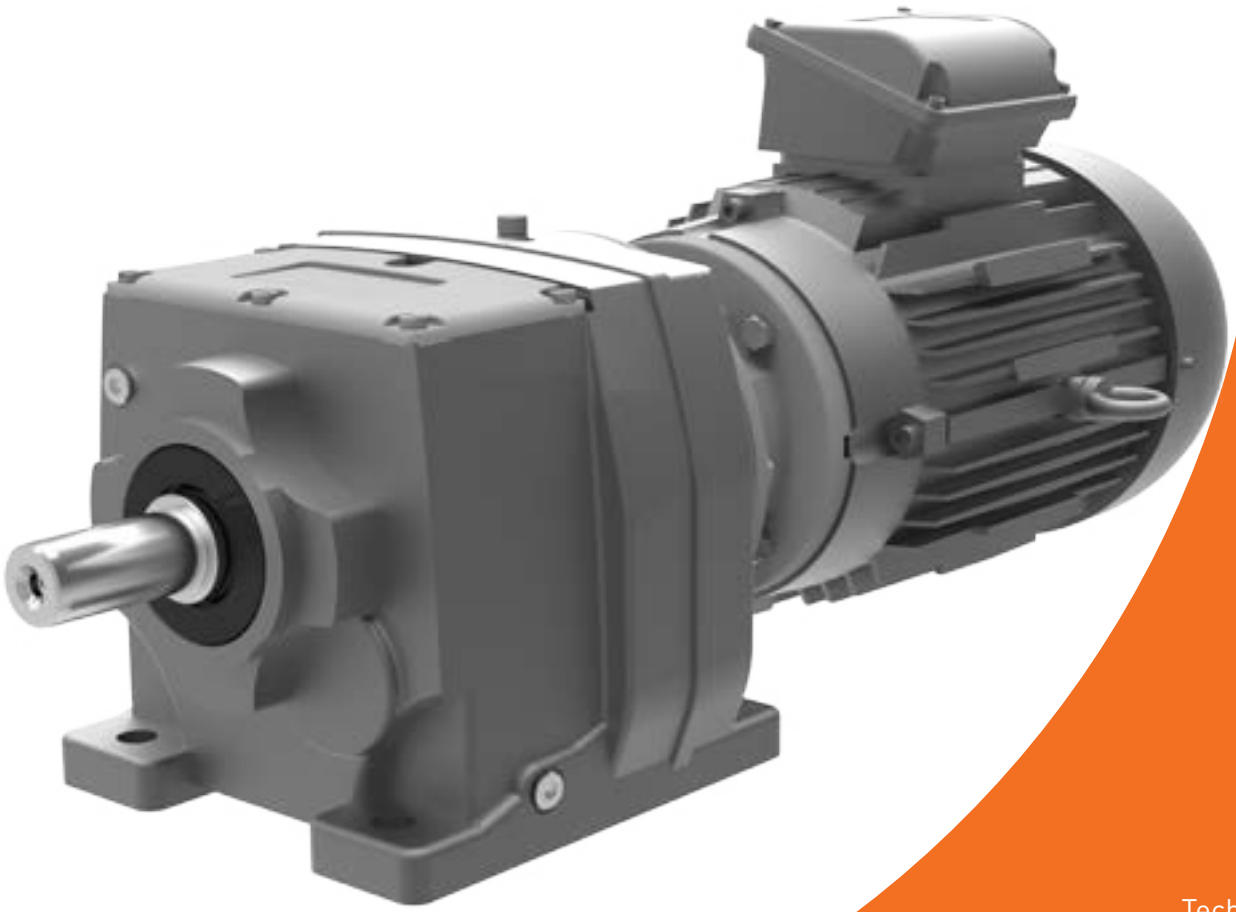
radicon
with you at every turn

benzlers
with you at every turn

Series M Helical In-Line

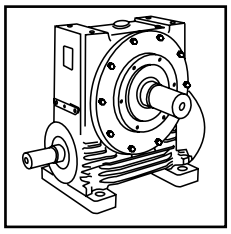


Technical
Up to - 90 Kw / 11,000 Nm

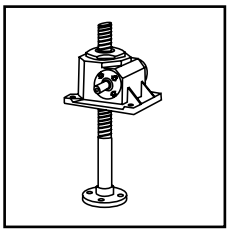
Geared Motors
CM-2.00GB1211

# PRODUCTS IN THE RANGE

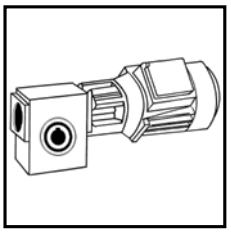
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



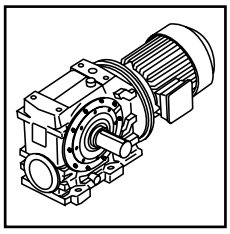
**Series A**
Worm Gear units and geared motors in single & double reduction types



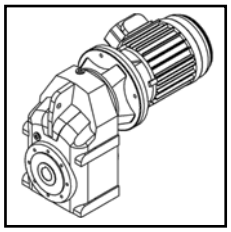
**Series BD**
Screwjack worm gear unit



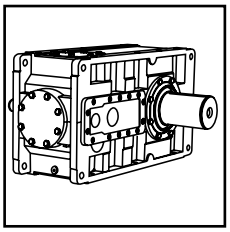
**Series BS**
Worm gear unit



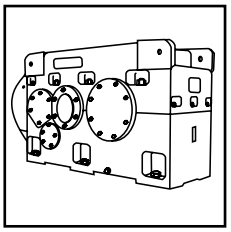
**Series C**
Right angle drive helical worm geared motors & reducers



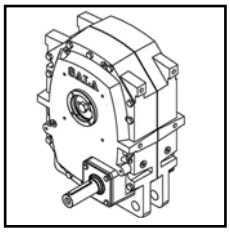
**Series F**
Parallel shaft helical geared motors & reducers



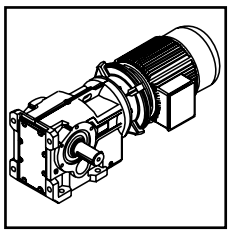
**Series G**
Helical parallel shaft & bevel helical right angle drive gear units



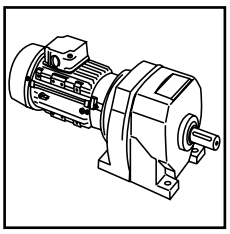
**Series H**
Large helical parallel shaft & bevel helical right angle drive units



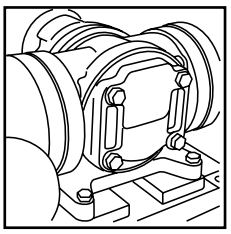
**Series J**
Shaft mounted helical speed reducers



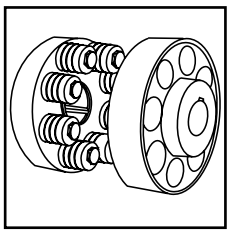
**Series K**
Right angle helical bevel helical geared motors & reducers



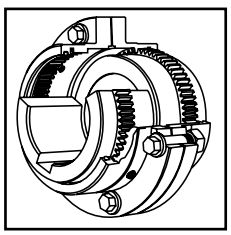
**Series M**
In-line helical geared motors & reducers



**Roloid Gear Pump**
Lubrication and fluid transportation pump

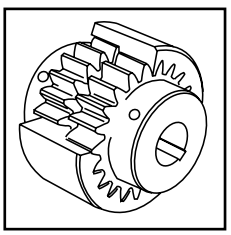


**Series X**
**Cone Ring**
Pin and bush elastomer coupling

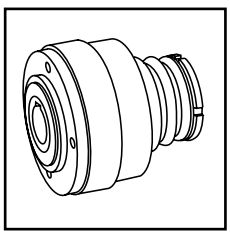


**Series X**
**Gear**
Torsionally rigid, high torque coupling

**Service & Repair**
All brands and types



**Series X**
**Nylicon**
Gear coupling with nylon sleeve



**Series X**
**Torque Limiter**
Overload protection device

We offer a wide range of repair services and many years experience of repairing demanding and highly critical transmissions in numerous industries.

We can create custom engineered transmission solutions of any size and configuration.

# CONTENTS

# GENERAL DESCRIPTION

Series M inline geared motors and reducers provide a very efficient and compact drive solution to meet most requirements up to 90kW with maximum output torque capacity of 11000Nm.

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**

Twelve sizes of unit with a ratio coverage of 1.4/1 to 70/1 in double reduction and up to 250/1 in triple reduction and 16200/1 in combined units.

Unit Versions Available
- Base Mounted
- B5 (D) Flange Mounted
- B14 (C) Flange Mounting
- Base Mount and B14 (C) Flange Mounting

Unit type M - Motorised with IEC standard motor

Unit type N - Motorised with NEMA standard motor

Unit type H - Motorised with IEC high efficiency motor (IE2 or EPACT)

Unit type E - Motorised with NEMA high efficiency motor (EPACT)

Unit type G - Unit to allow fitting of a standard IEC motor

Unit type A - Unit to allow fitting of NEMA 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 or NEMA).

Ability to fit double oil seal input and output as required.

All units being suitable to fit IEC or NEMA standard motors.

All units are dimensionally interchangeable with other major manufacturers.

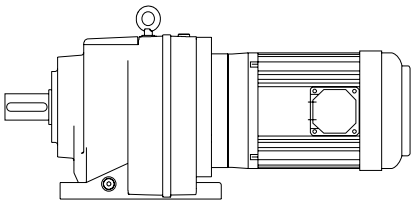
Brake geared motors are available as standard.

Sizes 01, 02, 03, 04, 05, 06 and 07 are all supplied with lubricant.

Sizes 08, 09, 10, 13 and 14 are supplied without lubricant.

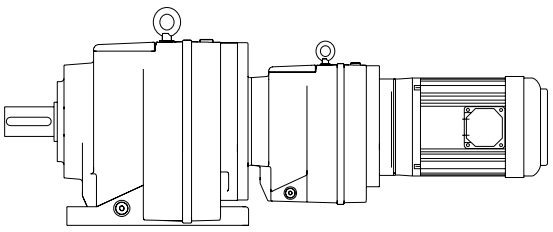
Motorised units can be fitted with a backstop module and reducer units can be fitted with a backstop and fan.

*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.*



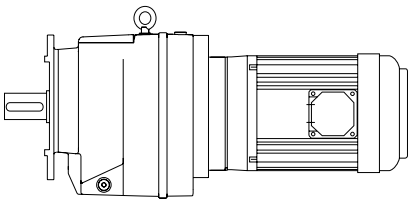
Two stage base mounted motorised

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



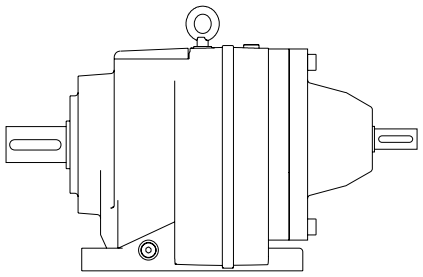
Four stage base mounted motorised

* 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 - -

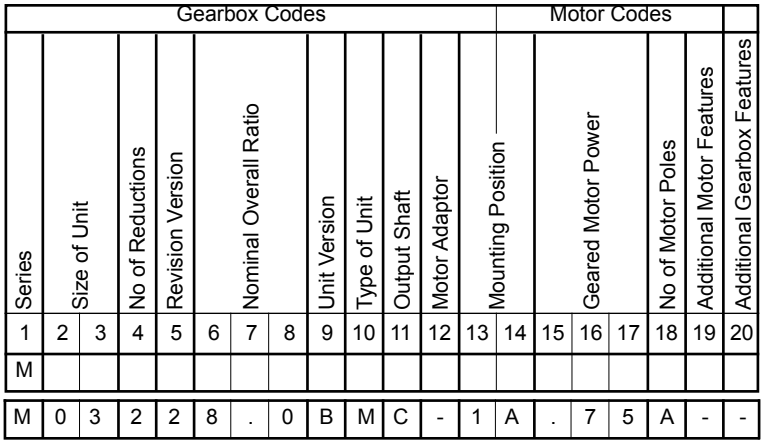


Two stage base mounted reducer

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

* Typical unit designations

# UNIT DESIGNATIONS




**1 - Series M**

Range [M]

**2, 3 - Size of Unit**

[0 1] Through [1 4]

**4 - No of Reductions**

[2] Through [5]

**5 - Revision Version**

[2] For Sizes 01 to 08

[1] For Sizes 09 to 14

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

eg [8 . 0]

**9 - Unit Version**

[B] - Base Mounted

B5 (D) Flange Mounted

Letter Entry Depends on Flange Diameter

[E] - B14 (C) Flange Mounting

[V] - Base and B14 (C) Flange Mounting

(Non - Standard Special Orders Only)

**10 - Type of Unit**

[M] - Motorised with IE2 standard motor

[N] - Motorised with EPACT standard motor

[H] - Motorised with IEC high efficiency motor (IE3)

[E] - Motorised with NEMA high efficiency motor (PREMIUM)

[G] - Unit to allow fitting of IEC motor (customer own motor)

[A] - Unit to allow fitting of NEMA 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

**11 - Output Shaft**

[C] - Standard

[N] - Inch

**12 - Motor Adaptor For Unit Types Column 10 Entries M, N, H, E, G or A**

For All Other Types Enter [-]

**13, 14 - Mounting Position**

eg [2 B]

**15, 16, 17 - Geared Motor Powers**

Motor Power Required

eg [. 7 5]

For reducer and non standard motor types enter [- - -]

**18 - No of Motor Poles**

[-] No motor

| | | 50 Hz | | 60 Hz |
|---|---|---|---|---|
| 4 Pole (Std) | 1500 rpm | A | 1800 rpm | B |
| 4 Pole (High) | 1500 rpm | K | 1800 rpm | L |
| 6 Pole (Std) | 1000 rpm | C | 1200 rpm | D |
| 6 Pole (High) | 1000 rpm | M | 1200 rpm | N |
| 2 Pole | 3000 rpm | E | 3600 rpm | F |
| 8 Pole | 750 rpm | G | 900 rpm | H |

[S] Dual speed or special motor

**19 - Additional Motor Features**

eg [- A]

For Types Without Motor Enter [-]

**20 - Additional Gearbox Features**

Double Oil Seal, Motorised Backstop Etc

eg [- F]

* This Page May Be Photocopied Allowing The Customer To Enter Their Order

To access the on line configurator please visit www.swift-gears.com

# EXPLANATION & USE OF RATINGS & SERVICE FACTORS

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 our application engineers.

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

| Prime mover | Duration of service- hrs per day | Load classification-driven machine | | |
|---|---|---|---|---|
| | | Uniform mass acceleration factor ≤ 0.2 | Moderate mass acceleration factor ≤ 3 | Heavy mass acceleration factor ≤ 10 |
| Electric motor, steam turbine or hydraulic motor | Under 3 | 0.80 | 1.00 | 1.50 |
| | 3 to 10 | 1.00 | 1.25 | 1.75 |
| | Over 10 | 1.25 | 1.50 | 2.00 |
| Multi-cylinder internal combustion engine | Under 3 | 1.00 | 1.25 | 1.75 |
| | 3 to 10 | 1.25 | 1.50 | 2.00 |
| | Over 10 | 1.50 | 1.75 | 2.25 |
| Single cylinder internal combustion engine | Under 3 | 1.25 | 1.50 | 2.00 |
| | 3 to 10 | 1.50 | 1.75 | 2.25 |
| | Over 10 | 1.75 | 2.00 | 2.50 |

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

* calculated with reference to the motor speed

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

| Start / Stops per hour (1) | Up to 1 | 5 | 10 | 40 | 60 | ≥ 200 |
|---|---|---|---|---|---|---|
| Factor Fs | 1.00 | 1.03 | 1.06 | 1.10 | 1.15 | 1.20 |

Note: (1) Intermediate values are obtained by linear interpolation

# LOAD CLASSIFICATION BY APPLICATIONS

## Table 3

**U = Uniform load**

**M = Moderate shock load**

**H = Heavy shock load**

**† = Refer to Application Engineering**

| Driven Machine | type of load |
|---|---|
| **Agitators** | |
| pure liquids | U |
| liquids and solids | M |
| liquids-variable density | M |
| **Blowers** | |
| centrifugal | U |
| lobe | M |
| vane | U |
| **Brewing and distilling** | |
| bottling machinery | M |
| brew kettles-continuous duty | M |
| cookers-continuous duty | M |
| mash tubs-continuous duty | M |
| scale hopper-frequent starts | M |
| **Can filling machines** | M |
| **Cane knifes** | M |
| **Car dumpers** | H |
| **Car pullers** | M |
| **Clarifiers** | U |
| **Classifiers** | M |
| **Clay working machinery** | |
| brick press | H |
| briquette machine | H |
| clay working machinery | M |
| pug mill | M |
| **Compressors** | |
| centrifugal | U |
| lobe | M |
| reciprocating | |
| multi-cylinder | M |
| single cylinder | H |
| **Conveyors-uniformly loaded or fed** | |
| apron | U |
| assembly | U |
| belt | U |
| bucket | U |
| chain | U |
| flight | U |
| oven | U |
| screw | U |
| **Conveyors-heavy duty not uniformly fed** | |
| apron | M |
| assembly | M |
| belt | M |
| bucket | M |
| chain | M |
| flight | M |
| live roll | † |
| oven | M |
| reciprocating | H |
| screw | M |
| shaker | H |

| Driven Machine | type of load |
|---|---|
| **Cranes** | |
| main hoists | † |
| bridge travel | † |
| trolley travel | † |
| **Crusher** | |
| ore | H |
| stone | H |
| sugar | H |
| **Dredges** | |
| cable reels | M |
| conveyors | M |
| cutter head drives | H |
| jig drives | H |
| manoeuvring winches | M |
| pumps | M |
| screen drive | H |
| stackers | M |
| utility winches | M |
| **Dry dock cranes** | |
| main hoist | † |
| auxiliary hoist | † |
| boom, luffing | † |
| rotating, swing or slew | † |
| tracking, drive wheels | † |
| **Elevators** | |
| bucket-uniform load | U |
| bucket-heavy load | M |
| bucket-continuous | U |
| centrifugal discharge | U |
| escalators | U |
| freight | M |
| gravity discharge | U |
| man lifts | † |
| passenger | † |
| **Fans** | |
| centrifugal | U |
| cooling towers | |
| induced draft | † |
| forced draft | † |
| induced draft | M |
| large, mine, etc | M |
| large, industrial | M |
| light, small diameter | U |
| **Feeders** | |
| apron | M |
| belt | M |
| disc | U |
| reciprocating | H |
| screw | M |
| **Food industry** | |
| beef slicer | M |
| cereal cooker | U |
| dough mixer | M |
| meat grinders | M |
| **Generators-not welding** | U |
| **Hammer mills** | H |
| **Hoists** | |
| heavy duty | H |
| medium duty | M |
| skip hoist | M |
| **Laundry washers** | |
| reversing | M |
| **Laundry tumblers** | M |
| **Line shafts** | |
| driving processing equipment | M |
| light | U |
| other line shafts | U |
| **Lumber industry** | |
| barkers-hydraulic-mechanical | M |
| burner conveyor | M |
| chain saw and drag saw | H |
| chain transfer | H |
| craneway transfer | H |
| de-barking drum | H |
| edger feed | M |
| gang feed | M |
| green chain | M |
| live rolls | H |
| log deck | H |

| Driven Machine | type of load |
|---|---|
| log haul-incline | H |
| log haul-well type | H |
| log turning device | H |
| main log conveyor | H |
| off bearing rolls | M |
| planer feed chains | M |
| planer floor chains | M |
| planer tilting hoist | M |
| re-saw merry-go-round conveyor | M |
| roll cases | H |
| slab conveyor | H |
| small waste conveyor-belt | U |
| small waste conveyor-chain | M |
| sorting table | M |
| tipple hoist conveyor | M |
| tipple hoist drive | M |
| transfer conveyors | M |
| transfer rolls | M |
| tray drive | M |
| trimmer feed | M |
| waste conveyor | M |
| **Machine tools** | |
| bending roll | M |
| punch press-gear driven | H |
| notching press- belt driven | † |
| plate planers | H |
| tapping machine | H |
| other machine tools | |
| main drives | M |
| auxiliary drives | U |
| **Metal mills** | |
| draw bench carriage and main drive | M |
| pinch, dryer and scrubber rolls-reversing | † |
| slitters | M |
| table conveyors | |
| non-reversing | |
| group drives | M |
| individual drives | H |
| reversing | |
| wire drawing and flattening machine | M |
| wire winding machine | M |
| **Mill-rotary type** | |
| **ball** | H |
| cement kilns | H |
| dryers and coolers | H |
| kilns, other than cement | H |
| pebble | H |
| rod | |
| plain | H |
| wedge bar | H |
| tumbling barrels | H |
| **Mixers** | |
| concrete mixers -continuous | M |
| concrete mixers -intermittent | M |
| constant density | U |
| variable density | M |
| **Oil industry** | |
| chillers | M |
| oil well pumping | † |
| paraffin filter press | M |
| rotary kilns | M |
| **Paper mills** | |
| agitators, (mixers) | M |
| barker-auxiliaries-hydraulic | M |
| barker-mechanical | H |
| barking drum | H |
| beater and pulper | M |
| bleacher | U |
| calenders | M |
| calenders-super | H |
| converting machine, except cutters, platers | M |
| conveyors | U |
| couch | M |
| cutters-plates | H |
| cylinders | M |
| dryers | M |
| felt stretcher | M |
| felt whipper | H |
| jordans | M |

| Driven Machine | type of load |
|---|---|
| log haul | H |
| presses | M |
| pulp machine reel | M |
| stock chest | M |
| suction roll | M |
| washers and thickeners | M |
| winders | M |
| **Printing presses** | † |
| **Pullers** | |
| barge haul | H |
| **Pumps** | |
| centrifugal | U |
| proportioning | M |
| reciprocating | |
| single acting; 3 or more cylinders | M |
| double acting; 2 or more cylinders | M |
| single acting; 1 or 2 cylinders | † |
| double acting; single cylinder | † |
| rotary | |
| gear type | U |
| lobe, vane | U |
| **Rubber and plastics industries** | |
| crackers | H |
| laboratory equipment | M |
| mixed mills | H |
| refiners | M |
| rubber calenders | M |
| rubber mill-2 on line | M |
| rubber mill-3 on line | M |
| sheeter | M |
| tire building machines | † |
| tire and tube press openers | † |
| tubers and strainers | M |
| warming mills | M |
| **Sand muller** | M |
| **Sewage disposal equipment** | |
| bar screens | U |
| chemical feeders | U |
| collectors | U |
| dewatering screws | M |
| scum breakers | M |
| slow or rapid mixers | M |
| thickeners | M |
| vacuum filters | M |
| **Screens** | |
| air washing | U |
| rotary-stone or gravel | M |
| travelling water intake | U |
| **Slab pushers** | M |
| **Steering gear** | † |
| **Stokers** | U |
| **Sugar industry** | |
| cane knives | M |
| crushers | M |
| mills | M |
| **Textile industry** | |
| batchers | M |
| calenders | M |
| cards | M |
| dry cans | M |
| dryers | M |
| dyeing machinery | M |
| knitting machines | † |
| looms | M |
| mangles | M |
| nappers | M |
| pads | M |
| range drives | † |
| slashers | M |
| soapers | M |
| spinners | M |
| tenter frames | M |
| washers | M |
| winders | M |
| **Windlass** | † |

**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%

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 | |
|---|---|
| apron | U |
| assembly | U |
| belt | U |
| bucket | U |
| chain | U |

U = Uniform load

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 | Under 3 | 0.80 | 1.00 |
| | 3 to 10 | 1.00 | 1.25 |
| | Over 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)

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

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

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

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, page 34

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

**0.75 kW**

4 POLE

| N2 R/MIN | 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 |
| 177 | 8 | 39 | 3.47 | 4000 | M 0 2 2 2 8 . 0 _ M _ - _ _ . 7 5 A - - | 22.5 | 80A |
| 156 | 9.09 | 44 | 3.14 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 54 | 2.65 | 4000 | 1 1 . | | |
| 114 | 12.37 | 60 | 2.45 | 4000 | 1 2 . | | |
| 101 | 14.05 | 68 | 2.22 | 4000 | 1 4 . | | |
| 89 | 15.97 | 78 | 2.04 | 3968 | 1 6 . | | |
| 80 | 17.58 | 85 | 1.86 | 3878 | 1 8 . | | |
| 70 | 20.23 | 99 | 1.61 | 3757 | 2 0 . | | |
| 64 | 21.99 | 107 | 1.48 | 4000 | 2 2 . | | |
| 54 | 26.4 | 128 | 1.24 | 3847 | 2 8 . | | |

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 R/MIN | 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 |
| 177 | 8 | 39 | 3.47 | 4000 | M 0 2 2 2 8 . 0 _ M _ - _ _ . 7 5 A - - | 22.5 | 80A |
| 156 | 9.09 | 44 | 3.14 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 54 | 2.65 | 4000 | 1 1 . | | |
| 114 | 12.37 | 60 | 2.45 | 4000 | 1 2 . | | |
| 101 | 14.05 | 68 | 2.22 | 4000 | 1 4 . | | |
| 89 | 15.97 | 78 | 2.04 | 3968 | 1 6 . | | |
| 80 | 17.58 | 85 | 1.86 | 3878 | 1 8 . | | |
| 70 | 20.23 | 99 | 1.61 | 3757 | 2 0 . | | |
| 64 | 21.99 | 107 | 1.48 | 4000 | 2 2 . | | |
| 54 | 26.4 | 128 | 1.24 | 3847 | 2 8 . | | |

Selected unit's output torque (M2) = 107 Nm, therefore unit is acceptable

Go to point 5

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 | N2 R/MIN | 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 |
| 4 POLE | 177 | 8 | 39 | 3.47 | 4000 | M 0 2 2 2 8 . 0 _ M _ - _ _ . 7 5 A - - | 22.5 | 80A |
| | 156 | 9.09 | 44 | 3.14 | 4000 | 9 . 0 | | |
| | 127 | 11.15 | 54 | 2.65 | 4000 | 1 1 . | | |
| | 114 | 12.37 | 60 | 2.45 | 4000 | 1 2 . | | |
| | 101 | 14.05 | 68 | 2.22 | 4000 | 1 4 . | | |
| | 89 | 15.97 | 78 | 2.04 | 3968 | 1 6 . | | |
| | 80 | 17.58 | 85 | 1.86 | 3878 | 1 8 . | | |
| | 70 | 20.23 | 99 | 1.61 | 3757 | 2 0 . | | |
| | 64 | 21.99 | 107 | 1.48 | 4000 | 2 2 . | | |
| | 54 | 26.4 | 128 | 1.24 | 3847 | 2 8 . | | |

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 | N2 R/MIN | 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 |
| 4 POLE | 156 | 9.09 | 44 | 3.76 | 4000 | M 0 3 2 2 9 . 0 _ M _ - _ _ . 7 5 A - - | 22.5 | 80A |
| | 127 | 11.15 | 54 | 3.28 | 4000 | 1 1 . | | |
| | 114 | 12.37 | 60 | 3.07 | 4000 | 1 2 . | | |
| | 101 | 14.05 | 69 | 2.81 | 4000 | 1 4 . | | |
| | 89 | 15.97 | 77 | 2.63 | 3935 | 1 6 . | | |
| | 80 | 17.58 | 85 | 2.42 | 3844 | 1 8 . | | |
| | 70 | 20.23 | 99 | 2.11 | 3689 | 2 0 . | | |
| | 64 | 21.99 | 107 | 1.94 | 3568 | 2 2 . | | |
| | 54 | 26.4 | 128 | 1.63 | 3045 | 2 8 . | | |
| | 45 | 31.68 | 154 | 1.35 | 3182 | 3 2 . | | |

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 94, 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 | N2 R/MIN | 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 |
| 4 POLE | 177 | 8 | 39 | 3.47 | 4000 | M 0 2 2 2 8 . 0 _ M _ - _ _ . 7 5 A - - | 22.5 | 80A |
| | 156 | 9.09 | 44 | 3.14 | 4000 | 9 . 0 | | |
| | 127 | 11.15 | 54 | 2.65 | 4000 | 1 1 . | | |
| | 114 | 12.37 | 60 | 2.45 | 4000 | 1 2 . | | |
| | 101 | 14.05 | 68 | 2.22 | 4000 | 1 4 . | | |
| | 89 | 15.97 | 78 | 2.04 | 3968 | 1 6 . | | |
| | 80 | 17.58 | 85 | 1.86 | 3878 | 1 8 . | | |
| | 70 | 20.23 | 99 | 1.61 | 3757 | 2 0 . | | |
| | 64 | 21.99 | 107 | 1.48 | 4000 | 2 2 . | | |
| | 54 | 26.4 | 128 | 1.24 | 3847 | 2 8 . | | |

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

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

# UNIT VERSIONS

## UNIT VERSIONS, COLUMN 9 ENTRY

B - Base Mounted

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

## Flange Mounted

Letter Entry Depends on Flange Diameter See tables below

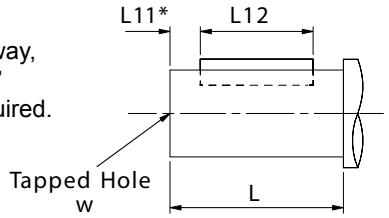
| Flange Diameter | Column 9 Entry |
|---|---|
| 120 | H |
| 140 | J |
| 160 | K |
| 200 | L |
| 250 | N |

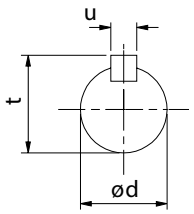
| Flange Diameter | Column 9 Entry |
|---|---|
| 300 | P |
| 350 | R |
| 450 | F |
| 550 | G |

| Unit 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 |
| M0921 | M0931 | M0941 | M0951 | 450 | F |
| M1021 | M1031 | M1041 | M1051 | 450 | F |
| M1321 | M1331 | M1341 | M1351 | 550 | G |
| M1421 | M1431 | M1441 | M1451 | 550 | G |

## OUTPUTSHAFT OPTIONS

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




**Column 11 Entry**

C Standard

N Inch

### OUTPUTSHAFT OPTIONS - double, triple, quadruple and quintuple reduction

| SIZE OF UNIT | TYPE OF OUTPUT SHAFT | COLUMN 11 ENTRY | DIMENSIONS IN MM (Inch Shaft in Inches) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | ød | L | L11 | L12 | t | u | w |
| 01 | Standard | C | 20.015 / 20.002 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1, 16 deep |
| | Inch * | N | 0.7500"/0.7495" | 1.575" | - | $1^{9}/_{32}$" | 0.829" | $^{3}/_{16}$" | $^{1}/_{4}$" UNF x 0.63" deep |
| 02 | Standard | C | 25.015 / 25.002 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5, 22 deep |
| | Inch * | N | 1.0000"/0.9995" | 1.969" | - | $1^{9}/_{16}$" | 1.106" | $^{1}/_{4}$" | $^{1}/_{4}$" UNF x 0.71" deep |
| 03 | Standard | C | 25.015 / 25.002 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5, 22 deep |
| | Inch * | N | 1.0000"/0.9995" | 1.969" | - | $1^{9}/_{16}$" | 1.106" | $^{1}/_{4}$" | $^{1}/_{4}$" UNF x 0.71" deep |
| 04 | Standard | C | 30.015 / 30.002 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5, 22 deep |
| | Inch * | N | 1.2500"/1.2495" | 2.362" | - | 2" | 1.359" | $^{1}/_{4}$" | $^{3}/_{8}$" UNF x 0.86" deep |
| 05 | Standard | C | 35.018 / 35.002 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75, 28 deep |
| | Inch * | N | 1.3750"/1.3745" | 2.756" | - | $2^{3}/_{8}$" | 1.507" | $^{5}/_{16}$" | $^{3}/_{8}$" UNF x 0.75" deep |
| 06 | Standard | C | 35.018 / 35.002 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75, 28 deep |
| | Inch * | N | 1.3750"/1.3745" | 2.756" | - | $2^{3}/_{8}$" | 1.507" | $^{5}/_{16}$" | $^{3}/_{8}$" UNF x 0.75" deep |
| 07 | Standard | C | 40.018 / 40.002 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0, 36 deep |
| | Inch * | N | 1.6250"/1.6240" | 3.150" | - | $2^{3}/_{8}$" | 1.784" | $^{3}/_{8}$" | $^{5}/_{8}$" UNF x 1.25" deep |
| 08 | Standard | C | 50.018 / 50.002 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0, 36 deep |
| | Inch * | N | 2.1250"/2.1240" | 3.937" | - | $2^{3}/_{4}$" | 2.338" | $^{1}/_{2}$" | $^{3}/_{4}$" UNF x 1.50" deep |
| 09 | Standard | C | 60.030 / 60.011 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5, 42 deep |
| | Inch * | N | 2.3750" / 2.3740" | 4.72" | - | $3^{11}/_{16}$" | 2.65" | 0.625" | $^{3}/_{4}$" UNF 1.65" deep |
| 10 | Standard | C | 70.030 / 70.011 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5, 42 deep |
| | Inch * | N | 2.875" / 2.874" | 5.51" | - | $4^{5}/_{8}$" | 3.20" | 0.75" | $^{3}/_{4}$" UNF 1.65" deep |
| 13 | Standard | C | 90.035 / 90.013 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0, 50 deep |
| | Inch * | N | 3.625" / 3.624" | 6.69" | - | $5^{15}/_{16}$" | 4.01" | 0.875" | 1" UNF 1.97" deep |
| 14 | Standard | C | 100.035 / 100.013 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0, 50 deep |
| | Inch * | N | 4.000" / 3.999" | 8.27" | - | $7^{1}/_{2}$" | 4.44" | 1.00" | 1" UNF 1.97" deep |

