 30.00 |
|       | 80. | 80.68 | 18        | 4780 | 9.27  | 30.00 | 12       | 4780 | 6.14  | 30.00 | 36        | 4340 | 16.84  | 26.40 | 9.0      | 4780 | 4.64  | 30.00 |
|       | 100 | 98.68 | 15        | 4780 | 7.58  | 30.00 | 9.7      | 4780 | 5.02  | 30.00 | 29        | 4610 | 14.62  | 28.60 | 7.3      | 4780 | 3.79  | 30.00 |
|       | 112 | 114.0 | 13        | 4780 | 6.56  | 30.00 | 8.4      | 4780 | 4.35  | 30.00 | 25        | 4780 | 13.13  | 30.00 | 6.4      | 4780 | 3.28  | 30.00 |
|       | 125 | 125.8 | 12        | 4780 | 5.95  | 30.00 | 7.6      | 4780 | 3.94  | 30.00 | 23        | 4780 | 11.90  | 30.00 | 5.8      | 4780 | 2.97  | 30.00 |
|       | 160 | 152.9 | 9.5       | 4780 | 4.89  | 30.00 | 6.3      | 4780 | 3.24  | 30.00 | 19        | 4780 | 9.79   | 30.00 | 4.7      | 4780 | 2.45  | 30.00 |
|       | 180 | 173.1 | 8.4       | 4780 | 4.32  | 30.00 | 5.5      | 4780 | 2.86  | 30.00 | 17        | 4780 | 8.64   | 30.00 | 4.2      | 4780 | 2.16  | 30.00 |
|       | 200 | 194.6 | 7.5       | 4780 | 3.84  | 30.00 | 4.9      | 4780 | 2.55  | 30.00 | 15        | 4780 | 7.69   | 30.00 | 3.7      | 4780 | 1.92  | 30.00 |
| M1042 | 225 | 220.2 | 6.6       | 4780 | 3.49  | 30.00 | 4.4      | 4780 | 2.31  | 30.00 | 13        | 4780 | 6.97   | 30.00 | 3.3      | 4780 | 1.74  | 30.00 |
|       | 250 | 254.6 | 5.7       | 4780 | 3.02  | 30.00 | 3.8      | 4780 | 2.00  | 30.00 | 11        | 4780 | 6.03   | 30.00 | 2.8      | 4780 | 1.51  | 30.00 |
|       | 280 | 278.4 | 5.2       | 4780 | 2.76  | 30.00 | 3.4      | 4780 | 1.83  | 30.00 | 10        | 4780 | 5.52   | 30.00 | 2.6      | 4780 | 1.38  | 30.00 |
|       | 300 | 309.3 | 4.7       | 4780 | 2.48  | 30.00 | 3.1      | 4780 | 1.64  | 30.00 | 9.4       | 4780 | 4.97   | 30.00 | 2.3      | 4780 | 1.24  | 30.00 |
|       | 360 | 365.6 | 4.0       | 4780 | 2.10  | 30.00 | 2.6      | 4780 | 1.39  | 30.00 | 7.9       | 4780 | 4.20   | 30.00 | 2.0      | 4780 | 1.05  | 30.00 |
|       | 400 | 398.7 | 3.6       | 4780 | 1.93  | 30.00 | 2.4      | 4780 | 1.28  | 30.00 | 7.3       | 4780 | 3.85   | 30.00 | 1.8      | 4780 | 0.96  | 30.00 |
|       | 450 | 457.2 | 3.2       | 4780 | 1.68  | 30.00 | 2.1      | 4780 | 1.11  | 30.00 | 6.3       | 4780 | 3.36   | 30.00 | 1.6      | 4780 | 0.84  | 30.00 |
|       | 500 | 500.9 | 2.9       | 4780 | 1.53  | 30.00 | 1.9      | 4780 | 1.02  | 30.00 | 5.8       | 4780 | 3.07   | 30.00 | 1.4      | 4780 | 0.77  | 30.00 |
|       | 650 | 635.7 | 2.3       | 4780 | 1.21  | 30.00 | 1.5      | 4780 | 0.80  | 30.00 | 4.6       | 4780 | 2.42   | 30.00 | 1.1      | 4780 | 0.60  | 30.00 |
|       | 730 | 728.0 | 2.0       | 4780 | 1.05  | 30.00 | 1.3      | 4780 | 0.70  | 30.00 | 4.0       | 4780 | 2.11   | 30.00 | 1.0      | 4780 | 0.53  | 30.00 |
|       | 860 | 844.7 | 1.7       | 4780 | 0.91  | 30.00 | 1.1      | 4780 | 0.60  | 30.00 | 3.4       | 4780 | 1.82   | 30.00 | 0.86     | 4780 | 0.45  | 30.00 |
|       | 10C | 987.8 | 1.5       | 4780 | 0.78  | 30.00 | 0.97     | 4780 | 0.51  | 30.00 | 2.9       | 4780 | 1.55   | 30.00 | 0.73     | 4780 | 0.39  | 30.00 |
|       | 11C | 1107  | 1.3       | 4780 | 0.69  | 30.00 | 0.87     | 4780 | 0.46  | 30.00 | 2.6       | 4780 | 1.39   | 30.00 | 0.65     | 4780 | 0.35  | 30.00 |
|       | 13C | 1321  | 1.1       | 4780 | 0.58  | 30.00 | 0.73     | 4780 | 0.38  | 30.00 | 2.2       | 4780 | 1.16   | 30.00 | 0.55     | 4780 | 0.29  | 30.00 |
|       | 15C | 1496  | 0.97      | 4780 | 0.51  | 30.00 | 0.64     | 4780 | 0.34  | 30.00 | 1.9       | 4780 | 1.03   | 30.00 | 0.48     | 4780 | 0.26  | 30.00 |
|       | 18C | 1736  | 0.84      | 4780 | 0.44  | 30.00 | 0.55     | 4780 | 0.29  | 30.00 | 1.7       | 4780 | 0.88   | 30.00 | 0.42     | 4780 | 0.22  | 30.00 |
|       | 20C | 1997  | 0.73      | 4780 | 0.38  | 30.00 | 0.48     | 4780 | 0.25  | 30.00 | 1.5       | 4780 | 0.77   | 30.00 | 0.36     | 4780 | 0.19  | 30.00 |
|       | 24C | 2327  | 0.62      | 4780 | 0.33  | 30.00 | 0.41     | 4780 | 0.22  | 30.00 | 1.2       | 4780 | 0.66   | 30.00 | 0.31     | 4780 | 0.16  | 30.00 |
|       | 27C | 2778  | 0.52      | 4780 | 0.28  | 30.00 | 0.35     | 4780 | 0.18  | 30.00 | 1.0       | 4780 | 0.55   | 30.00 | 0.26     | 4780 | 0.14  | 30.00 |
| M1052 | 27C | 2748  | 0.53      | 4780 | 0.28  | 30.00 | 0.35     | 4780 | 0.19  | 30.00 | 1.1       | 4780 | 0.56   | 30.00 | 0.26     | 4780 | 0.14  | 30.00 |
|       | 32C | 3247  | 0.45      | 4780 | 0.24  | 30.00 | 0.30     | 4780 | 0.16  | 30.00 | 0.89      | 4780 | 0.48   | 30.00 | 0.22     | 4780 | 0.12  | 30.00 |
|       | 36C | 3578  | 0.41      | 4780 | 0.22  | 30.00 | 0.27     | 4780 | 0.14  | 30.00 | 0.81      | 4780 | 0.43   | 30.00 | 0.20     | 4780 | 0.11  | 30.00 |
|       | 40C | 3979  | 0.36      | 4780 | 0.19  | 30.00 | 0.24     | 4780 | 0.13  | 30.00 | 0.73      | 4780 | 0.39   | 30.00 | 0.18     | 4780 | 0.097 | 30.00 |
|       | 46C | 4515  | 0.32      | 4780 | 0.17  | 30.00 | 0.21     | 4780 | 0.11  | 30.00 | 0.64      | 4780 | 0.34   | 30.00 | 0.16     | 4780 | 0.086 | 30.00 |
|       | 55C | 5533  | 0.26      | 4780 | 0.14  | 30.00 | 0.17     | 4780 | 0.092 | 30.00 | 0.52      | 4780 | 0.28   | 30.00 | 0.13     | 4780 | 0.070 | 30.00 |
|       | 65C | 6420  | 0.23      | 4780 | 0.12  | 30.00 | 0.15     | 4780 | 0.080 | 30.00 | 0.45      | 4780 | 0.24   | 30.00 | 0.11     | 4780 | 0.060 | 30.00 |
|       | 74C | 7483  | 0.19      | 4780 | 0.10  | 30.00 | 0.13     | 4780 | 0.068 | 30.00 | 0.39      | 4780 | 0.21   | 30.00 | 0.097    | 4780 | 0.052 | 30.00 |
|       | 84C | 8340  | 0.17      | 4780 | 0.093 | 30.00 | 0.12     | 4780 | 0.061 | 30.00 | 0.35      | 4780 | 0.19   | 30.00 | 0.087    | 4780 | 0.046 | 30.00 |
|       | 95C | 9353  | 0.16      | 4780 | 0.083 | 30.00 | 0.10     | 4780 | 0.055 | 30.00 | 0.31      | 4780 | 0.17   | 30.00 | 0.078    | 4780 | 0.041 | 30.00 |
|       | 10K | 10049 | 0.14      | 4780 | 0.077 | 30.00 | 0.096    | 4780 | 0.051 | 30.00 | 0.29      | 4780 | 0.15   | 30.00 | 0.072    | 4780 | 0.038 | 30.00 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|       |     |       | n1 = 1450 |      |       |       | n1 = 960 |      |       |       | n1 = 2900 |      |        |       | n1 = 725 |      |       |       |
|-------|-----|-------|-----------|------|-------|-------|----------|------|-------|-------|-----------|------|--------|-------|----------|------|-------|-------|
|       | in  | i     | n2        | M2   | Pm    | Fra   | n2       | M2   | Pm    | Fra   | n2        | M2   | Pm     | Fra   | n2       | M2   | Pm    | Fra   |
| M1322 | 3.6 | 3.793 | 382       | 2360 | 96.40 | 52.20 | 253      | 2360 | 63.82 | 55.00 | 765       | 2350 | 191.98 | 44.80 | 191      | 2360 | 48.20 | 55.00 |
|       | 5.0 | 5.257 | 276       | 3270 | 96.37 | 55.00 | 183      | 3270 | 63.80 | 55.00 | 552       | 3260 | 192.15 | 46.30 | 138      | 3270 | 48.19 | 55.00 |
|       | 5.6 | 5.774 | 251       | 3590 | 96.33 | 55.00 | 166      | 3590 | 63.78 | 55.00 | 502       | 3590 | 192.66 | 46.50 | 126      | 3590 | 48.16 | 55.00 |
|       | 6.3 | 6.349 | 228       | 3950 | 96.39 | 54.90 | 151      | 3950 | 63.82 | 55.00 | 457       | 3950 | 192.78 | 46.70 | 114      | 3950 | 48.19 | 55.00 |
|       | 8.0 | 8.111 | 179       | 5050 | 96.46 | 54.10 | 118      | 5050 | 63.86 | 55.00 | 358       | 5050 | 192.92 | 46.60 | 89       | 5050 | 48.23 | 55.00 |
|       | 9.0 | 8.985 | 161       | 5590 | 96.39 | 53.80 | 107      | 5590 | 63.82 | 55.00 | 323       | 5590 | 192.78 | 46.20 | 81       | 5590 | 48.20 | 48.00 |
|       | 11. | 11.81 | 123       | 7340 | 96.29 | 52.50 | 81       | 7350 | 63.84 | 46.10 | 246       | 7350 | 192.84 | 48.00 | 61       | 7350 | 48.21 | 46.10 |
|       | 12. | 12.92 | 112       | 7920 | 94.97 | 52.40 | 74       | 8030 | 63.75 | 44.90 | 224       | 7430 | 178.19 | 55.00 | 56       | 8040 | 48.21 | 44.70 |
|       | 14. | 14.63 | 99        | 8010 | 84.83 | 45.90 | 66       | 8220 | 57.63 | 44.30 | 198       | 7520 | 159.27 | 55.00 | 50       | 8220 | 43.52 | 44.30 |
|       | 16. | 16.12 | 90        | 8090 | 77.75 | 43.50 | 60       | 8420 | 53.58 | 43.90 | 180       | 7580 | 145.70 | 55.00 | 45       | 8550 | 41.09 | 43.60 |
|       | 18. | 18.02 | 80        | 8180 | 70.33 | 39.10 | 53       | 8410 | 47.87 | 43.90 | 161       | 7650 | 131.55 | 55.00 | 40       | 8410 | 36.15 | 43.90 |
|       | 20. | 20.86 | 70        | 8300 | 61.65 | 38.20 | 46       | 8650 | 42.53 | 43.40 | 139       | 7760 | 115.27 | 48.00 | 35       | 8900 | 33.05 | 42.90 |
|       | 22. | 23.51 | 62        | 8400 | 55.36 | 40.10 | 41       | 8750 | 38.18 | 43.20 | 123       | 7850 | 103.46 | 47.20 | 31       | 8880 | 29.26 | 42.90 |
|       | 28. | 27.08 | 54        | 8510 | 48.69 | 43.80 | 35       | 8890 | 33.67 | 42.90 | 107       | 7950 | 90.97  | 46.40 | 27       | 9150 | 26.17 | 42.30 |
|       | 32. | 33.25 | 44        | 8700 | 40.54 | 50.70 | 29       | 9080 | 28.01 | 42.40 | 87        | 8110 | 75.58  | 44.50 | 22       | 9360 | 21.81 | 41.90 |
|       | 36. | 37.03 | 39        | 8800 | 36.82 | 54.50 | 26       | 9190 | 25.46 | 42.20 | 78        | 8200 | 68.62  | 44.40 | 20       | 9470 | 19.81 | 41.60 |
|       | 45. | 43.25 | 34        | 7720 | 27.65 | 55.00 | 22       | 7720 | 18.31 | 45.40 | 67        | 7710 | 55.24  | 45.40 | 17       | 7720 | 13.83 | 45.40 |
|       | 50. | 50.70 | 29        | 5910 | 18.06 | 55.00 | 19       | 5910 | 11.96 | 55.00 | 57        | 5900 | 36.06  | 55.00 | 14       | 5910 | 9.03  | 55.00 |
|       | 56. | 53.94 | 27        | 6290 | 18.07 | 55.00 | 18       | 6290 | 11.96 | 55.00 | 54        | 6280 | 36.08  | 55.00 | 13       | 6290 | 9.03  | 55.00 |
| M1332 | 45. | 46.79 | 31        | 9010 | 30.14 | 55.00 | 21       | 9420 | 20.86 | 55.00 | 62        | 8100 | 54.19  | 43.50 | 15       | 9700 | 16.22 | 55.00 |
|       | 50. | 52.97 | 27        | 9130 | 26.98 | 55.00 | 18       | 9550 | 18.68 | 55.00 | 55        | 8440 | 49.88  | 55.00 | 14       | 9700 | 14.33 | 55.00 |
|       | 56. | 59.76 | 24        | 9230 | 24.18 | 55.00 | 16       | 9650 | 16.73 | 55.00 | 49        | 8660 | 45.37  | 55.00 | 12       | 9700 | 12.70 | 55.00 |
|       | 63. | 66.40 | 22        | 9360 | 22.06 | 55.00 | 14       | 9700 | 15.14 | 55.00 | 44        | 8700 | 41.02  | 55.00 | 11       | 9700 | 11.43 | 55.00 |
|       | 71. | 72.60 | 20        | 9470 | 20.42 | 55.00 | 13       | 9700 | 13.85 | 55.00 | 40        | 8770 | 37.82  | 55.00 | 10       | 9700 | 10.46 | 55.00 |
|       | 80. | 80.68 | 18        | 9570 | 18.57 | 55.00 | 12       | 9700 | 12.46 | 55.00 | 36        | 8880 | 34.46  | 55.00 | 9.0      | 9700 | 9.41  | 55.00 |
|       | 100 | 95.34 | 15        | 9700 | 15.93 | 55.00 | 10       | 9700 | 10.54 | 55.00 | 30        | 9030 | 29.65  | 55.00 | 7.6      | 9700 | 7.96  | 55.00 |
|       | 112 | 115.1 | 13        | 9700 | 13.19 | 55.00 | 8.3      | 9700 | 8.74  | 55.00 | 25        | 9210 | 25.05  | 55.00 | 6.3      | 9700 | 6.60  | 55.00 |
|       | 125 | 132.6 | 11        | 9700 | 11.45 | 55.00 | 7.2      | 9700 | 7.58  | 55.00 | 22        | 9350 | 22.08  | 55.00 | 5.5      | 9700 | 5.73  | 55.00 |
|       | 160 | 153.8 | 9.4       | 9700 | 9.87  | 55.00 | 6.2      | 9700 | 6.54  | 55.00 | 19        | 9500 | 19.34  | 55.00 | 4.7      | 9700 | 4.94  | 55.00 |
|       | 180 | 179.3 | 8.1       | 9700 | 8.47  | 55.00 | 5.4      | 9700 | 5.61  | 55.00 | 16        | 9660 | 16.87  | 55.00 | 4.0      | 9700 | 4.23  | 55.00 |
|       | 200 | 192.6 | 7.5       | 9700 | 7.88  | 55.00 | 5.0      | 9410 | 5.06  | 55.00 | 15        | 9700 | 15.77  | 55.00 | 3.8      | 9410 | 3.82  | 55.00 |
| M1342 | 225 | 224.9 | 6.4       | 9700 | 6.93  | 55.00 | 4.3      | 9700 | 4.59  | 55.00 | 13        | 9700 | 13.86  | 55.00 | 3.2      | 9700 | 3.47  | 55.00 |
|       | 250 | 258.4 | 5.6       | 9700 | 6.03  | 55.00 | 3.7      | 9700 | 3.99  | 55.00 | 11        | 9700 | 12.06  | 55.00 | 2.8      | 9700 | 3.02  | 55.00 |
|       | 280 | 289.2 | 5.0       | 9700 | 5.39  | 55.00 | 3.3      | 9700 | 3.57  | 55.00 | 10        | 9700 | 10.78  | 55.00 | 2.5      | 9700 | 2.69  | 55.00 |
|       | 300 | 323.2 | 4.5       | 9700 | 4.82  | 55.00 | 3.0      | 9700 | 3.19  | 55.00 | 9.0       | 9700 | 9.64   | 55.00 | 2.2      | 9700 | 2.41  | 55.00 |
|       | 360 | 370.1 | 3.9       | 9700 | 4.21  | 55.00 | 2.6      | 9700 | 2.79  | 55.00 | 7.8       | 9700 | 8.42   | 55.00 | 2.0      | 9700 | 2.11  | 55.00 |
|       | 400 | 418.5 | 3.5       | 9700 | 3.72  | 55.00 | 2.3      | 9700 | 2.47  | 55.00 | 6.9       | 9700 | 7.45   | 55.00 | 1.7      | 9700 | 1.86  | 55.00 |
|       | 450 | 483.0 | 3.0       | 9700 | 3.23  | 55.00 | 2.0      | 9700 | 2.14  | 55.00 | 6.0       | 9700 | 6.45   | 55.00 | 1.5      | 9700 | 1.61  | 55.00 |
|       | 500 | 546.1 | 2.7       | 9700 | 2.85  | 55.00 | 1.8      | 9700 | 1.89  | 55.00 | 5.3       | 9700 | 5.71   | 55.00 | 1.3      | 9700 | 1.43  | 55.00 |
|       | 650 | 664.2 | 2.2       | 9700 | 2.35  | 55.00 | 1.4      | 9700 | 1.55  | 55.00 | 4.4       | 9700 | 4.69   | 55.00 | 1.1      | 9700 | 1.17  | 55.00 |
|       | 730 | 729.1 | 2.0       | 9700 | 2.14  | 55.00 | 1.3      | 9700 | 1.42  | 55.00 | 4.0       | 9700 | 4.27   | 55.00 | 0.99     | 9700 | 1.07  | 55.00 |
|       | 860 | 860.0 | 1.7       | 9700 | 1.81  | 55.00 | 1.1      | 9700 | 1.20  | 55.00 | 3.4       | 9700 | 3.62   | 55.00 | 0.84     | 9700 | 0.91  | 55.00 |
|       | 10C | 997.1 | 1.5       | 9700 | 1.56  | 55.00 | 0.96     | 9700 | 1.03  | 55.00 | 2.9       | 9700 | 3.13   | 55.00 | 0.73     | 9700 | 0.78  | 55.00 |
|       | 11C | 1068  | 1.4       | 9700 | 1.46  | 55.00 | 0.90     | 9700 | 0.97  | 55.00 | 2.7       | 9700 | 2.92   | 55.00 | 0.68     | 9700 | 0.73  | 55.00 |
|       | 13C | 1302  | 1.1       | 9700 | 1.20  | 55.00 | 0.74     | 9700 | 0.79  | 55.00 | 2.2       | 9700 | 2.39   | 55.00 | 0.56     | 9700 | 0.60  | 55.00 |
|       | 15C | 1521  | 0.95      | 9700 | 1.02  | 55.00 | 0.63     | 9700 | 0.68  | 55.00 | 1.9       | 9700 | 2.05   | 55.00 | 0.48     | 9700 | 0.51  | 55.00 |
|       | 18C | 1798  | 0.81      | 9700 | 0.87  | 55.00 | 0.53     | 9700 | 0.57  | 55.00 | 1.6       | 9700 | 1.73   | 55.00 | 0.40     | 9700 | 0.43  | 55.00 |
|       | 20C | 1798  | 0.81      | 9700 | 0.87  | 55.00 | 0.53     | 9700 | 0.57  | 55.00 | 1.6       | 9700 | 1.73   | 55.00 | 0.40     | 9700 | 0.43  | 55.00 |
|       | 24C | 2334  | 0.62      | 9700 | 0.67  | 55.00 | 0.41     | 9700 | 0.44  | 55.00 | 1.2       | 9700 | 1.34   | 55.00 | 0.31     | 9700 | 0.33  | 55.00 |
|       | 27C | 2911  | 0.50      | 9700 | 0.54  | 55.00 | 0.33     | 9700 | 0.35  | 55.00 | 1.0       | 9700 | 1.07   | 55.00 | 0.25     | 9700 | 0.27  | 55.00 |
| M1352 | 27C | 2735  | 0.53      | 9700 | 0.57  | 55.00 | 0.35     | 9700 | 0.38  | 55.00 | 1.1       | 9700 | 1.15   | 55.00 | 0.27     | 9700 | 0.29  | 55.00 |
|       | 32C | 3150  | 0.46      | 9700 | 0.50  | 55.00 | 0.30     | 9700 | 0.33  | 55.00 | 0.92      | 9700 | 0.99   | 55.00 | 0.23     | 9700 | 0.25  | 55.00 |
|       | 36C | 3670  | 0.40      | 9700 | 0.43  | 55.00 | 0.26     | 9700 | 0.28  | 55.00 | 0.79      | 9700 | 0.85   | 55.00 | 0.20     | 9700 | 0.21  | 55.00 |
|       | 40C | 4091  | 0.35      | 9700 | 0.38  | 55.00 | 0.23     | 9700 | 0.25  | 55.00 | 0.71      | 9700 | 0.77   | 55.00 | 0.18     | 9700 | 0.19  | 55.00 |
|       | 46C | 4588  | 0.32      | 9700 | 0.34  | 55.00 | 0.21     | 9700 | 0.23  | 55.00 | 0.63      | 9700 | 0.68   | 55.00 | 0.16     | 9700 | 0.17  | 55.00 |
|       | 55C | 6443  | 0.23      | 9700 | 0.24  | 55.00 | 0.15     | 9700 | 0.16  | 55.00 | 0.45      | 9700 | 0.49   | 55.00 | 0.11     | 9700 | 0.12  | 55.00 |
|       | 65C | 7226  | 0.20      | 9700 | 0.22  | 55.00 | 0.13     | 9700 | 0.14  | 55.00 | 0.40      | 9700 | 0.43   | 55.00 | 0.10     | 9700 | 0.11  | 55.00 |
|       | 74C | 7527  | 0.19      | 9700 | 0.21  | 55.00 | 0.13     | 9700 | 0.14  | 55.00 | 0.39      | 9700 | 0.42   | 55.00 | 0.10     | 9700 | 0.10  | 55.00 |
|       | 84C | 8441  | 0.17      | 9700 | 0.19  | 55.00 | 0.11     | 9700 | 0.12  | 55.00 | 0.34      | 9700 | 0.37   | 55.00 | 0.086    | 9700 | 0.093 | 55.00 |
|       | 95C | 9895  | 0.15      | 9700 | 0.16  | 55.00 | 0.097    | 9700 | 0.10  | 55.00 | 0.29      | 9700 | 0.32   | 55.00 | 0.073    | 9700 | 0.079 | 55.00 |
|       | 10K | 10527 | 0.14      | 9700 | 0.15  | 55.00 | 0.091    | 9700 | 0.099 | 55.00 | 0.28      | 9700 | 0.30   | 55.00 | 0.069    | 9700 | 0.074 | 55.00 |