## DOUBLE REDUCTION UNITS

### IEC Flanges B14 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M0122 | | M0222 | | M0322 | | M0422 | | M0522 | | M0622 | | M0722 | |
| RATIO COVERAGE | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 11. | 12. - 56. | 3.6 - 11. | 12. - 56. | 5.0 - 12. | 14. - 63. | 3.6 - 9.0 | 11. - 56. |
| 71 | H | H | - | H | - | H | - | - | - | - | - | - | - | - |
| 80 | B | K | B | K | B | K | - | G | - | G | - | G | - | G |
| 90 | D | R | D | R | D | R | - | J | - | J | - | J | - | J |
| 100 | E | S | E | S | E | S | B | L | B | L | B | L | B | L |
| 112 | E | S | E | S | E | S | B | L | B | L | B | L | B | L |
| 132 | - | - | - | - | - | - | - | - | - | - | - | - | D | N |

COLUMN 12 ENTRY

Limited Availability / Non Preferred

### IEC Flanges B5 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M0122 | | M0222 | | M0322 | | M0422 | | M0522 | | M0622 | | M0722 | | M0822 | | M0921 | | M1021 | | M1321 | | | M1421 | | |
| RATIO COVERAGE | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 11. | 12. - 56. | 3.6 - 11. | 12. - 56. | 5.0 - 12. | 14. - 63. | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 1.4 - 14. | 16. - 71. | 1.4 - 14. | 16. - 71. | 2.8 - 14. | 16. - 45. | 50. - 71. | 2.8 - 14. | 16. - 45. | 50. - 71 |
| 63 | F | F | - | F | - | F | - | V | - | V | - | V | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 71 | G | G | - | G | - | G | - | D | - | D | - | D | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | A | J | A | J | A | J | W | F | W | F | W | F | - | F | - | D | - | E | - | - | - | - | - | - | - | - |
| 90 | C | Q | C | Q | C | Q | Y | H | Y | H | Y | H | - | H | - | E | - | F | - | - | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | A | K | A | K | A | K | A | K | A | F | - | G | - | E | - | G | N | - | S | W |
| 112 | - | - | - | - | - | - | A | K | A | K | A | K | A | K | A | F | - | G | - | E | - | G | N | - | S | W |
| 132 | - | - | - | - | - | - | N | P | N | P | N | P | C | M | B | G | - | H | - | F | - | H | P | - | T | X |
| 160 | - | - | - | - | - | - | - | - | - | - | - | - | E | - | C | H | A | J | A | G | A | J | Q | A | G | N |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | B | K | B | H | B | K | R | B | H | P |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | C | - | C | - | C | L | S | C | J | Q |
| 225 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | D | - | D | - | D | M | T | D | K | R |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | E | U | - | E | L | - |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | F | W | - | F | M | - |

COLUMN 12 ENTRY

### NEMA Flanges C Face - Column 12 Entry For Unit Types Column 10 Entries A, E and N Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M0122 | | M0222 | | M0322 | | M0422 | | M0522 | | M0622 | | M0722 | | M0822 | | M0921 | | M1021 | | M1321 | | | M1421 | | |
| RATIO COVERAGE | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 14. | 16. - 56. | 3.6 - 11. | 12. - 56. | 3.6 - 11. | 12. - 56. | 5.0 - 12. | 14. - 63. | 3.6 - 9.0 | 11. - 56. | 3.6 - 14. | 16. - 56. | 1.4 - 14. | 16. - 71. | 1.4 - 14. | 16. - 71. | 2.8 - 14. | 16. - 45. | 50. - 71. | 2.8 - 14. | 16. - 45. | 50. - 71 |
| 56c | T | U | T | U | T | U | - | Q | - | Q | - | Q | - | Q | - | M | - | - | - | - | - | - | - | - | - | - |
| 143/145TC | V | W | V | W | V | W | - | R | - | R | - | R | - | R | - | N | - | - | - | - | - | - | - | - | - | - |
| 182/184TC | X | - | X | - | X | - | S | T | S | T | S | T | S | T | J | P | - | S | - | P | - | N | A | - | W | X |
| 213/215TC | - | - | - | - | - | - | U | - | U | - | U | - | U | V | K | Q | - | T | - | Q | - | P | B | - | N | A |
| 254/256TC | - | - | - | - | - | - | - | - | - | - | - | - | W | - | L | U | P | U | L | R | F | Q | C | E | P | B |
| 284/286TC | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Q | V | M | S | G | R | D | F | Q | C |
| 324/326TC | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | R | W | N | T | H | S | E | G | R | D |
| 364/365TC | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | J | T | - | H | S | - |
| 404/405TC | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | K | U | - | J | T | - |

COLUMN 12 ENTRY

## TRIPLE REDUCTION UNITS

### IEC Flanges B14 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 |
| RATIO COVERAGE | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 |
| 71 | H | H | H | H | H | - | - | |
| 80 | K | K | K | K | K | K | G | G |
| 90 | R | R | R | R | R | R | J | J |
| 100 | S | S | S | S | S | S | L | L |
| 112 | S | S | S | S | S | S | L | L |
| 132 | - | - | - | - | - | - | - | N |

COLUMN 12 ENTRY

Limited Availability / Non Preferred

### IEC Flanges B5 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | | | M1431 | | |
| RATIO COVERAGE | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 | 56. - 250 | 56. - 250 | 40. - 50. | 56. - 160 | 180 - 250 | 40. - 50. | 56. - 160 | 180 - 250 |
| 63 | F | F | F | F | F | F | V | - | - | - | - | - | - | - | - | - |
| 71 | G | G | G | G | G | G | D | - | - | - | - | - | - | - | - | - |
| 80 | J | J | J | J | J | J | F | F | L | E | - | - | - | - | - | - |
| 90 | Q | Q | Q | Q | Q | Q | H | H | M | F | - | - | - | - | - | - |
| 100 | - | - | - | - | - | - | K | K | N | G | - | G | N | - | G | N |
| 112 | - | - | - | - | - | - | K | K | N | G | - | G | N | - | G | N |
| 132 | - | - | - | - | - | - | P | M | - | H | - | H | P | - | H | P |
| 160 | - | - | - | - | - | - | - | - | - | J | A | J | Q | A | J | Q |
| 180 | - | - | - | - | - | - | - | - | - | K | B | K | R | B | K | R |
| 200 | - | - | - | - | - | - | - | - | - | - | C | L | S | C | L | S |
| 225 | - | - | - | - | - | - | - | - | - | - | D | M | T | D | M | T |
| 250 | - | - | - | - | - | - | - | - | - | - | E | U | - | E | W | - |
| 280 | - | - | - | - | - | - | - | - | - | - | F | W | - | F | X | - |

COLUMN 12 ENTRY

### NEMA Flanges C Face - Column 12 Entry For Unit Types Column 10 Entries A, E and N Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | | | M1431 | | |
| RATIO COVERAGE | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 63. - 225 | 56. - 200 | 56. - 200 | 56. - 250 | 56. - 250 | 40. - 50. | 56. - 160 | 180 - 250 | 40. - 50. | 56. - 160 | 180 - 250 |
| 56c | U | U | U | U | U | U | Q | Q | X | - | - | - | - | - | - | - |
| 143/145TC | W | W | W | W | W | W | R | R | Y | - | - | - | - | - | - | - |
| 182/184TC | - | - | - | - | - | - | T | T | Z | S | - | N | A | - | N | A |
| 213/215TC | - | - | - | - | - | - | - | V | - | T | - | P | B | - | P | B |
| 254/256TC | - | - | - | - | - | - | - | - | - | U | F | Q | C | F | Q | C |
| 284/286TC | - | - | - | - | - | - | - | - | - | V | G | R | D | G | R | D |
| 324/326TC | - | - | - | - | - | - | - | - | - | W | H | S | E | H | S | E |
| 364/365TC | - | - | - | - | - | - | - | - | - | - | J | T | - | J | T | - |
| 404/405TC | - | - | - | - | - | - | - | - | - | - | K | U | - | K | U | - |

COLUMN 12 ENTRY

## QUADRUPLE REDUCTION UNITS

### IEC Flanges B14 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
| 71 | COLUMN 12 ENTRY | 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 | | - | - | - | - | - | L | L | L | L | L |
| 112 | | - | - | - | - | - | L | L | L | L | L |
| 132 | | - | - | - | - | - | - | - | N | N | N |

### IEC Flanges B5 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
| 63 | COLUMN 12 ENTRY | 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 |
| 90 | | Q | Q | Q | Q | Q | H | H | H | H | H |
| 100 | | - | - | - | - | - | K | K | K | K | K |
| 112 | | - | - | - | - | - | K | K | K | K | K |
| 132 | | - | - | - | - | - | P | P | M | M | M |

Limited Availability / Non Preferred

### NEMA Flanges C Face - Column 12 Entry For Unit Types Column 10 Entries A, E and N Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
| 56c | COLUMN 12 ENTRY | U | U | U | U | U | Q | Q | Q | Q | Q |
| 143/145TC | | W | W | W | W | W | R | R | R | R | R |
| 182/184TC | | - | - | - | - | - | T | T | T | T | T |
| 213/215TC | | - | - | - | - | - | - | - | V | V | V |

## QUINTUPLE REDUCTION UNITS

### IEC Flanges B14 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
| 71 | COLUMN 12 ENTRY | H | H | H | H | H | H | H | - | - | - |
| 80 | | K | K | K | K | K | K | K | G | G | G |
| 90 | | R | R | R | R | R | R | R | J | J | J |

### IEC Flanges B5 - Column 12 Entry For Unit Types Column 10 Entries G, H and M Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
| 63 | COLUMN 12 ENTRY | F | F | F | F | F | F | F | - | - | - |
| 71 | | G | G | G | G | G | G | G | - | - | - |
| 80 | | J | J | J | J | J | J | J | F | F | F |
| 90 | | Q | Q | Q | Q | Q | Q | Q | H | H | H |
| 100 | | - | | - | - | - | - | - | K | K | K |
| 112 | | - | | - | - | - | - | - | K | K | K |

Limited Availability / Non Preferred

### NEMA Flanges C Face - Column 12 Entry For Unit Types Column 10 Entries A, E and N Only

| MOTOR FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | RATIO COVERAGE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
| 56c | COLUMN 12 ENTRY | U | U | U | U | U | U | U | Q | Q | Q |
| 143/145TC | | W | W | W | W | W | W | W | R | R | R |
| 182/184TC | | - | - | - | - | - | - | - | T | T | T |

# LUBRICATION

M01,M02,M03,M04,M05,M06,& M07 Units, are supplied factory filled with EP mineral oil (Grade 6E) 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 Units, require filling with EP mineral oil (Grade 6E)
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 0° to 35°C, outside of this consult Table 1 or Application Engineers.

**TABLE 1 OIL GRADES**

| LUBRICANT | AMBIENT TEMPERATURE RANGE | | |
|---|---|---|---|
| | 5°C to 20°C (type E)<br>-30°C to 20°C (type H) | 0°C to 35°C | 20°C to 50°C |
| EP Mineral Oil (type E) | 5E (VG 220) | 6E (VG 320) | 7E (VG 460) |
| Polyalphaolefin based Synthetic (type H) | 5H (VG 220) | 5H (VG 220) | 6H (VG 320) |

**TABLE 2 Lubrication Quantity (Litres)**

| DOUBLE REDUCTION & FINAL STAGE QUADRUPLE OR QUINTUPLE REDUCTION | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Size | | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |
| MOUNTING POSITION | 1 | 0.5 | 0.8 | 0.8 | 1.5 | 1.5 | 2.0 | 2.6 | 4.2 | 10.5 | 14.0 | 17.0 | 24.0 |
| | 2 | 0.8 | 1.2 | 1.2 | 1.8 | 1.8 | 2.0 | 2.9 | 6.3 | 12.0 | 22.0 | 31.0 | 49.0 |
| | 3 | 0.6 | 0.7 | 0.7 | 1.6 | 1.6 | 1.9 | 2.7 | 5.4 | 12.0 | 22.0 | 31.0 | 49.0 |
| | 4 | 0.8 | 1.2 | 1.2 | 1.8 | 1.8 | 1.7 | 3.0 | 7.3 | 12.0 | 19.0 | 28.0 | 41.0 |
| | 5 | 0.7 | 1.1 | 1.1 | 2.0 | 2.0 | 2.2 | 3.2 | 6.8 | 16.8 | 32.0 | 47.0 | 72.0 |
| | 6 | 1.0 | 1.4 | 1.4 | 2.6 | 2.6 | 2.8 | 4.7 | 9.3 | 16.4 | 26.0 | 38.0 | 65.0 |

| Unit Size | | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | M1431 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MOUNTING POSITION | 1 | 0.6 | 0.8 | 0.8 | 1.6 | 1.6 | 2.1 | 2.7 | 4.4 | 11.5 | 15.0 | 18.0 | 24.5 |
| | 2 | 0.9 | 1.3 | 1.3 | 1.9 | 1.9 | 2.1 | 3.0 | 6.5 | 12.0 | 24.0 | 33.0 | 50.0 |
| | 3 | 0.7 | 0.7 | 0.7 | 1.7 | 1.7 | 2.0 | 2.8 | 5.6 | 12.0 | 24.0 | 33.0 | 50.0 |
| | 4 | 0.9 | 1.2 | 1.2 | 1.9 | 1.9 | 1.8 | 3.1 | 7.5 | 12.0 | 21.0 | 30.0 | 43.0 |
| | 5 | 0.7 | 1.1 | 1.1 | 2.1 | 2.1 | 2.3 | 3.3 | 6.8 | 16.8 | 32.0 | 47.0 | 72.0 |
| | 6 | 1.1 | 1.6 | 1.6 | 2.7 | 2.7 | 2.9 | 4.8 | 9.7 | 16.5 | 28.0 | 40.0 | 67.0 |

| PRIMARY STAGE QUADRUPLE REDUCTION (Quantities obtained from above double and triple sizes indicated) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit Size | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
| PRIMARY UNIT | M0122 | M0322 | M0322 | M0322 | M0322 | M0522 | M0522 | M0722 | M0722 | M0722 |
| SECONDARY UNIT | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |

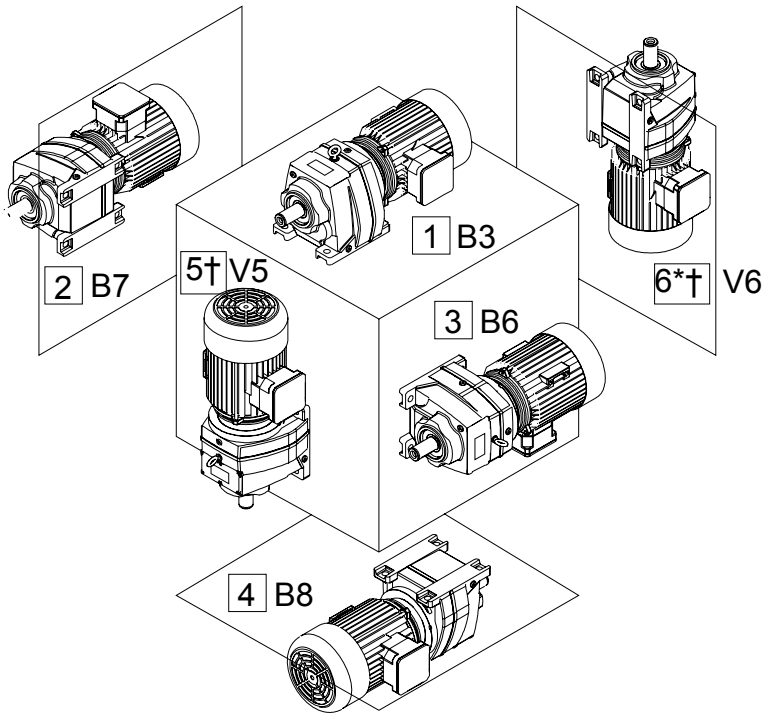
| PRIMARY STAGE QUINTUPLE REDUCTION (Quantities obtained from above double and triple sizes indicated) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit Size | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
| PRIMARY UNIT | M0132 | M0332 | M0332 | M0332 | M0332 | M0532 | M0532 | M0732 | M0732 | M0732 |
| SECONDARY UNIT | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |

# MOUNTING POSITIONS

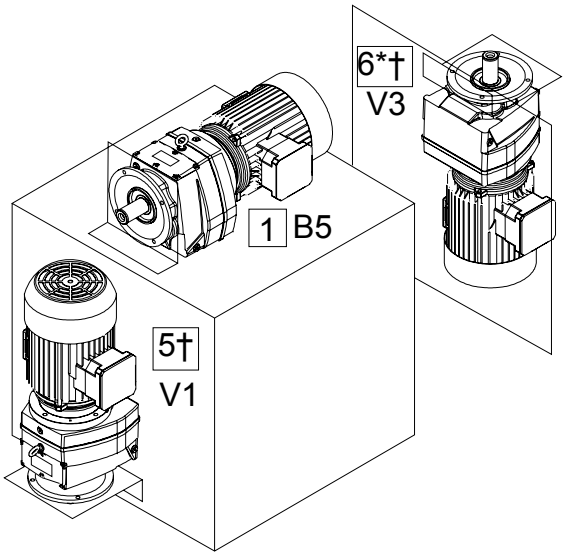
## COLUMN 13 ENTRY

Enter [-] for units with no oil fill

**Base Mounted Units**




**Flange Mounted Units**



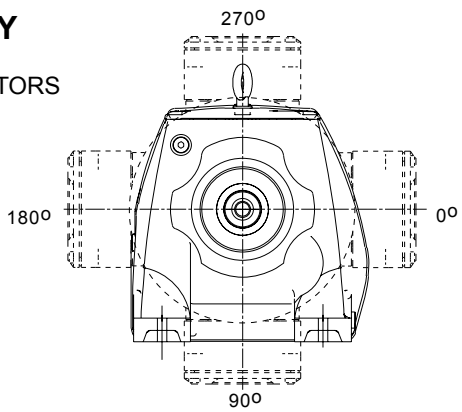

* Mounting Position 6 is not recommended for Geared Motors - Consult Application Engineering
† Gear Units selected for use in mounting positions 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below

| Unit Size | Input Speed (rpm) | | | |
|---|---|---|---|---|
| | < 1000 | < 1500 | < 1800 | > 1800 |
| M01 - M08 | All | All | All | Consult Application 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 | |

## MOUNTING POSITIONS - SHOWN AS MOTORISED - APPLIES ALSO FOR REDUCERS

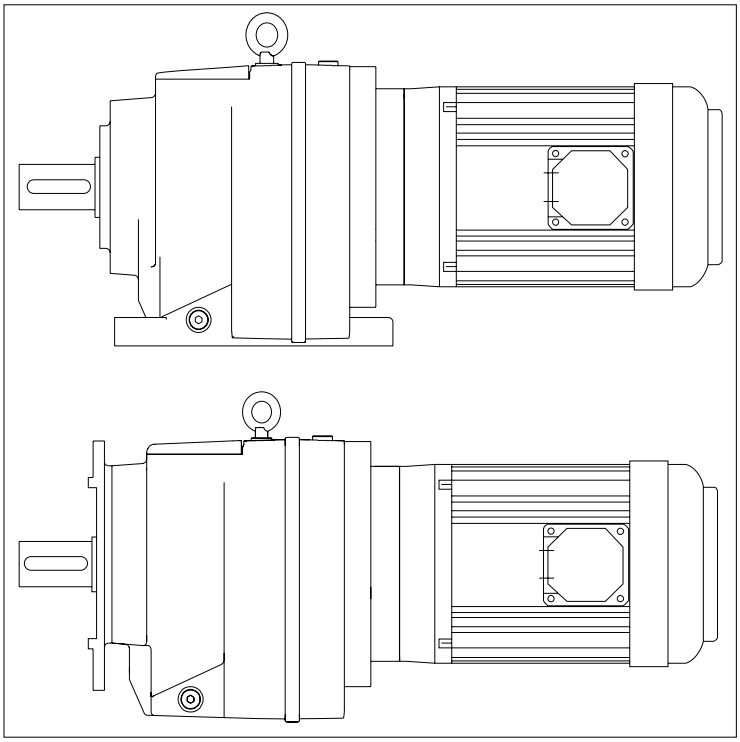
## COLUMN 14 ENTRY

ALL MOTORS




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

## NOTES



# MOTORISED
# SERIES M

# EXPLANATION & USE OF RATINGS & SERVICE FACTORS

**TEFC squirrel cage three phase motors**
**4 poles = 1500 rpm 400V, 50Hz, S1 IP55, Class F**

| Output Power Kw | Frame Size | Speed (RPM) | I (A) | Ist / I | Tst / T | J (Kgm2) |
|---|---|---|---|---|---|---|
| 0.12 | 63 | 1360 | 0.6 | 2.6 | 2.5 | 0.000 |
| 0.18 | 63 | 1370 | 0.72 | 3 | 2.2 | 0.000 |
| 0.25 | 71 | 1400 | 0.83 | 3.5 | 2.2 | 0.001 |
| 0.37 | 71 | 1410 | 1.12 | 4 | 2.2 | 0.001 |
| 0.55 | 80A | 1420 | 1.45 | 4 | 2.2 | 0.002 |
| 0.75 | 80A | 1420 | 1.8 | 4.5 | 2.2 | 0.002 |
| 1.1 | 90S | 1410 | 2.59 | 5 | 2.2 | 0.003 |
| 1.5 | 90L | 1420 | 3.45 | 5 | 2.4 | 0.004 |
| 2.2 | 100L | 1430 | 4.8 | 5.5 | 2.4 | 0.007 |
| 3 | 100L | 1430 | 6.48 | 5.5 | 2.5 | 0.008 |
| 4 | 100L | 1420 | 8.73 | 5.5 | 2.5 | 0.009 |
| 4 | 112M | 1435 | 8.6 | 7 | 2.9 | 0.015 |
| 5.5 | 112M | 1425 | 11.4 | 7.1 | 2.8 | 0.018 |
| 5.5 | 132S | 1450 | 11.1 | 7.3 | 2.2 | 0.031 |
| 7.5 | 132M | 1450 | 14.8 | 7.9 | 2.5 | 0.038 |
| 9 | 132M | 1450 | 18 | 8.1 | 2.8 | 0.043 |
| 11 | 132M | 1450 | 21 | 8.3 | 3 | 0.048 |
| 11 | 160M | 1460 | 21.5 | 6.7 | 2.9 | 0.067 |
| 15 | 160L | 1455 | 28.5 | 6.8 | 2 | 0.091 |
| 18.5 | 160L | 1450 | 36 | 6.9 | 2.9 | 0.102 |
| 18.5 | 180M | 1470 | 35 | 6.7 | 3.1 | 0.161 |
| 22 | 180L | 1470 | 41 | 6.8 | 2.9 | 0.191 |
| 30 | 180L | 1465 | 56 | 6.9 | 3.2 | 0.225 |
| 30 | 200L | 1475 | 56 | 6.7 | 2.6 | 0.29 |
| 37 | 200L | 1475 | 68 | 7.8 | 3.6 | 0.34 |
| 37 | 225S | 1480 | 68 | 6.6 | 2.4 | 0.37 |
| 45 | 225M | 1480 | 83 | 6.7 | 2.7 | 0.42 |
| 55 | 225M | 1480 | 100 | 7.3 | 3.1 | 0.49 |
| 55 | 250M | 1480 | 98 | 7.5 | 2.3 | 0.72 |
| 75 | 250M | 1480 | 132 | 7 | 2.4 | 0.88 |
| 75 | 280S | 1483 | 137 | 6.8 | 2.4 | 1.15 |
| 90 | 280M | 1484 | 163 | 7.1 | 2.7 | 1.4 |
| 110 | 280M | 1483 | 195 | 7.5 | 2.7 | 1.7 |

High Power Motor (Non Standard)

I = Nominal current
Ist/I = Starting current factor
Tst/T = Starting torque factor
J = Motor moment of inertia

## Recalculation Factors

Recalculation factors for current at rated voltages other than 400V, 50 Hz.

| Rated voltage at 50Hz and motor wound for | Recalculation factor |
|---|---|
| 220V | 1.82 |
| 230V | 1.74 |
| 415V | 0,96 |
| 500V | 0,80 |
| 660V | 0,61 |
| 690V | 0,58 |

**TEFC squirrel cage three phase motors**
**6 poles = 1000 rpm 400V, 50Hz, S1 IP55, Class F**

| Output Power Kw | Frame Size | Speed (RPM) | I (A) | Ist / I | Tst / T | J (Kgm2) |
|---|---|---|---|---|---|---|
| 0.12 | 63 | 900 | 0.6 | 2.1 | 2.1 | 0.000 |
| 0.18 | 71 | 920 | 0.75 | 2.5 | 2 | 0.001 |
| 0.25 | 71 | 920 | 0.92 | 3 | 2 | 0.001 |
| 0.37 | 80A | 920 | 1.25 | 3.5 | 2.1 | 0.002 |
| 0.55 | 80B | 930 | 1.78 | 3.5 | 2.1 | 0.002 |
| 0.75 | 90S | 930 | 2.36 | 4 | 1.9 | 0.003 |
| 1.1 | 90L | 930 | 3.25 | 4 | 1.9 | 0.004 |
| 1.5 | 100L | 940 | 5.8 | 4.5 | 1.9 | 0.009 |
| 2.2 | 112M | 940 | 5.8 | 4.5 | 1.9 | 0.009 |
| 2.2 | 100L | 940 | 5.4 | 5.6 | 2.1 | 0.015 |
| 3 | 112M | 935 | 7.2 | 5.5 | 2.4 | 0.018 |
| 3 | 132S | 960 | 6.9 | 6.1 | 2.4 | 0.031 |
| 4 | 132M | 960 | 8.7 | 7.1 | 2.6 | 0.038 |
| 5.5 | 132M | 955 | 11.9 | 6.9 | 2.8 | 0.045 |
| 7.5 | 160M | 970 | 15.4 | 6.7 | 2 | 0.089 |
| 11 | 160L | 970 | 23 | 7.1 | 2.2 | 0.107 |
| 15 | 180L | 970 | 31 | 7 | 2.1 | 0.217 |
| 18.5 | 180L | 965 | 37.5 | 6.2 | 2 | 0.237 |
| 18.5 | 200L | 985 | 36 | 7 | 2.5 | 0.370 |
| 22 | 200L | 980 | 43 | 7.2 | 2.5 | 0.430 |
| 30 | 200L | 980 | 56 | 7.5 | 3.3 | 0.490 |
| 30 | 225M | 985 | 56 | 6.6 | 2.5 | 0.640 |
| 37 | 225M | 985 | 69 | 7.7 | 3.1 | 0.750 |
| 37 | 250M | 985 | 69 | 7.3 | 2.8 | 1.160 |
| 45 | 250S | 985 | 82 | 7.3 | 2.8 | 1.490 |
| 45 | 280S | 990 | 85 | 6.6 | 2.6 | 1.650 |

High Power Motor (Non Standard)

I = Nominal current
Ist/I = Starting current factor
Tst/T = Starting torque factor
J = Motor moment of inertia

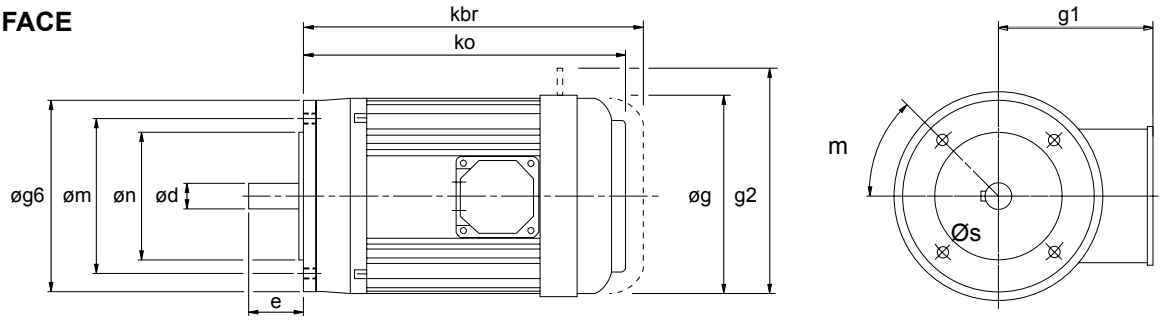
## 60 Hz Operation

Motors wound for a certain voltage at 50 Hz can be operated at 60 Hz, without any modifications, subject to the following changes in their data

| Motor wound for 50 Hz and | Connected to 60 Hz and | Data at 60 Hz in percentage of values at 50 Hz | | | | | |
|---|---|---|---|---|---|---|---|
| | | P | n | I | Ist/I | T | Tst/T |
| | | kW | rpm | A | | Nm | |
| 400V | 380V | 100 | 120 | 100 | 80 | 83 | 66 |
| | 400V | 100 | 120 | 98 | 83 | 83 | 70 |
| | 415V | 105 | 120 | 100 | 88 | 86 | 78 |
| | 440V | 110 | 120 | 100 | 95 | 91 | 85 |
| | 460V | 115 | 120 | 100 | 100 | 96 | 95 |
| | 480V | 120 | 120 | 100 | 105 | 100 | 100 |

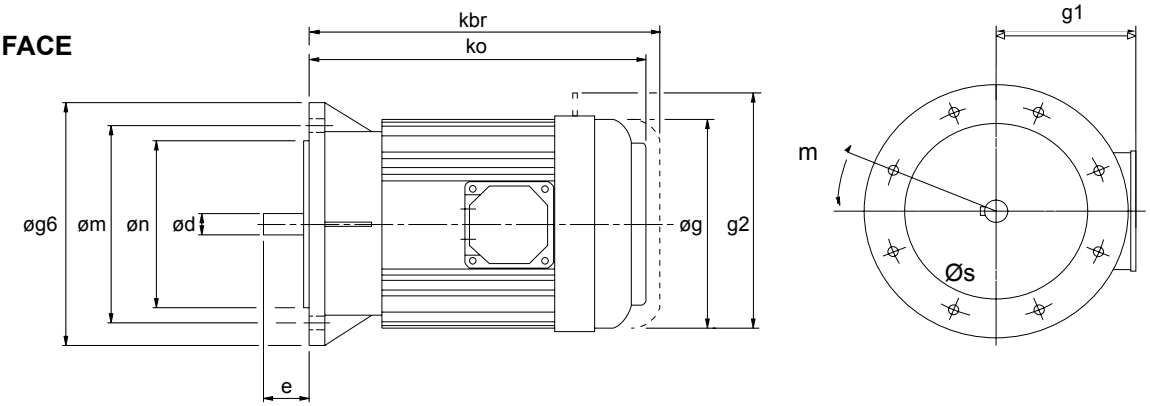
# MOTOR DETAILS

## B14 'C' FACE




| MOTOR FRAME SIZE | Øg6 | Øm | Øn | Ød | e | ko* | kbr* | Øg | g1* | m | Øs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 71 | 105 | 85 | 70 | 14 | 30 | 221 | 265 | 138 | 102 | 45° | 4 x M6 |
| 80A | 120 | 100 | 80 | 19 | 40 | 239 | 291 | 157 | 125 | 45° | 4 x M6 |
| 80B | 120 | 100 | 80 | 19 | 40 | 248 | 300 | 157 | 125 | 45° | 4 x M6 |
| 90S | 140 | 115 | 95 | 24 | 50 | 260 | 312 | 177 | 133 | 45° | 4 x M8 |
| 90L | 140 | 115 | 95 | 24 | 50 | 275 | 327 | 177 | 133 | 45° | 4 x M8 |
| 100L | 160 | 130 | 110 | 28 | 60 | 310 | 370 | 197 | 144 | 45° | 4 x M8 |
| 112M | 160 | 130 | 110 | 28 | 60 | 325 | 399 | 219 | 155 | 45° | 4 x M8 |
| 132S | 200 | 165 | 130 | 38 | 80 | 392 | 475 | 235 | 172 | 45° | 4 x M10 |
| 132M | 200 | 165 | 130 | 38 | 80 | 412 | 495 | 235 | 172 | 45° | 4 x M10 |

## B5 'D' FACE




| MOTOR FRAME SIZE | Øg6 | Øm | Øn | Ød | e | ko* | kbr* | Øg | g1* | m | Øs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 140 | 115 | 95 | 11 | 23 | 218 | 263 | 122 | 96 | 45° | 4 x M8 |
| 71 | 160 | 130 | 110 | 14 | 30 | 221 | 265 | 138 | 102 | 45° | 4 x M8 |
| 80A | 200 | 165 | 130 | 19 | 40 | 239 | 291 | 157 | 125 | 45° | 4 x M10 |
| 80B | 200 | 165 | 130 | 19 | 40 | 248 | 300 | 157 | 125 | 45° | 4 x M10 |
| 90S | 200 | 165 | 130 | 24 | 50 | 260 | 312 | 177 | 133 | 45° | 4 x M10 |
| 90L | 200 | 165 | 130 | 24 | 50 | 275 | 327 | 177 | 133 | 45° | 4 x M10 |
| 100L | 250 | 215 | 180 | 28 | 60 | 310 | 370 | 197 | 144 | 45° | 4 x M12 |
| 112M | 250 | 215 | 180 | 28 | 60 | 325 | 399 | 219 | 155 | 45° | 4 x M12 |
| 132S | 300 | 265 | 230 | 38 | 80 | 392 | 475 | 235 | 172 | 45° | 4 x M12 |
| 132M | 300 | 265 | 230 | 38 | 80 | 412 | 495 | 235 | 172 | 45° | 4 x M12 |
| 160M | 350 | 300 | 250 | 42 | 110 | 455 | 538 | 273 | 282 | 45° | 4 x M16 |
| 160L | 350 | 300 | 250 | 42 | 110 | 500 | 583 | 273 | 282 | 45° | 4 x M16 |
| 180M | 350 | 300 | 250 | 48 | 110 | 557 | - | 382 | 307 | 22.5° | 4 x M16 |
| 180L | 350 | 300 | 250 | 48 | 110 | 595 | - | 382 | 307 | 22.5° | 4 x M16 |
| 200L | 400 | 350 | 300 | 55 | 110 | 658 | - | 420 | 372 | - | 4 x M16 |
| 225S | 450 | 400 | 350 | 60 | 140 | 671 | - | 458 | 427 | - | 8 x M16 |
| 225M | 450 | 400 | 350 | 60 | 140 | 696 | - | 458 | 427 | - | 8 x M16 |
| 250M | 550 | 500 | 450 | 65 | 140 | 771 | - | 510 | 490 | - | 8 x M16 |
| 280S | 550 | 500 | 450 | 75 | 140 | 837 | - | 576 | 520 | - | 8 x M16 |
| 280M | 550 | 500 | 450 | 75 | 140 | 888 | - | 576 | 520 | - | 8 x M16 |

* Motor lengths for own brand standard motors. These lengths may vary if alternative motor is fitted.

## ADDITIONAL MOTOR FEATURES - COLUMN 19 ENTRY

| Column 19 Entry | Brake Motor | Hand Release on Brake | Forced Ventilation/ Constant Blower (TECB) | Thermistors | Special |
|---|---|---|---|---|---|
| - | | | | | |
| A | • | | | | |
| B | • | • | | | |
| C | | | • | | |
| D | • | | • | | |
| E | • | • | • | | |
| F | | | | • | |
| G | • | | | • | |
| H | • | • | | • | |
| K | | | • | • | |
| L | • | | • | • | |
| M | • | • | • | • | |
| S | | | | | • |

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

- PGF encoder flange
- Wash down
- Customised brake torque
- Separate brake supply
- Aluminium fan
- Anti Condensation heater
- Bi-metal temperature detectors, Thermostat
- EExEIIT3
- Ex nA II T3
- IP56
- IP65
- Metal fan cover
- Rain cowl
- Separate terminal box

## ADDITIONAL GEARBOX FEATURES - COLUMN 20 ENTRY

| Column 20 Entry | Double Outputshaft Oil Seals * | Oil Level Glass ** M07 - M14 | Motorised Backstop *** | | Special |
|---|---|---|---|---|---|
| | | | CW Rotation | CCW Rotation | |
| - | | | | | |
| A | • | | | | |
| B | | • | | | |
| C | • | • | | | |
| D | | | • | | |
| E | • | | • | | |
| F | | • | • | | |
| G | • | • | • | | |
| H | | | | • | |
| I | • | | | • | |
| J | | • | | • | |
| K | • | • | | • | |
| L | | | | | • |

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

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

* Double Oil Seals for output shafts sizes M08 to M14 only

** Oil level glass is NOT AVAILABLE for M01 to M06 units

*** IEC frame sizes 100 - 200 NEMA frame sizes 182TC - 326TC

**0.12 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 363 | 3.75 | 3 | 19.46 | 1690 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 1 2 A - - | 13.5 | 63 |
| 268 | 5.07 | 4 | 16.34 | 1790 | 5 . 0 | | |
| 236 | 5.76 | 4 | 15.24 | 1840 | 5 . 6 | | |
| 208 | 6.53 | 5 | 14.07 | 1880 | 6 . 3 | | |
| 163 | 8.35 | 6 | 11.65 | 1900 | 8 . 0 | | |
| 151 | 9 | 7 | 10.94 | 1900 | 9 . 0 | | |
| 120 | 11.36 | 9 | 9.07 | 1900 | 1 1 . | | |
| 106 | 12.88 | 10 | 8.29 | 1900 | 1 2 . | | |
| 92 | 14.71 | 11 | 7.48 | 1900 | 1 4 . | | |
| 83 | 16.37 | 13 | 6.75 | 1900 | 1 6 . | | |
| 75 | 18.05 | 14 | 6.11 | 1900 | 1 8 . | | |
| 68 | 19.86 | 16 | 5.56 | 1900 | 2 0 . | | |
| 58 | 23.27 | 18 | 4.74 | 1900 | 2 2 . | | |
| 49 | 27.92 | 22 | 3.96 | 1900 | 2 8 . | | |
| 42 | 32.54 | 26 | 3.41 | 1900 | 3 2 . | | |
| 38 | 36.16 | 29 | 3.07 | 1900 | 3 6 . | | |
| 31 | 43.54 | 35 | 2.38 | 1900 | 4 5 . | | |
| 27 | 49.91 | 40 | 1.78 | 1900 | 5 0 . | | |
| 24 | 56.72 | 45 | 1.54 | 1900 | 5 6 . | | |
| 23 | 58.46 | 46 | 1.93 | 1900 | M 0 1 3 2 5 6 . _ M _ _ _ _ . 1 2 A - - | 14.5 | 63 |
| 21 | 64.45 | 51 | 1.75 | 1900 | 6 3 . | | |
| 19 | 70.93 | 56 | 1.59 | 1900 | 7 1 . | | |
| 16 | 83.1 | 66 | 1.36 | 1900 | 8 0 . | | |
| 14 | 99.7 | 79 | 1.13 | 1830 | 1 0 0 | | |
| 12 | 116.22 | 92 | 0.97 | 1650 | 1 1 2 | | |
| 11 | 129.13 | 102 | 0.88 | 1360 | 1 2 5 | | |
| 25 | 53.54 | 43 | 3.69 | 4000 | M 0 2 2 2 5 6 . _ M _ _ _ _ . 1 2 A - - | 16.5 | 63 |
| 24 | 57.03 | 45 | 3.5 | 4000 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 1 2 A - - | 17.5 | 63 |
| 22 | 62.87 | 50 | 3.17 | 4000 | 6 3 . | | |
| 20 | 69.19 | 55 | 2.88 | 4000 | 7 1 . | | |
| 17 | 81.07 | 64 | 2.46 | 4000 | 8 0 . | | |
| 14 | 97.26 | 77 | 2.06 | 4000 | 1 0 0 | | |
| 12 | 113.37 | 90 | 1.77 | 4000 | 1 1 2 | | |
| 11 | 125.97 | 100 | 1.59 | 4000 | 1 2 5 | | |
| 9 | 151.69 | 121 | 1.32 | 4000 | 1 6 0 | | |
| 7.8 | 173.87 | 139 | 1.15 | 4000 | 1 8 0 | | |
| 6.9 | 197.6 | 157 | 1.02 | 4000 | 2 0 0 | | |
| 20 | 69.19 | 55 | 3.77 | 4000 | M 0 3 3 2 7 1 . _ M _ _ _ _ . 1 2 A - - | 17.5 | 63 |
| 17 | 81.07 | 64 | 3.22 | 4000 | 8 0 . | | |
| 14 | 97.26 | 77 | 2.69 | 4000 | 1 0 0 | | |
| 12 | 113.37 | 90 | 2.31 | 4000 | 1 1 2 | | |
| 11 | 125.97 | 100 | 2.08 | 4000 | 1 2 5 | | |
| 9 | 151.69 | 121 | 1.72 | 4000 | 1 6 0 | | |
| 7.8 | 173.87 | 138 | 1.51 | 4000 | 1 8 0 | | |
| 6.9 | 197.6 | 157 | 1.33 | 4000 | 2 0 0 | | |
| 5.8 | 234.96 | 182 | 1.15 | 3026 | M 0 3 4 2 2 2 5 _ M _ _ _ _ . 1 2 A - - | 26.5 | 63 |
| 5.2 | 261.37 | 202 | 1.03 | 3026 | 2 5 0 | | |
| 4.7 | 287.83 | 222 | 0.94 | 3026 | 2 8 0 | | |
| 4.3 | 317.33 | 245 | 0.85 | 3026 | 3 0 0 | | |
| 12 | 115.82 | 92 | 3.64 | 7200 | M 0 4 3 2 1 1 2 _ M _ _ _ _ . 1 2 A - - | 26.5 | 63 |
| 10 | 130.5 | 104 | 3.24 | 7200 | 1 2 5 | | |
| 9 | 151.71 | 121 | 2.78 | 7200 | 1 6 0 | | |
| 7.9 | 172.19 | 137 | 2.45 | 7200 | 1 8 0 | | |
| 6.9 | 195.75 | 156 | 2.16 | 7200 | 2 0 0 | | |
| 9 | 151.71 | 121 | 3.7 | 7200 | M 0 5 3 2 1 6 0 _ M _ _ _ _ . 1 2 A - - | 27.5 | 63 |
| 7.9 | 172.19 | 138 | 3.26 | 7200 | 1 8 0 | | |
| 6.9 | 195.75 | 156 | 2.87 | 7200 | 2 0 0 | | |
| 6.4 | 213.18 | 171 | 3.66 | 7200 | M 0 6 3 2 2 0 0 _ M _ - _ _ . 1 2 A - - | 32.5 | 63 |

**0.12 kW**

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 232 | 3.75 | 4 | 14.27 | 1810 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 1 2 C - - | 13.5 | 63 |
| 172 | 5.07 | 6 | 11.71 | 1900 | 5 . 0 | | |
| 151 | 5.76 | 7 | 10.65 | 1900 | 5 . 6 | | |
| 133 | 6.53 | 8 | 9.59 | 1900 | 6 . 3 | | |
| 104 | 8.35 | 10 | 8.01 | 1900 | 8 . 0 | | |
| 97 | 9 | 11 | 7.54 | 1900 | 9 . 0 | | |
| 77 | 11.36 | 14 | 6.19 | 1900 | 1 1 . | | |
| 68 | 12.88 | 16 | 5.47 | 1900 | 1 2 . | | |
| 59 | 14.71 | 18 | 4.79 | 1900 | 1 4 . | | |
| 53 | 16.37 | 20 | 4.31 | 1900 | 1 6 . | | |
| 48 | 18.05 | 22 | 3.9 | 1900 | 1 8 . | | |
| 44 | 19.86 | 25 | 3.55 | 1900 | 2 0 . | | |
| 37 | 23.27 | 29 | 3.04 | 1900 | 2 2 . | | |
| 31 | 27.92 | 35 | 2.54 | 1900 | 2 8 . | | |
| 27 | 32.54 | 41 | 2.17 | 1900 | 3 2 . | | |
| 24 | 36.16 | 45 | 1.96 | 1900 | 3 6 . | | |
| 20 | 43.54 | 55 | 1.52 | 1900 | 4 5 . | | |
| 17 | 49.91 | 63 | 1.14 | 1900 | 5 0 . | | |
| 15 | 56.72 | 71 | 0.99 | 1900 | 5 6 . | | |

NOTE

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

## 0.12 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 15 | 58.46 | 72 | 1.23 | 1900 | M 0 1 3 2 5 6 . _ M _ _ _ _ . 1 2 C - - | 14.5 | 63 |
| 13 | 64.45 | 80 | 1.12 | 1900 | 6 3 . | | |
| 12 | 70.93 | 88 | 1.01 | 1900 | 7 1 . | | |
| 10 | 83.1 | 103 | 0.87 | 1360 | 8 0 . | | |
| 21 | 41.49 | 52 | 3.04 | 4000 | M 0 2 2 2 4 5 . _ M _ _ _ _ . 1 2 C - - | 16.5 | 63 |
| 18 | 47.09 | 59 | 2.68 | 4000 | 5 0 . | | |
| 16 | 53.54 | 67 | 2.36 | 4000 | 5 6 . | | |
| 15 | 57.03 | 71 | 2.24 | 4000 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 1 2 C - - | 17.5 | 63 |
| 14 | 62.87 | 79 | 2.02 | 4000 | 6 3 . | | |
| 13 | 69.19 | 86 | 1.84 | 4000 | 7 1 . | | |
| 11 | 81.07 | 101 | 1.57 | 4000 | 8 0 . | | |
| 8.9 | 97.26 | 121 | 1.31 | 4000 | 1 0 0 | | |
| 7.7 | 113.37 | 142 | 1.13 | 4000 | 1 1 2 | | |
| 6.9 | 125.97 | 156 | 1.02 | 4000 | 1 2 5 | | |
| 5.7 | 151.69 | 189 | 0.85 | 3200 | 1 6 0 | | |
| 13 | 69.19 | 86 | 2.41 | 4000 | M 0 3 3 2 7 1 . _ M _ _ _ _ . 1 2 C - - | 17.5 | 63 |
| 11 | 81.07 | 101 | 2.05 | 4000 | 8 0 . | | |
| 8.9 | 97.26 | 121 | 1.71 | 4000 | 1 0 0 | | |
| 7.7 | 113.37 | 141 | 1.47 | 4000 | 1 1 2 | | |
| 6.9 | 125.97 | 157 | 1.33 | 4000 | 1 2 5 | | |
| 5.7 | 151.69 | 189 | 1.1 | 3500 | 1 6 0 | | |
| 5 | 173.87 | 217 | 0.96 | 3000 | 1 8 0 | | |
| 4.4 | 197.6 | 247 | 0.85 | 2400 | 2 0 0 | | |
| 7.5 | 115.82 | 145 | 2.33 | 7200 | M 0 4 3 2 1 1 2 _ M _ _ _ _ . 1 2 C - - | 26.5 | 63 |
| 6.7 | 130.5 | 163 | 2.07 | 7200 | 1 2 5 | | |
| 5.7 | 151.71 | 190 | 1.77 | 7200 | 1 6 0 | | |
| 5.1 | 172.19 | 215 | 1.57 | 7200 | 1 8 0 | | |
| 4.4 | 195.75 | 244 | 1.38 | 7200 | 2 0 0 | | |
| 5.7 | 151.71 | 190 | 2.36 | 7200 | M 0 5 3 2 1 6 0 _ M _ _ _ _ . 1 2 C - - | 27.5 | 63 |
| 5.1 | 172.19 | 215 | 2.08 | 7200 | 1 8 0 | | |
| 4.4 | 195.75 | 245 | 1.84 | 7200 | 2 0 0 | | |
| 4.1 | 213.18 | 267 | 2.34 | 7200 | M 0 6 3 2 2 0 0 _ M _ _ _ _ . 1 2 C - - | 32.5 | 63 |

## 0.18 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 365 | 3.75 | 4 | 13.07 | 1681 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 1 8 A - - | 13.5 | 63 |
| 270 | 5.07 | 6 | 10.97 | 1778 | 5 . 0 | | |
| 238 | 5.76 | 6 | 10.24 | 1826 | 5 . 6 | | |
| 210 | 6.53 | 7 | 9.45 | 1856 | 6 . 3 | | |
| 164 | 8.35 | 10 | 7.82 | 1873 | 8 . 0 | | |
| 152 | 9 | 10 | 7.35 | 1872 | 9 . 0 | | |
| 121 | 11.36 | 13 | 6.09 | 1874 | 1 1 . | | |
| 106 | 12.88 | 15 | 5.56 | 1874 | 1 2 . | | |
| 93 | 14.71 | 17 | 5.02 | 1854 | 1 4 . | | |
| 84 | 16.37 | 19 | 4.53 | 1890 | 1 6 . | | |
| 76 | 18.05 | 21 | 4.1 | 1877 | 1 8 . | | |
| 69 | 19.86 | 24 | 3.73 | 1852 | 2 0 . | | |
| 59 | 23.27 | 28 | 3.19 | 1881 | 2 2 . | | |
| 49 | 27.92 | 33 | 2.66 | 1819 | 2 8 . | | |
| 42 | 32.54 | 39 | 2.29 | 1878 | 3 2 . | | |
| 38 | 36.16 | 43 | 2.06 | 1854 | 3 6 . | | |
| 31 | 43.54 | 52 | 1.6 | 1890 | 4 5 . | | |
| 27 | 49.91 | 60 | 1.2 | 1849 | 5 0 . | | |
| 24 | 56.72 | 68 | 1.03 | 1900 | 5 6 . | | |
| 23 | 58.46 | 69 | 1.3 | 1724 | M 0 1 3 2 5 6 . _ M _ _ _ _ . 1 8 A - - | 14.5 | 63 |
| 21 | 64.45 | 76 | 1.18 | 1590 | 6 3 . | | |
| 19 | 70.93 | 84 | 1.07 | 1780 | 7 1 . | | |
| 16 | 83.1 | 98 | 0.91 | 1450 | 8 0 . | | |
| 38 | 35.69 | 43 | 3.72 | 4000 | M 0 2 2 2 3 6 . _ M _ _ _ _ . 1 8 A - - | 16.5 | 63 |
| 33 | 41.49 | 50 | 3.19 | 4000 | 4 5 . | | |
| 29 | 47.09 | 56 | 2.81 | 4000 | 5 0 . | | |
| 26 | 53.54 | 64 | 2.48 | 3956 | 5 6 . | | |
| 24 | 57.03 | 68 | 2.35 | 4000 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 1 8 A - - | 17.5 | 63 |
| 22 | 62.87 | 75 | 2.13 | 4000 | 6 3 . | | |
| 20 | 69.19 | 82 | 1.94 | 4000 | 7 1 . | | |
| 17 | 81.07 | 96 | 1.65 | 3913 | 8 0 . | | |
| 14 | 97.26 | 115 | 1.38 | 4000 | 1 0 0 | | |
| 12 | 113.37 | 134 | 1.19 | 3976 | 1 1 2 | | |
| 11 | 125.97 | 149 | 1.07 | 4000 | 1 2 5 | | |
| 9 | 151.69 | 180 | 0.89 | 4000 | 1 6 0 | | |
| 33 | 41.49 | 50 | 3.96 | 4000 | M 0 3 2 2 4 5 . _ M _ _ _ _ . 1 8 A - - | 16.5 | 63 |
| 29 | 47.09 | 56 | 3.57 | 4000 | 5 0 . | | |
| 26 | 53.54 | 64 | 3.19 | 4000 | 5 6 . | | |
| 24 | 57.03 | 68 | 3.07 | 4000 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 1 8 A - - | 17.5 | 63 |
| 22 | 62.87 | 75 | 2.78 | 4000 | 6 3 . | | |
| 20 | 69.19 | 82 | 2.53 | 3743 | 7 1 . | | |
| 17 | 81.07 | 96 | 2.16 | 3913 | 8 0 . | | |
| 14 | 97.26 | 115 | 1.81 | 3654 | 1 0 0 | | |
| 12 | 113.37 | 134 | 1.55 | 3976 | 1 1 2 | | |
| 11 | 125.97 | 149 | 1.4 | 3718 | 1 2 5 | | |
| 9 | 151.69 | 180 | 1.15 | 3173 | 1 6 0 | | |
| 7.9 | 173.87 | 206 | 1.01 | 3420 | 1 8 0 | | |
| 6.9 | 197.6 | 234 | 0.89 | 2660 | 2 0 0 | | |

NOTE

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

## 0.18 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 19 | 73.95 | 88 | 3.82 | 7200 | M 0 4 3 2 7 1 . _ M _ _ _ _ . 1 8 A - - | 26.5 | 63 |
| 17 | 80.4 | 96 | 3.51 | 7200 | 8 0 . | | |
| 14 | 96.52 | 115 | 2.93 | 7200 | 1 0 0 | | |
| 12 | 115.82 | 138 | 2.45 | 7102 | 1 1 2 | | |
| 10 | 130.5 | 155 | 2.17 | 7200 | 1 2 5 | | |
| 9 | 151.71 | 180 | 1.87 | 7178 | 1 6 0 | | |
| 8 | 172.19 | 205 | 1.65 | 7034 | 1 8 0 | | |
| 7 | 195.75 | 233 | 1.45 | 7200 | 2 0 0 | | |
| 5.9 | 232.81 | 269 | 1.25 | 7125 | M 0 4 4 2 2 2 5 _ M _ _ _ _ . 1 8 A - - | 38.5 | 63 |
| 5.3 | 260.47 | 300 | 1.12 | 7125 | 2 5 0 | | |
| 4.9 | 277.62 | 320 | 1.06 | 7125 | 2 8 0 | | |
| 4.5 | 305.72 | 353 | 0.96 | 7125 | 3 0 0 | | |
| 3.8 | 362.32 | 416 | 0.81 | 7125 | 3 6 0 | | |
| 14 | 96.52 | 115 | 3.89 | 7200 | M 0 5 3 2 1 0 0 _ M _ _ _ _ . 1 8 A - - | 27.5 | 63 |
| 12 | 115.82 | 138 | 3.25 | 7200 | 1 1 2 | | |
| 10 | 130.5 | 155 | 2.89 | 7200 | 1 2 5 | | |
| 9 | 151.71 | 181 | 2.48 | 6660 | 1 6 0 | | |
| 8 | 172.19 | 205 | 2.19 | 6902 | 1 8 0 | | |
| 7 | 195.75 | 233 | 1.93 | 6628 | 2 0 0 | | |
| 5.9 | 232.81 | 271 | 1.66 | 4809 | M 0 5 4 2 2 2 5 _ M _ _ _ _ . 1 8 A - - | 40.5 | 63 |
| 5.3 | 260.47 | 302 | 1.49 | 4809 | 2 5 0 | | |
| 4.9 | 277.62 | 322 | 1.4 | 4809 | 2 8 0 | | |
| 4.5 | 305.72 | 355 | 1.27 | 4809 | 3 0 0 | | |
| 3.8 | 362.32 | 419 | 1.07 | 4809 | 3 6 0 | | |
| 3.3 | 416.75 | 482 | 0.93 | 4809 | 4 0 0 | | |
| 3.1 | 444.96 | 514 | 0.87 | 4809 | 4 5 0 | | |
| 2.8 | 483.76 | 559 | 0.8 | 4809 | 5 0 0 | | |
| 8.5 | 161.57 | 192 | 3.24 | 7200 | M 0 6 3 2 1 6 0 _ M _ _ _ _ . 1 8 A - - | 32.5 | 63 |
| 7.3 | 187.83 | 224 | 2.79 | 7200 | 1 8 0 | | |
| 6.4 | 213.18 | 254 | 2.46 | 7200 | 2 0 0 | | |
| 6.4 | 215.23 | 252 | 2.48 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 1 8 A - - | 45.5 | 63 |
| 5.8 | 237.02 | 278 | 2.25 | 7200 | 2 5 0 | | |
| 5 | 272.91 | 318 | 1.66 | 7200 | 2 8 0 | | |
| 4.4 | 313.91 | 366 | 1.44 | 7200 | 3 0 0 | | |
| 3.8 | 365.1 | 426 | 1.4 | 7200 | 3 6 0 | | |
| 3.5 | 396.93 | 463 | 1.29 | 7200 | 4 0 0 | | |
| 3.1 | 444.1 | 516 | 1.21 | 7200 | 4 5 0 | | |
| 2.6 | 533.13 | 620 | 1.01 | 7200 | 5 0 0 | | |
| 2.4 | 568.23 | 661 | 0.95 | 7200 | 6 5 0 | | |
| 6 | 229 | 268 | 3.24 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 1 8 A - - | 52.5 | 63 |
| 5.3 | 259.68 | 303 | 2.86 | 4676 | 2 5 0 | | |
| 4.8 | 286.42 | 334 | 2.59 | 4676 | 2 8 0 | | |
| 4.3 | 315.41 | 368 | 2.35 | 4676 | 3 0 0 | | |
| 3.8 | 361.21 | 421 | 2.06 | 4675 | 3 6 0 | | |
| 3.3 | 415.49 | 484 | 1.79 | 4675 | 4 0 0 | | |
| 2.9 | 469.77 | 546 | 1.59 | 4675 | 4 5 0 | | |
| 2.7 | 510.72 | 594 | 1.46 | 4675 | 5 0 0 | | |
| 2.3 | 592.12 | 687 | 1.26 | 4675 | 6 5 0 | | |
| 1.9 | 710.84 | 824 | 1.05 | 4675 | 7 3 0 | | |
| 1.6 | 847.84 | 979 | 0.89 | 4674 | 8 6 0 | | |

## 0.18 kW

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 240 | 3.75 | 6 | 9.84 | 1791 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 1 8 C - - | 14.5 | 71 |
| 178 | 5.07 | 9 | 8.07 | 1874 | 5 . 0 | | |
| 156 | 5.76 | 10 | 7.34 | 1874 | 5 . 6 | | |
| 138 | 6.53 | 12 | 6.61 | 1874 | 6 . 3 | | |
| 108 | 8.35 | 15 | 5.52 | 1874 | 8 . 0 | | |
| 100 | 9 | 16 | 5.2 | 1868 | 9 . 0 | | |
| 79 | 11.36 | 21 | 4.27 | 1822 | 1 1 . | | |
| 70 | 12.88 | 23 | 3.77 | 1792 | 1 2 . | | |
| 61 | 14.71 | 27 | 3.3 | 1783 | 1 4 . | | |
| 55 | 16.37 | 30 | 2.97 | 1786 | 1 6 . | | |
| 50 | 18.05 | 33 | 2.69 | 1750 | 1 8 . | | |
| 45 | 19.86 | 36 | 2.45 | 1719 | 2 0 . | | |
| 39 | 23.27 | 42 | 2.09 | 1712 | 2 2 . | | |
| 32 | 27.92 | 51 | 1.75 | 1634 | 2 8 . | | |
| 28 | 32.54 | 59 | 1.5 | 1631 | 3 2 . | | |
| 25 | 36.16 | 66 | 1.35 | 1540 | 3 6 . | | |
| 21 | 43.54 | 80 | 1.05 | 1496 | 4 5 . | | |
| 15 | 58.46 | 105 | 0.85 | 730 | M 0 1 3 2 5 6 . _ M _ _ _ _ . 1 8 C - - | 15.5 | 71 |
| 34 | 26.4 | 48 | 3.29 | 4000 | M 0 2 2 2 2 8 . _ M _ _ _ _ . 1 8 C - - | 18.5 | 71 |
| 28 | 31.68 | 58 | 2.74 | 4000 | 3 2 . | | |
| 25 | 35.69 | 65 | 2.44 | 4000 | 3 6 . | | |
| 22 | 41.49 | 76 | 2.09 | 3824 | 4 5 . | | |
| 19 | 47.09 | 86 | 1.85 | 3706 | 5 0 . | | |
| 17 | 53.54 | 98 | 1.63 | 3571 | 5 6 . | | |
| 16 | 57.03 | 103 | 1.54 | 3829 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 1 8 C - - | 19.5 | 71 |
| 14 | 62.87 | 114 | 1.4 | 3685 | 6 3 . | | |
| 13 | 69.19 | 125 | 1.27 | 3532 | 7 1 . | | |
| 11 | 81.07 | 147 | 1.08 | 3243 | 8 0 . | | |
| 9.3 | 97.26 | 176 | 0.91 | 3270 | 1 0 0 | | |
| 28 | 31.68 | 58 | 3.58 | 4000 | M 0 3 2 2 3 2 . _ M _ _ _ _ . 1 8 C - - | 18.5 | 71 |
| 25 | 35.69 | 65 | 3.19 | 4000 | 3 6 . | | |
| 22 | 41.49 | 76 | 2.69 | 4000 | 4 5 . | | |
| 19 | 47.09 | 86 | 2.41 | 4000 | 5 0 . | | |
| 17 | 53.54 | 98 | 2.09 | 4000 | 5 6 . | | |
| 16 | 57.03 | 103 | 2.02 | 4000 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 1 8 C - - | 19.5 | 71 |
| 14 | 62.87 | 114 | 1.82 | 4000 | 6 3 . | | |
| 13 | 69.19 | 125 | 1.66 | 3441 | 7 1 . | | |
| 11 | 81.07 | 147 | 1.42 | 3243 | 8 0 . | | |
| 9.3 | 97.26 | 176 | 1.18 | 3039 | 1 0 0 | | |
| 7.9 | 113.37 | 205 | 1.02 | 2493 | 1 1 2 | | |
| 7.1 | 125.97 | 228 | 0.92 | 1766 | 1 2 5 | | |

NOTE

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

## 0.18 kW

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 15 | 58.38 | 106 | 3.17 | 7200 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 1 8 C - - | 28.5 | 71 |
| 14 | 64.29 | 117 | 2.88 | 7200 | 6 3 . | | |
| 12 | 73.95 | 134 | 2.51 | 7200 | 7 1 . | | |
| 11 | 80.4 | 146 | 2.31 | 7200 | 8 0 . | | |
| 9.3 | 96.52 | 175 | 1.92 | 7200 | 1 0 0 | | |
| 7.8 | 115.82 | 210 | 1.6 | 6442 | 1 1 2 | | |
| 6.9 | 130.5 | 236 | 1.43 | 6712 | 1 2 5 | | |
| 5.9 | 151.71 | 276 | 1.22 | 6295 | 1 6 0 | | |
| 5.2 | 172.19 | 312 | 1.08 | 5901 | 1 8 0 | | |
| 4.6 | 195.75 | 354 | 0.95 | 6203 | 2 0 0 | | |
| 3.9 | 232.81 | 412 | 0.82 | 7125 | M 0 4 4 2 2 2 2 5 _ M _ _ _ _ . 1 8 C - - | 40.5 | 71 |
| 12 | 73.95 | 135 | 3.33 | 7200 | M 0 5 3 2 7 1 . _ M _ _ _ _ . 1 8 C - - | 28.5 | 71 |
| 11 | 80.4 | 146 | 3.06 | 7200 | 8 0 . | | |
| 9.3 | 96.52 | 175 | 2.56 | 7200 | 1 0 0 | | |
| 7.8 | 115.82 | 210 | 2.14 | 7200 | 1 1 2 | | |
| 6.9 | 130.5 | 237 | 1.9 | 7200 | 1 2 5 | | |
| 5.9 | 151.71 | 276 | 1.63 | 6195 | 1 6 0 | | |
| 5.2 | 172.19 | 313 | 1.44 | 5820 | 1 8 0 | | |
| 4.6 | 195.75 | 355 | 1.27 | 5274 | 2 0 0 | | |
| 3.9 | 232.81 | 413 | 1.09 | 4809 | M 0 5 4 2 2 2 5 _ M _ _ _ _ . 1 8 C - - | 41.5 | 71 |
| 3.5 | 260.47 | 461 | 0.97 | 4809 | 2 5 0 | | |
| 3.2 | 277.62 | 492 | 0.91 | 4809 | 2 8 0 | | |
| 2.9 | 305.72 | 542 | 0.83 | 4809 | 3 0 0 | | |
| 7.5 | 119.5 | 218 | 2.87 | 7200 | M 0 6 3 2 1 1 2 _ M _ _ _ _ . 1 8 C - - | 33.5 | 71 |
| 6.3 | 143.39 | 261 | 2.4 | 7200 | 1 2 5 | | |
| 5.6 | 161.57 | 293 | 2.13 | 7200 | 1 6 0 | | |
| 4.8 | 187.83 | 342 | 1.83 | 7200 | 1 8 0 | | |
| 4.2 | 213.18 | 387 | 1.61 | 6215 | 2 0 0 | | |
| 4.2 | 215.23 | 384 | 1.62 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 1 8 C - - | 47.5 | 71 |
| 3.8 | 237.02 | 423 | 1.47 | 7200 | 2 5 0 | | |
| 3.3 | 272.91 | 486 | 1.09 | 7200 | 2 8 0 | | |
| 2.9 | 313.91 | 558 | 0.95 | 7200 | 3 0 0 | | |
| 2.5 | 365.1 | 649 | 0.92 | 7200 | 3 6 0 | | |
| 2.3 | 396.93 | 706 | 0.85 | 7200 | 4 0 0 | | |
| 3.9 | 229 | 408 | 2.12 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 1 8 C - - | 54.5 | 71 |
| 3.5 | 259.68 | 462 | 1.88 | 4676 | 2 5 0 | | |
| 3.1 | 286.42 | 510 | 1.7 | 4676 | 2 8 0 | | |
| 2.9 | 315.41 | 562 | 1.54 | 4676 | 3 0 0 | | |
| 2.5 | 361.21 | 642 | 1.35 | 4675 | 3 6 0 | | |
| 2.2 | 415.49 | 738 | 1.17 | 4675 | 4 0 0 | | |
| 1.9 | 469.77 | 833 | 1.04 | 4675 | 4 5 0 | | |
| 1.8 | 510.72 | 906 | 0.96 | 4675 | 5 0 0 | | |
| 1.5 | 592.12 | 1048 | 0.83 | 4675 | 6 5 0 | | |