Thermal rating should be checked (Refer page no. 112).



## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              |     |       | n1 = 1450 |       |        |       | n1 = 960 |       |        |       | n1 = 2900 |       |        |       | n1 = 725 |       |        |       |
|--------------|-----|-------|-----------|-------|--------|-------|----------|-------|--------|-------|-----------|-------|--------|-------|----------|-------|--------|-------|
|              | in  | i     | n2        | M2    | Pm     | Fra   | n2       | M2    | Pm     | Fra   | n2        | M2    | Pm     | Fra   | n2       | M2    | Pm     | Fra   |
| <b>M1422</b> | 3.6 | 3.754 | 386       | 5340  | 220.39 | 60.30 | 256      | 5340  | 145.91 | 45.10 | 773       | 5340  | 440.77 | 68.00 | 193      | 5330  | 109.99 | 68.00 |
|              | 5.0 | 5.238 | 277       | 7450  | 220.36 | 65.60 | 183      | 7450  | 145.89 | 46.00 | 554       | 7100  | 420.01 | 68.00 | 138      | 7450  | 110.18 | 68.00 |
|              | 5.6 | 5.898 | 246       | 8390  | 220.39 | 67.30 | 163      | 8390  | 145.91 | 47.10 | 492       | 7640  | 401.38 | 68.00 | 123      | 8380  | 110.06 | 68.00 |
|              | 6.3 | 6.633 | 219       | 9440  | 220.50 | 67.80 | 145      | 9430  | 145.83 | 48.60 | 437       | 8200  | 383.06 | 68.00 | 109      | 9430  | 110.13 | 68.00 |
|              | 8.0 | 8.512 | 170       | 11200 | 203.86 | 68.00 | 113      | 11500 | 138.58 | 52.00 | 341       | 9110  | 331.63 | 68.00 | 85       | 11500 | 104.66 | 68.00 |
|              | 9.0 | 9.452 | 153       | 11700 | 191.78 | 68.00 | 102      | 12300 | 133.48 | 53.20 | 307       | 9480  | 310.78 | 68.00 | 77       | 12300 | 100.81 | 68.00 |
|              | 11. | 11.80 | 123       | 12300 | 161.50 | 68.00 | 81       | 12800 | 111.27 | 55.00 | 246       | 10200 | 267.85 | 68.00 | 61       | 13000 | 85.34  | 68.00 |
|              | 12. | 13.08 | 111       | 12400 | 146.88 | 68.00 | 73       | 12900 | 101.16 | 55.80 | 222       | 10400 | 246.37 | 68.00 | 55       | 13000 | 76.99  | 68.00 |
|              | 14. | 14.86 | 98        | 12500 | 130.33 | 68.00 | 65       | 13000 | 89.74  | 66.00 | 195       | 10800 | 225.20 | 68.00 | 49       | 13000 | 67.77  | 68.00 |
|              | 16. | 17.02 | 85        | 12700 | 115.61 | 68.00 | 56       | 13000 | 78.35  | 68.00 | 170       | 11100 | 202.08 | 68.00 | 43       | 13000 | 59.17  | 68.00 |
|              | 18. | 18.30 | 79        | 12800 | 108.37 | 68.00 | 52       | 13000 | 72.87  | 68.00 | 158       | 11300 | 191.34 | 68.00 | 40       | 13000 | 55.03  | 68.00 |
|              | 20. | 21.36 | 68        | 13000 | 94.29  | 68.00 | 45       | 13000 | 62.43  | 68.00 | 136       | 11700 | 169.73 | 68.00 | 34       | 13000 | 47.15  | 68.00 |
|              | 22. | 23.55 | 62        | 13000 | 85.52  | 68.00 | 41       | 13000 | 56.62  | 68.00 | 123       | 12000 | 157.89 | 68.00 | 31       | 13000 | 42.76  | 68.00 |
|              | 28. | 28.24 | 51        | 13000 | 71.32  | 68.00 | 34       | 13000 | 47.22  | 68.00 | 103       | 12500 | 137.16 | 68.00 | 26       | 13000 | 35.66  | 68.00 |
|              | 32. | 33.89 | 43        | 13000 | 59.43  | 68.00 | 28       | 13000 | 39.35  | 68.00 | 86        | 12400 | 113.38 | 68.00 | 21       | 13000 | 29.72  | 68.00 |
|              | 36. | 36.72 | 39        | 13000 | 54.85  | 68.00 | 26       | 13000 | 36.31  | 68.00 | 79        | 12700 | 107.17 | 68.00 | 20       | 13000 | 27.43  | 68.00 |
|              | 45. | 42.95 | 34        | 7490  | 27.02  | 68.00 | 22       | 7490  | 17.89  | 68.00 | 68        | 7480  | 53.96  | 68.00 | 17       | 7490  | 13.51  | 68.00 |
|              | 50. | 50.36 | 29        | 8020  | 24.67  | 68.00 | 19       | 8020  | 16.34  | 68.00 | 58        | 8010  | 49.29  | 68.00 | 14       | 8020  | 12.34  | 68.00 |
|              | 56. | 56.49 | 26        | 8320  | 22.82  | 68.00 | 17       | 8320  | 15.11  | 68.00 | 51        | 8310  | 45.58  | 68.00 | 13       | 8320  | 11.41  | 68.00 |
| <b>M1432</b> | 45. | 48.24 | 30        | 11600 | 37.64  | 68.00 | 20       | 12600 | 27.07  | 68.00 | 60        | 9380  | 60.87  | 68.00 | 15       | 13000 | 21.09  | 68.00 |
|              | 50. | 54.61 | 27        | 12100 | 34.68  | 68.00 | 18       | 12800 | 24.29  | 68.00 | 53        | 9780  | 56.07  | 68.00 | 13       | 13000 | 18.63  | 68.00 |
|              | 56. | 61.61 | 24        | 13000 | 33.03  | 68.00 | 16       | 13000 | 21.87  | 68.00 | 47        | 10900 | 55.39  | 68.00 | 12       | 13000 | 16.51  | 68.00 |
|              | 63. | 68.46 | 21        | 12700 | 29.04  | 68.00 | 14       | 13000 | 19.68  | 68.00 | 42        | 10600 | 48.47  | 68.00 | 11       | 13000 | 14.86  | 68.00 |
|              | 71. | 74.85 | 19        | 13000 | 27.19  | 68.00 | 13       | 13000 | 18.00  | 68.00 | 39        | 11000 | 46.01  | 68.00 | 9.7      | 13000 | 13.59  | 68.00 |
|              | 80. | 83.17 | 17        | 13000 | 24.47  | 68.00 | 12       | 13000 | 16.20  | 68.00 | 35        | 11400 | 42.91  | 68.00 | 8.7      | 13000 | 12.23  | 68.00 |
|              | 100 | 98.30 | 15        | 13000 | 20.70  | 68.00 | 9.8      | 13000 | 13.71  | 68.00 | 30        | 12100 | 38.53  | 68.00 | 7.4      | 13000 | 10.35  | 68.00 |
|              | 112 | 118.6 | 12        | 13000 | 17.16  | 68.00 | 8.1      | 13000 | 11.36  | 68.00 | 24        | 12800 | 33.79  | 68.00 | 6.1      | 13000 | 8.58   | 68.00 |
|              | 125 | 136.7 | 11        | 13000 | 14.89  | 68.00 | 7.0      | 13000 | 9.86   | 68.00 | 21        | 13000 | 29.77  | 68.00 | 5.3      | 13000 | 7.44   | 68.00 |
|              | 160 | 158.6 | 9.1       | 13000 | 12.83  | 68.00 | 6.1      | 13000 | 8.49   | 68.00 | 18        | 13000 | 25.66  | 68.00 | 4.6      | 13000 | 6.42   | 68.00 |
|              | 180 | 184.8 | 7.8       | 13000 | 11.01  | 68.00 | 5.2      | 13000 | 7.29   | 68.00 | 16        | 13000 | 22.02  | 68.00 | 3.9      | 13000 | 5.51   | 68.00 |
|              | 200 | 198.6 | 7.3       | 13000 | 10.25  | 68.00 | 4.8      | 13000 | 6.78   | 68.00 | 15        | 13000 | 20.49  | 68.00 | 3.7      | 13000 | 5.12   | 68.00 |
| <b>M1442</b> | 225 | 228.4 | 6.3       | 13000 | 9.15   | 68.00 | 4.2      | 13000 | 6.06   | 68.00 | 13        | 13000 | 18.29  | 68.00 | 3.2      | 13000 | 4.57   | 68.00 |
|              | 250 | 262.4 | 5.5       | 13000 | 7.96   | 68.00 | 3.7      | 13000 | 5.27   | 68.00 | 11        | 13000 | 15.92  | 68.00 | 2.8      | 13000 | 3.98   | 68.00 |
|              | 280 | 276.9 | 5.2       | 13000 | 7.54   | 68.00 | 3.5      | 13000 | 4.99   | 68.00 | 10        | 13000 | 15.09  | 68.00 | 2.6      | 13000 | 3.77   | 68.00 |
|              | 300 | 337.7 | 4.3       | 13000 | 6.19   | 68.00 | 2.8      | 13000 | 4.10   | 68.00 | 8.6       | 13000 | 12.37  | 68.00 | 2.1      | 13000 | 3.09   | 68.00 |
|              | 360 | 352.5 | 4.1       | 13000 | 5.93   | 68.00 | 2.7      | 13000 | 3.92   | 68.00 | 8.2       | 13000 | 11.85  | 68.00 | 2.1      | 13000 | 2.96   | 68.00 |
|              | 400 | 405.1 | 3.6       | 13000 | 5.16   | 68.00 | 2.4      | 13000 | 3.41   | 68.00 | 7.2       | 13000 | 10.31  | 68.00 | 1.8      | 13000 | 2.58   | 68.00 |
|              | 450 | 459.3 | 3.2       | 13000 | 4.55   | 68.00 | 2.1      | 13000 | 3.01   | 68.00 | 6.3       | 13000 | 9.09   | 68.00 | 1.6      | 13000 | 2.27   | 68.00 |
|              | 500 | 506.6 | 2.9       | 13000 | 4.12   | 68.00 | 1.9      | 13000 | 2.73   | 68.00 | 5.7       | 13000 | 8.25   | 68.00 | 1.4      | 13000 | 2.06   | 68.00 |
|              | 650 | 656.0 | 2.2       | 13000 | 3.18   | 68.00 | 1.5      | 13000 | 2.11   | 68.00 | 4.4       | 13000 | 6.37   | 68.00 | 1.1      | 13000 | 1.59   | 68.00 |
|              | 730 | 754.3 | 1.9       | 13000 | 2.77   | 68.00 | 1.3      | 13000 | 1.83   | 68.00 | 3.8       | 13000 | 5.54   | 68.00 | 0.96     | 13000 | 1.38   | 68.00 |
|              | 860 | 852.9 | 1.7       | 13000 | 2.45   | 68.00 | 1.1      | 13000 | 1.62   | 68.00 | 3.4       | 13000 | 4.90   | 68.00 | 0.85     | 13000 | 1.22   | 68.00 |
|              | 10C | 997.5 | 1.5       | 13000 | 2.09   | 68.00 | 0.96     | 13000 | 1.39   | 68.00 | 2.9       | 13000 | 4.19   | 68.00 | 0.73     | 13000 | 1.05   | 68.00 |
|              | 11C | 1156  | 1.3       | 13000 | 1.81   | 68.00 | 0.83     | 13000 | 1.20   | 68.00 | 2.5       | 13000 | 3.61   | 68.00 | 0.63     | 13000 | 0.90   | 68.00 |
|              | 13C | 1292  | 1.1       | 13000 | 1.62   | 68.00 | 0.74     | 13000 | 1.07   | 68.00 | 2.2       | 13000 | 3.23   | 68.00 | 0.56     | 13000 | 0.81   | 68.00 |
|              | 15C | 1511  | 0.96      | 13000 | 1.38   | 68.00 | 0.64     | 13000 | 0.92   | 68.00 | 1.9       | 13000 | 2.77   | 68.00 | 0.48     | 13000 | 0.69   | 68.00 |
|              | 18C | 1813  | 0.80      | 13000 | 1.15   | 68.00 | 0.53     | 13000 | 0.76   | 68.00 | 1.6       | 13000 | 2.30   | 68.00 | 0.40     | 13000 | 0.58   | 68.00 |
|              | 20C | 1981  | 0.73      | 13000 | 1.05   | 68.00 | 0.48     | 13000 | 0.70   | 68.00 | 1.5       | 13000 | 2.11   | 68.00 | 0.37     | 13000 | 0.53   | 68.00 |
|              | 24C | 2445  | 0.59      | 13000 | 0.85   | 68.00 | 0.39     | 13000 | 0.57   | 68.00 | 1.2       | 13000 | 1.71   | 68.00 | 0.30     | 13000 | 0.43   | 68.00 |
|              | 27C | 2717  | 0.53      | 13000 | 0.77   | 68.00 | 0.35     | 13000 | 0.51   | 68.00 | 1.1       | 13000 | 1.54   | 68.00 | 0.27     | 13000 | 0.38   | 68.00 |
| <b>M1452</b> | 27C | 2739  | 0.53      | 13000 | 0.77   | 68.00 | 0.35     | 13000 | 0.51   | 68.00 | 1.1       | 13000 | 1.53   | 68.00 | 0.26     | 13000 | 0.38   | 68.00 |
|              | 32C | 3286  | 0.44      | 13000 | 0.64   | 68.00 | 0.29     | 13000 | 0.42   | 68.00 | 0.88      | 13000 | 1.28   | 68.00 | 0.22     | 13000 | 0.32   | 68.00 |
|              | 36C | 3598  | 0.40      | 13000 | 0.58   | 68.00 | 0.27     | 13000 | 0.39   | 68.00 | 0.81      | 13000 | 1.17   | 68.00 | 0.20     | 13000 | 0.29   | 68.00 |
|              | 40C | 3943  | 0.37      | 13000 | 0.53   | 68.00 | 0.24     | 13000 | 0.35   | 68.00 | 0.74      | 13000 | 1.07   | 68.00 | 0.18     | 13000 | 0.27   | 68.00 |
|              | 46C | 4678  | 0.31      | 13000 | 0.45   | 68.00 | 0.21     | 13000 | 0.30   | 68.00 | 0.62      | 13000 | 0.90   | 68.00 | 0.15     | 13000 | 0.22   | 68.00 |
|              | 55C | 5471  | 0.27      | 13000 | 0.38   | 68.00 | 0.18     | 13000 | 0.25   | 68.00 | 0.53      | 13000 | 0.77   | 68.00 | 0.13     | 13000 | 0.19   | 68.00 |
|              | 65C | 6390  | 0.23      | 13000 | 0.33   | 68.00 | 0.15     | 13000 | 0.22   | 68.00 | 0.45      | 13000 | 0.66   | 68.00 | 0.11     | 13000 | 0.16   | 68.00 |
|              | 74C | 7473  | 0.19      | 13000 | 0.28   | 68.00 | 0.13     | 13000 | 0.19   | 68.00 | 0.39      | 13000 | 0.56   | 68.00 | 0.097    | 13000 | 0.14   | 68.00 |
|              | 84C | 8381  | 0.17      | 13000 | 0.25   | 68.00 | 0.11     | 13000 | 0.17   | 68.00 | 0.35      | 13000 | 0.50   | 68.00 | 0.087    | 13000 | 0.13   | 68.00 |
|              | 95C | 9827  | 0.15      | 13000 | 0.21   | 68.00 | 0.098    | 13000 | 0.14   | 68.00 | 0.30      | 13000 | 0.43   | 68.00 | 0.074    | 13000 | 0.11   | 68.00 |
|              | 10K | 11024 | 0.13      | 13000 | 0.19   | 68.00 | 0.087    | 13000 | 0.13   | 68.00 | 0.26      | 13000 | 0.38   | 68.00 | 0.066    | 13000 | 0.10   | 68.00 |

Thermal rating should be checked (Refer page no. 112).