## 0.25 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 373 | 3.75 | 6 | 9.62 | 1670 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 2 5 A - - | 14.5 | 71 |
| 276 | 5.07 | 8 | 8.07 | 1764 | 5 . 0 | | |
| 243 | 5.76 | 9 | 7.53 | 1810 | 5 . 6 | | |
| 214 | 6.53 | 10 | 6.95 | 1829 | 6 . 3 | | |
| 168 | 8.35 | 13 | 5.75 | 1841 | 8 . 0 | | |
| 156 | 9 | 14 | 5.41 | 1840 | 9 . 0 | | |
| 123 | 11.36 | 18 | 4.48 | 1845 | 1 1 . | | |
| 109 | 12.88 | 21 | 4.09 | 1845 | 1 2 . | | |
| 95 | 14.71 | 24 | 3.7 | 1800 | 1 4 . | | |
| 86 | 16.37 | 26 | 3.33 | 1879 | 1 6 . | | |
| 78 | 18.05 | 29 | 3.02 | 1850 | 1 8 . | | |
| 70 | 19.86 | 32 | 2.75 | 1796 | 2 0 . | | |
| 60 | 23.27 | 38 | 2.34 | 1860 | 2 2 . | | |
| 50 | 27.92 | 45 | 1.96 | 1724 | 2 8 . | | |
| 43 | 32.54 | 53 | 1.68 | 1853 | 3 2 . | | |
| 39 | 36.16 | 59 | 1.52 | 1801 | 3 6 . | | |
| 32 | 43.54 | 71 | 1.17 | 1880 | 4 5 . | | |
| 28 | 49.91 | 81 | 0.88 | 1790 | 5 0 . | | |
| 24 | 58.46 | 94 | 0.95 | 1520 | M 0 1 3 2 5 6 . _ M _ _ _ _ . 2 5 A - - | 15.5 | 71 |
| 22 | 64.45 | 103 | 0.87 | 1230 | 6 3 . | | |
| 53 | 26.4 | 43 | 3.68 | 4000 | M 0 2 2 2 2 8 . _ M _ _ _ _ . 2 5 A - - | 18.5 | 71 |
| 44 | 31.68 | 52 | 3.07 | 4000 | 3 2 . | | |
| 39 | 35.69 | 58 | 2.73 | 4000 | 3 6 . | | |
| 34 | 41.49 | 68 | 2.35 | 4000 | 4 5 . | | |
| 30 | 47.09 | 77 | 2.07 | 4000 | 5 0 . | | |
| 26 | 53.54 | 87 | 1.82 | 3906 | 5 6 . | | |
| 25 | 57.03 | 92 | 1.73 | 4000 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 2 5 A - - | 19.5 | 71 |
| 22 | 62.87 | 102 | 1.57 | 4000 | 6 3 . | | |
| 20 | 69.19 | 112 | 1.43 | 4000 | 7 1 . | | |
| 17 | 81.07 | 131 | 1.22 | 3812 | 8 0 . | | |
| 14 | 97.26 | 157 | 1.02 | 4000 | 1 0 0 | | |
| 12 | 113.37 | 183 | 0.87 | 3950 | 1 1 2 | | |
| 39 | 35.69 | 58 | 3.57 | 3837 | M 0 3 2 2 3 6 . _ M _ _ _ _ . 2 5 A - - | 18.5 | 71 |
| 34 | 41.49 | 68 | 2.91 | 3921 | 4 5 . | | |
| 30 | 47.09 | 77 | 2.63 | 3828 | 5 0 . | | |
| 26 | 53.54 | 87 | 2.34 | 3941 | 5 6 . | | |
| 25 | 57.03 | 92 | 2.26 | 3884 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 2 5 A - - | 19.5 | 71 |
| 22 | 62.87 | 102 | 2.05 | 3772 | 6 3 . | | |
| 20 | 69.19 | 112 | 1.86 | 3443 | 7 1 . | | |
| 17 | 81.07 | 131 | 1.59 | 3812 | 8 0 . | | |
| 14 | 97.26 | 157 | 1.33 | 3251 | 1 0 0 | | |
| 12 | 113.37 | 183 | 1.14 | 3950 | 1 1 2 | | |
| 11 | 125.97 | 203 | 1.03 | 3390 | 1 2 5 | | |
| 9.2 | 151.69 | 245 | 0.85 | 2209 | 1 6 0 | | |

NOTE

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

**0.25 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 24 | 58.38 | 94 | 3.56 | 7200 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 2 5 A - - | 28.5 | 71 |
| 22 | 64.29 | 104 | 3.23 | 7200 | 6 3 . | | |
| 19 | 73.95 | 120 | 2.81 | 7191 | 7 1 . | | |
| 17 | 80.4 | 130 | 2.58 | 7171 | 8 0 . | | |
| 15 | 96.52 | 156 | 2.16 | 7200 | 1 0 0 | | |
| 12 | 115.82 | 187 | 1.8 | 6988 | 1 1 2 | | |
| 11 | 130.5 | 211 | 1.6 | 7200 | 1 2 5 | | |
| 9.2 | 151.71 | 245 | 1.37 | 7153 | 1 6 0 | | |
| 8.1 | 172.19 | 278 | 1.21 | 6841 | 1 8 0 | | |
| 7.2 | 195.75 | 317 | 1.07 | 7200 | 2 0 0 | | |
| 6 | 232.81 | 366 | 0.92 | 7125 | M 0 4 4 2 2 2 5 _ M _ _ _ _ . 2 5 A - - | 40.5 | 71 |
| 5.4 | 260.47 | 408 | 0.83 | 7125 | 2 5 0 | | |
| 19 | 73.95 | 120 | 3.73 | 7200 | M 0 5 3 2 7 1 . _ M _ _ _ _ . 2 5 A - - | 28.5 | 71 |
| 17 | 80.4 | 131 | 3.43 | 7200 | 8 0 . | | |
| 15 | 96.52 | 157 | 2.87 | 6902 | 1 0 0 | | |
| 12 | 115.82 | 188 | 2.39 | 6965 | 1 1 2 | | |
| 11 | 130.5 | 211 | 2.12 | 6764 | 1 2 5 | | |
| 9.2 | 151.71 | 246 | 1.83 | 6030 | 1 6 0 | | |
| 8.1 | 172.19 | 279 | 1.61 | 6555 | 1 8 0 | | |
| 7.2 | 195.75 | 317 | 1.42 | 5962 | 2 0 0 | | |
| 6 | 232.81 | 368 | 1.22 | 4809 | M 0 5 4 2 2 2 5 _ M _ _ _ _ . 2 5 A - - | 41.5 | 71 |
| 5.4 | 260.47 | 411 | 1.09 | 4809 | 2 5 0 | | |
| 5 | 277.62 | 438 | 1.03 | 4809 | 2 8 0 | | |
| 4.6 | 305.72 | 483 | 0.93 | 4809 | 3 0 0 | | |
| 14 | 99.54 | 162 | 3.86 | 7200 | M 0 6 3 2 1 0 0 _ M _ _ _ _ . 2 5 A - - | 33.5 | 71 |
| 12 | 119.5 | 194 | 3.22 | 7200 | 1 1 2 | | |
| 10 | 143.39 | 232 | 2.69 | 7200 | 1 2 5 | | |
| 8.7 | 161.57 | 262 | 2.39 | 7200 | 1 6 0 | | |
| 7.5 | 187.83 | 305 | 2.05 | 7200 | 1 8 0 | | |
| 6.6 | 213.18 | 346 | 1.81 | 7200 | 2 0 0 | | |
| 6.5 | 215.23 | 342 | 1.82 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 2 5 A - - | 47.5 | 71 |
| 5.9 | 237.02 | 377 | 1.65 | 7200 | 2 5 0 | | |
| 5.1 | 272.91 | 433 | 1.22 | 7200 | 2 8 0 | | |
| 4.5 | 313.91 | 498 | 1.06 | 7200 | 3 0 0 | | |
| 3.8 | 365.1 | 579 | 1.03 | 7200 | 3 6 0 | | |
| 3.5 | 396.93 | 629 | 0.95 | 7200 | 4 0 0 | | |
| 3.2 | 444.1 | 702 | 0.89 | 7200 | 4 5 0 | | |
| 6.1 | 229 | 364 | 2.38 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 2 5 A - - | 54.5 | 71 |
| 5.4 | 259.68 | 412 | 2.1 | 4676 | 2 5 0 | | |
| 4.9 | 286.42 | 454 | 1.91 | 4676 | 2 8 0 | | |
| 4.4 | 315.41 | 501 | 1.73 | 4676 | 3 0 0 | | |
| 3.9 | 361.21 | 572 | 1.51 | 4675 | 3 6 0 | | |
| 3.4 | 415.49 | 658 | 1.32 | 4675 | 4 0 0 | | |
| 3 | 469.77 | 743 | 1.17 | 4675 | 4 5 0 | | |
| 2.7 | 510.72 | 807 | 1.07 | 4675 | 5 0 0 | | |
| 2.4 | 592.12 | 934 | 0.93 | 4675 | 6 5 0 | | |

**0.25 kW**

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 240 | 3.75 | 9 | 7.09 | 1768 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 2 5 C - - | 14.5 | 71 |
| 178 | 5.07 | 13 | 5.81 | 1845 | 5 . 0 | | |
| 156 | 5.76 | 14 | 5.29 | 1844 | 5 . 6 | | |
| 138 | 6.53 | 16 | 4.76 | 1845 | 6 . 3 | | |
| 108 | 8.35 | 21 | 3.97 | 1845 | 8 . 0 | | |
| 100 | 9 | 23 | 3.75 | 1831 | 9 . 0 | | |
| 79 | 11.36 | 29 | 3.08 | 1731 | 1 1 . | | |
| 70 | 12.88 | 33 | 2.71 | 1666 | 1 2 . | | |
| 61 | 14.71 | 37 | 2.38 | 1647 | 1 4 . | | |
| 55 | 16.37 | 41 | 2.14 | 1653 | 1 6 . | | |
| 50 | 18.05 | 46 | 1.94 | 1576 | 1 8 . | | |
| 45 | 19.86 | 50 | 1.76 | 1507 | 2 0 . | | |
| 39 | 23.27 | 59 | 1.51 | 1493 | 2 2 . | | |
| 32 | 27.92 | 71 | 1.26 | 1325 | 2 8 . | | |
| 28 | 32.54 | 83 | 1.08 | 1319 | 3 2 . | | |
| 25 | 36.16 | 92 | 0.97 | 1121 | 3 6 . | | |
| 44 | 20.23 | 51 | 3.08 | 4000 | M 0 2 2 2 2 0 . _ M _ _ _ _ . 2 5 C - - | 18.5 | 71 |
| 41 | 21.99 | 56 | 2.84 | 4000 | 2 2 . | | |
| 34 | 26.4 | 67 | 2.37 | 3771 | 2 8 . | | |
| 28 | 31.68 | 80 | 1.98 | 3813 | 3 2 . | | |
| 25 | 35.69 | 91 | 1.75 | 3712 | 3 6 . | | |
| 22 | 41.49 | 106 | 1.51 | 3619 | 4 5 . | | |
| 19 | 47.09 | 120 | 1.33 | 3365 | 5 0 . | | |
| 17 | 53.54 | 136 | 1.17 | 3071 | 5 6 . | | |
| 16 | 57.03 | 144 | 1.11 | 3630 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 2 5 C - - | 19.5 | 71 |
| 14 | 62.87 | 159 | 1 | 3318 | 6 3 . | | |
| 13 | 69.19 | 174 | 0.92 | 2986 | 7 1 . | | |
| 41 | 21.99 | 56 | 3.7 | 3873 | M 0 3 2 2 2 2 . _ M _ _ _ _ . 2 5 C - - | 18.5 | 71 |
| 34 | 26.4 | 67 | 3.09 | 3771 | 2 8 . | | |
| 28 | 31.68 | 81 | 2.58 | 3695 | 3 2 . | | |
| 25 | 35.69 | 91 | 2.3 | 3695 | 3 6 . | | |
| 22 | 41.49 | 106 | 1.94 | 3562 | 4 5 . | | |
| 19 | 47.09 | 120 | 1.73 | 3508 | 5 0 . | | |
| 17 | 53.54 | 136 | 1.51 | 3419 | 5 6 . | | |
| 16 | 57.03 | 144 | 1.45 | 3331 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 2 5 C - - | 19.5 | 71 |
| 14 | 62.87 | 159 | 1.31 | 3243 | 6 3 . | | |
| 13 | 69.19 | 174 | 1.2 | 2790 | 7 1 . | | |
| 11 | 81.07 | 204 | 1.02 | 2359 | 8 0 . | | |
| 9.3 | 97.26 | 245 | 0.85 | 1920 | 1 0 0 | | |

NOTE

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

**0.25 kW**

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 15 | 58.38 | 148 | 2.28 | 6774 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 2 5 C - - | 28.5 | 71 |
| 14 | 64.29 | 162 | 2.07 | 6944 | 6 3 . | | |
| 12 | 73.95 | 187 | 1.8 | 6749 | 7 1 . | | |
| 11 | 80.4 | 203 | 1.66 | 6620 | 8 0 . | | |
| 9.3 | 96.52 | 244 | 1.38 | 6609 | 1 0 0 | | |
| 7.8 | 115.82 | 292 | 1.15 | 5558 | 1 1 2 | | |
| 6.9 | 130.5 | 328 | 1.03 | 6144 | 1 2 5 | | |
| 5.9 | 151.71 | 383 | 0.88 | 5239 | 1 6 0 | | |
| 15 | 58.38 | 148 | 3.04 | 7200 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 2 5 C - - | 28.5 | 71 |
| 14 | 64.29 | 163 | 2.76 | 7200 | 6 3 . | | |
| 12 | 73.95 | 187 | 2.4 | 6652 | 7 1 . | | |
| 11 | 80.4 | 204 | 2.2 | 6594 | 8 0 . | | |
| 9.3 | 96.52 | 244 | 1.84 | 6315 | 1 0 0 | | |
| 7.8 | 115.82 | 292 | 1.54 | 6146 | 1 1 2 | | |
| 6.9 | 130.5 | 329 | 1.37 | 5841 | 1 2 5 | | |
| 5.9 | 151.71 | 383 | 1.17 | 5023 | 1 6 0 | | |
| 5.2 | 172.19 | 434 | 1.03 | 4280 | 1 8 0 | | |
| 4.6 | 195.75 | 493 | 0.91 | 3331 | 2 0 0 | | |
| 12 | 72.28 | 183 | 3.41 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 2 5 C - - | 33.5 | 71 |
| 11 | 79.6 | 202 | 3.09 | 7200 | 7 1 . | | |
| 10 | 91.56 | 232 | 2.69 | 7200 | 8 0 . | | |
| 9 | 99.54 | 252 | 2.48 | 7200 | 1 0 0 | | |
| 7.5 | 119.5 | 302 | 2.07 | 6988 | 1 1 2 | | |
| 6.3 | 143.39 | 362 | 1.73 | 6562 | 1 2 5 | | |
| 5.6 | 161.57 | 408 | 1.53 | 6914 | 1 6 0 | | |
| 4.8 | 187.83 | 475 | 1.32 | 6375 | 1 8 0 | | |
| 4.2 | 213.18 | 538 | 1.16 | 5067 | 2 0 0 | | |
| 4.2 | 215.23 | 534 | 1.17 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 2 5 C - - | 47.5 | 71 |
| 3.8 | 237.02 | 588 | 1.06 | 7200 | 2 5 0 | | |
| 3.9 | 229 | 567 | 1.53 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 2 5 C - - | 54.5 | 71 |
| 3.5 | 259.68 | 642 | 1.35 | 4676 | 2 5 0 | | |
| 3.1 | 286.42 | 708 | 1.22 | 4676 | 2 8 0 | | |
| 2.9 | 315.41 | 780 | 1.11 | 4676 | 3 0 0 | | |
| 2.5 | 361.21 | 892 | 0.97 | 4675 | 3 6 0 | | |
| 2.2 | 415.49 | 1026 | 0.85 | 4675 | 4 0 0 | | |

**0.37 kW**

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 373 | 3.75 | 9 | 6.5 | 1652 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 3 7 A - - | 14.5 | 71 |
| 276 | 5.07 | 12 | 5.45 | 1740 | 5 . 0 | | |
| 243 | 5.76 | 14 | 5.09 | 1782 | 5 . 6 | | |
| 214 | 6.53 | 15 | 4.7 | 1782 | 6 . 3 | | |
| 168 | 8.35 | 20 | 3.89 | 1787 | 8 . 0 | | |
| 156 | 9 | 22 | 3.65 | 1785 | 9 . 0 | | |
| 123 | 11.36 | 27 | 3.03 | 1795 | 1 1 . | | |
| 109 | 12.88 | 31 | 2.77 | 1795 | 1 2 . | | |
| 95 | 14.71 | 35 | 2.5 | 1708 | 1 4 . | | |
| 86 | 16.37 | 39 | 2.25 | 1860 | 1 6 . | | |
| 78 | 18.05 | 43 | 2.04 | 1804 | 1 8 . | | |
| 70 | 19.86 | 48 | 1.86 | 1701 | 2 0 . | | |
| 60 | 23.27 | 56 | 1.58 | 1824 | 2 2 . | | |
| 50 | 27.92 | 67 | 1.32 | 1562 | 2 8 . | | |
| 43 | 32.54 | 78 | 1.14 | 1810 | 3 2 . | | |
| 39 | 36.16 | 87 | 1.03 | 1710 | 3 6 . | | |
| 80 | 17.58 | 42 | 3.73 | 4000 | M 0 2 2 2 1 8 . _ M _ _ _ _ . 3 7 A - - | 18.5 | 71 |
| 69 | 20.23 | 49 | 3.24 | 4000 | 2 0 . | | |
| 64 | 21.99 | 53 | 2.97 | 4000 | 2 2 . | | |
| 53 | 26.4 | 64 | 2.49 | 3963 | 2 8 . | | |
| 44 | 31.68 | 77 | 2.08 | 4000 | 3 2 . | | |
| 39 | 35.69 | 86 | 1.85 | 4000 | 3 6 . | | |
| 34 | 41.49 | 100 | 1.59 | 4000 | 4 5 . | | |
| 30 | 47.09 | 114 | 1.4 | 4000 | 5 0 . | | |
| 26 | 53.54 | 129 | 1.23 | 3819 | 5 6 . | | |
| 25 | 57.03 | 136 | 1.17 | 4000 | M 0 2 3 2 5 6 . _ M _ _ _ _ . 3 7 A - - | 19.5 | 71 |
| 22 | 62.87 | 151 | 1.06 | 4000 | 6 3 . | | |
| 20 | 69.19 | 166 | 0.96 | 4000 | 7 1 . | | |
| 17 | 81.07 | 194 | 0.82 | 3640 | 8 0 . | | |
| 64 | 21.99 | 53 | 3.89 | 3856 | M 0 3 2 2 2 2 . _ M _ _ _ _ . 3 7 A - - | 18.5 | 71 |
| 53 | 26.4 | 64 | 3.26 | 3681 | 2 8 . | | |
| 44 | 31.68 | 77 | 2.71 | 3727 | 3 2 . | | |
| 39 | 35.69 | 86 | 2.41 | 3560 | 3 6 . | | |
| 34 | 41.49 | 101 | 1.97 | 3786 | 4 5 . | | |
| 30 | 47.09 | 114 | 1.77 | 3533 | 5 0 . | | |
| 26 | 53.54 | 130 | 1.58 | 3840 | 5 6 . | | |
| 25 | 57.03 | 136 | 1.53 | 3686 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 3 7 A - - | 19.5 | 71 |
| 22 | 62.87 | 151 | 1.38 | 3383 | 6 3 . | | |
| 20 | 69.19 | 166 | 1.26 | 2930 | 7 1 . | | |
| 17 | 81.07 | 194 | 1.08 | 3640 | 8 0 . | | |
| 14 | 97.26 | 232 | 0.9 | 2560 | 1 0 0 | | |

NOTE

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

## 0.37 kW

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 24 | 58.38 | 140 | 2.41 | 7087 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 3 7 A - - | 28.5 | 71 |
| 22 | 64.29 | 154 | 2.18 | 7200 | 6 3 . | | |
| 19 | 73.95 | 178 | 1.9 | 7176 | 7 1 . | | |
| 17 | 80.4 | 193 | 1.75 | 7123 | 8 0 . | | |
| 15 | 96.52 | 232 | 1.46 | 7200 | 1 0 0 | | |
| 12 | 115.82 | 277 | 1.22 | 6793 | 1 1 2 | | |
| 11 | 130.5 | 312 | 1.08 | 7200 | 1 2 5 | | |
| 9.2 | 151.71 | 363 | 0.93 | 7110 | 1 6 0 | | |
| 8.1 | 172.19 | 412 | 0.82 | 6510 | 1 8 0 | | |
| 24 | 58.38 | 141 | 3.18 | 7200 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 3 7 A - - | 28.5 | 71 |
| 22 | 64.29 | 155 | 2.9 | 7200 | 6 3 . | | |
| 19 | 73.95 | 178 | 2.52 | 6687 | 7 1 . | | |
| 17 | 80.4 | 193 | 2.32 | 7005 | 8 0 . | | |
| 15 | 96.52 | 232 | 1.94 | 6393 | 1 0 0 | | |
| 12 | 115.82 | 278 | 1.62 | 6563 | 1 1 2 | | |
| 11 | 130.5 | 313 | 1.44 | 6018 | 1 2 5 | | |
| 9.2 | 151.71 | 364 | 1.23 | 4950 | 1 6 0 | | |
| 8.1 | 172.19 | 413 | 1.09 | 5960 | 1 8 0 | | |
| 7.2 | 195.75 | 469 | 0.96 | 4820 | 2 0 0 | | |
| 6 | 232.81 | 545 | 0.82 | 4809 | M 0 5 4 2 2 2 5 _ M _ _ _ _ . 3 7 A - - | 41.5 | 71 |
| 19 | 72.28 | 173 | 3.6 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 3 7 A - - | 33.5 | 71 |
| 18 | 79.6 | 192 | 3.24 | 7200 | 7 1 . | | |
| 15 | 91.56 | 220 | 2.84 | 7200 | 8 0 . | | |
| 14 | 99.54 | 240 | 2.61 | 7200 | 1 0 0 | | |
| 12 | 119.5 | 287 | 2.17 | 7200 | 1 1 2 | | |
| 10 | 143.39 | 344 | 1.82 | 7200 | 1 2 5 | | |
| 8.7 | 161.57 | 388 | 1.61 | 7200 | 1 6 0 | | |
| 7.5 | 187.83 | 451 | 1.39 | 7200 | 1 8 0 | | |
| 6.6 | 213.18 | 512 | 1.22 | 7200 | 2 0 0 | | |
| 6.5 | 215.23 | 507 | 1.23 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 3 7 A - - | 47.5 | 71 |
| 5.9 | 237.02 | 559 | 1.12 | 7200 | 2 5 0 | | |
| 5.1 | 272.91 | 641 | 0.82 | 7200 | 2 8 0 | | |
| 6.1 | 229 | 539 | 1.61 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 3 7 A - - | 54.5 | 71 |
| 5.4 | 259.68 | 610 | 1.42 | 4676 | 2 5 0 | | |
| 4.9 | 286.42 | 672 | 1.29 | 4676 | 2 8 0 | | |
| 4.4 | 315.41 | 741 | 1.17 | 4676 | 3 0 0 | | |
| 3.9 | 361.21 | 847 | 1.02 | 4675 | 3 6 0 | | |
| 3.4 | 415.49 | 974 | 0.89 | 4675 | 4 0 0 | | |

## 0.37 kW

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 245 | 3.75 | 13 | 4.9 | 1730 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 3 7 C - - | 18.5 | 80A |
| 182 | 5.07 | 18 | 4.01 | 1795 | 5 . 0 | | |
| 160 | 5.76 | 21 | 3.65 | 1792 | 5 . 6 | | |
| 141 | 6.53 | 24 | 3.29 | 1795 | 6 . 3 | | |
| 110 | 8.35 | 30 | 2.75 | 1795 | 8 . 0 | | |
| 102 | 9 | 33 | 2.59 | 1767 | 9 . 0 | | |
| 81 | 11.36 | 42 | 2.12 | 1575 | 1 1 . | | |
| 71 | 12.88 | 47 | 1.88 | 1451 | 1 2 . | | |
| 63 | 14.71 | 54 | 1.64 | 1415 | 1 4 . | | |
| 56 | 16.37 | 60 | 1.48 | 1425 | 1 6 . | | |
| 51 | 18.05 | 66 | 1.34 | 1278 | 1 8 . | | |
| 46 | 19.86 | 73 | 1.22 | 1146 | 2 0 . | | |
| 40 | 23.27 | 86 | 1.04 | 1117 | 2 2 . | | |
| 33 | 27.92 | 103 | 0.87 | 795 | 2 8 . | | |
| 74 | 12.37 | 46 | 3.47 | 4000 | M 0 2 2 2 1 2 . _ M _ _ _ _ . 3 7 C - - | 22.5 | 80A |
| 65 | 14.05 | 52 | 3.06 | 4000 | 1 4 . | | |
| 58 | 15.97 | 59 | 2.69 | 4000 | 1 6 . | | |
| 52 | 17.58 | 65 | 2.45 | 4000 | 1 8 . | | |
| 45 | 20.23 | 75 | 2.13 | 3841 | 2 0 . | | |
| 42 | 21.99 | 81 | 1.96 | 3765 | 2 2 . | | |
| 35 | 26.4 | 97 | 1.63 | 3380 | 2 8 . | | |
| 29 | 31.68 | 117 | 1.36 | 3493 | 3 2 . | | |
| 26 | 35.69 | 131 | 1.21 | 3220 | 3 6 . | | |
| 22 | 41.49 | 153 | 1.04 | 3267 | 4 5 . | | |
| 20 | 47.09 | 174 | 0.92 | 2779 | 5 0 . | | |
| 17 | 53.54 | 197 | 0.81 | 2215 | 5 6 . | | |
| 58 | 15.97 | 59 | 3.52 | 4000 | M 0 3 2 2 1 6 . _ M _ _ _ _ . 3 7 C - - | 22.5 | 80A |
| 52 | 17.58 | 65 | 3.19 | 3933 | 1 8 . | | |
| 45 | 20.23 | 75 | 2.77 | 3768 | 2 0 . | | |
| 42 | 21.99 | 81 | 2.56 | 3657 | 2 2 . | | |
| 35 | 26.4 | 97 | 2.13 | 3380 | 2 8 . | | |
| 29 | 31.68 | 117 | 1.78 | 3173 | 3 2 . | | |
| 26 | 35.69 | 131 | 1.59 | 3173 | 3 6 . | | |
| 22 | 41.49 | 153 | 1.34 | 2812 | 4 5 . | | |
| 20 | 47.09 | 173 | 1.2 | 2666 | 5 0 . | | |
| 17 | 53.54 | 197 | 1.04 | 2423 | 5 6 . | | |

NOTE

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

**0.37 kW**

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 16 | 57.03 | 208 | 1 | 2186 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 3 7 C - - | 23.5 | 80A |
| 15 | 62.87 | 230 | 0.91 | 1945 | 6 3 . | | |
| 13 | 69.19 | 252 | 0.83 | 1674 | 7 1 . | | |
| 34 | 27.3 | 101 | 3.34 | 7200 | M 0 4 2 2 2 8 . _ M _ _ _ _ . 3 7 C - - | 30.5 | 80A |
| 29 | 32.19 | 119 | 2.82 | 7200 | 3 2 . | | |
| 26 | 35.25 | 130 | 2.58 | 7200 | 3 6 . | | |
| 21 | 43.2 | 159 | 2.11 | 7200 | 4 5 . | | |
| 19 | 48.15 | 178 | 1.9 | 7200 | 5 0 . | | |
| 17 | 54 | 199 | 1.35 | 7200 | 5 6 . | | |
| 16 | 58.38 | 214 | 1.58 | 6045 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 3 7 C - - | 32.5 | 80A |
| 14 | 64.29 | 235 | 1.43 | 6506 | 6 3 . | | |
| 12 | 73.95 | 271 | 1.25 | 5976 | 7 1 . | | |
| 11 | 80.4 | 294 | 1.15 | 5626 | 8 0 . | | |
| 10 | 96.52 | 353 | 0.96 | 5597 | 1 0 0 | | |
| 29 | 32.19 | 119 | 3.76 | 7200 | M 0 5 2 2 3 2 . _ M _ _ _ _ . 3 7 C - - | 31.5 | 80A |
| 26 | 35.25 | 130 | 3.44 | 7200 | 3 6 . | | |
| 21 | 43.2 | 160 | 2.54 | 7200 | 4 5 . | | |
| 19 | 48.15 | 178 | 2.13 | 7200 | 5 0 . | | |
| 17 | 54 | 199 | 1.35 | 7200 | 5 6 . | | |
| 16 | 58.38 | 214 | 2.1 | 6391 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 3 7 C - - | 32.5 | 80A |
| 14 | 64.29 | 236 | 1.9 | 6204 | 6 3 . | | |
| 12 | 73.95 | 271 | 1.66 | 5713 | 7 1 . | | |
| 11 | 80.4 | 295 | 1.52 | 5556 | 8 0 . | | |
| 10 | 96.52 | 353 | 1.27 | 4800 | 1 0 0 | | |
| 7.9 | 115.82 | 423 | 1.06 | 4339 | 1 1 2 | | |
| 7 | 130.5 | 477 | 0.94 | 3513 | 1 2 5 | | |
| 6.1 | 151.71 | 555 | 0.81 | 3013 | 1 6 0 | | |
| 15 | 59.61 | 220 | 2.13 | 7200 | M 0 6 2 2 5 6 . _ M _ _ _ _ . 3 7 C - - | 36.5 | 80A |
| 13 | 72.28 | 265 | 2.36 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 3 7 C - - | 37.5 | 80A |
| 12 | 79.6 | 292 | 2.14 | 7008 | 7 1 . | | |
| 10 | 91.56 | 336 | 1.86 | 6645 | 8 0 . | | |
| 9.2 | 99.54 | 365 | 1.71 | 6403 | 1 0 0 | | |
| 7.7 | 119.5 | 438 | 1.43 | 6626 | 1 1 2 | | |
| 6.4 | 143.39 | 525 | 1.19 | 5470 | 1 2 5 | | |
| 5.7 | 161.57 | 590 | 1.06 | 6424 | 1 6 0 | | |
| 4.9 | 187.83 | 688 | 0.91 | 4961 | 1 8 0 | | |
| 4.3 | 213.18 | 779 | 0.8 | 3099 | 2 0 0 | | |
| 4.3 | 215.23 | 773 | 0.81 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 3 7 C - - | 50.5 | 80A |
| 16 | 58.95 | 216 | 3.99 | 10000 | M 0 7 3 2 5 6 . _ M _ _ _ _ . 3 7 C - - | 48.5 | 80A |
| 15 | 62.83 | 231 | 3.76 | 10000 | 6 3 . | | |
| 12 | 74.47 | 274 | 3.16 | 10000 | 7 1 . | | |
| 12 | 79.51 | 291 | 2.98 | 10000 | 8 0 . | | |
| 9.3 | 98.66 | 361 | 2.4 | 10000 | 1 0 0 | | |
| 7.9 | 116.34 | 426 | 2.04 | 10000 | 1 1 2 | | |
| 7.2 | 127.39 | 466 | 1.86 | 10000 | 1 2 5 | | |
| 5.9 | 156.12 | 569 | 1.54 | 10000 | 1 6 0 | | |
| 5.3 | 174.01 | 635 | 1.39 | 8970 | 1 8 0 | | |
| 4.7 | 195.15 | 711 | 1.25 | 7760 | 2 0 0 | | |
| 4 | 229 | 821 | 1.06 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 3 7 C - - | 57.5 | 80A |
| 3.5 | 259.68 | 929 | 0.93 | 4676 | 2 5 0 | | |
| 3.2 | 286.42 | 1025 | 0.85 | 4676 | 2 8 0 | | |
| 4 | 228.91 | 821 | 1.66 | 18916 | M 0 8 4 2 2 2 5 _ M _ _ _ _ . 3 7 C - - | 105.5 | 80A |
| 3.6 | 258.98 | 928 | 1.58 | 17870 | 2 5 0 | | |
| 3.1 | 301.21 | 1079 | 1.36 | 17870 | 2 8 0 | | |
| 2.7 | 337.01 | 1206 | 1.21 | 17870 | 3 0 0 | | |
| 2.6 | 359.19 | 1286 | 1.14 | 17870 | 3 6 0 | | |
| 2.2 | 425.69 | 1523 | 0.96 | 17870 | 4 0 0 | | |
| 1.9 | 480.51 | 1717 | 0.9 | 16792 | 4 5 0 | | |
| 1.8 | 513.04 | 1833 | 0.84 | 16792 | 5 0 0 | | |
| 4 | 231.06 | 837 | 3.16 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ . 3 7 C - - | 149.5 | 80A |
| 3.6 | 258.09 | 933 | 3.06 | 24951 | 2 5 0 | | |
| 3.1 | 300.18 | 1085 | 2.63 | 24951 | 2 8 0 | | |
| 2.7 | 335.85 | 1212 | 2.36 | 24951 | 3 0 0 | | |
| 2.6 | 357.95 | 1293 | 2.21 | 24951 | 3 6 0 | | |
| 2.2 | 424.23 | 1531 | 1.87 | 24951 | 4 0 0 | | |
| 2 | 471.32 | 1699 | 1.68 | 24951 | 4 5 0 | | |
| 1.8 | 503.22 | 1813 | 1.58 | 24951 | 5 0 0 | | |
| 1.5 | 624.45 | 2246 | 1.27 | 24951 | 6 5 0 | | |
| 1.2 | 736.35 | 2644 | 1.08 | 24951 | 7 3 0 | | |
| 1 | 882.06 | 3161 | 0.9 | 24951 | 8 6 0 | | |
| 0.34 | 2743.72 | 9589 | 1.11 | 80613 | M 1 4 5 1 2 7 C _ M _ _ _ _ . 3 7 C - - | 406.5 | 80A |
| 0.27 | 3404.7 | 11873 | 0.9 | 80613 | 3 2 C | | |

NOTE

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

**0.55 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 379 | 3.75 | 13 | 4.43 | 1625 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 5 5 A - - | 18.5 | 80A |
| 280 | 5.07 | 18 | 3.72 | 1705 | 5 . 0 | | |
| 246 | 5.76 | 20 | 3.47 | 1740 | 5 . 6 | | |
| 218 | 6.53 | 23 | 3.21 | 1711 | 6 . 3 | | |
| 170 | 8.35 | 29 | 2.65 | 1706 | 8 . 0 | | |
| 158 | 9 | 32 | 2.49 | 1703 | 9 . 0 | | |
| 125 | 11.36 | 40 | 2.07 | 1720 | 1 1 . | | |
| 110 | 12.88 | 46 | 1.89 | 1720 | 1 2 . | | |
| 97 | 14.71 | 52 | 1.7 | 1570 | 1 4 . | | |
| 87 | 16.37 | 58 | 1.54 | 1831 | 1 6 . | | |
| 79 | 18.05 | 64 | 1.39 | 1736 | 1 8 . | | |
| 71 | 19.86 | 70 | 1.27 | 1558 | 2 0 . | | |
| 61 | 23.27 | 82 | 1.08 | 1770 | 2 2 . | | |
| 51 | 27.92 | 99 | 0.9 | 1320 | 2 8 . | | |
| 127 | 11.15 | 39 | 3.63 | 4000 | M 0 2 2 2 1 1 . _ M _ _ _ _ . 5 5 A - - | 22.5 | 80A |
| 115 | 12.37 | 44 | 3.35 | 4000 | 1 2 . | | |
| 101 | 14.05 | 50 | 3.04 | 4000 | 1 4 . | | |
| 89 | 15.97 | 57 | 2.8 | 4000 | 1 6 . | | |
| 81 | 17.58 | 62 | 2.55 | 3942 | 1 8 . | | |
| 70 | 20.23 | 72 | 2.21 | 3885 | 2 0 . | | |
| 65 | 21.99 | 78 | 2.03 | 4000 | 2 2 . | | |
| 54 | 26.4 | 94 | 1.7 | 3908 | 2 8 . | | |
| 45 | 31.68 | 112 | 1.42 | 4000 | 3 2 . | | |
| 40 | 35.69 | 126 | 1.26 | 4000 | 3 6 . | | |
| 34 | 41.49 | 147 | 1.08 | 4000 | 4 5 . | | |
| 30 | 47.09 | 167 | 0.95 | 4000 | 5 0 . | | |
| 27 | 53.54 | 190 | 0.84 | 3690 | 5 6 . | | |
| 101 | 14.05 | 50 | 3.85 | 4000 | M 0 3 2 2 1 4 . _ M _ _ _ _ . 5 5 A - - | 22.5 | 80A |
| 89 | 15.97 | 56 | 3.6 | 3972 | 1 6 . | | |
| 81 | 17.58 | 62 | 3.31 | 3934 | 1 8 . | | |
| 70 | 20.23 | 72 | 2.88 | 3798 | 2 0 . | | |
| 65 | 21.99 | 78 | 2.65 | 3719 | 2 2 . | | |
| 54 | 26.4 | 93 | 2.23 | 3380 | 2 8 . | | |
| 45 | 31.68 | 112 | 1.85 | 3469 | 3 2 . | | |
| 40 | 35.69 | 127 | 1.65 | 3143 | 3 6 . | | |
| 34 | 41.49 | 148 | 1.34 | 3584 | 4 5 . | | |
| 30 | 47.09 | 167 | 1.21 | 3091 | 5 0 . | | |
| 27 | 53.54 | 190 | 1.08 | 3690 | 5 6 . | | |
| 25 | 57.03 | 200 | 1.04 | 3390 | M 0 3 3 2 5 6 . _ M _ _ _ _ . 5 5 A - - | 23.5 | 80A |
| 23 | 62.87 | 221 | 0.94 | 2800 | 6 3 . | | |
| 21 | 69.19 | 243 | 0.86 | 2160 | 7 1 . | | |
| 52 | 27.3 | 97 | 3.44 | 7200 | M 0 4 2 2 2 8 . _ M _ _ _ _ . 5 5 A - - | 30.5 | 80A |
| 44 | 32.19 | 115 | 2.94 | 7200 | 3 2 . | | |
| 40 | 35.25 | 125 | 2.69 | 7200 | 3 6 . | | |
| 33 | 43.2 | 154 | 2.19 | 7200 | 4 5 . | | |
| 29 | 48.15 | 171 | 1.98 | 7200 | 5 0 . | | |
| 26 | 54 | 191 | 1.41 | 7200 | 5 6 . | | |
| 24 | 58.38 | 205 | 1.64 | 6917 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 5 5 A - - | 32.5 | 80A |
| 22 | 64.29 | 227 | 1.49 | 7200 | 6 3 . | | |
| 19 | 73.95 | 261 | 1.29 | 7154 | 7 1 . | | |
| 18 | 80.4 | 283 | 1.19 | 7050 | 8 0 . | | |
| 15 | 96.52 | 340 | 0.99 | 7200 | 1 0 0 | | |
| 12 | 115.82 | 407 | 0.83 | 6500 | 1 1 2 | | |
| 44 | 32.19 | 115 | 3.9 | 7200 | M 0 5 2 2 3 2 . _ M _ _ _ _ . 5 5 A - - | 31.5 | 80A |
| 40 | 35.25 | 125 | 3.58 | 7200 | 3 6 . | | |
| 33 | 43.2 | 154 | 2.3 | 7200 | 4 5 . | | |
| 29 | 48.15 | 171 | 2.12 | 7200 | 5 0 . | | |
| 26 | 54 | 191 | 1.41 | 7200 | 5 6 . | | |
| 24 | 58.38 | 207 | 2.17 | 6869 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 5 5 A - - | 32.5 | 80A |
| 22 | 64.29 | 227 | 1.98 | 6652 | 6 3 . | | |
| 19 | 73.95 | 261 | 1.72 | 5918 | 7 1 . | | |
| 18 | 80.4 | 284 | 1.58 | 6714 | 8 0 . | | |
| 15 | 96.52 | 340 | 1.32 | 5629 | 1 0 0 | | |
| 12 | 115.82 | 408 | 1.1 | 5960 | 1 1 2 | | |
| 11 | 130.5 | 459 | 0.98 | 4900 | 1 2 5 | | |
| 9.4 | 151.71 | 534 | 0.84 | 3329 | 1 6 0 | | |
| 27 | 53.49 | 190 | 2.76 | 7200 | M 0 6 2 2 5 0 . _ M _ _ _ _ . 5 5 A - - | 36.5 | 80A |
| 24 | 59.61 | 212 | 2.21 | 7200 | 5 6 . | | |
| 20 | 72.28 | 254 | 2.46 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 5 5 A - - | 37.5 | 80A |
| 18 | 79.6 | 282 | 2.21 | 7200 | 7 1 . | | |
| 16 | 91.56 | 322 | 1.94 | 7200 | 8 0 . | | |
| 14 | 99.54 | 351 | 1.78 | 7200 | 1 0 0 | | |
| 12 | 119.5 | 422 | 1.48 | 7200 | 1 1 2 | | |
| 10 | 143.39 | 505 | 1.24 | 7200 | 1 2 5 | | |
| 8.8 | 161.57 | 568 | 1.1 | 7200 | 1 6 0 | | |
| 7.6 | 187.83 | 662 | 0.95 | 7200 | 1 8 0 | | |
| 6.7 | 213.18 | 751 | 0.83 | 7200 | 2 0 0 | | |
| 6.6 | 215.23 | 743 | 0.84 | 7200 | M 0 6 4 2 2 2 5 _ M _ _ _ _ . 5 5 A - - | 50.5 | 80A |

NOTE

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

## 0.55 kW

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 24 | 58.95 | 208 | 3.61 | 10000 | M 0 7 3 2 5 6 . _ M _ _ _ _ . 5 5 A - - | 48.5 | 80A |
| 23 | 62.83 | 221 | 3.47 | 10000 | 6 3 . | | |
| 19 | 74.47 | 263 | 3.1 | 10000 | 7 1 . | | |
| 18 | 79.51 | 280 | 2.97 | 10000 | 8 0 . | | |
| 14 | 98.66 | 348 | 2.49 | 10000 | 1 0 0 | | |
| 12 | 116.34 | 409 | 2.12 | 10000 | 1 1 2 | | |
| 11 | 127.39 | 447 | 1.94 | 10000 | 1 2 5 | | |
| 9.1 | 156.12 | 548 | 1.58 | 10000 | 1 6 0 | | |
| 8.2 | 174.01 | 611 | 1.42 | 9140 | 1 8 0 | | |
| 7.3 | 195.15 | 684 | 1.27 | 7940 | 2 0 0 | | |
| 6.2 | 229 | 790 | 1.1 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 5 5 A - - | 57.5 | 80A |
| 5.5 | 259.68 | 894 | 0.97 | 4676 | 2 5 0 | | |
| 5 | 286.42 | 986 | 0.88 | 4676 | 2 8 0 | | |
| 12 | 119.19 | 419 | 3.94 | 20000 | M 0 8 3 2 1 1 2 _ M _ _ _ _ . 5 5 A - - | 76.5 | 80A |
| 11 | 130.92 | 461 | 3.58 | 20000 | 1 2 5 | | |
| 8.9 | 160.45 | 565 | 2.92 | 20000 | 1 6 0 | | |
| 8.1 | 175.21 | 617 | 2.67 | 20000 | 1 8 0 | | |
| 7 | 201.75 | 707 | 2.33 | 20000 | 2 0 0 | | |
| 6.2 | 228.91 | 788 | 1.73 | 18916 | M 0 8 4 2 2 2 5 _ M _ _ _ _ . 5 5 A - - | 105.5 | 80A |
| 5.5 | 258.98 | 891 | 1.64 | 17870 | 2 5 0 | | |
| 4.7 | 301.21 | 1036 | 1.41 | 17870 | 2 8 0 | | |
| 4.2 | 337.01 | 1158 | 1.26 | 17870 | 3 0 0 | | |
| 4 | 359.19 | 1235 | 1.18 | 17870 | 3 6 0 | | |
| 3.3 | 425.69 | 1464 | 1 | 17870 | 4 0 0 | | |
| 3 | 480.51 | 1650 | 0.93 | 16792 | 4 5 0 | | |
| 2.8 | 513.04 | 1761 | 0.87 | 16792 | 5 0 0 | | |
| 6.1 | 231.06 | 805 | 3.29 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ . 5 5 A - - | 149.5 | 80A |
| 5.5 | 258.09 | 898 | 3.18 | 24951 | 2 5 0 | | |
| 4.7 | 300.18 | 1044 | 2.74 | 24951 | 2 8 0 | | |
| 4.2 | 335.85 | 1166 | 2.45 | 24951 | 3 0 0 | | |
| 4 | 357.95 | 1244 | 2.3 | 24951 | 3 6 0 | | |
| 3.3 | 424.23 | 1473 | 1.94 | 24951 | 4 0 0 | | |
| 3 | 471.32 | 1635 | 1.75 | 24951 | 4 5 0 | | |
| 2.8 | 503.22 | 1745 | 1.64 | 24951 | 5 0 0 | | |
| 2.3 | 624.45 | 2162 | 1.32 | 24951 | 6 5 0 | | |
| 1.9 | 736.35 | 2546 | 1.12 | 24951 | 7 3 0 | | |
| 1.6 | 882.06 | 3040 | 0.94 | 24951 | 8 6 0 | | |
| 0.52 | 2743.72 | 9227 | 1.15 | 80613 | M 1 4 5 1 2 7 C _ M _ _ _ _ . 5 5 A - - | 406.5 | 80A |
| 0.42 | 3404.7 | 11435 | 0.93 | 80613 | 3 2 C | | |

## 0.55 kW

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 245 | 3.75 | 20 | 3.29 | 1673 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 5 5 C - - | 20 | 80B |
| 182 | 5.07 | 28 | 2.7 | 1720 | 5 . 0 | | |
| 160 | 5.76 | 31 | 2.46 | 1715 | 5 . 6 | | |
| 141 | 6.53 | 36 | 2.21 | 1720 | 6 . 3 | | |
| 110 | 8.35 | 46 | 1.85 | 1720 | 8 . 0 | | |
| 102 | 9 | 49 | 1.74 | 1671 | 9 . 0 | | |
| 81 | 11.36 | 62 | 1.43 | 1341 | 1 1 . | | |
| 71 | 12.88 | 71 | 1.26 | 1129 | 1 2 . | | |
| 63 | 14.71 | 81 | 1.1 | 1066 | 1 4 . | | |
| 56 | 16.37 | 90 | 0.99 | 1083 | 1 6 . | | |
| 51 | 18.05 | 99 | 0.9 | 830 | 1 8 . | | |
| 46 | 19.86 | 109 | 0.82 | 603 | 2 0 . | | |
| 146 | 6.3 | 34 | 3.96 | 4000 | M 0 2 2 2 6 . 3 _ M _ _ _ _ . 5 5 C - - | 24 | 80B |
| 115 | 8 | 44 | 3.28 | 4000 | 8 . 0 | | |
| 101 | 9.09 | 50 | 2.98 | 4000 | 9 . 0 | | |
| 82 | 11.15 | 62 | 2.54 | 4000 | 1 1 . | | |
| 74 | 12.37 | 68 | 2.33 | 4000 | 1 2 . | | |
| 65 | 14.05 | 77 | 2.06 | 4000 | 1 4 . | | |
| 58 | 15.97 | 88 | 1.81 | 4000 | 1 6 . | | |
| 52 | 17.58 | 97 | 1.64 | 3921 | 1 8 . | | |
| 45 | 20.23 | 111 | 1.43 | 3604 | 2 0 . | | |
| 42 | 21.99 | 121 | 1.32 | 3414 | 2 2 . | | |
| 35 | 26.4 | 145 | 1.1 | 2793 | 2 8 . | | |
| 29 | 31.68 | 174 | 0.92 | 3013 | 3 2 . | | |
| 26 | 35.69 | 196 | 0.82 | 2481 | 3 6 . | | |
| 101 | 9.09 | 50 | 3.78 | 4000 | M 0 3 2 2 9 . 0 _ M _ _ _ _ . 5 5 C - - | 24 | 80B |
| 82 | 11.15 | 61 | 3.29 | 4000 | 1 1 . | | |
| 74 | 12.37 | 68 | 3.05 | 4000 | 1 2 . | | |
| 65 | 14.05 | 77 | 2.68 | 4000 | 1 4 . | | |
| 58 | 15.97 | 88 | 2.37 | 4000 | 1 6 . | | |
| 52 | 17.58 | 97 | 2.14 | 3871 | 1 8 . | | |
| 45 | 20.23 | 112 | 1.86 | 3549 | 2 0 . | | |
| 42 | 21.99 | 121 | 1.72 | 3332 | 2 2 . | | |
| 35 | 26.4 | 145 | 1.44 | 2793 | 2 8 . | | |
| 29 | 31.68 | 174 | 1.2 | 2391 | 3 2 . | | |
| 26 | 35.69 | 195 | 1.07 | 2391 | 3 6 . | | |
| 22 | 41.49 | 228 | 0.9 | 1687 | 4 5 . | | |
| 20 | 47.09 | 258 | 0.81 | 1403 | 5 0 . | | |

NOTE

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

## 0.55 kW

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 53 | 17.39 | 96 | 3.5 | 7200 | M 0 4 2 2 1 8 . _ M _ _ _ _ . 5 5 C - - | 32 | 80B |
| 45 | 20.61 | 114 | 2.96 | 7200 | 2 0 . | | |
| 42 | 22 | 122 | 2.77 | 7200 | 2 2 . | | |
| 34 | 27.3 | 150 | 2.25 | 6720 | 2 8 . | | |
| 29 | 32.19 | 177 | 1.9 | 6835 | 3 2 . | | |
| 26 | 35.25 | 194 | 1.74 | 6675 | 3 6 . | | |
| 21 | 43.2 | 237 | 1.42 | 6266 | 4 5 . | | |
| 19 | 48.15 | 264 | 1.28 | 6393 | 5 0 . | | |
| 17 | 54 | 296 | 0.91 | 6939 | 5 6 . | | |
| 16 | 58.38 | 318 | 1.06 | 4951 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 5 5 C - - | 34 | 80B |
| 14 | 64.29 | 350 | 0.96 | 5849 | 6 3 . | | |
| 12 | 73.95 | 403 | 0.84 | 4817 | 7 1 . | | |
| 45 | 20.61 | 114 | 3.94 | 6989 | M 0 5 2 2 2 0 . _ M _ _ _ _ . 5 5 C - - | 33 | 80B |
| 42 | 22 | 121 | 3.69 | 6929 | 2 2 . | | |
| 34 | 27.3 | 151 | 2.98 | 6700 | 2 8 . | | |
| 29 | 32.19 | 178 | 2.53 | 6491 | 3 2 . | | |
| 26 | 35.25 | 194 | 2.32 | 6491 | 3 6 . | | |
| 21 | 43.2 | 237 | 1.71 | 6249 | 4 5 . | | |
| 19 | 48.15 | 264 | 1.43 | 6053 | 5 0 . | | |
| 17 | 54 | 296 | 0.91 | 6678 | 5 6 . | | |
| 16 | 58.38 | 318 | 1.41 | 5177 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 5 5 C - - | 34 | 80B |
| 14 | 64.29 | 351 | 1.28 | 4710 | 6 3 . | | |
| 12 | 73.95 | 404 | 1.11 | 4304 | 7 1 . | | |
| 11 | 80.4 | 439 | 1.02 | 3999 | 8 0 . | | |
| 10 | 96.52 | 525 | 0.86 | 2526 | 1 0 0 | | |
| 27 | 33.8 | 187 | 3.35 | 7200 | M 0 6 2 2 3 2 . _ M _ _ _ _ . 5 5 C - - | 38 | 80B |
| 23 | 39.86 | 220 | 2.84 | 7200 | 3 6 . | | |
| 21 | 43.64 | 241 | 2.6 | 7200 | 4 5 . | | |
| 17 | 53.49 | 294 | 1.85 | 7200 | 5 0 . | | |
| 15 | 59.61 | 328 | 1.43 | 6908 | 5 6 . | | |
| 13 | 72.28 | 394 | 1.59 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 5 5 C - - | 39 | 80B |
| 12 | 79.6 | 435 | 1.44 | 6720 | 7 1 . | | |
| 10 | 91.56 | 500 | 1.25 | 5812 | 8 0 . | | |
| 9.2 | 99.54 | 543 | 1.15 | 5209 | 1 0 0 | | |
| 7.7 | 119.5 | 652 | 0.96 | 6083 | 1 1 2 | | |
| 6.4 | 143.39 | 781 | 0.8 | 3831 | 1 2 5 | | |
| 22 | 42.21 | 231 | 3.75 | 10000 | M 0 7 2 2 4 5 . _ M _ _ _ _ . 5 5 C - - | 45 | 80B |
| 19 | 48.56 | 266 | 2.63 | 10000 | 5 0 . | | |
| 17 | 53.96 | 294 | 2.02 | 10000 | 5 6 . | | |
| 16 | 58.95 | 322 | 2.68 | 9221 | M 0 7 3 2 5 6 . _ M _ _ _ _ . 5 5 C - - | 50 | 80B |
| 15 | 62.83 | 343 | 2.53 | 9072 | 6 3 . | | |
| 12 | 74.47 | 408 | 2.13 | 8636 | 7 1 . | | |
| 12 | 79.51 | 433 | 2 | 8446 | 8 0 . | | |
| 9.3 | 98.66 | 537 | 1.61 | 8407 | 1 0 0 | | |
| 7.9 | 116.34 | 633 | 1.37 | 7534 | 1 1 2 | | |
| 7.2 | 127.39 | 693 | 1.25 | 7534 | 1 2 5 | | |
| 5.9 | 156.12 | 846 | 1.03 | 5591 | 1 6 0 | | |
| 5.3 | 174.01 | 945 | 0.94 | 4721 | 1 8 0 | | |
| 4.7 | 195.15 | 1057 | 0.84 | 4084 | 2 0 0 | | |
| 9 | 102.2 | 557 | 2.96 | 20000 | M 0 8 3 2 1 0 0 _ M _ _ _ _ . 5 5 C - - | 78 | 80B |
| 7.7 | 119.19 | 648 | 2.54 | 20000 | 1 1 2 | | |
| 7 | 130.92 | 711 | 2.32 | 20000 | 1 2 5 | | |
| 5.7 | 160.45 | 876 | 1.88 | 20000 | 1 6 0 | | |
| 5.3 | 175.21 | 952 | 1.73 | 20000 | 1 8 0 | | |
| 4.6 | 201.75 | 1093 | 1.51 | 20000 | 2 0 0 | | |
| 4 | 228.91 | 1221 | 1.12 | 18916 | M 0 8 4 2 2 2 5 _ M _ _ _ _ . 5 5 C - - | 107 | 80B |
| 3.6 | 258.98 | 1380 | 1.06 | 17870 | 2 5 0 | | |
| 3.1 | 301.21 | 1604 | 0.91 | 17870 | 2 8 0 | | |
| 2.7 | 337.01 | 1792 | 0.82 | 17870 | 3 0 0 | | |
| 6.3 | 145.2 | 791 | 3.12 | 29600 | M 0 9 3 1 1 4 0 _ M _ _ _ _ . 5 5 C - - | 129 | 80B |
| 5.7 | 160.29 | 875 | 2.82 | 29500 | 1 6 0 | | |
| 4 | 231.06 | 1244 | 2.13 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ . 5 5 C - - | 151 | 80B |
| 3.6 | 258.09 | 1388 | 2.06 | 24951 | 2 5 0 | | |
| 3.1 | 300.18 | 1613 | 1.77 | 24951 | 2 8 0 | | |
| 2.7 | 335.85 | 1802 | 1.59 | 24951 | 3 0 0 | | |
| 2.6 | 357.95 | 1922 | 1.49 | 24951 | 3 6 0 | | |
| 2.2 | 424.23 | 2275 | 1.26 | 24951 | 4 0 0 | | |
| 2 | 471.32 | 2525 | 1.13 | 24951 | 4 5 0 | | |
| 1.8 | 503.22 | 2695 | 1.06 | 24951 | 5 0 0 | | |
| 1.5 | 624.45 | 3339 | 0.86 | 24951 | 6 5 0 | | |

NOTE

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

## 0.55 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry 1 Through 20, Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 4.2 | 220.22 | 1179 | 3.74 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ . 5 5 C - - | 213 | 80B |
| 3.8 | 242.24 | 1297 | 3.4 | 41580 | 2 5 0 | | |
| 3.3 | 278.36 | 1489 | 2.96 | 41580 | 2 8 0 | | |
| 2.9 | 315.65 | 1686 | 2.62 | 41580 | 3 0 0 | | |
| 2.6 | 348.16 | 1861 | 2.37 | 41580 | 3 6 0 | | |
| 2.3 | 398.71 | 2130 | 2.07 | 41580 | 4 0 0 | | |
| 2.1 | 443.06 | 2364 | 1.87 | 41580 | 4 5 0 | | |
| 1.8 | 500.94 | 2670 | 1.65 | 41580 | 5 0 0 | | |
| 1.6 | 580.78 | 3093 | 1.43 | 41580 | 6 5 0 | | |
| 1.3 | 692.72 | 3683 | 1.2 | 41580 | 7 3 0 | | |
| 1.1 | 828.21 | 4397 | 1 | 41580 | 8 6 0 | | |
| 0.93 | 987.84 | 5238 | 0.84 | 41580 | 1 0 C | | |
| 2.8 | 325.33 | 1733 | 3.66 | 64632 | M 1 3 4 1 3 0 0 _ M _ _ _ _ . 5 5 C - - | 287 | 80B |
| 2.6 | 358.84 | 1912 | 3.32 | 64632 | 3 6 0 | | |
| 2.2 | 410.95 | 2189 | 2.9 | 64632 | 4 0 0 | | |
| 2 | 463.22 | 2466 | 2.57 | 64632 | 4 5 0 | | |
| 1.8 | 523.74 | 2786 | 2.28 | 64632 | 5 0 0 | | |
| 1.5 | 607.22 | 3226 | 1.97 | 64632 | 6 5 0 | | |
| 1.3 | 724.25 | 3842 | 1.65 | 64632 | 7 3 0 | | |
| 1.1 | 858.69 | 4535 | 1.4 | 64632 | 8 6 0 | | |
| 0.9 | 1024.19 | 5402 | 1.18 | 64632 | 1 0 C | | |
| 0.81 | 1140.7 | 6006 | 1.06 | 64632 | 1 1 C | | |
| 0.74 | 1249.19 | 6571 | 0.97 | 64632 | 1 3 C | | |
| 0.6 | 1528.11 | 8013 | 0.81 | 64690 | 1 5 C | | |
| 1.7 | 556.83 | 2961 | 3.64 | 80613 | M 1 4 4 1 5 0 0 _ M _ _ _ _ . 5 5 C - - | 403 | 80B |
| 1.4 | 645.58 | 3429 | 3.14 | 80613 | 6 5 0 | | |
| 1.2 | 770.01 | 4083 | 2.64 | 80613 | 7 3 0 | | |
| 1.1 | 801.52 | 4244 | 2.51 | 80613 | 8 6 0 | | |
| 0.99 | 929.27 | 4915 | 2.17 | 80613 | 1 0 C | | |
| 0.83 | 1108.37 | 5853 | 1.82 | 80613 | 1 1 C | | |
| 0.76 | 1213.79 | 6404 | 1.66 | 80613 | 1 3 C | | |
| 0.61 | 1502.21 | 7906 | 1.28 | 80711 | 1 5 C | | |
| 0.51 | 1802.65 | 9464 | 1.07 | 80711 | 1 8 C | | |
| 0.44 | 2074.02 | 10876 | 0.93 | 80711 | 2 0 C | | |
| 0.4 | 2304.47 | 12062 | 0.84 | 80711 | 2 4 C | | |

## 0.75 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry 1 Through 20, Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 377 | 3.75 | 18 | 3.24 | 1596 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 7 5 A - - | 18.5 | 80A |
| 279 | 5.07 | 24 | 2.72 | 1665 | 5 . 0 | | |
| 246 | 5.76 | 28 | 2.54 | 1694 | 5 . 6 | | |
| 217 | 6.53 | 32 | 2.34 | 1633 | 6 . 3 | | |
| 169 | 8.35 | 40 | 1.94 | 1616 | 8 . 0 | | |
| 157 | 9 | 44 | 1.82 | 1612 | 9 . 0 | | |
| 125 | 11.36 | 55 | 1.51 | 1636 | 1 1 . | | |
| 110 | 12.88 | 63 | 1.38 | 1636 | 1 2 . | | |
| 96 | 14.71 | 72 | 1.25 | 1417 | 1 4 . | | |
| 86 | 16.37 | 79 | 1.12 | 1800 | 1 6 . | | |
| 78 | 18.05 | 88 | 1.02 | 1660 | 1 8 . | | |
| 71 | 19.86 | 96 | 0.93 | 1400 | 2 0 . | | |
| 177 | 8 | 39 | 3.47 | 4000 | M 0 2 2 2 8 . 0 _ M _ _ _ _ . 7 5 A - - | 22.5 | 80A |
| 156 | 9.09 | 44 | 3.14 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 54 | 2.65 | 4000 | 1 1 . | | |
| 114 | 12.37 | 60 | 2.45 | 4000 | 1 2 . | | |
| 101 | 14.05 | 68 | 2.22 | 4000 | 1 4 . | | |
| 89 | 15.97 | 78 | 2.04 | 3968 | 1 6 . | | |
| 80 | 17.58 | 85 | 1.86 | 3878 | 1 8 . | | |
| 70 | 20.23 | 99 | 1.61 | 3757 | 2 0 . | | |
| 64 | 21.99 | 107 | 1.48 | 4000 | 2 2 . | | |
| 54 | 26.4 | 128 | 1.24 | 3847 | 2 8 . | | |
| 45 | 31.68 | 154 | 1.04 | 4000 | 3 2 . | | |
| 40 | 35.69 | 173 | 0.92 | 4000 | 3 6 . | | |
| 156 | 9.09 | 44 | 3.76 | 4000 | M 0 3 2 2 9 . 0 _ M _ _ _ _ . 7 5 A - - | 22.5 | 80A |
| 127 | 11.15 | 54 | 3.28 | 4000 | 1 1 . | | |
| 114 | 12.37 | 60 | 3.07 | 4000 | 1 2 . | | |
| 101 | 14.05 | 69 | 2.81 | 4000 | 1 4 . | | |
| 89 | 15.97 | 77 | 2.63 | 3957 | 1 6 . | | |
| 80 | 17.58 | 85 | 2.42 | 3898 | 1 8 . | | |
| 70 | 20.23 | 99 | 2.11 | 3689 | 2 0 . | | |
| 64 | 21.99 | 107 | 1.94 | 3568 | 2 2 . | | |
| 54 | 26.4 | 128 | 1.63 | 3045 | 2 8 . | | |
| 45 | 31.68 | 154 | 1.35 | 3182 | 3 2 . | | |
| 40 | 35.69 | 173 | 1.2 | 2680 | 3 6 . | | |
| 34 | 41.49 | 202 | 0.98 | 3360 | 4 5 . | | |
| 30 | 47.09 | 229 | 0.88 | 2600 | 5 0 . | | |

NOTE

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

**0.75kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 81 | 17.39 | 85 | 3.64 | 6430 | M 0 4 2 2 1 8 . _ M _ _ _ _ . 7 5 A - - | 30.5 | 80A |
| 69 | 20.61 | 100 | 3.16 | 6750 | 2 0 . | | |
| 64 | 22 | 107 | 2.99 | 6880 | 2 2 . | | |
| 52 | 27.3 | 133 | 2.51 | 7052 | 2 8 . | | |
| 44 | 32.19 | 157 | 2.15 | 7124 | 3 2 . | | |
| 40 | 35.25 | 172 | 1.96 | 7147 | 3 6 . | | |
| 33 | 43.2 | 211 | 1.6 | 6970 | 4 5 . | | |
| 29 | 48.15 | 234 | 1.44 | 7178 | 5 0 . | | |
| 26 | 54 | 262 | 1.03 | 7200 | 5 6 . | | |
| 24 | 58.38 | 281 | 1.2 | 6729 | M 0 4 3 2 5 6 . _ M _ _ _ _ . 7 5 A - - | 32.5 | 80A |
| 22 | 64.29 | 310 | 1.09 | 7200 | 6 3 . | | |
| 19 | 73.95 | 357 | 0.95 | 7130 | 7 1 . | | |
| 18 | 80.4 | 388 | 0.87 | 6970 | 8 0 . | | |
| 52 | 27.3 | 134 | 3.36 | 6723 | M 0 5 2 2 2 8 . _ M _ _ _ _ . 7 5 A - - | 31.5 | 80A |
| 44 | 32.19 | 157 | 2.85 | 6875 | 3 2 . | | |
| 40 | 35.25 | 172 | 2.62 | 6769 | 3 6 . | | |
| 33 | 43.2 | 210 | 1.68 | 6865 | 4 5 . | | |
| 29 | 48.15 | 234 | 1.55 | 6658 | 5 0 . | | |
| 26 | 54 | 262 | 1.03 | 7200 | 5 6 . | | |
| 24 | 58.38 | 283 | 1.59 | 6502 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 7 5 A - - | 32.5 | 80A |
| 22 | 64.29 | 311 | 1.44 | 6044 | 6 3 . | | |
| 19 | 73.95 | 358 | 1.26 | 5064 | 7 1 . | | |
| 18 | 80.4 | 389 | 1.16 | 6390 | 8 0 . | | |
| 15 | 96.52 | 466 | 0.97 | 4780 | 1 0 0 | | |
| 42 | 33.8 | 165 | 3.77 | 7200 | M 0 6 2 2 3 2 . _ M _ _ _ _ . 7 5 A - - | 36.5 | 80A |
| 36 | 39.86 | 194 | 3.21 | 7200 | 3 6 . | | |
| 32 | 43.64 | 213 | 2.93 | 7200 | 4 5 . | | |
| 26 | 53.49 | 260 | 2.02 | 7200 | 5 0 . | | |
| 24 | 59.61 | 291 | 1.61 | 7200 | 5 6 . | | |
| 20 | 72.28 | 348 | 1.8 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 7 5 A - - | 37.5 | 80A |
| 18 | 79.6 | 386 | 1.61 | 7200 | 7 1 . | | |
| 15 | 91.56 | 441 | 1.42 | 7200 | 8 0 . | | |
| 14 | 99.54 | 481 | 1.3 | 7200 | 1 0 0 | | |
| 12 | 119.5 | 577 | 1.08 | 7200 | 1 1 2 | | |
| 10 | 143.39 | 691 | 0.91 | 7200 | 1 2 5 | | |
| 29 | 48.56 | 235 | 2.97 | 10000 | M 0 7 2 2 5 0 . _ M _ _ _ _ . 7 5 A - - | 43.5 | 80A |
| 26 | 53.96 | 261 | 2.28 | 10000 | 5 6 . | | |
| 24 | 58.95 | 285 | 2.64 | 9458 | M 0 7 3 2 5 6 . _ M _ _ _ _ . 7 5 A - - | 48.5 | 80A |
| 23 | 62.83 | 303 | 2.54 | 9349 | 6 3 . | | |
| 19 | 74.47 | 359 | 2.26 | 9454 | 7 1 . | | |
| 18 | 79.51 | 383 | 2.17 | 9288 | 8 0 . | | |
| 14 | 98.66 | 476 | 1.82 | 8661 | 1 0 0 | | |
| 12 | 116.34 | 560 | 1.55 | 8450 | 1 1 2 | | |
| 11 | 127.39 | 612 | 1.42 | 7996 | 1 2 5 | | |
| 9.1 | 156.12 | 751 | 1.16 | 6910 | 1 6 0 | | |
| 8.1 | 174.01 | 837 | 1.04 | 5530 | 1 8 0 | | |
| 7.3 | 195.15 | 936 | 0.93 | 3899 | 2 0 0 | | |
| 6.2 | 229 | 1081 | 0.8 | 4677 | M 0 7 4 2 2 2 5 _ M _ _ _ _ . 7 5 A - - | 57.5 | 80A |
| 14 | 102.2 | 493 | 3.34 | 20000 | M 0 8 3 2 1 0 0 _ M _ _ _ _ . 7 5 A - - | 76.5 | 80A |
| 12 | 119.19 | 573 | 2.88 | 19337 | 1 1 2 | | |
| 11 | 130.92 | 630 | 2.62 | 19051 | 1 2 5 | | |
| 8.8 | 160.45 | 773 | 2.13 | 19410 | 1 6 0 | | |
| 8.1 | 175.21 | 845 | 1.95 | 18989 | 1 8 0 | | |
| 7 | 201.75 | 968 | 1.7 | 18252 | 2 0 0 | | |
| 6.2 | 228.91 | 1079 | 1.27 | 18916 | M 0 8 4 2 2 2 5 _ M _ _ _ _ . 7 5 A - - | 105.5 | 80A |
| 5.5 | 258.98 | 1219 | 1.2 | 17870 | 2 5 0 | | |
| 4.7 | 301.21 | 1418 | 1.03 | 17870 | 2 8 0 | | |
| 4.2 | 337.01 | 1585 | 0.92 | 17870 | 3 0 0 | | |
| 3.9 | 359.19 | 1691 | 0.87 | 17870 | 3 6 0 | | |
| 10 | 145.2 | 700 | 3.53 | 29600 | M 0 9 3 1 1 4 0 _ M _ _ _ _ . 7 5 A - - | 127.5 | 80A |
| 8.8 | 160.29 | 771 | 3.2 | 29600 | 1 6 0 | | |
| 6.1 | 231.06 | 1101 | 2.4 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ . 7 5 A - - | 149.5 | 80A |
| 5.5 | 258.09 | 1228 | 2.33 | 24951 | 2 5 0 | | |
| 4.7 | 300.18 | 1428 | 2 | 24951 | 2 8 0 | | |
| 4.2 | 335.85 | 1596 | 1.79 | 24951 | 3 0 0 | | |
| 4 | 357.95 | 1702 | 1.68 | 24951 | 3 6 0 | | |
| 3.3 | 424.23 | 2016 | 1.42 | 24951 | 4 0 0 | | |
| 3 | 471.32 | 2237 | 1.28 | 24951 | 4 5 0 | | |
| 2.8 | 503.22 | 2388 | 1.2 | 24951 | 5 0 0 | | |
| 2.3 | 624.45 | 2959 | 0.97 | 24951 | 6 5 0 | | |
| 1.9 | 736.35 | 3485 | 0.82 | 24951 | 7 3 0 | | |