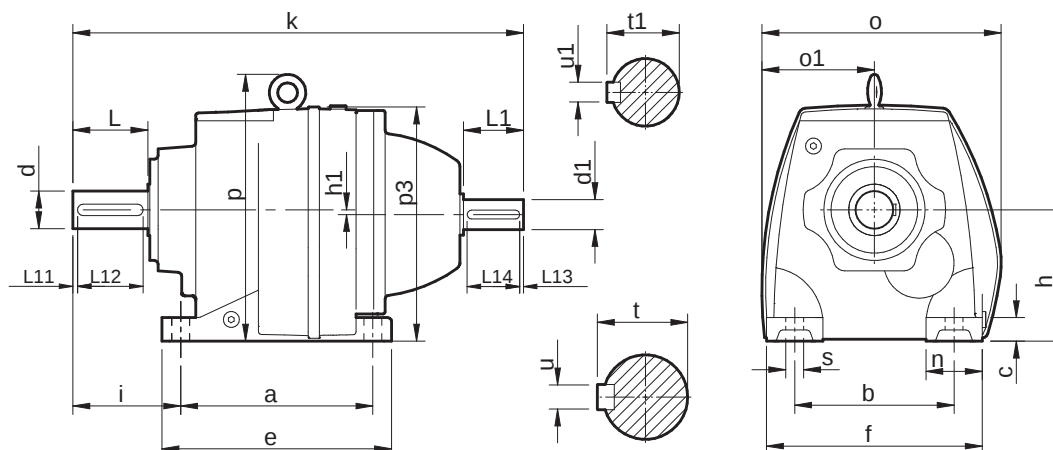
## RATINGS

**Key:** Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

|              |     |       | n1 = 1450 |       |        |       | n1 = 960 |       |        |       | n1 = 2900 |       |         |       | n1 = 725 |       |        |       |
|--------------|-----|-------|-----------|-------|--------|-------|----------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|--------|-------|
|              | in  | i     | n2        | M2    | Pm     | Fra   | n2       | M2    | Pm     | Fra   | n2        | M2    | Pm      | Fra   | n2       | M2    | Pm     | Fra   |
| <b>M1622</b> | 5.0 | 4.950 | 293       | 19200 | 600.94 | 98.00 | 194      | 19200 | 397.87 | 98.00 | 586       | 17300 | 1082.95 | 98.00 | 146      | 19200 | 300.47 | 98.00 |
|              | 5.6 | 5.353 | 271       | 19400 | 561.49 | 98.00 | 179      | 19400 | 371.75 | 98.00 | 542       | 17700 | 1024.58 | 98.00 | 135      | 19400 | 280.75 | 98.00 |
|              | 6.3 | 6.257 | 232       | 19400 | 480.37 | 98.00 | 153      | 19500 | 319.68 | 98.00 | 463       | 19000 | 940.93  | 98.00 | 116      | 19500 | 241.42 | 98.00 |
|              | 8.0 | 8.193 | 177       | 19900 | 376.31 | 98.00 | 117      | 19900 | 249.14 | 98.00 | 354       | 19900 | 752.63  | 98.00 | 88       | 19900 | 188.16 | 98.00 |
|              | 9.0 | 9.353 | 155       | 20200 | 334.61 | 98.00 | 103      | 20200 | 221.53 | 98.00 | 310       | 20200 | 669.22  | 98.00 | 78       | 20200 | 167.31 | 98.00 |
|              | 11. | 11.17 | 130       | 20500 | 284.34 | 98.00 | 86       | 20500 | 188.25 | 98.00 | 260       | 20500 | 568.68  | 98.00 | 65       | 20500 | 142.17 | 98.00 |
|              | 12. | 12.67 | 114       | 20600 | 251.90 | 98.00 | 76       | 20600 | 166.78 | 98.00 | 229       | 20600 | 503.80  | 98.00 | 57       | 20600 | 125.95 | 98.00 |
|              | 14. | 14.01 | 103       | 17900 | 197.95 | 98.00 | 69       | 17900 | 131.06 | 98.00 | 207       | 17900 | 395.90  | 98.00 | 52       | 17900 | 98.97  | 98.00 |
|              | 16. | 16.19 | 90        | 20200 | 193.30 | 98.00 | 59       | 20200 | 127.98 | 98.00 | 179       | 20200 | 386.61  | 98.00 | 45       | 20200 | 96.65  | 98.00 |
|              | 18. | 17.49 | 83        | 20600 | 182.48 | 98.00 | 55       | 20600 | 120.81 | 98.00 | 166       | 20600 | 364.96  | 98.00 | 41       | 20600 | 91.24  | 98.00 |
|              | 20. | 20.39 | 71        | 20600 | 156.53 | 98.00 | 47       | 20600 | 103.63 | 98.00 | 142       | 20600 | 313.05  | 98.00 | 36       | 20600 | 78.26  | 98.00 |
|              | 22. | 23.51 | 62        | 20600 | 135.75 | 98.00 | 41       | 20600 | 89.88  | 98.00 | 123       | 20600 | 271.51  | 98.00 | 31       | 20600 | 67.88  | 98.00 |
|              | 28. | 27.26 | 53        | 20600 | 117.08 | 98.00 | 35       | 20600 | 77.51  | 98.00 | 106       | 20600 | 234.16  | 98.00 | 27       | 20600 | 58.54  | 98.00 |
|              | 32. | 31.41 | 46        | 19600 | 96.68  | 98.00 | 31       | 19600 | 64.01  | 98.00 | 92        | 19600 | 193.36  | 98.00 | 23       | 19600 | 48.34  | 98.00 |
|              | 36. | 37.54 | 39        | 16600 | 68.51  | 98.00 | 26       | 16600 | 45.36  | 98.00 | 77        | 16600 | 137.02  | 98.00 | 19       | 16600 | 34.25  | 98.00 |
|              | 45. | 45.05 | 32        | 11100 | 38.17  | 98.00 | 21       | 11100 | 25.27  | 98.00 | 64        | 11000 | 75.66   | 98.00 | 16       | 11100 | 19.09  | 98.00 |
| <b>M1632</b> | 40. | 41.16 | 35        | 20700 | 78.72  | 98.00 | 23       | 20700 | 52.12  | 98.00 | 70        | 16600 | 126.26  | 98.00 | 18       | 20700 | 39.36  | 98.00 |
|              | 45. | 45.64 | 32        | 20700 | 71.00  | 98.00 | 21       | 20700 | 47.01  | 98.00 | 64        | 17200 | 117.99  | 98.00 | 16       | 20700 | 35.50  | 98.00 |
|              | 50. | 51.82 | 28        | 20700 | 62.53  | 98.00 | 19       | 20700 | 41.40  | 98.00 | 56        | 18000 | 108.74  | 98.00 | 14       | 20700 | 31.26  | 98.00 |
|              | 56. | 59.38 | 24        | 20700 | 54.57  | 98.00 | 16       | 20700 | 36.13  | 98.00 | 49        | 20700 | 109.13  | 98.00 | 12       | 20700 | 27.28  | 98.00 |
|              | 63. | 63.82 | 23        | 20700 | 50.77  | 98.00 | 15       | 20700 | 33.61  | 98.00 | 45        | 20700 | 101.54  | 98.00 | 11       | 20700 | 25.38  | 98.00 |
|              | 71. | 74.49 | 19        | 20700 | 43.50  | 98.00 | 13       | 20700 | 28.80  | 98.00 | 39        | 20700 | 87.00   | 98.00 | 9.7      | 20700 | 21.75  | 98.00 |
|              | 80. | 82.13 | 18        | 20700 | 39.45  | 98.00 | 12       | 20700 | 26.12  | 98.00 | 35        | 20700 | 78.90   | 98.00 | 8.8      | 20700 | 19.73  | 98.00 |
|              | 100 | 98.51 | 15        | 20700 | 32.89  | 98.00 | 9.7      | 20700 | 21.78  | 98.00 | 29        | 20700 | 65.78   | 98.00 | 7.4      | 20700 | 16.45  | 98.00 |
|              | 112 | 118.2 | 12        | 20700 | 27.41  | 98.00 | 8.1      | 20700 | 18.15  | 98.00 | 25        | 20700 | 54.82   | 98.00 | 6.1      | 20700 | 13.71  | 98.00 |
|              | 125 | 128.1 | 11        | 20700 | 25.29  | 98.00 | 7.5      | 20700 | 16.75  | 98.00 | 23        | 20700 | 50.59   | 98.00 | 5.7      | 20700 | 12.65  | 98.00 |
|              | 160 | 149.8 | 9.7       | 20700 | 21.63  | 98.00 | 6.4      | 20700 | 14.32  | 98.00 | 19        | 20700 | 43.26   | 98.00 | 4.8      | 20700 | 10.81  | 98.00 |
|              | 180 | 175.6 | 8.3       | 19100 | 17.03  | 98.00 | 5.5      | 19100 | 11.27  | 98.00 | 17        | 19100 | 34.05   | 98.00 | 4.1      | 19100 | 8.51   | 98.00 |
|              | 200 | 197.0 | 7.4       | 14600 | 11.60  | 98.00 | 4.9      | 14600 | 7.68   | 98.00 | 15        | 14600 | 23.20   | 98.00 | 3.7      | 14600 | 5.80   | 98.00 |
| <b>M1642</b> | 225 | 228.8 | 6.3       | 20700 | 14.53  | 98.00 | 4.2      | 20700 | 9.62   | 98.00 | 13        | 20700 | 29.07   | 98.00 | 3.2      | 20700 | 7.27   | 98.00 |
|              | 250 | 264.6 | 5.5       | 20700 | 12.57  | 98.00 | 3.6      | 20700 | 8.32   | 98.00 | 11        | 20700 | 25.14   | 98.00 | 2.7      | 20700 | 6.29   | 98.00 |
|              | 280 | 285.8 | 5.1       | 20700 | 11.64  | 98.00 | 3.4      | 20700 | 7.70   | 98.00 | 10.1      | 20700 | 23.27   | 98.00 | 2.5      | 20700 | 5.82   | 98.00 |
|              | 300 | 323.5 | 4.5       | 20700 | 10.28  | 98.00 | 3.0      | 20700 | 6.81   | 98.00 | 9.0       | 20700 | 20.56   | 98.00 | 2.2      | 20700 | 5.14   | 98.00 |
|              | 360 | 360.1 | 4.0       | 20700 | 9.23   | 98.00 | 2.7      | 20700 | 6.11   | 98.00 | 8.1       | 20700 | 18.47   | 98.00 | 2.0      | 20700 | 4.62   | 98.00 |
|              | 400 | 400.1 | 3.6       | 20700 | 8.31   | 98.00 | 2.4      | 20700 | 5.50   | 98.00 | 7.2       | 20700 | 16.62   | 98.00 | 1.8      | 20700 | 4.16   | 98.00 |
|              | 450 | 445.4 | 3.3       | 20700 | 7.47   | 98.00 | 2.2      | 20700 | 4.94   | 98.00 | 6.5       | 20700 | 14.94   | 98.00 | 1.6      | 20700 | 3.73   | 98.00 |
|              | 500 | 504.2 | 2.9       | 20700 | 6.60   | 98.00 | 1.9      | 20700 | 4.37   | 98.00 | 5.8       | 20700 | 13.19   | 98.00 | 1.4      | 20700 | 3.30   | 98.00 |
|              | 650 | 646.7 | 2.2       | 20700 | 5.14   | 98.00 | 1.5      | 20700 | 3.40   | 98.00 | 4.5       | 20700 | 10.29   | 98.00 | 1.1      | 20700 | 2.57   | 98.00 |
|              | 730 | 718.5 | 2.0       | 20700 | 4.63   | 98.00 | 1.3      | 20700 | 3.06   | 98.00 | 4.0       | 20700 | 9.26    | 98.00 | 1.0      | 20700 | 2.31   | 98.00 |
|              | 860 | 858.7 | 1.7       | 20700 | 3.87   | 98.00 | 1.1      | 20700 | 2.56   | 98.00 | 3.4       | 20700 | 7.75    | 98.00 | 0.84     | 20700 | 1.94   | 98.00 |
|              | 10C | 1015  | 1.4       | 20700 | 3.28   | 98.00 | 0.95     | 20700 | 2.17   | 98.00 | 2.9       | 20700 | 6.55    | 98.00 | 0.71     | 20700 | 1.64   | 98.00 |
|              | 11C | 1120  | 1.3       | 20700 | 2.97   | 98.00 | 0.86     | 20700 | 1.97   | 98.00 | 2.6       | 20700 | 5.94    | 98.00 | 0.65     | 20700 | 1.48   | 98.00 |
|              | 13C | 1338  | 1.1       | 20700 | 2.49   | 98.00 | 0.72     | 20700 | 1.65   | 98.00 | 2.2       | 20700 | 4.97    | 98.00 | 0.54     | 20700 | 1.24   | 98.00 |
|              | 15C | 1504  | 0.96      | 20700 | 2.21   | 98.00 | 0.64     | 20700 | 1.46   | 98.00 | 1.9       | 20700 | 4.42    | 98.00 | 0.48     | 20700 | 1.11   | 98.00 |
|              | 18C | 1842  | 0.79      | 20700 | 1.81   | 98.00 | 0.52     | 20700 | 1.20   | 98.00 | 1.6       | 20700 | 3.61    | 98.00 | 0.39     | 20700 | 0.90   | 98.00 |
|              | 20C | 1953  | 0.74      | 20700 | 1.70   | 98.00 | 0.49     | 20700 | 1.13   | 98.00 | 1.5       | 20700 | 3.41    | 98.00 | 0.37     | 20700 | 0.85   | 98.00 |
|              | 24C | 2486  | 0.58      | 20700 | 1.34   | 98.00 | 0.39     | 20700 | 0.89   | 98.00 | 1.2       | 20700 | 2.68    | 98.00 | 0.29     | 20700 | 0.67   | 98.00 |
| <b>M1652</b> | 27C | 2744  | 0.53      | 20700 | 1.22   | 98.00 | 0.35     | 20700 | 0.81   | 98.00 | 1.1       | 20700 | 2.44    | 98.00 | 0.26     | 20700 | 0.61   | 98.00 |
|              | 32C | 3181  | 0.46      | 20700 | 1.05   | 98.00 | 0.30     | 20700 | 0.70   | 98.00 | 0.91      | 20700 | 2.10    | 98.00 | 0.23     | 20700 | 0.53   | 98.00 |
|              | 36C | 3494  | 0.41      | 20700 | 0.96   | 98.00 | 0.27     | 20700 | 0.63   | 98.00 | 0.83      | 20700 | 1.91    | 98.00 | 0.21     | 20700 | 0.48   | 98.00 |
|              | 40C | 3666  | 0.40      | 20700 | 0.91   | 98.00 | 0.26     | 20700 | 0.60   | 98.00 | 0.79      | 20700 | 1.82    | 98.00 | 0.20     | 20700 | 0.46   | 98.00 |
|              | 46C | 4812  | 0.30      | 20700 | 0.69   | 98.00 | 0.20     | 20700 | 0.46   | 98.00 | 0.60      | 20700 | 1.39    | 98.00 | 0.15     | 20700 | 0.35   | 98.00 |
|              | 55C | 5775  | 0.25      | 20700 | 0.58   | 98.00 | 0.17     | 20700 | 0.38   | 98.00 | 0.50      | 20700 | 1.16    | 98.00 | 0.13     | 20700 | 0.29   | 98.00 |
|              | 65C | 6440  | 0.23      | 20700 | 0.52   | 98.00 | 0.15     | 20700 | 0.34   | 98.00 | 0.45      | 20700 | 1.04    | 98.00 | 0.11     | 20700 | 0.26   | 98.00 |
|              | 74C | 7728  | 0.19      | 20700 | 0.43   | 98.00 | 0.12     | 20700 | 0.29   | 98.00 | 0.38      | 20700 | 0.87    | 98.00 | 0.094    | 20700 | 0.22   | 98.00 |
|              | 84C | 8899  | 0.16      | 20700 | 0.38   | 98.00 | 0.11     | 20700 | 0.25   | 98.00 | 0.33      | 20700 | 0.75    | 98.00 | 0.081    | 20700 | 0.19   | 98.00 |

Thermal rating should be checked (Refer page no. 112).

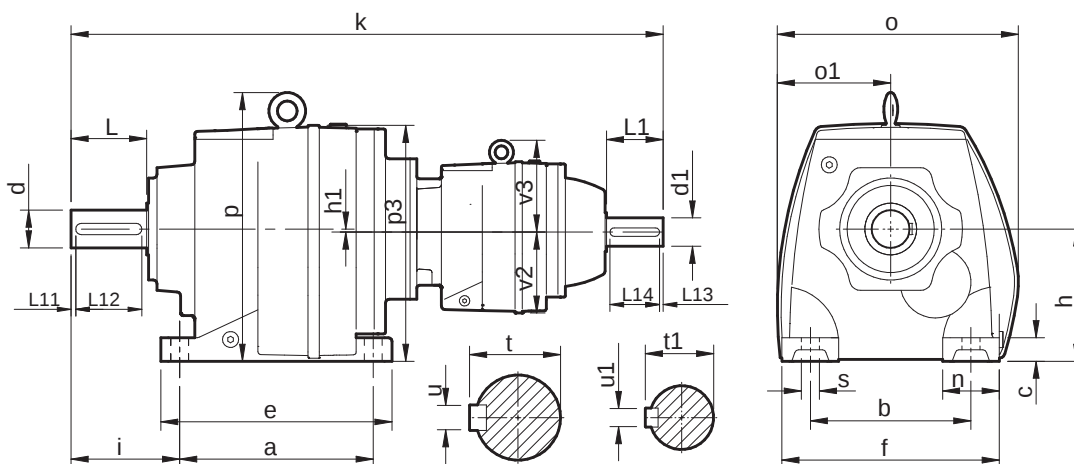
## DIMENSIONS - BASE MOUNTED DOUBLE/ TRIPLE REDUCTION



| Size           | a   | b   | c  | e   | f   | h   | h1   | i   | k            | n   | o   | o1  | p   | p3  | s  |
|----------------|-----|-----|----|-----|-----|-----|------|-----|--------------|-----|-----|-----|-----|-----|----|
| M0122<br>M0132 | 110 | 110 | 12 | 131 | 135 | 75  | 0    | 58  | 286<br>301   | 25  | 152 | 76  | -   | 149 | 10 |
| M0222<br>M0232 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 317<br>330   | 35  | 170 | 84  | -   | 180 | 10 |
| M0322<br>M0332 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 317<br>330   | 35  | 170 | 84  | -   | 180 | 10 |
| M0422<br>M0432 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 90  | 369<br>377   | 55  | 204 | 97  | -   | 208 | 15 |
| M0522<br>M0532 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 100 | 379<br>387   | 55  | 204 | 97  | -   | 208 | 15 |
| M0622<br>M0632 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 400<br>408   | 60  | 220 | 110 | 246 | 214 | 15 |
| M0722<br>M0731 | 205 | 170 | 25 | 245 | 230 | 140 | 0    | 115 | 440<br>452   | 60  | 252 | 119 | 295 | 250 | 19 |
| M0822<br>M0832 | 260 | 215 | 35 | 310 | 290 | 180 | 0    | 140 | 555<br>540   | 75  | 320 | 167 | 360 | 310 | 19 |
| M0922<br>M0932 | 310 | 250 | 45 | 365 | 340 | 225 | 0    | 160 | 659<br>653   | 90  | 375 | 176 | 465 | 395 | 23 |
| M1022<br>M1032 | 370 | 290 | 45 | 440 | 400 | 250 | 0    | 185 | 782<br>777   | 110 | 435 | 206 | 524 | 446 | 27 |
| M1322<br>M1332 | 410 | 340 | 60 | 490 | 450 | 315 | 17.6 | 220 | 903<br>904   | 110 | 480 | 231 | 615 | 516 | 33 |
| M1422<br>M1432 | 500 | 380 | 70 | 590 | 530 | 355 | 23.6 | 260 | 1018<br>1022 | 150 | 535 | 268 | 680 | 581 | 39 |
| M1622<br>M1632 | 580 | 500 | 80 | 670 | 660 | 425 | 42.2 | 270 | 1164<br>1162 | 160 | 760 | 335 | 805 | 675 | 39 |