NOTE

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

**0.75 kW**

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 5.8 | 242.24 | 1148 | 3.84 | 41580 | M 1 0 4 1 2 5 0 _ M _ _ _ _ . 7 5 A - - | 211.5 | 80A |
| 5.1 | 278.36 | 1318 | 3.35 | 41580 | 2 8 0 | | |
| 4.5 | 315.65 | 1493 | 2.95 | 41580 | 3 0 0 | | |
| 4.1 | 348.16 | 1648 | 2.68 | 41580 | 3 6 0 | | |
| 3.5 | 398.71 | 1886 | 2.34 | 41580 | 4 0 0 | | |
| 3.2 | 443.06 | 2093 | 2.11 | 41580 | 4 5 0 | | |
| 2.8 | 500.94 | 2365 | 1.87 | 41580 | 5 0 0 | | |
| 2.4 | 580.78 | 2740 | 1.61 | 41580 | 6 5 0 | | |
| 2 | 692.72 | 3264 | 1.35 | 41580 | 7 3 0 | | |
| 1.7 | 828.21 | 3892 | 1.13 | 41580 | 8 6 0 | | |
| 1.4 | 987.84 | 4638 | 0.95 | 41580 | 1 0 C | | |
| 1.2 | 1138.21 | 5332 | 0.83 | 41580 | 1 1 C | | |
| 3.9 | 358.84 | 1694 | 3.75 | 64632 | M 1 3 4 1 3 6 0 _ M _ _ _ _ . 7 5 A - - | 285.5 | 80A |
| 3.4 | 410.95 | 1939 | 3.27 | 64632 | 4 0 0 | | |
| 3.1 | 463.22 | 2185 | 2.91 | 64632 | 4 5 0 | | |
| 2.7 | 523.74 | 2468 | 2.57 | 64632 | 5 0 0 | | |
| 2.3 | 607.22 | 2859 | 2.22 | 64632 | 6 5 0 | | |
| 2 | 724.25 | 3406 | 1.86 | 64632 | 7 3 0 | | |
| 1.6 | 858.69 | 4016 | 1.58 | 64632 | 8 6 0 | | |
| 1.4 | 1024.19 | 4785 | 1.33 | 64632 | 1 0 C | | |
| 1.2 | 1140.7 | 5319 | 1.19 | 64632 | 1 1 C | | |
| 1.1 | 1249.19 | 5821 | 1.09 | 64632 | 1 3 C | | |
| 0.93 | 1528.11 | 7097 | 0.91 | 64690 | 1 5 C | | |
| 2.2 | 645.58 | 3040 | 3.54 | 80613 | M 1 4 4 1 6 5 0 _ M _ _ _ _ . 7 5 A - - | 401.5 | 80A |
| 1.8 | 770.01 | 3621 | 2.97 | 80613 | 7 3 0 | | |
| 1.8 | 801.52 | 3760 | 2.83 | 80613 | 8 6 0 | | |
| 1.5 | 929.27 | 4355 | 2.45 | 80613 | 1 0 C | | |
| 1.3 | 1108.37 | 5188 | 2.05 | 80613 | 1 1 C | | |
| 1.2 | 1213.79 | 5677 | 1.88 | 80613 | 1 3 C | | |
| 0.94 | 1502.21 | 7007 | 1.44 | 80711 | 1 5 C | | |
| 0.78 | 1802.65 | 8391 | 1.2 | 80711 | 1 8 C | | |
| 0.68 | 2074.02 | 9645 | 1.05 | 80711 | 2 0 C | | |
| 0.61 | 2304.47 | 10700 | 0.94 | 80711 | 2 4 C | | |
| 0.52 | 2743.72 | 12627 | 0.84 | 80613 | M 1 4 5 1 2 7 C _ M _ _ _ _ . 7 5 A - - | 406.5 | 80A |

**0.75 kW**

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 245 | 3.75 | 28 | 2.41 | 1610 | M 0 1 2 2 3 . 6 _ M _ _ _ _ . 7 5 C - - | 23.5 | 90S |
| 182 | 5.07 | 38 | 1.98 | 1636 | 5 . 0 | | |
| 160 | 5.76 | 43 | 1.8 | 1630 | 5 . 6 | | |
| 141 | 6.53 | 49 | 1.62 | 1636 | 6 . 3 | | |
| 110 | 8.35 | 62 | 1.35 | 1636 | 8 . 0 | | |
| 102 | 9 | 67 | 1.28 | 1565 | 9 . 0 | | |
| 81 | 11.36 | 85 | 1.05 | 1081 | 1 1 . | | |
| 71 | 12.88 | 96 | 0.93 | 770 | 1 2 . | | |
| 63 | 14.71 | 110 | 0.81 | 678 | 1 4 . | | |
| 183 | 5.03 | 37 | 3.45 | 4000 | M 0 2 2 2 5 . 0 _ M _ _ _ _ . 7 5 C - - | 26.5 | 90S |
| 166 | 5.55 | 41 | 3.19 | 4000 | 5 . 6 | | |
| 146 | 6.3 | 47 | 2.9 | 4000 | 6 . 3 | | |
| 115 | 8 | 60 | 2.4 | 4000 | 8 . 0 | | |
| 101 | 9.09 | 68 | 2.18 | 4000 | 9 . 0 | | |
| 82 | 11.15 | 84 | 1.87 | 4000 | 1 1 . | | |
| 74 | 12.37 | 93 | 1.71 | 4000 | 1 2 . | | |
| 65 | 14.05 | 106 | 1.51 | 4000 | 1 4 . | | |
| 58 | 15.97 | 120 | 1.33 | 4000 | 1 6 . | | |
| 52 | 17.58 | 132 | 1.21 | 3833 | 1 8 . | | |
| 45 | 20.23 | 152 | 1.05 | 3341 | 2 0 . | | |
| 42 | 21.99 | 165 | 0.97 | 3023 | 2 2 . | | |
| 35 | 26.4 | 198 | 0.81 | 2141 | 2 8 . | | |
| 166 | 5.55 | 41 | 3.8 | 4000 | M 0 3 2 2 5 . 6 _ M _ _ _ _ . 7 5 C - - | 26.5 | 90S |
| 146 | 6.3 | 47 | 3.5 | 4000 | 6 . 3 | | |
| 115 | 8 | 60 | 3.02 | 4000 | 8 . 0 | | |
| 101 | 9.09 | 68 | 2.77 | 4000 | 9 . 0 | | |
| 82 | 11.15 | 84 | 2.41 | 4000 | 1 1 . | | |
| 74 | 12.37 | 93 | 2.24 | 4000 | 1 2 . | | |
| 65 | 14.05 | 106 | 1.97 | 4000 | 1 4 . | | |
| 58 | 15.97 | 120 | 1.74 | 4000 | 1 6 . | | |
| 52 | 17.58 | 132 | 1.57 | 3801 | 1 8 . | | |
| 45 | 20.23 | 152 | 1.37 | 3306 | 2 0 . | | |
| 42 | 21.99 | 165 | 1.26 | 2971 | 2 2 . | | |
| 35 | 26.4 | 198 | 1.05 | 2141 | 2 8 . | | |
| 29 | 31.68 | 237 | 0.88 | 1521 | 3 2 . | | |
| 73 | 12.54 | 94 | 3.44 | 6590 | M 0 4 2 2 1 2 . _ M _ _ _ _ . 7 5 C - - | 35.5 | 90S |
| 63 | 14.58 | 110 | 3.07 | 6880 | 1 4 . | | |
| 56 | 16.31 | 123 | 2.75 | 7100 | 1 6 . | | |
| 53 | 17.39 | 131 | 2.57 | 7050 | 1 8 . | | |
| 45 | 20.61 | 155 | 2.17 | 6996 | 2 0 . | | |
| 42 | 22 | 166 | 2.03 | 6915 | 2 2 . | | |
| 34 | 27.3 | 205 | 1.65 | 6186 | 2 8 . | | |
| 29 | 32.19 | 242 | 1.39 | 6429 | 3 2 . | | |
| 26 | 35.25 | 265 | 1.28 | 6093 | 3 6 . | | |
| 21 | 43.2 | 324 | 1.04 | 5229 | 4 5 . | | |
| 19 | 48.15 | 360 | 0.94 | 5497 | 5 0 . | | |

NOTE

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

**0.75 kW**

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 56 | 16.31 | 123 | 3.65 | 6381 | M 0 5 2 2 1 6 . _ M _ _ _ _ . 7 5 C - - | 36.5 | 90S |
| 53 | 17.39 | 131 | 3.42 | 6708 | 1 8 . | | |
| 45 | 20.61 | 155 | 2.89 | 6755 | 2 0 . | | |
| 42 | 22 | 166 | 2.71 | 6628 | 2 2 . | | |
| 34 | 27.3 | 205 | 2.18 | 6145 | 2 8 . | | |
| 29 | 32.19 | 242 | 1.85 | 5704 | 3 2 . | | |
| 26 | 35.25 | 264 | 1.7 | 5704 | 3 6 . | | |
| 21 | 43.2 | 324 | 1.25 | 5192 | 4 5 . | | |
| 19 | 48.15 | 360 | 1.05 | 4778 | 5 0 . | | |
| 16 | 58.38 | 434 | 1.03 | 3829 | M 0 5 3 2 5 6 . _ M _ _ _ _ . 7 5 C - - | 37.5 | 90S |
| 14 | 64.29 | 479 | 0.94 | 3050 | 6 3 . | | |
| 12 | 73.95 | 551 | 0.82 | 2739 | 7 1 . | | |
| 36 | 25.51 | 192 | 3.25 | 7200 | M 0 6 2 2 2 2 . _ M _ _ _ _ . 7 5 C - - | 41.5 | 90S |
| 34 | 27.24 | 205 | 3.04 | 7200 | 2 8 . | | |
| 27 | 33.8 | 255 | 2.45 | 7200 | 3 2 . | | |
| 23 | 39.86 | 300 | 2.08 | 7010 | 3 6 . | | |
| 21 | 43.64 | 328 | 1.9 | 6813 | 4 5 . | | |
| 17 | 53.49 | 401 | 1.35 | 7193 | 5 0 . | | |
| 15 | 59.61 | 447 | 1.05 | 6584 | 5 6 . | | |
| 13 | 72.28 | 538 | 1.16 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ . 7 5 C - - | 42.5 | 90S |
| 12 | 79.6 | 593 | 1.05 | 6400 | 7 1 . | | |
| 10 | 91.56 | 682 | 0.92 | 4888 | 8 0 . | | |
| 9.2 | 99.54 | 741 | 0.84 | 3882 | 1 0 0 | | |
| 29 | 32.12 | 241 | 3.59 | 9420 | M 0 7 2 2 3 2 . _ M _ _ _ _ . 7 5 C - - | 48.5 | 90S |
| 26 | 35.17 | 264 | 3.28 | 9420 | 3 6 . | | |
| 22 | 42.21 | 315 | 2.75 | 9183 | 4 5 . | | |
| 19 | 48.56 | 363 | 1.93 | 9043 | 5 0 . | | |
| 17 | 53.96 | 402 | 1.48 | 9208 | 5 6 . | | |
| 16 | 58.95 | 439 | 1.97 | 8355 | M 0 7 3 2 5 6 . _ M _ _ _ _ . 7 5 C - - | 53.5 | 90S |
| 15 | 62.83 | 468 | 1.85 | 8042 | 6 3 . | | |
| 12 | 74.47 | 556 | 1.56 | 7121 | 7 1 . | | |
| 12 | 79.51 | 590 | 1.47 | 6721 | 8 0 . | | |
| 9.3 | 98.66 | 733 | 1.18 | 6637 | 1 0 0 | | |
| 7.9 | 116.34 | 864 | 1 | 4794 | 1 1 2 | | |
| 7.2 | 127.39 | 946 | 0.92 | 4794 | 1 2 5 | | |
| 16 | 55.8 | 416 | 3.72 | 20000 | M 0 8 2 2 5 6 . _ M _ _ _ _ . 7 5 C - - | 81.5 | 90S |
| 14 | 66.02 | 490 | 3.36 | 20000 | M 0 8 3 2 6 3 . _ M _ _ _ _ . 7 5 C - - | 81.5 | 90S |
| 12 | 74.69 | 556 | 2.96 | 20000 | 7 1 . | | |
| 11 | 84.31 | 626 | 2.63 | 20000 | 8 0 . | | |
| 9 | 102.2 | 759 | 2.17 | 18367 | 1 0 0 | | |
| 7.7 | 119.19 | 884 | 1.87 | 17935 | 1 1 2 | | |
| 7 | 130.92 | 970 | 1.7 | 17575 | 1 2 5 | | |
| 5.7 | 160.45 | 1195 | 1.38 | 17044 | 1 6 0 | | |
| 5.3 | 175.21 | 1299 | 1.27 | 16406 | 1 8 0 | | |
| 4.6 | 201.75 | 1491 | 1.11 | 15789 | 2 0 0 | | |
| 4 | 228.91 | 1665 | 0.82 | 18916 | M 0 8 4 2 2 2 5 _ M _ _ _ _ . 7 5 C - - | 112.5 | 90S |
| 7.9 | 116.55 | 870 | 3.28 | 29500 | M 0 9 3 1 1 1 2 _ M _ _ _ _ . 7 5 C - - | 131.5 | 90S |
| 7.2 | 128.66 | 960 | 2.98 | 29500 | 1 2 5 | | |
| 6.3 | 145.2 | 1079 | 2.29 | 29442 | 1 4 0 | | |
| 5.7 | 160.29 | 1193 | 2.07 | 29330 | 1 6 0 | | |
| 4 | 231.06 | 1696 | 1.56 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ . 7 5 C - - | 156.5 | 90S |
| 3.6 | 258.09 | 1892 | 1.51 | 24951 | 2 5 0 | | |
| 3.1 | 300.18 | 2200 | 1.3 | 24951 | 2 8 0 | | |
| 2.7 | 335.85 | 2457 | 1.16 | 24951 | 3 0 0 | | |
| 2.6 | 357.95 | 2621 | 1.09 | 24951 | 3 6 0 | | |
| 2.2 | 424.23 | 3103 | 0.92 | 24951 | 4 0 0 | | |
| 2 | 471.32 | 3444 | 0.83 | 24951 | 4 5 0 | | |
| 4.2 | 220.22 | 1608 | 2.74 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ . 7 5 C - - | 217.5 | 90S |
| 3.8 | 242.24 | 1768 | 2.49 | 41580 | 2 5 0 | | |
| 3.3 | 278.36 | 2031 | 2.17 | 41580 | 2 8 0 | | |
| 2.9 | 315.65 | 2300 | 1.92 | 41580 | 3 0 0 | | |
| 2.6 | 348.16 | 2538 | 1.74 | 41580 | 3 6 0 | | |
| 2.3 | 398.71 | 2904 | 1.52 | 41580 | 4 0 0 | | |
| 2.1 | 443.06 | 3224 | 1.37 | 41580 | 4 5 0 | | |
| 1.8 | 500.94 | 3642 | 1.21 | 41580 | 5 0 0 | | |
| 1.6 | 580.78 | 4217 | 1.05 | 41580 | 6 5 0 | | |
| 1.3 | 692.72 | 5022 | 0.88 | 41580 | 7 3 0 | | |

NOTE

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

### 0.75 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation<br>Column Entry [1] Through [20]<br>Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 4.1 | 226.98 | 1653 | 3.84 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ . 7 5 C - - | 292.5 | 90S |
| 3.7 | 249.68 | 1818 | 3.49 | 64632 | 2 5 0 | | |
| 3.2 | 286.9 | 2087 | 3.04 | 64632 | 2 8 0 | | |
| 2.8 | 325.33 | 2363 | 2.69 | 64632 | 3 0 0 | | |
| 2.6 | 358.84 | 2608 | 2.43 | 64632 | 3 6 0 | | |
| 2.2 | 410.95 | 2985 | 2.13 | 64632 | 4 0 0 | | |
| 2 | 463.22 | 3363 | 1.89 | 64632 | 4 5 0 | | |
| 1.8 | 523.74 | 3799 | 1.67 | 64632 | 5 0 0 | | |
| 1.5 | 607.22 | 4400 | 1.44 | 64632 | 6 5 0 | | |
| 1.3 | 724.25 | 5239 | 1.21 | 64632 | 7 3 0 | | |
| 1.1 | 858.69 | 6184 | 1.03 | 64632 | 8 6 0 | | |
| 0.9 | 1024.19 | 7366 | 0.86 | 64632 | 1 0 C | | |
| 2.4 | 390.06 | 2836 | 3.74 | 80613 | M 1 4 4 1 3 6 0 _ M _ _ _ _ . 7 5 C - - | 408.5 | 90S |
| 2.1 | 446.71 | 3245 | 3.26 | 80613 | 4 0 0 | | |
| 1.9 | 492.49 | 3575 | 3.01 | 80613 | 4 5 0 | | |
| 1.7 | 556.83 | 4038 | 2.67 | 80613 | 5 0 0 | | |
| 1.4 | 645.58 | 4676 | 2.3 | 80613 | 6 5 0 | | |
| 1.2 | 770.01 | 5568 | 1.93 | 80613 | 7 3 0 | | |
| 1.1 | 801.52 | 5787 | 1.84 | 80613 | 8 6 0 | | |
| 0.99 | 929.27 | 6702 | 1.59 | 80613 | 1 0 C | | |
| 0.83 | 1108.37 | 7982 | 1.33 | 80613 | 1 1 C | | |
| 0.76 | 1213.79 | 8732 | 1.22 | 80613 | 1 3 C | | |
| 0.61 | 1502.21 | 10781 | 0.94 | 80711 | 1 5 C | | |

### 1.1 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 376 | 3.75 | 26 | 2.2 | 1543 | M 0 1 2 2 3 . 6 _ M _ _ _ _ 1 . 1 A - - | 23.5 | 90S |
| 278 | 5.07 | 36 | 1.85 | 1596 | 5 . 0 | | |
| 245 | 5.76 | 41 | 1.72 | 1613 | 5 . 6 | | |
| 216 | 6.53 | 47 | 1.59 | 1496 | 6 . 3 | | |
| 169 | 8.35 | 60 | 1.32 | 1459 | 8 . 0 | | |
| 157 | 9 | 65 | 1.24 | 1452 | 9 . 0 | | |
| 124 | 11.36 | 82 | 1.03 | 1490 | 1 1 . | | |
| 109 | 12.88 | 92 | 0.94 | 1490 | 1 2 . | | |
| 96 | 14.71 | 106 | 0.85 | 1150 | 1 4 . | | |
| 393 | 3.59 | 25 | 3.88 | 3750 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 1 . 1 A - - | 26.5 | 90S |
| 280 | 5.03 | 36 | 3.19 | 3950 | 5 . 0 | | |
| 254 | 5.55 | 40 | 3.01 | 4000 | 5 . 6 | | |
| 224 | 6.3 | 45 | 2.79 | 3992 | 6 . 3 | | |
| 176 | 8 | 57 | 2.36 | 4000 | 8 . 0 | | |
| 155 | 9.09 | 65 | 2.13 | 4000 | 9 . 0 | | |
| 126 | 11.15 | 80 | 1.8 | 4000 | 1 1 . | | |
| 114 | 12.37 | 89 | 1.66 | 4000 | 1 2 . | | |
| 100 | 14.05 | 101 | 1.51 | 4000 | 1 4 . | | |
| 88 | 15.97 | 115 | 1.39 | 3913 | 1 6 . | | |
| 80 | 17.58 | 126 | 1.26 | 3767 | 1 8 . | | |
| 70 | 20.23 | 145 | 1.1 | 3534 | 2 0 . | | |
| 64 | 21.99 | 158 | 1.01 | 4000 | 2 2 . | | |
| 53 | 26.4 | 189 | 0.84 | 3740 | 2 8 . | | |
| 280 | 5.03 | 36 | 3.73 | 3920 | M 0 3 2 2 5 . 0 _ M _ _ _ _ 1 . 1 A - - | 26.5 | 90S |
| 254 | 5.55 | 39 | 3.51 | 3970 | 5 . 6 | | |
| 224 | 6.3 | 45 | 3.24 | 3990 | 6 . 3 | | |
| 176 | 8 | 57 | 2.78 | 4000 | 8 . 0 | | |
| 155 | 9.09 | 65 | 2.55 | 4000 | 9 . 0 | | |
| 126 | 11.15 | 80 | 2.23 | 4000 | 1 1 . | | |
| 114 | 12.37 | 89 | 2.09 | 4000 | 1 2 . | | |
| 100 | 14.05 | 101 | 1.91 | 4000 | 1 4 . | | |
| 88 | 15.97 | 114 | 1.79 | 3931 | 1 6 . | | |
| 80 | 17.58 | 126 | 1.64 | 3836 | 1 8 . | | |
| 70 | 20.23 | 145 | 1.43 | 3498 | 2 0 . | | |
| 64 | 21.99 | 158 | 1.32 | 3303 | 2 2 . | | |
| 53 | 26.4 | 189 | 1.11 | 2459 | 2 8 . | | |
| 45 | 31.68 | 227 | 0.92 | 2680 | 3 2 . | | |
| 40 | 35.69 | 255 | 0.82 | 1870 | 3 6 . | | |
| 112 | 12.54 | 90 | 3.13 | 5720 | M 0 4 2 2 1 2 . _ M _ _ _ _ 1 . 1 A - - | 35.5 | 90S |
| 97 | 14.58 | 105 | 2.8 | 5940 | 1 4 . | | |
| 86 | 16.31 | 117 | 2.6 | 6130 | 1 6 . | | |
| 81 | 17.39 | 125 | 2.48 | 6229 | 1 8 . | | |
| 68 | 20.61 | 148 | 2.15 | 6512 | 2 0 . | | |
| 64 | 22 | 158 | 2.03 | 6624 | 2 2 . | | |
| 52 | 27.3 | 196 | 1.71 | 6794 | 2 8 . | | |
| 44 | 32.19 | 231 | 1.46 | 6991 | 3 2 . | | |
| 40 | 35.25 | 253 | 1.33 | 7055 | 3 6 . | | |
| 33 | 43.2 | 310 | 1.09 | 6568 | 4 5 . | | |
| 29 | 48.15 | 344 | 0.98 | 7140 | 5 0 . | | |
| 24 | 58.38 | 414 | 0.82 | 6400 | M 0 4 3 2 5 6 . _ M _ _ _ _ 1 . 1 A - - | 36.5 | 90S |

NOTE

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

## 1.1 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry 1 Through 20, Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 86 | 16.31 | 117 | 3.82 | 5743 | M052216._MLLLL1.1A-- | 36.5 | 90S |
| 81 | 17.39 | 125 | 3.58 | 5832 | 18. | | |
| 68 | 20.61 | 148 | 3.02 | 6042 | 20. | | |
| 64 | 22 | 159 | 2.83 | 5957 | 22. | | |
| 52 | 27.3 | 197 | 2.28 | 6188 | 28. | | |
| 44 | 32.19 | 232 | 1.94 | 6307 | 32. | | |
| 40 | 35.25 | 253 | 1.78 | 6015 | 36. | | |
| 33 | 43.2 | 310 | 1.14 | 6279 | 45. | | |
| 29 | 48.15 | 345 | 1.05 | 5712 | 50. | | |
| 24 | 58.38 | 417 | 1.08 | 5860 | M053256._MLLLL1.1A-- | 37.5 | 90S |
| 22 | 64.29 | 458 | 0.98 | 4980 | 63. | | |
| 19 | 73.95 | 526 | 0.85 | 3570 | 71. | | |
| 55 | 25.51 | 184 | 3.39 | 7200 | M062222._MLLLL1.1A-- | 41.5 | 90S |
| 52 | 27.24 | 196 | 3.18 | 7200 | 28. | | |
| 42 | 33.8 | 244 | 2.56 | 7200 | 32. | | |
| 35 | 39.86 | 286 | 2.18 | 7200 | 36. | | |
| 32 | 43.64 | 314 | 1.99 | 7200 | 45. | | |
| 26 | 53.49 | 383 | 1.37 | 7200 | 50. | | |
| 24 | 59.61 | 428 | 1.1 | 7200 | 56. | | |
| 20 | 72.28 | 513 | 1.22 | 7200 | M063263._MLLLL1.1A-- | 42.5 | 90S |
| 18 | 79.6 | 568 | 1.1 | 7200 | 71. | | |
| 15 | 91.56 | 649 | 0.96 | 7200 | 80. | | |
| 14 | 99.54 | 708 | 0.88 | 7200 | 100 | | |
| 44 | 32.12 | 231 | 3.63 | 9517 | M072232._MLLLL1.1A-- | 48.5 | 90S |
| 40 | 35.17 | 252 | 3.35 | 9379 | 36. | | |
| 33 | 42.21 | 302 | 2.86 | 9338 | 45. | | |
| 29 | 48.56 | 347 | 2.02 | 9397 | 50. | | |
| 26 | 53.96 | 385 | 1.55 | 10000 | 56. | | |
| 24 | 58.95 | 420 | 1.79 | 8510 | M073256._MLLLL1.1A-- | 53.5 | 90S |
| 22 | 62.83 | 446 | 1.72 | 8210 | 63. | | |
| 19 | 74.47 | 529 | 1.54 | 8500 | 71. | | |
| 18 | 79.51 | 564 | 1.48 | 8043 | 80. | | |
| 14 | 98.66 | 701 | 1.24 | 6317 | 100 | | |
| 12 | 116.34 | 825 | 1.05 | 5740 | 112 | | |
| 11 | 127.39 | 900 | 0.96 | 4490 | 125 | | |
| 25 | 55.8 | 399 | 3.85 | 20000 | M082256._MLLLL1.1A-- | 81.5 | 90S |
| 23 | 60.33 | 427 | 3.74 | 20000 | M083256._MLLLL1.1A-- | 81.5 | 90S |
| 21 | 66.02 | 470 | 3.51 | 20000 | 63. | | |
| 19 | 74.69 | 530 | 3.11 | 20000 | 71. | | |
| 17 | 84.31 | 598 | 2.76 | 20000 | 80. | | |
| 14 | 102.2 | 726 | 2.27 | 18631 | 100 | | |
| 12 | 119.19 | 844 | 1.95 | 18177 | 112 | | |
| 11 | 130.92 | 928 | 1.78 | 17391 | 125 | | |
| 8.8 | 160.45 | 1138 | 1.45 | 18378 | 160 | | |
| 8 | 175.21 | 1244 | 1.33 | 17221 | 180 | | |
| 7 | 201.75 | 1424 | 1.16 | 15194 | 200 | | |
| 6.2 | 228.91 | 1588 | 0.86 | 18916 | M084225_MLLLL1.1A-- | 112.5 | 90S |
| 5.4 | 258.98 | 1795 | 0.82 | 17870 | 250 | | |
| 15 | 93.92 | 669 | 3.94 | 29600 | M093190._MLLLL1.1A-- | 131.5 | 90S |
| 14 | 103.68 | 739 | 3.57 | 29600 | 100 | | |
| 12 | 116.55 | 831 | 3.44 | 29500 | 112 | | |
| 11 | 128.66 | 919 | 3.11 | 29500 | 125 | | |
| 10 | 145.2 | 1031 | 2.4 | 29413 | 140 | | |
| 8.8 | 160.29 | 1135 | 2.17 | 29397 | 160 | | |
| 6.1 | 231.06 | 1621 | 1.63 | 25710 | M094125_MLLLL1.1A-- | 156.5 | 90S |
| 5.5 | 258.09 | 1808 | 1.58 | 24951 | 250 | | |
| 4.7 | 300.18 | 2103 | 1.36 | 24951 | 280 | | |
| 4.2 | 335.85 | 2349 | 1.22 | 24951 | 300 | | |
| 3.9 | 357.95 | 2506 | 1.14 | 24951 | 360 | | |
| 3.3 | 424.23 | 2968 | 0.96 | 24951 | 400 | | |
| 3 | 471.32 | 3293 | 0.87 | 24951 | 450 | | |
| 2.8 | 503.22 | 3514 | 0.81 | 24951 | 500 | | |
| 9 | 156.57 | 1109 | 3.76 | 49600 | M1031160_MLLLL1.1A-- | 179.5 | 90S |
| 6.4 | 220.22 | 1536 | 2.87 | 41580 | M104125_MLLLL1.1A-- | 217.5 | 90S |
| 5.8 | 242.24 | 1689 | 2.61 | 41580 | 250 | | |
| 5.1 | 278.36 | 1940 | 2.27 | 41580 | 280 | | |
| 4.5 | 315.65 | 2198 | 2.01 | 41580 | 300 | | |
| 4 | 348.16 | 2426 | 1.82 | 41580 | 360 | | |
| 3.5 | 398.71 | 2776 | 1.59 | 41580 | 400 | | |
| 3.2 | 443.06 | 3081 | 1.43 | 41580 | 450 | | |
| 2.8 | 500.94 | 3481 | 1.27 | 41580 | 500 | | |
| 2.4 | 580.78 | 4033 | 1.09 | 41580 | 650 | | |
| 2 | 692.72 | 4804 | 0.92 | 41580 | 730 | | |

NOTE

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

## 1.1 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry [1] Through [20] Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 5.6 | 249.68 | 1737 | 3.65 | 64632 | M 1 3 4 1 2 5 0 _ M _ _ _ _ 1 . 1 A - - | 292.5 | 90S |
| 4.9 | 286.9 | 1995 | 3.18 | 64632 | 2 8 0 | | |
| 4.3 | 325.33 | 2260 | 2.81 | 64632 | 3 0 0 | | |
| 3.9 | 358.84 | 2494 | 2.55 | 64632 | 3 6 0 | | |
| 3.4 | 410.95 | 2854 | 2.22 | 64632 | 4 0 0 | | |
| 3 | 463.22 | 3216 | 1.97 | 64632 | 4 5 0 | | |
| 2.7 | 523.74 | 3633 | 1.75 | 64632 | 5 0 0 | | |
| 2.3 | 607.22 | 4209 | 1.51 | 64632 | 6 5 0 | | |
| 1.9 | 724.25 | 5013 | 1.27 | 64632 | 7 3 0 | | |
| 1.6 | 858.69 | 5911 | 1.07 | 64632 | 8 6 0 | | |
| 1.4 | 1024.19 | 7043 | 0.9 | 64632 | 1 0 C | | |
| 1.2 | 1140.7 | 7829 | 0.81 | 64632 | 1 1 C | | |
| 3.6 | 390.06 | 2713 | 3.91 | 80613 | M 1 4 4 1 3 6 0 _ M _ _ _ _ 1 . 1 A - - | 408.5 | 90S |
| 3.2 | 446.71 | 3105 | 3.41 | 80613 | 4 0 0 | | |
| 2.9 | 492.49 | 3420 | 3.15 | 80613 | 4 5 0 | | |
| 2.5 | 556.83 | 3864 | 2.79 | 80613 | 5 0 0 | | |
| 2.2 | 645.58 | 4475 | 2.41 | 80613 | 6 5 0 | | |
| 1.8 | 770.01 | 5330 | 2.02 | 80613 | 7 3 0 | | |
| 1.8 | 801.52 | 5534 | 1.93 | 80613 | 8 6 0 | | |
| 1.5 | 929.27 | 6410 | 1.66 | 80613 | 1 0 C | | |
| 1.3 | 1108.37 | 7636 | 1.4 | 80613 | 1 1 C | | |
| 1.2 | 1213.79 | 8356 | 1.28 | 80613 | 1 3 C | | |
| 0.94 | 1502.21 | 10314 | 0.98 | 80711 | 1 5 C | | |
| 0.78 | 1802.65 | 12351 | 0.82 | 80711 | 1 8 C | | |