| Size           | d1             | L1         | L13      | L14       | t1         | u1       | d      | L   | L11 | L12 | t    | u  |
|----------------|----------------|------------|----------|-----------|------------|----------|--------|-----|-----|-----|------|----|
| M0122<br>M0132 | 16 k6          | 40         | 4        | 32        | 18         | 5        | 20 k6  | 40  | 4   | 32  | 22.5 | 6  |
| M0222<br>M0232 | 16 k6          | 40         | 4        | 32        | 18         | 5        | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0322<br>M0332 | 16 k6          | 40         | 4        | 32        | 18         | 5        | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0422<br>M0432 | 19 k6<br>16 k6 | 40<br>40   | 4<br>4   | 32<br>32  | 21.5<br>18 | 6<br>5   | 30 k6  | 60  | 4   | 50  | 33   | 8  |
| M0522<br>M0532 | 19 k6<br>16 k6 | 40<br>40   | 4<br>4   | 32<br>32  | 21.5<br>18 | 6<br>5   | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0622<br>M0632 | 19 k6<br>16 k6 | 40<br>40   | 4<br>4   | 32<br>32  | 21.5<br>18 | 6<br>5   | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0722<br>M0732 | 24 k6<br>19 k6 | 50<br>40   | 5<br>4   | 40<br>32  | 27<br>21.5 | 8<br>6   | 40 k6  | 80  | 5   | 70  | 43   | 12 |
| M0822<br>M0832 | 28 k6<br>24 k6 | 60<br>50   | 5<br>5   | 50<br>40  | 31<br>27   | 8<br>8   | 50 k6  | 100 | 10  | 80  | 53.5 | 14 |
| M0922<br>M0932 | 38 k6<br>28 k6 | 80<br>60   | 5<br>5   | 70<br>50  | 41<br>31   | 10<br>8  | 60 m6  | 120 | 5   | 100 | 64   | 18 |
| M1022<br>M1032 | 42 k6<br>38 k6 | 110<br>80  | 10<br>5  | 70<br>70  | 45<br>41   | 12<br>10 | 70 m6  | 140 | 7   | 110 | 74.5 | 20 |
| M1322<br>M1332 | 55 m6<br>42 k6 | 110<br>110 | 10<br>10 | 90<br>70  | 59<br>45   | 16<br>12 | 90 m6  | 170 | 5   | 140 | 95   | 25 |
| M1422<br>M1432 | 55 m6<br>42 k6 | 110<br>110 | 10<br>10 | 90<br>70  | 59<br>45   | 16<br>12 | 110 m6 | 210 | 10  | 180 | 116  | 28 |
| M1622<br>M1632 | 70 m6<br>55 m6 | 140<br>110 | 10<br>10 | 110<br>90 | 74.5<br>59 | 20<br>16 | 120 m6 | 210 | 5   | 200 | 127  | 32 |

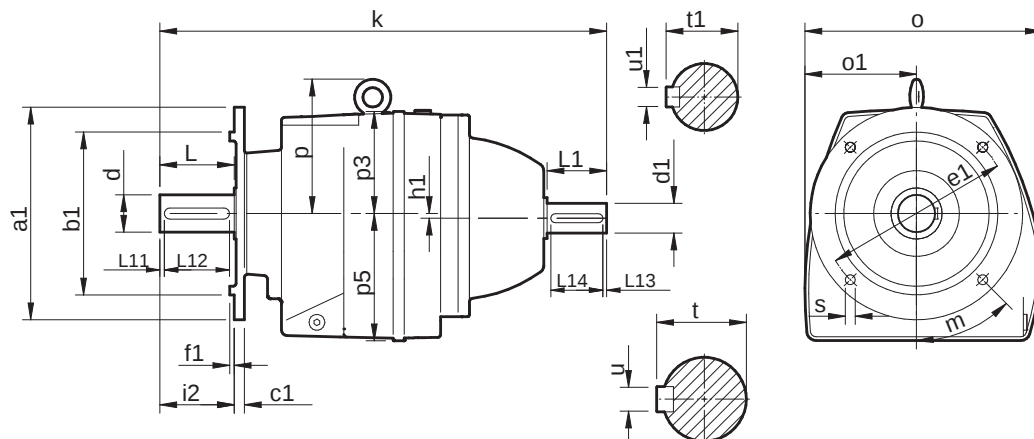
## DIMENSIONS - BASE MOUNTED QUADRUPLE/ QUINTUPLE REDUCTION



| Size           | a   | b   | c  | e   | f   | h   | h1   | i   | k            | n   | o   | o1  | p   | p3  | v2  | v3  | s  |
|----------------|-----|-----|----|-----|-----|-----|------|-----|--------------|-----|-----|-----|-----|-----|-----|-----|----|
| M0342<br>M0352 | 130 | 110 | 16 | 152 | 145 | 90  | 0    | 75  | 503<br>518   | 35  | 170 | 84  | -   | 180 | 76  | 74  | 10 |
| M0442<br>M0452 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 90  | 571<br>584   | 55  | 204 | 97  | -   | 208 | 91  | 90  | 15 |
| M0542<br>M0552 | 165 | 135 | 20 | 200 | 190 | 115 | 0    | 100 | 581<br>594   | 55  | 204 | 97  | -   | 208 | 91  | 90  | 15 |
| M0642<br>M0652 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 602<br>615   | 60  | 220 | 110 | 246 | 214 | 91  | 90  | 15 |
| M0742<br>M0752 | 205 | 170 | 25 | 245 | 230 | 140 | 0    | 115 | 639<br>652   | 60  | 252 | 119 | 295 | 250 | 91  | 90  | 19 |
| M0842<br>M0852 | 260 | 215 | 35 | 310 | 290 | 180 | 0    | 140 | 751<br>759   | 75  | 320 | 167 | 360 | 310 | 115 | 93  | 19 |
| M0942<br>M0952 | 310 | 250 | 45 | 365 | 340 | 225 | 0    | 160 | 831<br>839   | 90  | 375 | 176 | 465 | 395 | 115 | 93  | 23 |
| M1042<br>M1052 | 370 | 290 | 45 | 440 | 400 | 250 | 0    | 185 | 956<br>968   | 110 | 435 | 206 | 524 | 446 | 140 | 155 | 27 |
| M1342<br>M1352 | 410 | 340 | 60 | 490 | 450 | 315 | 17.6 | 220 | 1073<br>1085 | 110 | 480 | 231 | 615 | 516 | 140 | 155 | 33 |
| M1442<br>M1452 | 500 | 380 | 70 | 590 | 530 | 355 | 42.8 | 260 | 1188<br>1200 | 150 | 535 | 268 | 680 | 581 | 140 | 155 | 39 |
| M1642<br>M1652 | 580 | 500 | 80 | 670 | 660 | 425 | 42.8 | 270 | 1656<br>1649 | 160 | 670 | 335 | 805 | 675 | 230 | 240 | 39 |

| Size           | d1             | L1       | L13    | L14      | t1         | u1      | d      | L   | L11 | L12 | t    | u  |
|----------------|----------------|----------|--------|----------|------------|---------|--------|-----|-----|-----|------|----|
| M0342<br>M0352 | 16 k6          | 40       | 4      | 32       | 18         | 5       | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0442<br>M0452 | 16 k6          | 40       | 4      | 32       | 18         | 5       | 30 k6  | 60  | 4   | 50  | 33   | 8  |
| M0542<br>M0552 | 16 k6          | 40       | 4      | 32       | 18         | 5       | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0642<br>M0652 | 16 k6          | 40       | 4      | 32       | 18         | 5       | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0742<br>M0752 | 16 k6          | 40       | 4      | 32       | 18         | 5       | 40 k6  | 80  | 5   | 70  | 43   | 12 |
| M0842<br>M0852 | 19 k6<br>16 k6 | 40<br>40 | 4<br>4 | 32<br>32 | 21.5<br>18 | 6<br>5  | 50 k6  | 100 | 10  | 80  | 53.5 | 14 |
| M0942<br>M0952 | 19 k6<br>16 k6 | 40<br>40 | 4<br>4 | 32<br>32 | 21.5<br>18 | 6<br>5  | 60 m6  | 120 | 5   | 100 | 64   | 18 |
| M1042<br>M1052 | 24 k6<br>19 k6 | 50<br>40 | 5<br>4 | 40<br>32 | 27<br>21.5 | 8<br>6  | 70 m6  | 140 | 7   | 110 | 74.5 | 20 |
| M1342<br>M1352 | 24 k6<br>19 k6 | 50<br>40 | 5<br>4 | 40<br>32 | 27<br>21.5 | 8<br>6  | 90 m6  | 170 | 5   | 140 | 95   | 25 |
| M1442<br>M1452 | 24 k6<br>19 k6 | 50<br>40 | 5<br>4 | 40<br>32 | 27<br>21.5 | 8<br>6  | 110 m6 | 210 | 10  | 180 | 116  | 28 |
| M1642<br>M1652 | 38 k6<br>28 k6 | 80<br>60 | 5<br>5 | 70<br>50 | 41<br>31   | 10<br>8 | 120 m6 | 210 | 5   | 200 | 127  | 32 |

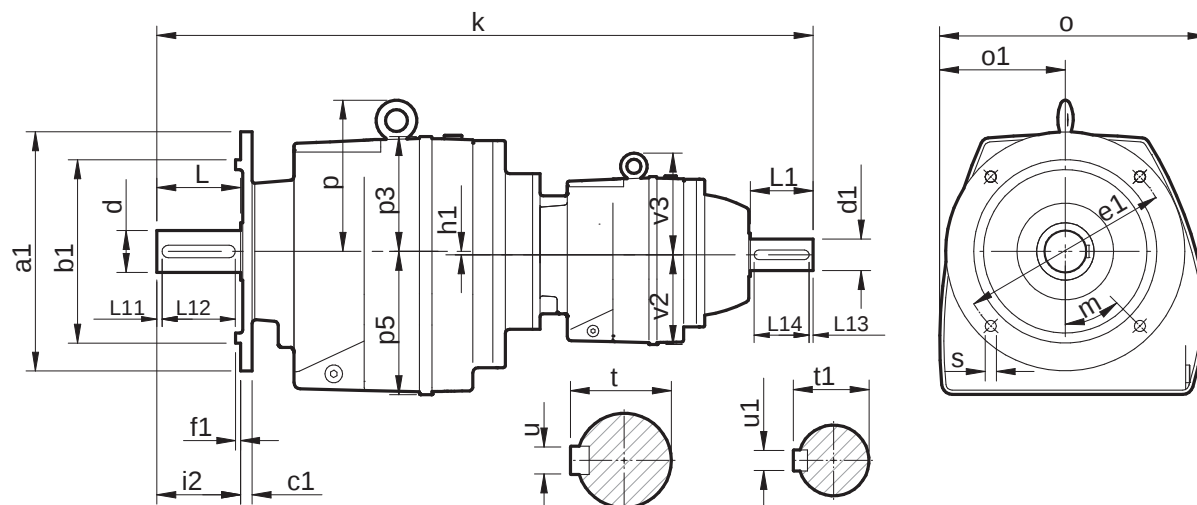
## DIMENSIONS - FLANGE MOUNTED DOUBLE/ TRIPLE REDUCTION



| Size  | a1  | b1  | c1 | e1  | f1  | s      | m     | h1   | i2  | k    | o   | o1  | p   | p3  | p5  |
|-------|-----|-----|----|-----|-----|--------|-------|------|-----|------|-----|-----|-----|-----|-----|
| M0122 | 120 | 80  | 09 | 100 | 3   | 4 x 7  | 45°   | 0    | 40  | 286  | 152 | 76  | -   | 74  | 76  |
| M0132 | 140 | 95  | 09 | 115 | 3   | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 160 | 110 | 09 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |
| M0222 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 317  | 170 | 84  | -   | 90  | 91  |
| M0232 | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |
| M0322 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 317  | 170 | 84  | -   | 90  | 91  |
| M0332 | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |
| M0422 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 60  | 369  | 204 | 97  | -   | 93  | 115 |
| M0432 | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |
|       | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
| M0522 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 70  | 379  | 204 | 97  | -   | 93  | 115 |
| M0532 | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |
|       | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |
|       | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
| M0622 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 14.5 | 70  | 400  | 220 | 110 | 116 | 84  | 130 |
| M0632 | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
|       | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
| M0722 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 0    | 80  | 440  | 252 | 119 | 155 | 110 | 140 |
| M0732 | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
|       | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
| M0822 | 300 | 230 | 17 | 265 | 4   | 4 x 13 | 45°   | 0    | 100 | 555  | 320 | 167 | 180 | 130 | 182 |
| M0832 | 350 | 250 | 17 | 300 | 5   | 4 x 18 |       |      |     |      |     |     |     |     |     |
| M0922 | 350 | 250 | 18 | 300 | 5   | 4 x 18 |       |      |     |      |     |     |     |     |     |
| M0932 | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |
| M1022 | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 150 | 782  | 435 | 206 | 274 | 196 | 255 |
| M1032 | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
| M1322 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 17.6 | 170 | 903  | 480 | 231 | 300 | 202 | 310 |
| M1332 | 550 | 450 | 25 | 500 | 5   |        |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
| M1422 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 23.6 | 210 | 1018 | 535 | 268 | 325 | 226 | 350 |
| M1432 | 550 | 450 | 25 | 500 | 5   |        |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
|       |     |     |    |     |     |        |       |      |     |      |     |     |     |     |     |
| M1622 | 550 | 450 | 25 | 500 | 5   | 8 x 18 | 22.5° | 42.2 | 210 | 1164 | 760 | 335 | 380 | 250 | 415 |
| M1632 | 660 | 550 | 28 | 600 | 6   | 8 x 22 |       |      |     |      |     |     |     |     |     |

| Size  | d1    | L1  | L13 | L14 | t1   | u1 | d      | L   | L11 | L12 | t    | u  |
|-------|-------|-----|-----|-----|------|----|--------|-----|-----|-----|------|----|
| M0122 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 20 k6  | 40  | 4   | 32  | 22.5 | 6  |
| M0132 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0222 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0232 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0322 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0332 | 19 k6 | 40  | 4   | 32  | 21.5 | 6  | 30 k6  | 60  | 4   | 50  | 33   | 8  |
| M0422 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 30 k6  | 60  | 4   | 50  | 33   | 8  |
| M0432 | 19 k6 | 40  | 4   | 32  | 21.5 | 6  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0522 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0532 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0622 | 19 k6 | 40  | 4   | 32  | 21.5 | 6  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0632 | 16 k6 | 40  | 4   | 32  | 18   | 5  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0722 | 24 k6 | 50  | 5   | 40  | 27   | 8  | 40 k6  | 80  | 5   | 70  | 43   | 12 |
| M0732 | 19 k6 | 40  | 4   | 32  | 21.5 | 6  | 40 k6  | 80  | 5   | 70  | 43   | 12 |
| M0822 | 28 k6 | 60  | 5   | 50  | 31   | 8  | 50 k6  | 100 | 10  | 80  | 53.5 | 14 |
| M0832 | 24 k6 | 50  | 5   | 40  | 27   | 8  | 50 k6  | 100 | 10  | 80  | 53.5 | 14 |
| M0922 | 38 k6 | 80  | 5   | 70  | 41   | 10 | 60 m6  | 120 | 5   | 100 | 64   | 18 |
| M0932 | 28 k6 | 60  | 5   | 50  | 31   | 8  | 60 m6  | 120 | 5   | 100 | 64   | 18 |
| M1022 | 42 k6 | 110 | 10  | 70  | 45   | 12 | 70 m6  | 140 | 7   | 110 | 74.5 | 20 |
| M1032 | 38 k6 | 80  | 5   | 70  | 41   | 10 | 70 m6  | 140 | 7   | 110 | 74.5 | 20 |
| M1322 | 55 m6 | 110 | 10  | 90  | 59   | 16 | 90 m6  | 170 | 5   | 140 | 95   | 25 |
| M1332 | 42 k6 | 110 | 10  | 70  | 45   | 12 | 90 m6  | 170 | 5   | 140 | 95   | 25 |
| M1422 | 55 m6 | 110 | 10  | 90  | 59   | 16 | 110 m6 | 210 | 10  | 180 | 116  | 28 |
| M1432 | 42 k6 | 110 | 10  | 70  | 45   | 12 | 110 m6 | 210 | 10  | 180 | 116  | 28 |
| M1622 | 70 m6 | 140 | 10  | 110 | 74.5 | 20 | 120 m6 | 210 | 5   | 200 | 127  | 32 |
| M1632 | 55 m6 | 110 | 10  | 90  | 59   | 16 | 120 m6 | 210 | 5   | 200 | 127  | 32 |

## DIMENSIONS - FLANGE MOUNTED QUADRUPLE/ QUINTUPLE REDUCTION



| Size           | a1  | b1  | c1 | e1  | f1  | s      | m     | h1   | i2  | k    | o   | o1  | p   | p3  | p5  | v2  | v3  |
|----------------|-----|-----|----|-----|-----|--------|-------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|
| M0342<br>M0352 | 120 | 80  | 10 | 100 | 3   | 4 x 9  | 45°   | 0    | 50  | 503  | 170 | 84  | -   | 90  | 91  | 76  | 74  |
|                | 140 | 95  | 10 | 115 | 3   | 4 x 9  |       |      |     |      |     |     |     |     |     |     |     |
|                | 160 | 110 | 10 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |     |     |
|                | 200 | 130 | 10 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |     |     |
| M0442<br>M0452 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 60  | 571  | 204 | 97  | -   | 93  | 115 | 91  | 90  |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |     |     |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |     |     |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
| M0542<br>M0552 | 140 | 95  | 11 | 115 | 3   | 4 x 9  | 45°   | 0    | 70  | 581  | 204 | 97  | -   | 93  | 115 | 91  | 90  |
|                | 160 | 110 | 11 | 130 | 3.5 | 4 x 9  |       |      |     |      |     |     |     |     |     |     |     |
|                | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 |       |      |     |      |     |     |     |     |     |     |     |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
| M0642<br>M0652 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 14.5 | 70  | 602  | 220 | 110 | 116 | 84  | 130 | 91  | 90  |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
| M0742<br>M0752 | 200 | 130 | 11 | 165 | 3.5 | 4 x 11 | 45°   | 0    | 80  | 639  | 252 | 110 | 155 | 110 | 140 | 91  | 90  |
|                | 250 | 180 | 11 | 215 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
|                | 300 | 230 | 11 | 265 | 4   | 4 x 13 |       |      |     |      |     |     |     |     |     |     |     |
| M0842<br>M0852 | 300 | 230 | 17 | 265 | 4   | 4 x 13 | 45°   | 0    | 100 | 751  | 320 | 167 | 180 | 130 | 182 | 115 | 93  |
|                | 350 | 250 | 17 | 300 | 5   | 4 x 18 |       |      |     |      |     |     |     |     |     |     |     |
| M0942<br>M0952 | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 120 | 831  | 325 | 176 | 240 | 170 | 230 | 115 | 93  |
|                | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |     |     |
| M1042<br>M1052 | 350 | 250 | 18 | 300 | 5   | 4 x 18 | 45°   | 0    | 140 | 956  | 335 | 206 | 274 | 196 | 255 | 140 | 155 |
|                | 450 | 350 | 22 | 400 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |     |     |
| M1342<br>M1352 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 17.6 | 170 | 1073 | 480 | 231 | 300 | 202 | 310 | 140 | 155 |
|                | 550 | 450 | 25 | 500 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |     |     |
| M1442<br>M1452 | 450 | 350 | 22 | 400 | 5   | 8 x 18 | 22.5° | 23.6 | 210 | 1188 | 535 | 268 | 325 | 226 | 350 | 140 | 155 |
|                | 550 | 450 | 25 | 500 | 5   | 8 x 18 |       |      |     |      |     |     |     |     |     |     |     |
| M1642<br>M1652 | 550 | 450 | 25 | 500 | 5   | 8 x 18 | 22.5° | 42.2 | 210 | 1656 | 760 | 335 | 380 | 250 | 415 | 230 | 240 |
|                | 660 | 550 | 28 | 600 | 6   | 8 x 22 |       |      |     |      |     |     |     |     |     |     |     |

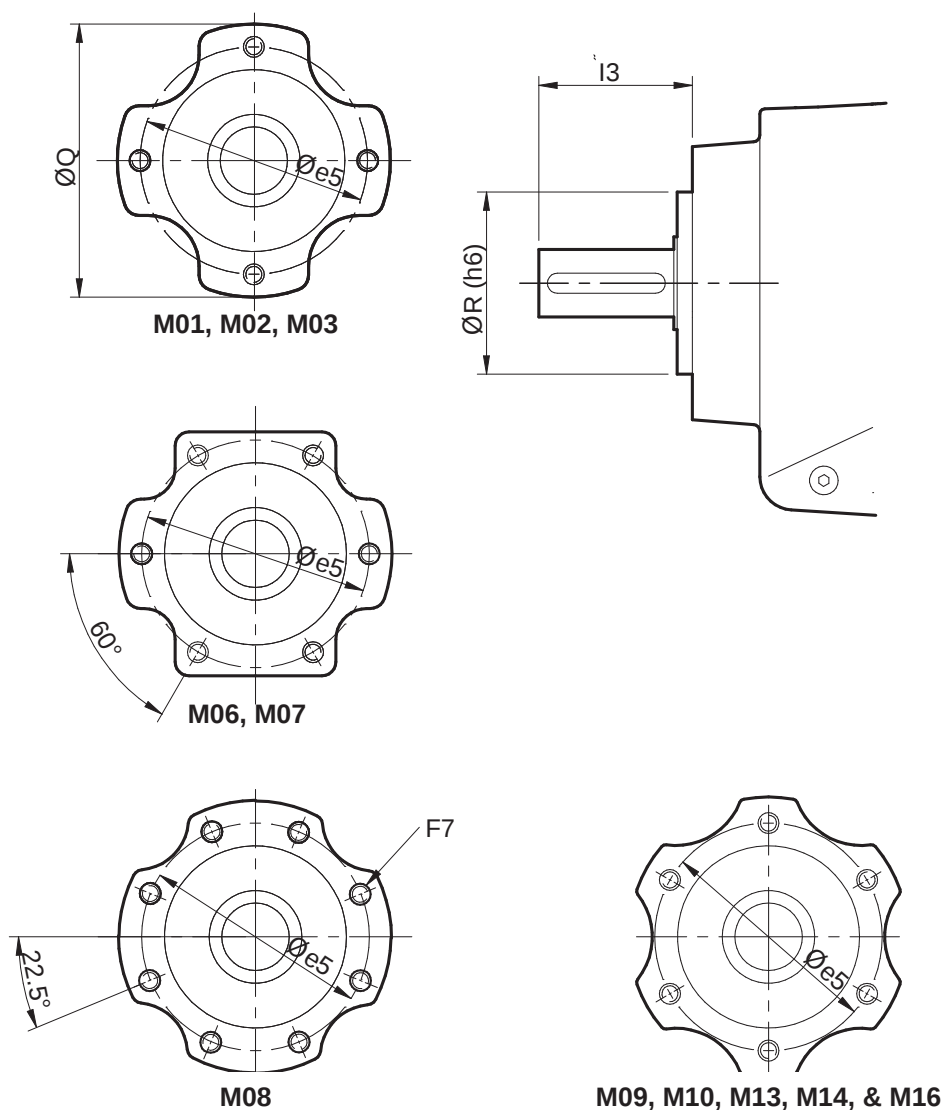
| Size           | d1    | L1 | L13 | L14 | t1   | u1 | d      | L   | L11 | L12 | t    | u  |
|----------------|-------|----|-----|-----|------|----|--------|-----|-----|-----|------|----|
| M0342<br>M0352 | 16 k6 | 40 | 4   | 32  | 18   | 5  | 25 k6  | 50  | 4   | 40  | 28   | 8  |
| M0442<br>M0452 | 16 k6 | 40 | 4   | 32  | 18   | 5  | 30 k6  | 60  | 4   | 50  | 33   | 8  |
| M0542<br>M0552 | 16 k6 | 40 | 4   | 32  | 18   | 5  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0642<br>M0652 | 16 k6 | 40 | 4   | 32  | 18   | 5  | 35 k6  | 70  | 7   | 60  | 38   | 10 |
| M0742<br>M0752 | 16 k6 | 40 | 4   | 32  | 18   | 5  | 40 k6  | 80  | 5   | 70  | 43   | 12 |
| M0842<br>M0852 | 19 k6 | 40 | 4   | 32  | 21.5 | 6  | 50 k6  | 100 | 10  | 80  | 53.5 | 14 |
|                | 16 k6 | 40 | 4   | 32  | 18   | 5  |        |     |     |     |      |    |
| M0942<br>M0952 | 19 k6 | 40 | 4   | 32  | 21.5 | 6  | 60 m6  | 120 | 5   | 100 | 64   | 18 |
|                | 16 k6 | 40 | 4   | 32  | 18   | 5  |        |     |     |     |      |    |
| M1042<br>M1052 | 24 k6 | 50 | 5   | 40  | 27   | 8  | 70 m6  | 140 | 7   | 110 | 74.5 | 20 |
|                | 19 k6 | 40 | 4   | 32  | 21.5 | 6  |        |     |     |     |      |    |
| M1342<br>M1352 | 24 k6 | 50 | 5   | 40  | 27   | 8  | 90 m6  | 170 | 5   | 140 | 95   | 25 |
|                | 19 k6 | 40 | 4   | 32  | 21.5 | 6  |        |     |     |     |      |    |
| M1442<br>M1452 | 24 k6 | 50 | 5   | 40  | 27   | 8  | 110 m6 | 210 | 10  | 180 | 116  | 28 |
|                | 19 k6 | 40 | 4   | 32  | 21.5 | 6  |        |     |     |     |      |    |
| M1642<br>M1652 | 38 k6 | 80 | 5   | 70  | 41   | 10 | 120 m6 | 210 | 5   | 200 | 127  | 32 |
|                | 28 k6 | 60 | 5   | 50  | 31   | 8  |        |     |     |     |      |    |

# SERIES M

## DIMENSIONS - C-FLANGE (B14) MOUNTING

### Column 9 Entry

**E** C-Flange (B14) Mounting (For sizes M01 to M08 only)



### 2, 3, 4 & 5 Stage Units

| Size      | Øe5 | F7                  | i3        | ØQ  | ØR  |
|-----------|-----|---------------------|-----------|-----|-----|
| M01       | 75  | (4) M8 x 1.25 x 12  | 54        | 98  | 52  |
| M02 / M03 | 96  | (4) M8 x 1.25 x 15  | 62 / 62   | 115 | 75  |
| M04 / M05 | 105 | (4) M12 x 1.75 x 21 | 74 / 84   | 130 | 85  |
| M06 / M07 | 124 | (6) M12 x 1.75 x 21 | 84 / 94   | 152 | 102 |
| M08       | 170 | (8) M12 x 1.75 x 21 | 120       | 195 | 145 |
| M09/ M10  | 230 | (6) M20 x 2.5 x 30  | 148 / 168 | 265 | 190 |
| M13/ M14  | 280 | (6) M24 x 3.0 x 40  | 210 / 250 | 340 | 225 |
| M16       | 315 | (6) M24 x 3.0 x 40  | 245       | 370 | 260 |

## THERMAL POWER RATINGS

### Thermal Ratings kW

Thermal ratings are a measure of the units ability to dissipate heat, if they are exceeded the lubricant may break down resulting in pre-mature gear failure.

Thermal rating are based on an ambient temperature of 25°C, where units are to operate in other ambient temperatures thermal ratings must be adjusted by the following factors

### Ambient Temperature Modification Factor Ft

| -20°C | -10°C | 0°C  | 10°C | 20°C | 25°C | 35°C | 40°C | 45°C | 50°C |
|-------|-------|------|------|------|------|------|------|------|------|
| 1.54  | 1.42  | 1.30 | 1.18 | 1.06 | 1.00 | 0.88 | 0.82 | 0.76 | 0.70 |

### Units Operating in Mounting Position's 5 & 6

Thermal ratings for position's 5 & 6 are reduced to 70% of the tabulated values.