## 1.1 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry [1] Through [20] Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 247 | 3.75 | 41 | 1.66 | 1500 | M 0 1 2 2 3 . 6 _ M _ _ _ _ 1 . 1 C - - | 24.5 | 90L |
| 183 | 5.07 | 55 | 1.36 | 1490 | 5 . 0 | | |
| 161 | 5.76 | 63 | 1.24 | 1480 | 5 . 6 | | |
| 142 | 6.53 | 72 | 1.11 | 1490 | 6 . 3 | | |
| 111 | 8.35 | 91 | 0.93 | 1490 | 8 . 0 | | |
| 103 | 9 | 98 | 0.88 | 1380 | 9 . 0 | | |
| 258 | 3.59 | 39 | 2.92 | 4000 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 1 . 1 C - - | 27.5 | 90L |
| 184 | 5.03 | 55 | 2.37 | 4000 | 5 . 0 | | |
| 167 | 5.55 | 61 | 2.19 | 4000 | 5 . 6 | | |
| 147 | 6.3 | 69 | 1.99 | 4000 | 6 . 3 | | |
| 116 | 8 | 88 | 1.65 | 4000 | 8 . 0 | | |
| 102 | 9.09 | 100 | 1.5 | 4000 | 9 . 0 | | |
| 83 | 11.15 | 123 | 1.28 | 4000 | 1 1 . | | |
| 75 | 12.37 | 136 | 1.17 | 4000 | 1 2 . | | |
| 66 | 14.05 | 154 | 1.03 | 4000 | 1 4 . | | |
| 58 | 15.97 | 175 | 0.91 | 4000 | 1 6 . | | |
| 53 | 17.58 | 193 | 0.83 | 3680 | 1 8 . | | |
| 258 | 3.59 | 39 | 3.4 | 4000 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 1 . 1 C - - | 27.5 | 90L |
| 184 | 5.03 | 55 | 2.77 | 4000 | 5 . 0 | | |
| 167 | 5.55 | 61 | 2.6 | 4000 | 5 . 6 | | |
| 147 | 6.3 | 69 | 2.4 | 4000 | 6 . 3 | | |
| 116 | 8 | 88 | 2.07 | 4000 | 8 . 0 | | |
| 102 | 9.09 | 99 | 1.9 | 4000 | 9 . 0 | | |
| 83 | 11.15 | 122 | 1.66 | 4000 | 1 1 . | | |
| 75 | 12.37 | 136 | 1.53 | 4000 | 1 2 . | | |
| 66 | 14.05 | 154 | 1.35 | 4000 | 1 4 . | | |
| 58 | 15.97 | 175 | 1.19 | 4000 | 1 6 . | | |
| 53 | 17.58 | 193 | 1.08 | 3680 | 1 8 . | | |
| 46 | 20.23 | 222 | 0.94 | 2880 | 2 0 . | | |
| 42 | 21.99 | 241 | 0.87 | 2340 | 2 2 . | | |
| 74 | 12.54 | 137 | 2.36 | 6370 | M 0 4 2 2 1 2 . _ M _ _ _ _ 1 . 1 C - - | 36.5 | 90L |
| 63 | 14.58 | 160 | 2.1 | 6624 | 1 4 . | | |
| 57 | 16.31 | 179 | 1.88 | 6815 | 1 6 . | | |
| 53 | 17.39 | 191 | 1.76 | 6790 | 1 8 . | | |
| 45 | 20.61 | 226 | 1.49 | 6640 | 2 0 . | | |
| 42 | 22 | 242 | 1.39 | 6416 | 2 2 . | | |
| 34 | 27.3 | 299 | 1.13 | 5253 | 2 8 . | | |
| 29 | 32.19 | 354 | 0.95 | 5720 | 3 2 . | | |
| 26 | 35.25 | 386 | 0.87 | 5074 | 3 6 . | | |
| 74 | 12.54 | 138 | 3.08 | 5876 | M 0 5 2 2 1 2 . _ M _ _ _ _ 1 . 1 C - - | 37.5 | 90L |
| 63 | 14.58 | 161 | 2.79 | 6072 | 1 4 . | | |
| 57 | 16.31 | 179 | 2.51 | 6216 | 1 6 . | | |
| 53 | 17.39 | 191 | 2.35 | 6477 | 1 8 . | | |
| 45 | 20.61 | 227 | 1.98 | 6346 | 2 0 . | | |
| 42 | 22 | 242 | 1.86 | 6103 | 2 2 . | | |
| 34 | 27.3 | 300 | 1.5 | 5173 | 2 8 . | | |
| 29 | 32.19 | 354 | 1.27 | 4327 | 3 2 . | | |
| 26 | 35.25 | 386 | 1.17 | 4327 | 3 6 . | | |
| 21 | 43.2 | 473 | 0.86 | 3343 | 4 5 . | | |
| 51 | 18.05 | 199 | 3 | 7200 | M 0 6 2 2 1 6 . _ M _ _ _ _ 1 . 1 C - - | 42.5 | 90L |
| 46 | 20.2 | 222 | 2.81 | 7200 | 1 8 . | | |
| 43 | 21.53 | 237 | 2.64 | 7200 | 2 0 . | | |
| 36 | 25.51 | 281 | 2.22 | 7200 | 2 2 . | | |
| 34 | 27.24 | 300 | 2.08 | 7200 | 2 8 . | | |
| 27 | 33.8 | 372 | 1.68 | 7200 | 3 2 . | | |
| 23 | 39.86 | 438 | 1.43 | 6680 | 3 6 . | | |
| 21 | 43.64 | 479 | 1.31 | 6136 | 4 5 . | | |
| 17 | 53.49 | 585 | 0.93 | 7182 | 5 0 . | | |

NOTE

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

## 1.1 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 45 | 20.54 | 225 | 3.71 | 8987 | M 0 7 2 2 2 0 . _ M _ _ _ _ 1 . 1 C - - | 49.5 | 90L |
| 40 | 23.23 | 255 | 3.32 | 8888 | 2 2 . | | |
| 34 | 26.93 | 295 | 2.91 | 8888 | 2 8 . | | |
| 29 | 32.12 | 352 | 2.46 | 8405 | 3 2 . | | |
| 26 | 35.17 | 385 | 2.25 | 8405 | 3 6 . | | |
| 22 | 42.21 | 460 | 1.88 | 7755 | 4 5 . | | |
| 19 | 48.56 | 529 | 1.32 | 7370 | 5 0 . | | |
| 17 | 53.96 | 586 | 1.02 | 7823 | 5 6 . | | |
| 16 | 58.95 | 641 | 1.35 | 6840 | M 0 7 3 2 5 6 . _ M _ _ _ _ 1 . 1 C - - | 54.5 | 90L |
| 15 | 62.83 | 683 | 1.27 | 6240 | 6 3 . | | |
| 12 | 74.47 | 812 | 1.07 | 4470 | 7 1 . | | |
| 12 | 79.51 | 861 | 1.01 | 3701 | 8 0 . | | |
| 9.4 | 98.66 | 1070 | 0.81 | 3539 | 1 0 0 | | |
| 21 | 44.38 | 486 | 3.39 | 20000 | M 0 8 2 2 4 5 . _ M _ _ _ _ 1 . 1 C - - | 82.5 | 90L |
| 19 | 48.46 | 530 | 3.11 | 20000 | 5 0 . | | |
| 17 | 55.8 | 608 | 2.55 | 18720 | 5 6 . | | |
| 15 | 60.33 | 654 | 2.52 | 20000 | M 0 8 3 2 5 6 . _ M _ _ _ _ 1 . 1 C - - | 82.5 | 90L |
| 14 | 66.02 | 716 | 2.3 | 18126 | 6 3 . | | |
| 12 | 74.69 | 811 | 2.03 | 17846 | 7 1 . | | |
| 11 | 84.31 | 914 | 1.8 | 17539 | 8 0 . | | |
| 9.1 | 102.2 | 1108 | 1.49 | 15510 | 1 0 0 | | |
| 7.8 | 119.19 | 1290 | 1.28 | 14323 | 1 1 2 | | |
| 7.1 | 130.92 | 1416 | 1.17 | 13333 | 1 2 5 | | |
| 5.8 | 160.45 | 1744 | 0.95 | 11871 | 1 6 0 | | |
| 5.3 | 175.21 | 1895 | 0.87 | 10117 | 1 8 0 | | |
| 15 | 61.13 | 669 | 3.69 | 29600 | M 0 9 2 1 6 3 . _ M _ _ _ _ 1 . 1 C - - | 123.5 | 90L |
| 13 | 68.74 | 751 | 3.23 | 29600 | 7 1 . | | |
| 11 | 82.51 | 899 | 3.18 | 29500 | M 0 9 3 1 8 0 . _ M _ _ _ _ 1 . 1 C - - | 132.5 | 90L |
| 10 | 93.92 | 1021 | 2.58 | 29400 | 9 0 . | | |
| 8.9 | 103.68 | 1128 | 2.34 | 29300 | 1 0 0 | | |
| 7.9 | 116.55 | 1270 | 2.25 | 29282 | 1 1 2 | | |
| 7.2 | 128.66 | 1401 | 2.04 | 29258 | 1 2 5 | | |
| 6.4 | 145.2 | 1575 | 1.57 | 29166 | 1 4 0 | | |
| 5.8 | 160.29 | 1740 | 1.42 | 29033 | 1 6 0 | | |
| 4 | 231.06 | 2475 | 1.07 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ 1 . 1 C - - | 157.5 | 90L |
| 3.6 | 258.09 | 2761 | 1.03 | 24951 | 2 5 0 | | |
| 3.1 | 300.18 | 3209 | 0.89 | 24951 | 2 8 0 | | |
| 7.1 | 129.94 | 1410 | 3.13 | 49100 | M 1 0 3 1 1 2 5 _ M _ _ _ _ 1 . 1 C - - | 180.5 | 90L |
| 6.8 | 135.88 | 1473 | 2.83 | 49100 | 1 4 0 | | |
| 5.9 | 156.57 | 1694 | 2.46 | 48700 | 1 6 0 | | |
| 4.2 | 220.22 | 2346 | 1.88 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 1 . 1 C - - | 218.5 | 90L |
| 3.8 | 242.24 | 2580 | 1.71 | 41580 | 2 5 0 | | |
| 3.3 | 278.36 | 2963 | 1.49 | 41580 | 2 8 0 | | |
| 2.9 | 315.65 | 3355 | 1.32 | 41580 | 3 0 0 | | |
| 2.7 | 348.16 | 3702 | 1.19 | 41580 | 3 6 0 | | |
| 2.3 | 398.71 | 4237 | 1.04 | 41580 | 4 0 0 | | |
| 2.1 | 443.06 | 4703 | 0.94 | 41580 | 4 5 0 | | |
| 1.8 | 500.94 | 5312 | 0.83 | 41580 | 5 0 0 | | |
| 4.1 | 226.98 | 2411 | 2.63 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 1 . 1 C - - | 293.5 | 90L |
| 3.7 | 249.68 | 2652 | 2.39 | 64632 | 2 5 0 | | |
| 3.2 | 286.9 | 3045 | 2.08 | 64632 | 2 8 0 | | |
| 2.8 | 325.33 | 3448 | 1.84 | 64632 | 3 0 0 | | |
| 2.6 | 358.84 | 3805 | 1.67 | 64632 | 3 6 0 | | |
| 2.3 | 410.95 | 4354 | 1.46 | 64632 | 4 0 0 | | |
| 2 | 463.22 | 4906 | 1.29 | 64632 | 4 5 0 | | |
| 1.8 | 523.74 | 5542 | 1.15 | 64632 | 5 0 0 | | |
| 1.5 | 607.22 | 6418 | 0.99 | 64632 | 6 5 0 | | |
| 1.3 | 724.25 | 7643 | 0.83 | 64632 | 7 3 0 | | |
| 3.4 | 271.4 | 2884 | 3.67 | 80613 | M 1 4 4 1 2 5 0 _ M _ _ _ _ 1 . 1 C - - | 409.5 | 90L |
| 3 | 311.86 | 3311 | 3.2 | 80613 | 2 8 0 | | |
| 2.6 | 353.64 | 3749 | 2.83 | 80613 | 3 0 0 | | |
| 2.4 | 390.06 | 4137 | 2.56 | 80613 | 3 6 0 | | |
| 2.1 | 446.71 | 4734 | 2.24 | 80613 | 4 0 0 | | |
| 1.9 | 492.49 | 5215 | 2.07 | 80613 | 4 5 0 | | |
| 1.7 | 556.83 | 5891 | 1.83 | 80613 | 5 0 0 | | |
| 1.4 | 645.58 | 6822 | 1.58 | 80613 | 6 5 0 | | |
| 1.2 | 770.01 | 8123 | 1.33 | 80613 | 7 3 0 | | |
| 1.2 | 801.52 | 8442 | 1.26 | 80613 | 8 6 0 | | |
| 0 | 929.27 | 9777 | 1.09 | 80613 | 1 0 C | | |
| 0.83 | 1108.37 | 11643 | 0.92 | 80613 | 1 1 C | | |
| 0.76 | 1213.79 | 12739 | 0.84 | 80613 | 1 3 C | | |

NOTE

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

**1.5 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 379 | 3.75 | 36 | 1.63 | 1484 | M 0 1 2 2 3 . 6 _ M _ _ _ _ 1 . 5 A - - | 24.5 | 90L |
| 280 | 5.07 | 49 | 1.36 | 1517 | 5 . 0 | | |
| 246 | 5.76 | 56 | 1.27 | 1521 | 5 . 6 | | |
| 218 | 6.53 | 63 | 1.18 | 1340 | 6 . 3 | | |
| 170 | 8.35 | 81 | 0.97 | 1280 | 8 . 0 | | |
| 158 | 9 | 88 | 0.91 | 1270 | 9 . 0 | | |
| 396 | 3.59 | 34 | 2.87 | 3728 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 1 . 5 A - - | 27.5 | 90L |
| 282 | 5.03 | 49 | 2.36 | 3917 | 5 . 0 | | |
| 256 | 5.55 | 54 | 2.23 | 3967 | 5 . 6 | | |
| 225 | 6.3 | 61 | 2.06 | 3984 | 6 . 3 | | |
| 178 | 8 | 78 | 1.74 | 4000 | 8 . 0 | | |
| 156 | 9.09 | 88 | 1.57 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 108 | 1.33 | 4000 | 1 1 . | | |
| 115 | 12.37 | 120 | 1.23 | 4000 | 1 2 . | | |
| 101 | 14.05 | 137 | 1.12 | 4000 | 1 4 . | | |
| 89 | 15.97 | 156 | 1.03 | 3850 | 1 6 . | | |
| 81 | 17.58 | 171 | 0.93 | 3640 | 1 8 . | | |
| 70 | 20.23 | 197 | 0.81 | 3280 | 2 0 . | | |
| 396 | 3.59 | 34 | 3.38 | 3690 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 1 . 5 A - - | 27.5 | 90L |
| 282 | 5.03 | 48 | 2.76 | 3898 | 5 . 0 | | |
| 256 | 5.55 | 54 | 2.59 | 3948 | 5 . 6 | | |
| 225 | 6.3 | 61 | 2.4 | 3982 | 6 . 3 | | |
| 178 | 8 | 78 | 2.06 | 4000 | 8 . 0 | | |
| 156 | 9.09 | 89 | 1.89 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 108 | 1.65 | 4000 | 1 1 . | | |
| 115 | 12.37 | 120 | 1.54 | 4000 | 1 2 . | | |
| 101 | 14.05 | 137 | 1.41 | 4000 | 1 4 . | | |
| 89 | 15.97 | 155 | 1.32 | 3901 | 1 6 . | | |
| 81 | 17.58 | 171 | 1.21 | 3764 | 1 8 . | | |
| 70 | 20.23 | 197 | 1.06 | 3280 | 2 0 . | | |
| 65 | 21.99 | 214 | 0.97 | 3000 | 2 2 . | | |
| 54 | 26.4 | 256 | 0.82 | 1789 | 2 8 . | | |
| 113 | 12.54 | 122 | 2.31 | 5611 | M 0 4 2 2 1 2 . _ M _ _ _ _ 1 . 5 A - - | 36.5 | 90L |
| 97 | 14.58 | 142 | 2.07 | 5814 | 1 4 . | | |
| 87 | 16.31 | 159 | 1.92 | 5915 | 1 6 . | | |
| 82 | 17.39 | 170 | 1.83 | 6000 | 1 8 . | | |
| 69 | 20.61 | 201 | 1.59 | 6240 | 2 0 . | | |
| 65 | 22 | 215 | 1.5 | 6333 | 2 2 . | | |
| 52 | 27.3 | 265 | 1.26 | 6499 | 2 8 . | | |
| 44 | 32.19 | 313 | 1.08 | 6840 | 3 2 . | | |
| 40 | 35.25 | 342 | 0.99 | 6950 | 3 6 . | | |
| 33 | 43.2 | 420 | 0.8 | 6110 | 4 5 . | | |
| 113 | 12.54 | 122 | 3.47 | 5158 | M 0 5 2 2 1 2 . _ M _ _ _ _ 1 . 5 A - - | 37.5 | 90L |
| 97 | 14.58 | 143 | 3.15 | 5238 | 1 4 . | | |
| 87 | 16.31 | 159 | 2.82 | 5630 | 1 6 . | | |
| 82 | 17.39 | 170 | 2.64 | 5710 | 1 8 . | | |
| 69 | 20.61 | 201 | 2.23 | 5869 | 2 0 . | | |
| 65 | 22 | 215 | 2.09 | 5651 | 2 2 . | | |
| 52 | 27.3 | 267 | 1.68 | 5575 | 2 8 . | | |
| 44 | 32.19 | 314 | 1.43 | 5658 | 3 2 . | | |
| 40 | 35.25 | 342 | 1.31 | 5153 | 3 6 . | | |
| 33 | 43.2 | 420 | 0.84 | 5610 | 4 5 . | | |
| 79 | 18.05 | 176 | 3.37 | 7200 | M 0 6 2 2 1 6 . _ M _ _ _ _ 1 . 5 A - - | 42.5 | 90L |
| 70 | 20.2 | 197 | 3.17 | 7200 | 1 8 . | | |
| 66 | 21.53 | 210 | 2.97 | 7200 | 2 0 . | | |
| 56 | 25.51 | 249 | 2.51 | 7200 | 2 2 . | | |
| 52 | 27.24 | 266 | 2.35 | 7200 | 2 8 . | | |
| 42 | 33.8 | 330 | 1.89 | 7200 | 3 2 . | | |
| 36 | 39.86 | 388 | 1.61 | 7200 | 3 6 . | | |
| 33 | 43.64 | 426 | 1.47 | 7200 | 4 5 . | | |
| 27 | 53.49 | 519 | 1.01 | 7200 | 5 0 . | | |
| 24 | 59.61 | 580 | 0.81 | 7200 | 5 6 . | | |
| 20 | 72.28 | 694 | 0.9 | 7200 | M 0 6 3 2 6 3 . _ M _ _ _ _ 1 . 5 A - - | 43.5 | 90L |

NOTE

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

## 1.5 kW

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 61 | 23.23 | 226 | 3.59 | 9013 | M 0 7 2 2 2 2 . _ M _ _ _ _ 1 . 5 A - - | 49.5 | 90L |
| 53 | 26.93 | 262 | 3.14 | 8800 | 2 8 . | | |
| 44 | 32.12 | 313 | 2.68 | 8966 | 3 2 . | | |
| 40 | 35.17 | 342 | 2.47 | 8670 | 3 6 . | | |
| 34 | 42.21 | 409 | 2.11 | 8583 | 4 5 . | | |
| 29 | 48.56 | 470 | 1.49 | 8708 | 5 0 . | | |
| 26 | 53.96 | 521 | 1.14 | 10000 | 5 6 . | | |
| 24 | 58.95 | 568 | 1.33 | 7426 | M 0 7 3 2 5 6 . _ M _ _ _ _ 1 . 5 A - - | 54.5 | 90L |
| 23 | 62.83 | 604 | 1.27 | 6908 | 6 3 . | | |
| 19 | 74.47 | 717 | 1.14 | 7410 | 7 1 . | | |
| 18 | 79.51 | 764 | 1.09 | 6620 | 8 0 . | | |
| 14 | 98.66 | 949 | 0.91 | 3640 | 1 0 0 | | |
| 32 | 44.38 | 432 | 3.82 | 20000 | M 0 8 2 2 4 5 . _ M _ _ _ _ 1 . 5 A - - | 82.5 | 90L |
| 29 | 48.46 | 471 | 3.5 | 20000 | 5 0 . | | |
| 25 | 55.8 | 541 | 2.85 | 19737 | 5 6 . | | |
| 24 | 60.33 | 579 | 2.76 | 19600 | M 0 8 3 2 5 6 . _ M _ _ _ _ 1 . 5 A - - | 82.5 | 90L |
| 22 | 66.02 | 636 | 2.59 | 19310 | 6 3 . | | |
| 19 | 74.69 | 717 | 2.3 | 18882 | 7 1 . | | |
| 17 | 84.31 | 810 | 2.04 | 19178 | 8 0 . | | |
| 14 | 102.2 | 983 | 1.68 | 17066 | 1 0 0 | | |
| 12 | 119.19 | 1143 | 1.44 | 16851 | 1 1 2 | | |
| 11 | 130.92 | 1257 | 1.31 | 15494 | 1 2 5 | | |
| 8.9 | 160.45 | 1541 | 1.07 | 17200 | 1 6 0 | | |
| 8.1 | 175.21 | 1684 | 0.98 | 15200 | 1 8 0 | | |
| 7 | 201.75 | 1929 | 0.86 | 11700 | 2 0 0 | | |
| 26 | 55.18 | 536 | 3.75 | 29700 | M 0 9 2 1 5 6 . _ M _ _ _ _ 1 . 5 A - - | 123.5 | 90L |
| 21 | 68.74 | 668 | 3.7 | 29600 | 7 1 . | | |
| 17 | 82.51 | 797 | 3.58 | 29600 | M 0 9 3 1 8 0 . _ M _ _ _ _ 1 . 5 A - - | 132.5 | 90L |
| 15 | 93.92 | 906 | 2.91 | 29462 | 9 0 . | | |
| 14 | 103.68 | 1000 | 2.64 | 29434 | 1 0 0 | | |
| 12 | 116.55 | 1126 | 2.54 | 29348 | 1 1 2 | | |
| 11 | 128.66 | 1244 | 2.3 | 29320 | 1 2 5 | | |
| 10 | 145.2 | 1396 | 1.77 | 29200 | 1 4 0 | | |
| 8.9 | 160.29 | 1537 | 1.61 | 29166 | 1 6 0 | | |
| 6.1 | 231.06 | 2195 | 1.2 | 25710 | M 0 9 4 1 2 2 5 _ M _ _ _ _ 1 . 5 A - - | 157.5 | 90L |
| 5.5 | 258.09 | 2449 | 1.17 | 24951 | 2 5 0 | | |
| 4.7 | 300.18 | 2847 | 1 | 24951 | 2 8 0 | | |
| 4.2 | 335.85 | 3181 | 0.9 | 24951 | 3 0 0 | | |
| 4 | 357.95 | 3393 | 0.84 | 24951 | 3 6 0 | | |
| 13 | 109.97 | 1059 | 3.56 | 49600 | M 1 0 3 1 1 0 0 _ M _ _ _ _ 1 . 5 A - - | 180.5 | 90L |
| 11 | 129.94 | 1250 | 3.53 | 49300 | 1 2 5 | | |
| 10 | 135.88 | 1303 | 3.19 | 49300 | 1 4 0 | | |
| 9.1 | 156.57 | 1502 | 2.77 | 48965 | 1 6 0 | | |
| 6.4 | 220.22 | 2080 | 2.12 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 1 . 5 A - - | 218.5 | 90L |
| 5.9 | 242.24 | 2287 | 1.93 | 41580 | 2 5 0 | | |
| 5.1 | 278.36 | 2628 | 1.68 | 41580 | 2 8 0 | | |
| 4.5 | 315.65 | 2976 | 1.48 | 41580 | 3 0 0 | | |
| 4.1 | 348.16 | 3284 | 1.34 | 41580 | 3 6 0 | | |
| 3.6 | 398.71 | 3760 | 1.17 | 41580 | 4 0 0 | | |
| 3.2 | 443.06 | 4172 | 1.06 | 41580 | 4 5 0 | | |
| 2.8 | 500.94 | 4714 | 0.94 | 41580 | 5 0 0 | | |
| 2.4 | 580.78 | 5461 | 0.81 | 41580 | 6 5 0 | | |
| 6.3 | 226.98 | 2139 | 2.97 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 1 . 5 A - - | 293.5 | 90L |
| 5.7 | 249.68 | 2352 | 2.7 | 64632 | 2 5 0 | | |
| 4.9 | 286.9 | 2702 | 2.35 | 64632 | 2 8 0 | | |
| 4.4 | 325.33 | 3060 | 2.07 | 64632 | 3 0 0 | | |
| 4 | 358.84 | 3377 | 1.88 | 64632 | 3 6 0 | | |
| 3.5 | 410.95 | 3865 | 1.64 | 64632 | 4 0 0 | | |
| 3.1 | 463.22 | 4355 | 1.46 | 64632 | 4 5 0 | | |
| 2.7 | 523.74 | 4920 | 1.29 | 64632 | 5 0 0 | | |
| 2.3 | 607.22 | 5699 | 1.11 | 64632 | 6 5 0 | | |
| 2 | 724.25 | 6788 | 0.94 | 64632 | 7 3 0 | | |
| 4.6 | 311.86 | 2940 | 3.6 | 80613 | M 1 4 4 1 2 8 0 _ M _ _ _ _ 1 . 5 A - - | 409.5 | 90L |
| 4 | 353.64 | 3329 | 3.18 | 80613 | 3 0 0 | | |
| 3.6 | 390.06 | 3673 | 2.88 | 80613 | 3 6 0 | | |
| 3.2 | 446.71 | 4204 | 2.52 | 80613 | 4 0 0 | | |
| 2.9 | 492.49 | 4631 | 2.33 | 80613 | 4 5 0 | | |
| 2.6 | 556.83 | 5232 | 2.06 | 80613 | 5 0 0 | | |
| 2.2 | 645.58 | 6059 | 1.78 | 80613 | 6 5 0 | | |
| 1.8 | 770.01 | 7217 | 1.49 | 80613 | 7 3 0 | | |
| 1.8 | 801.52 | 7494 | 1.42 | 80613 | 8 6 0 | | |
| 1.5 | 929.27 | 8680 | 1.23 | 80613 | 1 0 C | | |
| 1.3 | 1108.37 | 10340 | 1.03 | 80613 | 1 1 C | | |
| 1.2 | 1213.79 | 11314 | 0.94 | 80613 | 1 3 C | | |

NOTE

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

## 1.5 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 251 | 3.75 | 56 | 1.21 | 980 | M 0 1 2 2 3 . 6 _ M _ _ _ _ 1 . 5 C - - | 36 | 100L |
| 186 | 5.07 | 76 | 1.00 | 980 | 5 . 0 | | |
| 163 | 5.76 | 86 | 0.91 | 980 | 5 . 6 | | |
| 144 | 6.53 | 97 | 0.82 | 980 | 6 . 3 | | |
| 262 | 3.59 | 54 | 2.15 | 3100 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 1 . 5 C - - | 39 | 100L |
| 187 | 5.03 | 75 | 1.74 | 3100 | 5 . 0 | | |
| 169 | 5.55 | 83 | 1.62 | 3100 | 5 . 6 | | |
| 149 | 6.30 | 94 | 1.47 | 3100 | 6 . 3 | | |
| 118 | 8.00 | 119 | 1.21 | 3100 | 8 . 0 | | |
| 103 | 9.09 | 136 | 1.11 | 3100 | 9 . 0 | | |
| 84 | 11.15 | 167 | 0.95 | 2600 | 1 1 . | | |
| 76 | 12.37 | 185 | 0.87 | 2300 | 1 2 . | | |
| 262 | 3.59 | 54 | 2.50 | 2300 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 1 . 5 C - - | 39 | 100L |
| 187 | 5.03 | 75 | 2.04 | 2300 | 5 . 0 | | |
| 169 | 5.55 | 83 | 1.92 | 2300 | 5 . 6 | | |
| 149 | 6.30 | 94 | 1.78 | 2300 | 6 . 3 | | |
| 118 | 8.00 | 119 | 1.52 | 2300 | 8 . 0 | | |
| 103 | 9.09 | 136 | 1.40 | 2300 | 9 . 0 | | |
| 84 | 11.15 | 167 | 1.22 | 2300 | 1 1 . | | |
| 76 | 12.37 | 185 | 1.13 | 2300 | 1 2 . | | |
| 67 | 14.05 | 210 | 1.00 | 2300 | 1 4 . | | |
| 59 | 15.97 | 238 | 0.88 | 2050 | 1 6 . | | |
| 53 | 17.58 | 263 | 0.80 | 1900 | 1 8 . | | |
| 184 | 5.04 | 75 | 3.59 | 5180 | M 0 4 2 2 5 . 0 _ M _ _ _ _ 1 . 5 C - - | 49 | 100L |
| 164 | 5.65 | 85 | 3.36 | 5270 | 5 . 6 | | |
| 146 | 6.34 | 95 | 3.08 | 5360 | 6 . 3 | | |
| 115 | 8.05 | 120 | 2.56 | 5530 | 8 . 0 | | |
| 101 | 9.13 | 137 | 2.32 | 5670 | 9 . 0 | | |
| 85 | 10.89 | 163 | 2.04 | 5920 | 1 1 . | | |
| 74 | 12.54 | 188 | 1.73 | 6119 | 1 2 . | | |
| 63 | 14.58 | 219 | 1.54 | 6331 | 1 4 . | | |
| 57 | 16.31 | 244 | 1.38 | 6489 | 1 6 . | | |
| 53 | 17.39 | 261 | 1.29 | 6491 | 1 8 . | | |
| 45 | 20.61 | 309 | 1.09 | 6232 | 2 0 . | | |
| 42 | 22 | 330 | 1.02 | 5846 | 2 2 . | | |
| 34 | 27.3 | 407 | 0.83 | 4186 | 2 8 . | | |
| 115 | 8.05 | 121 | 3.71 | 5060 | M 0 5 2 2 8 . 0 _ M _ _ _ _ 1 . 5 C - - | 49 | 100L |
| 101 | 9.13 | 137 | 3.27 | 5460 | 9 . 0 | | |
| 85 | 10.89 | 164 | 2.74 | 5700 | 1 1 . | | |
| 74 | 12.54 | 188 | 2.26 | 5732 | 1 2 . | | |
| 63 | 14.58 | 219 | 2.05 | 5904 | 1 4 . | | |
| 57 | 16.31 | 244 | 1.84 | 6028 | 1 6 . | | |
| 53 | 17.39 | 261 | 1.72 | 6212 | 1 8 . | | |
| 45 | 20.61 | 309 | 1.45 | 5878 | 2 0 . | | |
| 42 | 22 | 330 | 1.36 | 5501 | 2 2 . | | |
| 34 | 27.3 | 409 | 1.1 | 4063 | 2 8 . | | |
| 29 | 32.19 | 483 | 0.93 | 2754 | 3 2 . | | |
| 26 | 35.25 | 526 | 0.85 | 2754 | 3 6 . | | |
| 69 | 13.48 | 203 | 3.08 | 7200 | M 0 6 2 2 1 2 . _ M _ _ _ _ 1 . 5 C - - | 54 | 100L |
| 60 | 15.52 | 233 | 2.26 | 7200 | 1 4 . | | |
| 51 | 18.05 | 271 | 2.2 | 7200 | 1 6 . | | |
| 46 | 20.2 | 303 | 2.06 | 7200 | 1 8 . | | |
| 43 | 21.53 | 323 | 1.93 | 7200 | 2 0 . | | |
| 36 | 25.51 | 383 | 1.63 | 7200 | 2 2 . | | |
| 34 | 27.24 | 409 | 1.53 | 7200 | 2 8 . | | |
| 27 | 33.8 | 507 | 1.23 | 7200 | 3 2 . | | |
| 23 | 39.86 | 597 | 1.05 | 6301 | 3 6 . | | |
| 21 | 43.64 | 654 | 0.96 | 5363 | 4 5 . | | |
| 64 | 14.34 | 215 | 3.75 | 8921 | M 0 7 2 2 1 4 . _ M _ _ _ _ 1 . 5 C - - | 62 | 100L |
| 57 | 16.26 | 243 | 3.35 | 8727 | 1 6 . | | |
| 52 | 17.94 | 269 | 3.06 | 8543 | 1 8 . | | |
| 45 | 20.54 | 308 | 2.72 | 8251 | 2 0 . | | |
| 40 | 23.23 | 347 | 2.43 | 8080 | 2 2 . | | |
| 34 | 26.93 | 403 | 2.13 | 8080 | 2 8 . | | |
| 29 | 32.12 | 480 | 1.81 | 7246 | 3 2 . | | |
| 26 | 35.17 | 525 | 1.65 | 7246 | 3 6 . | | |
| 22 | 42.21 | 628 | 1.38 | 6122 | 4 5 . | | |
| 19 | 48.56 | 722 | 0.97 | 5457 | 5 0 . | | |
| 16 | 58.95 | 874 | 0.99 | 5110 | M 0 7 3 2 5 6 . _ M _ _ _ _ 1 . 5 C - - | 66 | 100L |
| 15 | 62.83 | 931 | 0.93 | 4180 | 6 3 . | | |
| 28 | 32.97 | 493 | 3.35 | 20000 | M 0 8 2 2 3 2 . _ M _ _ _ _ 1 . 5 C - - | 94 | 100L |
| 26 | 36.21 | 541 | 3.04 | 20000 | 3 6 . | | |
| 21 | 44.38 | 663 | 2.49 | 18642 | 4 5 . | | |
| 19 | 48.46 | 723 | 2.28 | 18360 | 5 0 . | | |
| 17 | 55.8 | 829 | 1.87 | 17258 | 5 6 . | | |