Minimum ratio's permitted for positions 5 & 6 are dependant on input speed (rpm) and unit size - see table

### Minimum Ratio - Position's 5 & 6

|                  | < 1000 rpm | < 1500 rpm | < 1800 rpm |
|------------------|------------|------------|------------|
| <b>M01 - M08</b> | All        | All        | All        |
| <b>M09</b>       | 2 : 1      | 4 : 1      | 4.5 : 1    |
| <b>M10</b>       | 4 : 1      | 8 : 1      | 9 : 1      |
| <b>M13</b>       | 6.3 : 1    | 11 : 1     | 14 : 1     |
| <b>M14</b>       | 12 : 1     | 18 : 1     | 22 : 1     |
| <b>M16</b>       | 12 : 1     | 18 : 1     | 22 : 1     |

### Units without additional cooling - kW

| n1<br>(rpm) | Ratio     | M0122 | M0222<br>M0322 | M0422<br>M0522 | M0622 | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622 |
|-------------|-----------|-------|----------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2900        | 3.6 - 5.6 | 4.5   | 6.2            | 11.1           | 13.7  | 16.9  | 25.8  | -     | -     | -     | -     | -     |
| 1750        |           | 4.5   | 6.2            | 11.0           | 13.7  | 16.8  | 25.8  | 39.5  | 51.6  | 63.1  | 97.6  | 142   |
| 1450        |           | 4.5   | 6.2            | 11.0           | 13.7  | 16.8  | 25.7  | 39.5  | 51.5  | 63.0  | 88.8  | 129   |
| 960         |           | 4.5   | 6.2            | 11.0           | 13.6  | 16.8  | 25.7  | 39.5  | 51.5  | 62.9  | 88.6  | 129   |
| 2900        | 6.3 - 9.0 | 4.4   | 6.1            | 10.6           | 13.2  | 16.5  | 25.3  | 38.8  | -     | -     | -     | -     |
| 1750        |           | 4.3   | 6.1            | 10.6           | 13.1  | 16.5  | 25.2  | 38.7  | 50.4  | 61.6  | 95.4  | 139   |
| 1450        |           | 4.3   | 6.1            | 10.6           | 13.1  | 16.5  | 25.2  | 38.6  | 50.4  | 61.6  | 86.8  | 126   |
| 960         |           | 4.3   | 6.1            | 10.6           | 13.1  | 16.4  | 25.2  | 38.6  | 50.3  | 61.5  | 86.7  | 126   |
| 2900        | 11. - 16. | 4.2   | 5.8            | 10.0           | 12.4  | 15.6  | 23.8  | 37.1  | 48.4  | 59.2  | -     | -     |
| 1750        |           | 4.2   | 5.8            | 10.0           | 12.4  | 15.5  | 23.7  | 37.0  | 48.3  | 59.0  | 83.2  | 133   |
| 1450        |           | 4.2   | 5.7            | 10.0           | 12.4  | 15.5  | 23.7  | 37.0  | 48.3  | 59.0  | 83.1  | 121   |
| 960         |           | 4.2   | 5.7            | 10.0           | 12.3  | 15.5  | 23.7  | 36.9  | 48.2  | 58.9  | 83.0  | 120   |
| 2900        | 18. - 28. | 3.8   | 5.1            | 9.3            | 11.5  | 14.5  | 22.1  | 32.3  | 42.2  | 51.5  | 72.6  | -     |
| 1750        |           | 3.8   | 5.1            | 9.3            | 11.5  | 14.4  | 22.0  | 32.2  | 42.0  | 51.4  | 72.4  | 115   |
| 1450        |           | 3.8   | 5.1            | 9.3            | 11.5  | 14.4  | 22.0  | 32.2  | 42.0  | 51.3  | 72.3  | 105   |
| 960         |           | 3.8   | 5.1            | 9.3            | 11.5  | 14.4  | 22.0  | 32.1  | 41.9  | 51.3  | 72.2  | 105   |
| 2900        | 32. - 56. | 3.2   | 4.2            | 7.3            | 9.0   | 11.2  | 17.3  | 24.9  | 32.5  | 39.8  | 56.0  | -     |
| 1750        |           | 3.2   | 4.2            | 7.3            | 9.0   | 11.2  | 17.3  | 24.9  | 32.4  | 39.6  | 55.8  | 89.1  |
| 1450        |           | 3.2   | 4.2            | 7.2            | 9.0   | 11.2  | 17.3  | 24.8  | 32.4  | 39.6  | 55.8  | 81.0  |
| 960         |           | 3.2   | 4.2            | 7.2            | 9.0   | 11.2  | 17.3  | 24.8  | 32.3  | 39.5  | 55.7  | 80.9  |

| n1<br>(rpm) | Ratio    | M0132 | M0232<br>M0332 | M0432<br>M0532 | M0632 | M0732 | M0832 | M0932 | M1032 | M1332 | M1432 | M1632 |
|-------------|----------|-------|----------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2900        | 56 - 200 | 2.5   | 3.3            | 6.1            | 7.6   | 9.3   | 16.0  | 23.0  | 30.0  | 36.6  | 51.6  | -     |
| 1750        |          | 2.5   | 3.3            | 6.1            | 7.5   | 9.3   | 15.9  | 22.9  | 29.9  | 36.5  | 51.4  | 82.0  |
| 1450        |          | 2.5   | 3.3            | 6.1            | 7.5   | 9.3   | 15.9  | 22.9  | 29.8  | 36.5  | 51.4  | 74.6  |
| 960         |          | 2.5   | 3.3            | 6.1            | 7.5   | 9.3   | 15.9  | 22.8  | 29.8  | 36.4  | 51.3  | 74.5  |

### Units with fan cooling - kW

| n1<br>(rpm) | Ratio     | M0722 | M0822 | M0922 | M1022 | M1322 | M1422 | M1622 |
|-------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| 2900        | 3.6 - 5.6 | -     | -     | -     | -     | -     | -     | -     |
| 1750        |           | 25.0  | 38.3  | 58.8  | 76.7  | 93.7  | 132   | 207   |
| 1450        |           | 23.3  | 35.7  | 54.9  | 71.6  | 87.5  | 123   | 193   |
| 960         |           | 21.0  | 32.2  | 49.4  | 64.4  | 78.8  | 111   | 174   |
| 2900        | 6.3 - 9.0 | -     | -     | -     | -     | -     | -     | -     |
| 1750        |           | 24.5  | 37.5  | 57.5  | 75.0  | 91.6  | 129   | 202   |
| 1450        |           | 22.9  | 35.0  | 53.7  | 70.0  | 85.6  | 121   | 189   |
| 960         |           | 20.6  | 31.5  | 48.3  | 63.0  | 77.0  | 109   | 170   |
| 2900        | 11. - 16. | -     | -     | -     | -     | -     | -     | -     |
| 1750        |           | 23.1  | 35.3  | 55.0  | 71.8  | 87.7  | 124   | 194   |
| 1450        |           | 21.5  | 32.9  | 51.4  | 67.0  | 81.9  | 115   | 181   |
| 960         |           | 19.4  | 29.6  | 46.2  | 60.3  | 73.7  | 104   | 163   |
| 2900        | 18. - 28. | -     | -     | -     | -     | -     | -     | -     |
| 1750        |           | 21.4  | 32.7  | 47.9  | 62.5  | 76.3  | 108   | 169   |
| 1450        |           | 20.0  | 30.5  | 44.7  | 58.3  | 71.3  | 100   | 158   |
| 960         |           | 18.0  | 27.5  | 40.3  | 52.5  | 64.2  | 90.4  | 142   |
| 2900        | 32. - 56. | -     | -     | -     | -     | -     | -     | -     |
| 1750        |           | 16.7  | 25.7  | 36.9  | 48.2  | 58.9  | 83.0  | 130   |
| 1450        |           | 15.6  | 24.0  | 34.5  | 45.0  | 55.0  | 77.5  | 122   |
| 960         |           | 14.0  | 21.6  | 31.1  | 40.5  | 49.5  | 69.8  | 109   |

Note: When checking thermal capacities use the actual load required to be transmitted, not the rating of prime mover.

### Column 10 Entry

For reducer fan kit modules enter S in column 10

or if used in conjunction with a reducer backstop module kit

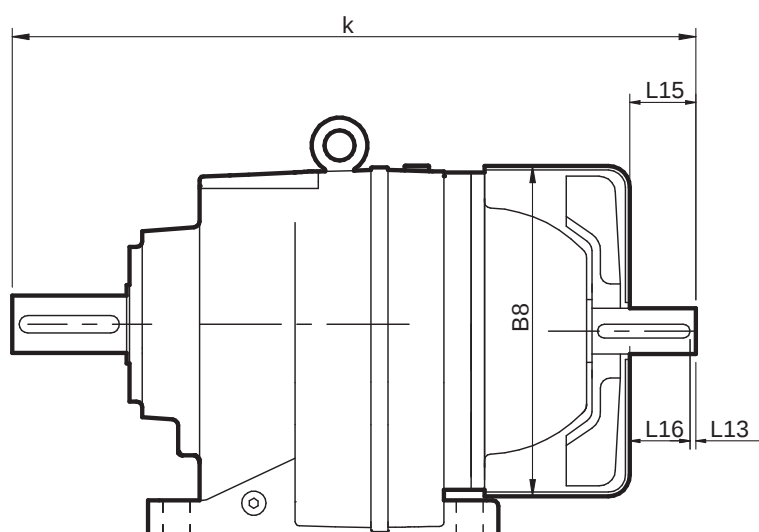
Y

CW rotation

Z

CCW rotation

### Dimensions of Fan Cooled Units



Shaft End Detail  
as Standard Unit

| Size  | ØB8 | k    | L13 | L15 | L16 |
|-------|-----|------|-----|-----|-----|
| M0722 | 225 | 440  | 5   | 35  | 30  |
| M0822 | 265 | 555  | 5   | 45  | 40  |
| M0922 | 320 | 659  | 5   | 65  | 60  |
| M1022 | 380 | 782  | 10  | 95  | 85  |
| M1322 | 420 | 903  | 10  | 85  | 75  |
| M1422 | 480 | 1018 | 10  | 85  | 75  |
| M1622 | 570 | 1164 | 10  | 112 | 102 |

## REDUCER BACKSTOP MODULE

The reducer units listed below can be fitted with an internal backstop, this has no effect of the external unit size. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation input speed must exceed lift off speed.

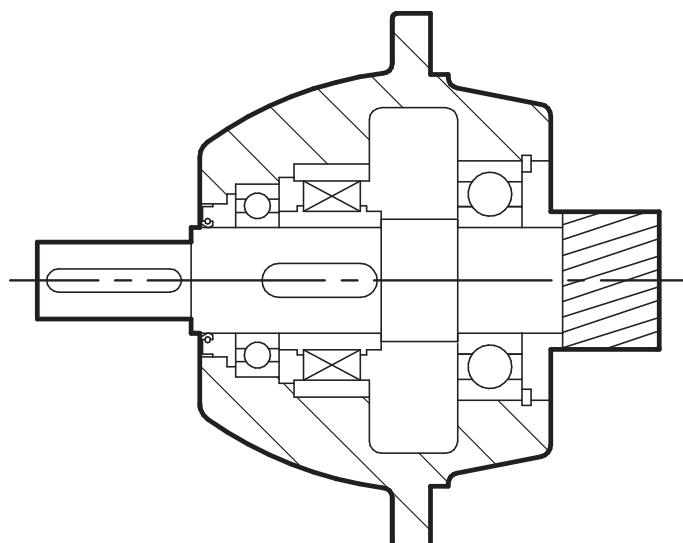
Suitable for ambient temperature -40°C to + 50°C

### Column 10 Entry

For reducer backstop modules enter:

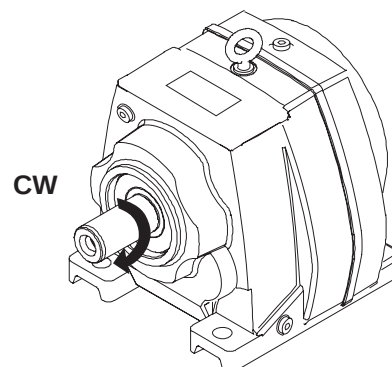
☐ W for CCW rotation (or ☐ Z if used in conjunction with a fan kit)  
☐ X for CW rotation (or ☐ Y if used in conjunction with a fan kit)

| Size  | Lift off speed<br>'n' min<br>rev/min | Rated locking<br>torque 'T max'<br>(at motor) Nm |
|-------|--------------------------------------|--------------------------------------------------|
| M0422 | 800                                  | 100                                              |
| M0522 | 800                                  | 100                                              |
| M0622 | 800                                  | 100                                              |
| M0712 | 670                                  | 170                                              |
| M0722 | 670                                  | 170                                              |
| M0732 | 800                                  | 100                                              |
| M0822 | 670                                  | 300                                              |
| M0832 | 670                                  | 170                                              |
| M0922 | 620                                  | 940                                              |
| M0932 | 670                                  | 300                                              |
| M1022 | 550                                  | 1260                                             |
| M1032 | 620                                  | 940                                              |
| M1322 | 550                                  | 2400                                             |
| M1332 | 550                                  | 1260                                             |
| M1422 | 550                                  | 2400                                             |
| M1432 | 550                                  | 1260                                             |
| M1622 | 610                                  | 1600                                             |
| M1632 | 550                                  | 2400                                             |



Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram)

CW - Free Rotation - Clockwise  
 Locked - Anticlockwise  
 AC - Free Rotation - Anticlockwise  
 Locked - Clockwise





## SHIPPING SPECIFICATION

**Weight of Base Mounted Units (kg)**

| Unit size & no of reductions |      |               | M0122 | M0132 | M0222 | M0232 | M0322 | M0332 | M0342 | M0352 | M0422 | M0432 | M0442 | M0452 | M0522 | M0532 | M0542 | M0552 | M0622 | M0632 | M0642 | M0652 | M0722 | M0732 | M0742 | M0752 |
|------------------------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reducer version              |      |               | 8.2   | 8.8   | 12    | 14    | 12    | 13    | 21    | 22    | 22    | 23    | 33    | 34    | 22    | 23    | 22    | 35    | 27    | 28    | 40    | 41    | 38    | 39    | 48    | 49    |
| Motorised                    | 63   | Without Motor | 10    | 11    | 12    | 14    | 12    | 14    | 22    | 23    | 23    | 24    | 34    | 35    | 23    | 24    | 34    | 35    | 28    | 29    | 40    | 41    |       | 39    | 48    | 49    |
|                              |      | With Motor    | 18    | 19    | 20    | 22    | 20    | 22    | 30    | 31    | 31    | 32    | 42    | 43    | 31    | 32    | 42    | 43    | 36    | 37    | 48    | 49    |       | 47    | 56    | 57    |
|                              | 71   | Without Motor | 9.4   | 10    | 12    | 14    | 12    | 14    | 21    | 23    | 23    | 24    | 34    | 35    | 23    | 24    | 34    | 35    | 28    | 29    | 40    | 41    |       | 39    | 48    | 49    |
|                              |      | With Motor    | 20    | 21    | 23    | 25    | 23    | 25    | 32    | 34    | 34    | 35    | 45    | 46    | 34    | 35    | 45    | 46    | 39    | 40    | 51    | 52    |       | 50    | 59    | 60    |
|                              | 80   | Without Motor | 11    | 12    | 13    | 15    | 13    | 15    | 22    | 23    | 23    | 24    | 36    | 37    | 23    | 24    | 36    | 37    | 28    | 29    | 42    | 43    | 38    | 39    | 48    | 49    |
|                              |      | With Motor    | 28    | 29    | 30    | 32    | 30    | 32    | 39    | 40    | 40    | 41    | 53    | 54    | 40    | 41    | 53    | 54    | 45    | 46    | 59    | 60    | 55    | 56    | 65    | 66    |
|                              | 90S  | Without Motor | 11    | 12    | 13    | 16    | 13    | 16    | 23    | 24    | 24    | 25    | 37    | 38    | 24    | 25    | 37    | 38    | 29    | 30    | 43    | 44    | 38    | 39    | 48    | 49    |
|                              |      | With Motor    | 36    | 37    | 38    | 41    | 38    | 41    | 48    | 49    | 49    | 50    | 62    | 63    | 49    | 50    | 62    | 63    | 54    | 55    | 68    | 69    | 63    | 64    | 73    | 74    |
|                              | 90L  | Without Motor | 11    | 12    | 13    | 16    | 13    | 16    | 23    | 24    | 24    | 25    | 37    | 38    | 24    | 25    | 37    | 38    | 29    | 30    | 43    | 44    | 38    | 39    | 48    | 49    |
|                              |      | With Motor    | 38    | 39    | 40    | 43    | 40    | 43    | 50    | 51    | 51    | 52    | 64    | 65    | 51    | 52    | 64    | 65    | 56    | 57    | 70    | 71    | 65    | 66    | 75    | 76    |
|                              | 100L | Without Motor | 13    | 14    | 15    | 18    | 15    | 18    | 25    | 26    | 25    | 26    | 38    | 39    | 25    | 26    | 38    | 39    | 30    | 31    | 44    | 45    | 39    | 40    | 49    | 50    |
|                              |      | With Motor    | 51    | 52    | 53    | 56    | 53    | 56    | 63    | 64    | 63    | 64    | 76    | 77    | 63    | 64    | 76    | 77    | 68    | 69    | 82    | 83    | 77    | 78    | 87    | 88    |
|                              | 112M | Without Motor | 13    | 14    | 15    | 18    | 15    | 18    | 25    | 26    | 25    | 26    | 38    | 39    | 25    | 26    | 38    | 39    | 30    | 31    | 44    | 45    | 39    | 40    | 49    | 50    |
|                              |      | With Motor    | 57    | 58    | 59    | 62    | 59    | 62    | 69    | 70    | 69    | 70    | 82    | 83    | 69    | 70    | 82    | 83    | 74    | 75    | 88    | 89    | 83    | 84    | 93    | 94    |
|                              | 132S | Without Motor |       |       |       |       |       |       |       |       |       | 26    |       |       |       | 26    |       |       |       | 31    |       |       |       | 40    |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       | 96    |       |       |       | 96    |       |       |       | 101   |       |       |       | 110   |       |       |
|                              | 132M | Without Motor |       |       |       |       |       |       |       |       |       | 26    |       |       |       | 26    |       |       |       | 31    |       |       |       | 40    |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       | 99    |       |       |       | 99    |       |       |       | 104   |       |       |       | 113   |       |       |
|                              | 160M | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 42    |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 176   |       |       |
|                              | 160L | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 42    |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 183   |       |       |



## SHIPPING SPECIFICATION

**Weight of Base Mounted Units (kg)**

| Unit size & no of reductions |      |               | M0822 | M0832 | M0842 | M0852 | M0922 | M0932 | M0942 | M0952 | M1022 | M1032 | M1042 | M1052 | M1322 | M1332 | M1342 | M1352 | M1422 | M1432 | M1442 | M1452 | M1622 | M1632 | M1642 | M1652 |
|------------------------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reducer version              |      |               | 67    | 74    | 96    | 97    | 121   | 130   | 150   | 151   | 160   | 173   | 203   | 204   | 259   | 280   | 307   | 308   | 355   | 374   | 403   | 404   | 630   | 640   | 774   | 783   |
| Motorised                    | 63   | Without Motor |       |       | 96    | 97    |       |       | 151   | 152   |       |       |       | 204   |       |       |       | 308   |       |       |       | 404   |       |       |       |       |
|                              |      | With Motor    |       |       | 104   | 105   |       |       | 159   | 160   |       |       |       | 212   |       |       |       | 316   |       |       |       | 412   |       |       |       |       |
|                              | 71   | Without Motor |       |       | 96    | 97    |       |       | 151   | 152   |       |       |       | 204   |       |       |       | 308   |       |       |       | 404   |       |       |       |       |
|                              |      | With Motor    |       |       | 107   | 108   |       |       | 162   | 163   |       |       |       | 215   |       |       |       | 319   |       |       |       | 415   |       |       |       |       |
|                              | 80   | Without Motor | 73    | 75    | 96    | 98    | 116   | 131   | 151   | 152   |       | 168   | 203   | 204   |       |       | 307   | 308   |       |       | 403   | 404   |       |       | 769   | 784   |
|                              |      | With Motor    | 90    | 92    | 113   | 115   | 133   | 148   | 168   | 169   |       | 185   | 220   | 221   |       |       | 324   | 325   |       |       | 420   | 421   |       |       | 786   | 801   |
|                              | 90S  | Without Motor | 73    | 75    | 97    | 99    | 116   | 131   | 152   | 153   |       | 168   | 203   | 204   |       |       | 307   | 308   |       |       | 403   | 404   |       |       | 769   | 784   |
|                              |      | With Motor    | 98    | 100   | 122   | 124   | 141   | 156   | 177   | 178   |       | 193   | 228   | 229   |       |       | 332   | 333   |       |       | 428   | 429   |       |       | 794   | 809   |
|                              | 90L  | Without Motor | 73    | 75    | 97    | 99    | 116   | 131   | 152   | 153   |       | 168   | 203   | 204   |       |       | 307   | 308   |       |       | 403   | 404   |       |       | 769   | 784   |
|                              |      | With Motor    | 100   | 102   | 124   | 126   | 143   | 158   | 179   | 180   |       | 195   | 230   | 231   |       |       | 334   | 335   |       |       | 430   | 431   |       |       | 796   | 811   |
|                              | 100L | Without Motor | 73    | 75    | 98    | 100   | 118   | 133   | 156   | 157   | 147   | 170   | 204   | 205   | 228   | 267   | 308   | 309   | 318   | 361   | 404   | 405   |       | 603   | 771   | 786   |
|                              |      | With Motor    | 111   | 113   | 136   | 138   | 156   | 171   | 194   | 195   | 185   | 208   | 242   | 243   | 266   | 305   | 346   | 347   | 356   | 399   | 442   | 443   |       | 641   | 809   | 824   |
|                              | 112M | Without Motor | 73    | 77    | 98    | 100   | 118   | 133   | 156   | 157   | 147   | 170   | 204   | 205   | 228   | 267   | 308   | 309   | 318   | 361   | 404   | 405   |       | 603   | 771   | 786   |
|                              |      | With Motor    | 117   | 121   | 142   | 144   | 162   | 177   | 200   | 201   | 191   | 214   | 248   | 249   | 272   | 311   | 352   | 353   | 362   | 405   | 448   | 449   |       | 647   | 815   | 830   |
|                              | 132S | Without Motor | 73    | 77    | 99    |       | 121   | 136   |       |       | 150   | 173   | 205   |       | 231   | 270   | 309   |       | 322   | 364   | 405   |       |       | 607   | 774   | 789   |
|                              |      | With Motor    | 143   | 147   | 169   |       | 191   | 206   |       |       | 220   | 243   | 275   |       | 301   | 340   | 379   |       | 392   | 434   | 475   |       |       | 677   | 844   | 859   |
|                              | 132M | Without Motor | 73    | 77    | 99    |       | 121   | 136   |       |       | 150   | 173   | 205   |       | 231   | 270   | 309   |       | 322   | 364   | 405   |       |       | 607   | 774   | 789   |
|                              |      | With Motor    | 146   | 150   | 172   |       | 194   | 209   |       |       | 223   | 246   | 278   |       | 304   | 343   | 382   |       | 395   | 437   | 478   |       |       | 680   | 847   | 862   |
|                              | 160M | Without Motor | 73    |       |       |       | 126   | 141   |       |       | 155   | 178   | 207   |       | 237   | 275   | 311   |       | 329   | 369   | 407   |       |       | 614   | 779   | 794   |
|                              |      | With Motor    | 207   |       |       |       | 260   | 275   |       |       | 289   | 312   | 341   |       | 371   | 409   | 445   |       | 463   | 503   | 541   |       |       | 748   | 913   | 928   |
|                              | 160L | Without Motor | 73    |       |       |       | 126   | 141   |       |       | 155   | 178   | 207   |       | 237   | 275   | 311   |       | 329   | 369   | 407   |       |       | 614   | 779   | 794   |
|                              |      | With Motor    | 214   |       |       |       | 267   | 282   |       |       | 296   | 319   | 348   |       | 378   | 416   | 452   |       | 470   | 510   | 548   |       |       | 755   | 920   | 935   |
|                              | 180M | Without Motor |       |       |       |       | 139   |       |       |       | 168   | 191   |       |       | 249   | 288   |       |       | 343   | 382   |       |       | 656   | 628   | 792   |       |
|                              |      | With Motor    |       |       |       |       | 314   |       |       |       | 343   | 366   |       |       | 424   | 463   |       |       | 518   | 557   |       |       | 805   | 803   | 967   |       |
|                              | 180L | Without Motor |       |       |       |       | 139   |       |       |       | 168   | 191   |       |       | 249   | 288   |       |       | 343   | 382   |       |       | 656   | 628   | 792   |       |
|                              |      | With Motor    |       |       |       |       | 324   |       |       |       | 353   | 376   |       |       | 434   | 473   |       |       | 528   | 567   |       |       | 815   | 813   | 977   |       |
|                              | 200L | Without Motor |       |       |       |       | 143   |       |       |       | 172   | 195   |       |       | 254   | 292   |       |       | 349   | 386   |       |       | 661   | 634   | 796   |       |
|                              |      | With Motor    |       |       |       |       | 375   |       |       |       | 404   | 427   |       |       | 486   | 524   |       |       | 581   | 618   |       |       | 862   | 866   | 1028  |       |
|                              | 225S | Without Motor |       |       |       |       | 147   |       |       |       | 176   | 199   |       |       | 258   | 296   |       |       | 354   | 390   |       |       | 668   | 639   | 800   |       |
|                              |      | With Motor    |       |       |       |       | 436   |       |       |       | 465   | 488   |       |       | 547   | 585   |       |       | 643   | 679   |       |       | 919   | 928   | 1089  |       |
|                              | 225M | Without Motor |       |       |       |       | 147   |       |       |       | 176   | 199   |       |       | 258   | 296   |       |       | 354   | 390   |       |       | 668   | 639   | 800   |       |
|                              |      | With Motor    |       |       |       |       | 469   |       |       |       | 498   | 521   |       |       | 580   | 618   |       |       | 676   | 712   |       |       | 952   | 961   | 1122  |       |
|                              | 250M | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       | 275   |       |       |       | 371   |       |       |       | 675   | 586   |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       | 669   |       |       |       | 765   |       |       |       | 1024  | 980   |       |       |
|                              | 280S | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       | 275   |       |       |       | 371   |       |       |       | 675   | 586   |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       | 785   |       |       |       | 881   |       |       |       | 1140  | 1096  |       |       |
|                              | 280M | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       | 275   |       |       |       | 371   |       |       |       | 675   | 586   |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       | 875   |       |       |       | 971   |       |       |       | 1230  | 1186  |       |       |
|                              | 315S | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 699   |       |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1400  |       |       |       |
|                              | 315M | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 699   |       |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1440  |       |       |       |
|                              | 315L | Without Motor |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 699   |       |       |       |
|                              |      | With Motor    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1590  |       |       |       |

## PRODUCT SAFETY INFORMATION

**IMPORTANT****Product Safety Information**

**General** - The following information is important in ensuring safety. It **must** be brought to the attention of personnel involved in the selection of the equipment, those responsible for the design of the machinery in which it is to be incorporated and those involved in its installation, use and maintenance.

The equipment will operate safely provided it is selected, installed, used and maintained properly. As with any power transmission equipment **proper precautions must** be taken as indicated in the following paragraphs, to ensure safety.

**Potential Hazards** - these are **not** necessarily listed in any order of severity as the degree of danger varies in individual circumstances. It is important therefore that the list is studied in its entirety:-

- 1) Fire/Explosion
  - (a) Oil mists and vapour are generated within gear units. It is therefore dangerous to use naked lights in the proximity of gearbox openings, due to the risk of fire or explosion.
  - (b) In the event of fire or serious overheating (over 300 °C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.
- 2) Guards - Rotating shafts and couplings must be guarded to eliminate the possibility of physical contact or entanglement of clothing. It should be of rigid construction and firmly secured.
- 3) Noise - High speed gearboxes and gearbox driven machinery may produce noise levels which are damaging to the hearing with prolonged exposure. Ear defenders should be provided for personnel in these circumstances. Reference should be made to the Department of Employment Code of Practice for reducing exposure of employed persons to noise.
- 4) Lifting - Where provided (on larger units) only the lifting points or eyebolts must be used for lifting operations (see maintenance manual or general arrangement drawing for lifting point positions). Failure to use the lifting points provided may result in personal injury and/or damage to the product or surrounding equipment. Keep clear of raised equipment.
- 5) Lubricants and Lubrication
  - (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.
  - (b) The lubrication status of the equipment must be checked before commissioning. Read and carry out all instructions on the lubricant plate and in the installation and maintenance literature. Heed all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.
- 6) Electrical Equipment - Observe hazard warnings on electrical equipment and isolate power before working on the gearbox or associated equipment, in order to prevent the machinery being started.
- 7) Installation, Maintenance and Storage
  - (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, application engineering must be consulted regarding special preservation requirements. Unless otherwise agreed, equipment must be stored in a building protected from extremes of temperature and humidity to prevent deterioration.  
The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).
  - (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overwrap or wax film preservative. Gloves should be worn when removing these materials. The former can be removed manually, the latter using white spirit as a solvent.  
Preservatives applied to the internal parts of the gear units do not require removal prior to operation.
  - (c) Installation must be performed in accordance with the manufacturer's instructions and be undertaken by suitably qualified personnel.
  - (d) Before working on a gearbox or associated equipment, ensure that the load has been removed from the system to eliminate the possibility of any movement of the machinery and isolate power supply. Where necessary, provide mechanical means to ensure the machinery cannot move or rotate. Ensure removal of such devices after work is complete.
  - (e) Ensure the proper maintenance of gearboxes in operation. Use only the correct tools and approved spare parts for repair and maintenance. Consult the Maintenance Manual before dismantling or performing maintenance work.
- 8) Hot Surfaces and Lubricants
  - (a) During operation, gear units may become sufficiently hot to cause skin burns. Care must be taken to avoid accidental contact.
  - (b) After extended running the lubricant in gear units and lubrication systems may reach temperatures sufficient to cause burns. Allow equipment to cool before servicing or performing adjustments.
- 9) Selection and Design
  - (a) Where gear units provide a backstop facility, ensure that back-up systems are provided if failure of the backstop device would endanger personnel or result in damage.
  - (b) The driving and driven equipment must be correctly selected to ensure that the complete machinery installation will perform satisfactorily, avoiding system critical speeds, system torsional vibration, etc.
  - (c) The equipment must not be operated in an environment or at speeds, powers, torques or with external loads beyond those for which it was designed.
  - (d) As improvements in design are being made continually the contents of this catalogue are not to be regarded as binding in detail, and drawings and capacities are subject to alterations without notice.

The above guidance is based on the current state of knowledge and our best assessment of the potential hazards in the operation of the gear units.

Any further information or clarification required may be obtained by contacting an Application Engineer.