NOTE

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

## 1.5 kW

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 15 | 60.33 | 891 | 1.85 | 18038 | M 0 8 3 2 5 6 . _ M _ _ _ _ 1 . 5 C - - | 95 | 100L |
| 14 | 66.02 | 976 | 1.69 | 15984 | 6 3 . | | |
| 12 | 74.69 | 1107 | 1.49 | 15384 | 7 1 . | | |
| 11 | 84.31 | 1246 | 1.32 | 14726 | 8 0 . | | |
| 9.1 | 102.2 | 1510 | 1.09 | 12244 | 1 0 0 | | |
| 7.8 | 119.19 | 1759 | 0.94 | 10194 | 1 1 2 | | |
| 7.1 | 130.92 | 1931 | 0.85 | 8484 | 1 2 5 | | |
| 17 | 55.18 | 822 | 2.37 | 29600 | M 0 9 2 1 5 6 . _ M _ _ _ _ 1 . 5 C - - | 135 | 100L |
| 15 | 61.13 | 913 | 2.7 | 29472 | 6 3 . | | |
| 13 | 68.74 | 1025 | 2.37 | 29372 | 7 1 . | | |
| 15 | 59.85 | 889 | 2.97 | 29500 | M 0 9 3 1 5 6 . _ M _ _ _ _ 1 . 5 C - - | 144 | 100L |
| 14 | 66.49 | 987 | 2.67 | 29400 | 6 3 . | | |
| 12 | 74.26 | 1104 | 2.59 | 29400 | 7 1 . | | |
| 11 | 82.51 | 1226 | 2.33 | 29318 | 8 0 . | | |
| 10 | 93.92 | 1393 | 1.89 | 29181 | 9 0 . | | |
| 8.9 | 103.68 | 1539 | 1.72 | 29081 | 1 0 0 | | |
| 7.9 | 116.55 | 1732 | 1.65 | 29034 | 1 1 2 | | |
| 7.2 | 128.66 | 1910 | 1.5 | 28982 | 1 2 5 | | |
| 6.4 | 145.2 | 2148 | 1.15 | 28851 | 1 4 0 | | |
| 5.8 | 160.29 | 2373 | 1.04 | 28693 | 1 6 0 | | |
| 10 | 95.44 | 1414 | 2.67 | 49000 | M 1 0 3 1 9 0 . _ M _ _ _ _ 1 . 5 C - - | 193 | 100L |
| 8.4 | 109.97 | 1630 | 2.31 | 48700 | 1 0 0 | | |
| 8.2 | 112.77 | 1670 | 2.64 | 48700 | 1 1 2 | | |
| 7.1 | 129.94 | 1923 | 2.29 | 48200 | 1 2 5 | | |
| 6.8 | 135.88 | 2009 | 2.07 | 48136 | 1 4 0 | | |
| 5.9 | 156.57 | 2310 | 1.81 | 47734 | 1 6 0 | | |
| 4.2 | 220.22 | 3199 | 1.38 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 1 . 5 C - - | 230 | 100L |
| 3.8 | 242.24 | 3518 | 1.25 | 41580 | 2 5 0 | | |
| 3.3 | 278.36 | 4040 | 1.09 | 41580 | 2 8 0 | | |
| 2.9 | 315.65 | 4575 | 0.96 | 41580 | 3 0 0 | | |
| 2.7 | 348.16 | 5049 | 0.87 | 41580 | 3 6 0 | | |
| 7.3 | 126.62 | 1858 | 3.42 | 66800 | M 1 3 3 1 1 2 5 _ M _ _ _ _ 1 . 5 C - - | 263 | 100L |
| 6.7 | 139.07 | 2035 | 3.17 | 66700 | 1 4 0 | | |
| 6 | 154.89 | 2265 | 2.85 | 66700 | 1 6 0 | | |
| 5.3 | 173.37 | 2547 | 2.49 | 66600 | 1 8 0 | | |
| 5 | 184.46 | 2715 | 2.34 | 66500 | 2 0 0 | | |
| 4.4 | 212.09 | 3113 | 2.07 | 66400 | 2 2 5 | | |
| 4.1 | 226.98 | 3288 | 1.93 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 1 . 5 C - - | 305 | 100L |
| 3.7 | 249.68 | 3616 | 1.76 | 64632 | 2 5 0 | | |
| 3.2 | 286.9 | 4153 | 1.53 | 64632 | 2 8 0 | | |
| 2.8 | 325.33 | 4702 | 1.35 | 64632 | 3 0 0 | | |
| 2.6 | 358.84 | 5188 | 1.22 | 64632 | 3 6 0 | | |
| 2.3 | 410.95 | 5937 | 1.07 | 64632 | 4 0 0 | | |
| 2 | 463.22 | 6691 | 0.95 | 64632 | 4 5 0 | | |
| 1.8 | 523.74 | 7558 | 0.84 | 64632 | 5 0 0 | | |
| 4.4 | 211.96 | 3101 | 3.26 | 80900 | M 1 4 3 1 2 2 5 _ M _ _ _ _ 1 . 5 C - - | 392 | 100L |
| 3.7 | 246.73 | 3576 | 2.96 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 1 . 5 C - - | 421 | 100L |
| 3.4 | 271.4 | 3932 | 2.69 | 80613 | 2 5 0 | | |
| 3 | 311.86 | 4516 | 2.35 | 80613 | 2 8 0 | | |
| 2.6 | 353.64 | 5112 | 2.07 | 80613 | 3 0 0 | | |
| 2.4 | 390.06 | 5641 | 1.88 | 80613 | 3 6 0 | | |
| 2.1 | 446.71 | 6455 | 1.64 | 80613 | 4 0 0 | | |
| 1.9 | 492.49 | 7112 | 1.51 | 80613 | 4 5 0 | | |
| 1.7 | 556.83 | 8034 | 1.34 | 80613 | 5 0 0 | | |
| 1.4 | 645.58 | 9302 | 1.16 | 80613 | 6 5 0 | | |
| 1.2 | 770.01 | 11077 | 0.97 | 80613 | 7 3 0 | | |
| 1.2 | 801.52 | 11512 | 0.93 | 80613 | 8 6 0 | | |

NOTE

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

## 2.2 kW

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 379 | 3.75 | 53 | 1.11 | 1380 | M 0 1 2 2 3 . 6 _ M _ _ _ _ 2 . 2 A - - | 30 | 100L |
| 280 | 5.07 | 72 | 0.93 | 1380 | 5 . 0 | | |
| 246 | 5.76 | 82 | 0.87 | 1360 | 5 . 6 | | |
| 396 | 3.59 | 51 | 1.95 | 3690 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 2 . 2 A - - | 33 | 100L |
| 282 | 5.03 | 72 | 1.61 | 3860 | 5 . 0 | | |
| 256 | 5.55 | 79 | 1.52 | 3910 | 5 . 6 | | |
| 225 | 6.3 | 90 | 1.41 | 3970 | 6 . 3 | | |
| 178 | 8 | 114 | 1.19 | 4000 | 8 . 0 | | |
| 156 | 9.09 | 130 | 1.07 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 159 | 0.91 | 4000 | 1 1 . | | |
| 115 | 12.37 | 176 | 0.84 | 4000 | 1 2 . | | |
| 396 | 3.59 | 51 | 2.31 | 3690 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 2 . 2 A - - | 33 | 100L |
| 282 | 5.03 | 71 | 1.88 | 3860 | 5 . 0 | | |
| 256 | 5.55 | 79 | 1.77 | 3910 | 5 . 6 | | |
| 225 | 6.3 | 89 | 1.63 | 3970 | 6 . 3 | | |
| 178 | 8 | 114 | 1.4 | 4000 | 8 . 0 | | |
| 156 | 9.09 | 130 | 1.29 | 4000 | 9 . 0 | | |
| 127 | 11.15 | 159 | 1.12 | 4000 | 1 1 . | | |
| 115 | 12.37 | 177 | 1.05 | 4000 | 1 2 . | | |
| 101 | 14.05 | 201 | 0.96 | 4000 | 1 4 . | | |
| 89 | 15.97 | 227 | 0.9 | 3850 | 1 6 . | | |
| 81 | 17.58 | 251 | 0.83 | 3640 | 1 8 . | | |
| 398 | 3.58 | 51 | 3.96 | 4526 | M 0 4 2 2 3 . 6 _ M _ _ _ _ 2 . 2 A - - | 49 | 100L |
| 283 | 5.04 | 71 | 3.29 | 4718 | 5 . 0 | | |
| 252 | 5.65 | 80 | 3.09 | 4800 | 5 . 6 | | |
| 225 | 6.34 | 90 | 2.89 | 4881 | 6 . 3 | | |
| 177 | 8.05 | 115 | 2.51 | 5024 | 8 . 0 | | |
| 156 | 9.13 | 130 | 2.29 | 5095 | 9 . 0 | | |
| 131 | 10.89 | 156 | 1.99 | 5179 | 1 1 . | | |
| 114 | 12.54 | 178 | 1.58 | 5420 | 1 2 . | | |
| 98 | 14.58 | 208 | 1.42 | 5594 | 1 4 . | | |
| 87 | 16.31 | 232 | 1.31 | 5539 | 1 6 . | | |
| 82 | 17.39 | 248 | 1.25 | 5598 | 1 8 . | | |
| 69 | 20.61 | 293 | 1.09 | 5764 | 2 0 . | | |
| 65 | 22 | 314 | 1.03 | 5822 | 2 2 . | | |
| 52 | 27.3 | 388 | 0.86 | 5983 | 2 8 . | | |
| 177 | 8.05 | 115 | 3.9 | 4843 | M 0 5 2 2 8 . 0 _ M _ _ _ _ 2 . 2 A - - | 49 | 100L |
| 156 | 9.13 | 130 | 3.44 | 4915 | 9 . 0 | | |
| 131 | 10.89 | 156 | 2.88 | 4998 | 1 1 . | | |
| 114 | 12.54 | 179 | 2.37 | 5016 | 1 2 . | | |
| 98 | 14.58 | 208 | 2.15 | 5016 | 1 4 . | | |
| 87 | 16.31 | 233 | 1.93 | 5431 | 1 6 . | | |
| 82 | 17.39 | 248 | 1.81 | 5497 | 1 8 . | | |
| 69 | 20.61 | 294 | 1.53 | 5567 | 2 0 . | | |
| 65 | 22 | 314 | 1.43 | 5113 | 2 2 . | | |
| 52 | 27.3 | 390 | 1.15 | 4504 | 2 8 . | | |
| 44 | 32.19 | 459 | 0.98 | 4522 | 3 2 . | | |
| 40 | 35.25 | 501 | 0.9 | 3645 | 3 6 . | | |
| 106 | 13.48 | 193 | 3.18 | 7200 | M 0 6 2 2 1 2 . _ M _ _ _ _ 2 . 2 A - - | 54 | 100L |
| 92 | 15.52 | 222 | 2.37 | 7200 | 1 4 . | | |
| 79 | 18.05 | 258 | 2.31 | 7200 | 1 6 . | | |
| 71 | 20.2 | 288 | 2.17 | 7200 | 1 8 . | | |
| 66 | 21.53 | 307 | 2.03 | 7200 | 2 0 . | | |
| 56 | 25.51 | 364 | 1.72 | 7200 | 2 2 . | | |
| 52 | 27.24 | 389 | 1.61 | 7200 | 2 8 . | | |
| 42 | 33.8 | 483 | 1.3 | 7200 | 3 2 . | | |
| 36 | 39.86 | 567 | 1.1 | 7200 | 3 6 . | | |
| 33 | 43.64 | 622 | 1.01 | 7200 | 4 5 . | | |
| 99 | 14.34 | 205 | 3.69 | 8331 | M 0 7 2 2 1 4 . _ M _ _ _ _ 2 . 2 A - - | 62 | 100L |
| 88 | 16.26 | 232 | 3.39 | 8633 | 1 6 . | | |
| 79 | 17.94 | 256 | 3.1 | 9020 | 1 8 . | | |
| 69 | 20.54 | 293 | 2.74 | 8833 | 2 0 . | | |
| 61 | 23.23 | 330 | 2.46 | 8092 | 2 2 . | | |
| 53 | 26.93 | 383 | 2.15 | 7680 | 2 8 . | | |
| 44 | 32.12 | 457 | 1.84 | 8001 | 3 2 . | | |
| 41 | 35.17 | 500 | 1.69 | 7430 | 3 6 . | | |
| 34 | 42.21 | 598 | 1.44 | 7261 | 4 5 . | | |
| 29 | 48.56 | 687 | 1.02 | 7502 | 5 0 . | | |
| 24 | 58.95 | 834 | 0.9 | 5530 | M 0 7 3 2 5 6 . _ M _ _ _ _ 2 . 2 A - - | 60 | 100L |
| 23 | 62.83 | 887 | 0.87 | 4630 | 6 3 . | | |
| 43 | 32.97 | 469 | 3.47 | 20190 | M 0 8 2 2 3 2 . _ M _ _ _ _ 2 . 2 A - - | 94 | 100L |
| 39 | 36.21 | 515 | 3.2 | 20215 | 3 6 . | | |
| 32 | 44.38 | 631 | 2.61 | 18821 | 4 5 . | | |
| 29 | 48.46 | 689 | 2.39 | 18617 | 5 0 . | | |
| 26 | 55.8 | 790 | 1.95 | 19279 | 5 6 . | | |
| 24 | 60.33 | 846 | 1.89 | 18900 | M 0 8 3 2 5 6 . _ M _ _ _ _ 2 . 2 A - - | 95 | 100L |
| 22 | 66.02 | 930 | 1.77 | 18103 | 6 3 . | | |
| 19 | 74.69 | 1049 | 1.57 | 16927 | 7 1 . | | |
| 17 | 84.31 | 1183 | 1.39 | 17742 | 8 0 . | | |
| 14 | 102.2 | 1437 | 1.15 | 14328 | 1 0 0 | | |
| 12 | 119.19 | 1671 | 0.99 | 14531 | 1 1 2 | | |
| 11 | 130.92 | 1837 | 0.9 | 12174 | 1 2 5 | | |

NOTE

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

## 2.2 kW

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 32 | 44.44 | 634 | 3.89 | 29615 | M 0 9 2 1 4 5 . _ M _ _ _ _ 2 . 2 A - - | 135 | 100L |
| 29 | 49.07 | 699 | 3.46 | 29617 | 5 0 . | | |
| 26 | 55.18 | 783 | 2.56 | 29563 | 5 6 . | | |
| 23 | 61.13 | 870 | 2.84 | 29546 | 6 3 . | | |
| 21 | 68.74 | 976 | 2.53 | 29429 | 7 1 . | | |
| 24 | 59.85 | 847 | 3.06 | 29523 | M 0 9 3 1 5 6 . _ M _ _ _ _ 2 . 2 A - - | 144 | 100L |
| 21 | 66.49 | 939 | 2.81 | 29423 | 6 3 . | | |
| 19 | 74.26 | 1049 | 2.72 | 29429 | 7 1 . | | |
| 17 | 82.51 | 1166 | 2.45 | 29376 | 8 0 . | | |
| 15 | 93.92 | 1325 | 1.99 | 29220 | 9 0 . | | |
| 14 | 103.68 | 1462 | 1.8 | 29144 | 1 0 0 | | |
| 12 | 116.55 | 1645 | 1.74 | 29082 | 1 1 2 | | |
| 11 | 128.66 | 1818 | 1.57 | 29006 | 1 2 5 | | |
| 10 | 145.2 | 2040 | 1.21 | 28826 | 1 4 0 | | |
| 8.9 | 160.29 | 2247 | 1.1 | 28762 | 1 6 0 | | |
| 18 | 79.08 | 1112 | 3.96 | 49582 | M 1 0 3 1 8 0 . _ M _ _ _ _ 2 . 2 A - - | 193 | 100L |
| 15 | 95.44 | 1346 | 2.8 | 49101 | 9 0 . | | |
| 13 | 109.97 | 1548 | 2.43 | 48771 | 1 0 0 | | |
| 13 | 112.77 | 1587 | 2.78 | 48771 | 1 1 2 | | |
| 11 | 129.94 | 1828 | 2.41 | 48360 | 1 2 5 | | |
| 10 | 135.88 | 1904 | 2.18 | 48326 | 1 4 0 | | |
| 9.1 | 156.57 | 2196 | 1.9 | 47855 | 1 6 0 | | |
| 6.5 | 220.22 | 3040 | 1.45 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 2 . 2 A - - | 230 | 100L |
| 5.9 | 242.24 | 3343 | 1.32 | 41580 | 2 5 0 | | |
| 5.1 | 278.36 | 3841 | 1.15 | 41580 | 2 8 0 | | |
| 4.5 | 315.65 | 4349 | 1.01 | 41580 | 3 0 0 | | |
| 4.1 | 348.16 | 4800 | 0.92 | 41580 | 3 6 0 | | |
| 3.6 | 398.71 | 5495 | 0.8 | 41580 | 4 0 0 | | |
| 13 | 113.69 | 1588 | 4 | 66923 | M 1 3 3 1 1 1 2 _ M _ _ _ _ 2 . 2 A - - | 263 | 100L |
| 11 | 126.62 | 1768 | 3.59 | 66826 | 1 2 5 | | |
| 10 | 139.07 | 1935 | 3.34 | 66726 | 1 4 0 | | |
| 9.2 | 154.89 | 2155 | 3 | 66730 | 1 6 0 | | |
| 8.2 | 173.37 | 2425 | 2.62 | 66636 | 1 8 0 | | |
| 7.7 | 184.46 | 2584 | 2.46 | 66536 | 2 0 0 | | |
| 6.7 | 212.09 | 2957 | 2.18 | 66442 | 2 2 5 | | |
| 6.3 | 226.98 | 3126 | 2.03 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 2 . 2 A - - | 305 | 100L |
| 5.7 | 249.68 | 3438 | 1.85 | 64632 | 2 5 0 | | |
| 5 | 286.9 | 3949 | 1.61 | 64632 | 2 8 0 | | |
| 4.4 | 325.33 | 4472 | 1.42 | 64632 | 3 0 0 | | |
| 4 | 358.84 | 4936 | 1.29 | 64632 | 3 6 0 | | |
| 3.5 | 410.95 | 5649 | 1.12 | 64632 | 4 0 0 | | |
| 3.1 | 463.22 | 6365 | 1 | 64632 | 4 5 0 | | |
| 2.7 | 523.74 | 7191 | 0.88 | 64632 | 5 0 0 | | |
| 6.8 | 208.15 | 2903 | 3.79 | 80900 | M 1 4 3 1 2 0 0 _ M _ _ _ _ 2 . 2 A - - | 392 | 100L |
| 6.7 | 211.96 | 2951 | 3.42 | 80900 | 2 2 5 | | |
| 5.8 | 246.73 | 3402 | 3.11 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 2 . 2 A - - | 421 | 100L |
| 5.3 | 271.4 | 3741 | 2.83 | 80613 | 2 5 0 | | |
| 4.6 | 311.86 | 4297 | 2.47 | 80613 | 2 8 0 | | |
| 4 | 353.64 | 4865 | 2.18 | 80613 | 3 0 0 | | |
| 3.7 | 390.06 | 5369 | 1.97 | 80613 | 3 6 0 | | |
| 3.2 | 446.71 | 6145 | 1.72 | 80613 | 4 0 0 | | |
| 2.9 | 492.49 | 6769 | 1.59 | 80613 | 4 5 0 | | |
| 2.6 | 556.83 | 7647 | 1.41 | 80613 | 5 0 0 | | |
| 2.2 | 645.58 | 8856 | 1.22 | 80613 | 6 5 0 | | |
| 1.9 | 770.01 | 10548 | 1.02 | 80613 | 7 3 0 | | |
| 1.8 | 801.52 | 10952 | 0.97 | 80613 | 8 6 0 | | |
| 1.5 | 929.27 | 12686 | 0.84 | 80613 | 1 0 C | | |

NOTE

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

## 2.2 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 262 | 3.59 | 79 | 1.27 | 3100 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 2 . 2 C - - | 46 | 112M |
| 187 | 5.03 | 110 | 1.05 | 3100 | 5 . 0 | | |
| 169 | 5.55 | 121 | 1.00 | 3100 | 5 . 6 | | |
| 149 | 6.30 | 138 | 0.92 | 2650 | 6 . 3 | | |
| 262 | 3.59 | 79 | 1.50 | 2300 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 2 . 2 C - - | 46 | 112M |
| 187 | 5.03 | 110 | 1.22 | 2300 | 5 . 0 | | |
| 169 | 5.55 | 121 | 1.15 | 2300 | 5 . 6 | | |
| 149 | 6.30 | 138 | 1.07 | 2300 | 6 . 3 | | |
| 118 | 8.00 | 175 | 0.92 | 2150 | 8 . 0 | | |
| 103 | 9.09 | 199 | 0.84 | 2000 | 9 . 0 | | |
| 265 | 3.58 | 77 | 3.02 | 4780 | M 0 4 2 2 3 . 6 _ M _ _ _ _ 2 . 2 C - - | 56 | 112M |
| 188 | 5.04 | 108 | 2.51 | 5000 | 5 . 0 | | |
| 168 | 5.65 | 121 | 2.35 | 5070 | 5 . 6 | | |
| 150 | 6.34 | 136 | 2.15 | 5130 | 6 . 3 | | |
| 118 | 8.05 | 172 | 1.79 | 5250 | 8 . 0 | | |
| 104 | 9.13 | 196 | 1.62 | 5350 | 9 . 0 | | |
| 87 | 10.89 | 233 | 1.43 | 5540 | 1 1 . | | |
| 76 | 12.54 | 268 | 1.21 | 5680 | 1 2 . | | |
| 65 | 14.58 | 313 | 1.08 | 5820 | 1 4 . | | |
| 58 | 16.31 | 349 | 0.97 | 5920 | 1 6 . | | |
| 55 | 17.39 | 373 | 0.9 | 5970 | 1 8 . | | |
| 265 | 3.58 | 77 | 3.8 | 7200 | M 0 5 2 2 3 . 6 _ M _ _ _ _ 2 . 2 C - - | 56 | 112M |
| 188 | 5.04 | 108 | 3.53 | 4820 | 5 . 0 | | |
| 168 | 5.65 | 121 | 3.39 | 4890 | 5 . 6 | | |
| 150 | 6.34 | 136 | 3.03 | 4950 | 6 . 3 | | |
| 118 | 8.05 | 173 | 2.6 | 5060 | 8 . 0 | | |
| 104 | 9.13 | 196 | 2.29 | 5150 | 9 . 0 | | |
| 87 | 10.89 | 234 | 1.92 | 5340 | 1 1 . | | |
| 76 | 12.54 | 269 | 1.58 | 5480 | 1 2 . | | |
| 65 | 14.58 | 313 | 1.43 | 5610 | 1 4 . | | |
| 58 | 16.31 | 349 | 1.29 | 5700 | 1 6 . | | |
| 55 | 17.39 | 373 | 1.21 | 5750 | 1 8 . | | |
| 46 | 20.61 | 442 | 1.02 | 5060 | 2 0 . | | |
| 43 | 22 | 471 | 0.95 | 4450 | 2 2 . | | |
| 152 | 6.24 | 134 | 3.53 | 7200 | M 0 6 2 2 5 . 6 _ M _ _ _ _ 2 . 2 C - - | 61 | 112M |
| 136 | 6.99 | 150 | 3.39 | 7200 | 6 . 3 | | |
| 121 | 7.85 | 168 | 3.03 | 7200 | 8 . 0 | | |
| 95 | 9.97 | 214 | 2.77 | 7200 | 9 . 0 | | |
| 84 | 11.3 | 243 | 2.5 | 7200 | 1 1 . | | |
| 70 | 13.48 | 290 | 2.15 | 7200 | 1 2 . | | |
| 61 | 15.52 | 333 | 1.58 | 7200 | 1 4 . | | |
| 53 | 18.05 | 388 | 1.54 | 7200 | 1 6 . | | |
| 47 | 20.2 | 433 | 1.44 | 7200 | 1 8 . | | |
| 44 | 21.53 | 462 | 1.35 | 7200 | 2 0 . | | |
| 37 | 25.51 | 547 | 1.14 | 7200 | 2 2 . | | |
| 35 | 27.24 | 584 | 1.07 | 7200 | 2 8 . | | |
| 28 | 33.8 | 724 | 0.86 | 7200 | 3 2 . | | |
| 84 | 11.35 | 243 | 3.18 | 8620 | M 0 7 2 2 1 1 . _ M _ _ _ _ 2 . 2 C - - | 69 | 112M |
| 76 | 12.48 | 267 | 2.96 | 8440 | 1 2 . | | |
| 66 | 14.34 | 307 | 2.63 | 8126 | 1 4 . | | |
| 58 | 16.26 | 348 | 2.35 | 7790 | 1 6 . | | |
| 53 | 17.94 | 384 | 2.15 | 7470 | 1 8 . | | |
| 46 | 20.54 | 439 | 1.9 | 6963 | 2 0 . | | |
| 41 | 23.23 | 496 | 1.7 | 6666 | 2 2 . | | |
| 35 | 26.93 | 575 | 1.49 | 6666 | 2 8 . | | |
| 30 | 32.12 | 685 | 1.26 | 5217 | 3 2 . | | |
| 27 | 35.17 | 749 | 1.16 | 5217 | 3 6 . | | |
| 23 | 42.21 | 897 | 0.97 | 3265 | 4 5 . | | |
| 52 | 18.26 | 390 | 3.48 | 20000 | M 0 8 2 2 1 8 . _ M _ _ _ _ 2 . 2 C - - | 101 | 112M |
| 46 | 20.66 | 442 | 3.3 | 20000 | 2 0 . | | |
| 41 | 23.32 | 500 | 3.08 | 20000 | 2 2 . | | |
| 34 | 28.27 | 604 | 2.73 | 20000 | 2 8 . | | |
| 29 | 32.97 | 704 | 2.34 | 17987 | 3 2 . | | |
| 26 | 36.21 | 773 | 2.13 | 17718 | 3 6 . | | |
| 21 | 44.38 | 947 | 1.74 | 16267 | 4 5 . | | |
| 20 | 48.46 | 1033 | 1.6 | 15492 | 5 0 . | | |
| 17 | 55.8 | 1184 | 1.31 | 14699 | 5 6 . | | |
| 16 | 60.33 | 1273 | 1.3 | 14606 | M 0 8 3 2 5 6 . _ M _ _ _ _ 2 . 2 C - - | 102 | 112M |
| 14 | 66.02 | 1394 | 1.18 | 12236 | 6 3 . | | |
| 13 | 74.69 | 1581 | 1.04 | 11076 | 7 1 . | | |
| 11 | 84.31 | 1780 | 0.93 | 9804 | 8 0 . | | |
| 24 | 40.25 | 862 | 2.87 | 29500 | M 0 9 2 1 4 0 . _ M _ _ _ _ 2 . 2 C - - | 142 | 112M |
| 21 | 44.44 | 951 | 2.6 | 29500 | 4 5 . | | |
| 19 | 49.07 | 1049 | 2.65 | 29400 | 5 0 . | | |
| 17 | 55.18 | 1174 | 1.66 | 29390 | 5 6 . | | |
| 16 | 61.13 | 1304 | 1.89 | 29250 | 6 3 . | | |
| 14 | 68.74 | 1464 | 1.66 | 28975 | 7 1 . | | |

NOTE

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

## 2.2 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 16 | 59.85 | 1270 | 2.08 | 29200 | M 0 9 3 1 5 6 . _ M _ _ _ _ 2 . 2 C - - | 151 | 112M |
| 14 | 66.49 | 1410 | 1.87 | 29100 | 6 3 . | | |
| 13 | 74.26 | 1577 | 1.81 | 29100 | 7 1 . | | |
| 12 | 82.51 | 1751 | 1.63 | 29000 | 8 0 . | | |
| 10 | 93.92 | 1989 | 1.33 | 28800 | 9 0 . | | |
| 9.2 | 103.68 | 2198 | 1.2 | 28700 | 1 0 0 | | |
| 8.2 | 116.55 | 2474 | 1.16 | 28600 | 1 1 2 | | |
| 7.4 | 128.66 | 2728 | 1.05 | 28500 | 1 2 5 | | |
| 6.5 | 145.2 | 3067 | 0.81 | 28300 | 1 4 0 | | |
| 18 | 51.49 | 1097 | 3.53 | 49500 | M 1 0 2 1 5 6 . _ M _ _ _ _ 2 . 2 C - - | 188 | 112M |
| 16 | 57.75 | 1229 | 3.38 | 49400 | 6 3 . | | |
| 15 | 62.05 | 1317 | 3.16 | 49200 | 7 1 . | | |
| 16 | 60.23 | 1275 | 2.96 | 49200 | M 1 0 3 1 5 6 . _ M _ _ _ _ 2 . 2 C - - | 205 | 112M |
| 14 | 66.93 | 1418 | 2.66 | 49000 | 6 3 . | | |
| 13 | 71.17 | 1506 | 2.93 | 48900 | 7 1 . | | |
| 12 | 79.08 | 1673 | 2.64 | 48600 | 8 0 . | | |
| 10 | 95.44 | 2019 | 1.87 | 47635 | 9 0 . | | |
| 8.6 | 109.97 | 2328 | 1.62 | 46378 | 1 0 0 | | |
| 8.4 | 112.77 | 2385 | 1.85 | 46425 | 1 1 2 | | |
| 7.3 | 129.94 | 2746 | 1.61 | 46625 | 1 2 5 | | |
| 7 | 135.88 | 2870 | 1.45 | 46450 | 1 4 0 | | |
| 6.1 | 156.57 | 3299 | 1.26 | 46044 | 1 6 0 | | |
| 4.3 | 220.22 | 4569 | 0.97 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 2 . 2 C - - | 237 | 112M |
| 3.9 | 242.24 | 5024 | 0.88 | 41580 | 2 5 0 | | |
| 8.4 | 113.69 | 2384 | 2.66 | 66600 | M 1 3 3 1 1 1 2 _ M _ _ _ _ 2 . 2 C - - | 270 | 112M |
| 7.5 | 126.62 | 2653 | 2.39 | 66531 | 1 2 5 | | |
| 6.8 | 139.07 | 2907 | 2.22 | 66420 | 1 4 0 | | |
| 6.1 | 154.89 | 3234 | 2 | 66373 | 1 6 0 | | |
| 5.5 | 173.37 | 3638 | 1.75 | 66232 | 1 8 0 | | |
| 5.2 | 184.46 | 3878 | 1.64 | 66115 | 2 0 0 | | |
| 4.5 | 212.09 | 4446 | 1.45 | 65962 | 2 2 5 | | |
| 4.2 | 226.98 | 4696 | 1.35 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 2 . 2 C - - | 312 | 112M |
| 3.8 | 249.68 | 5164 | 1.23 | 64632 | 2 5 0 | | |
| 3.3 | 286.9 | 5930 | 1.07 | 64632 | 2 8 0 | | |
| 2.9 | 325.33 | 6714 | 0.95 | 64632 | 3 0 0 | | |
| 2.6 | 358.84 | 7410 | 0.86 | 64632 | 3 6 0 | | |
| 6.7 | 142.66 | 2977 | 3.39 | 80900 | M 1 4 3 1 1 4 0 _ M _ _ _ _ 2 . 2 C - - | 399 | 112M |
| 6.1 | 154.57 | 3230 | 3.13 | 80900 | 1 6 0 | | |
| 5.1 | 185.56 | 3894 | 2.82 | 80900 | 1 8 0 | | |
| 4.6 | 208.15 | 4359 | 2.52 | 80900 | 2 0 0 | | |
| 4.5 | 211.96 | 4428 | 2.28 | 80865 | 2 2 5 | | |
| 3.9 | 246.73 | 5107 | 2.07 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 2 . 2 C - - | 428 | 112M |
| 3.5 | 271.4 | 5616 | 1.89 | 80613 | 2 5 0 | | |
| 3 | 311.86 | 6449 | 1.64 | 80613 | 2 8 0 | | |
| 2.7 | 353.64 | 7301 | 1.45 | 80613 | 3 0 0 | | |
| 2.4 | 390.06 | 8057 | 1.32 | 80613 | 3 6 0 | | |
| 2.1 | 446.71 | 9219 | 1.15 | 80613 | 4 0 0 | | |
| 1.9 | 492.49 | 10157 | 1.06 | 80613 | 4 5 0 | | |
| 1.7 | 556.83 | 11473 | 0.94 | 80613 | 5 0 0 | | |
| 1.5 | 645.58 | 13285 | 0.81 | 80613 | 6 5 0 | | |

NOTE

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

**3.0 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 398 | 3.59 | 68 | 1.46 | 3100 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 3 . 0 A - - | 39 | 100L |
| 284 | 5.03 | 96 | 1.21 | 3100 | 5 . 0 | | |
| 258 | 5.55 | 106 | 1.15 | 3100 | 5 . 6 | | |
| 227 | 6.30 | 120 | 1.06 | 3100 | 6 . 3 | | |
| 179 | 8.00 | 152 | 0.89 | 2600 | 8 . 0 | | |
| 157 | 9.09 | 173 | 0.81 | 2300 | 9 . 0 | | |
| 398 | 3.59 | 68 | 1.73 | 2300 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 3 . 0 A - - | 39 | 100L |
| 284 | 5.03 | 96 | 1.41 | 2300 | 5 . 0 | | |
| 258 | 5.55 | 106 | 1.33 | 2300 | 5 . 6 | | |
| 227 | 6.30 | 120 | 1.23 | 2300 | 6 . 3 | | |
| 179 | 8.00 | 152 | 1.06 | 2300 | 8 . 0 | | |
| 157 | 9.09 | 173 | 0.97 | 2200 | 9 . 0 | | |
| 128 | 11.15 | 212 | 0.84 | 2000 | 1 1 . | | |
| 398 | 3.58 | 69 | 2.91 | 4476 | M 0 4 2 2 3 . 6 _ M _ _ _ _ 3 . 0 A - - | 49 | 100L |
| 283 | 5.04 | 98 | 2.41 | 4648 | 5 . 0 | | |
| 252 | 5.65 | 110 | 2.26 | 4720 | 5 . 6 | | |
| 225 | 6.34 | 123 | 2.12 | 4791 | 6 . 3 | | |
| 177 | 8.05 | 157 | 1.84 | 4911 | 8 . 0 | | |
| 156 | 9.13 | 177 | 1.68 | 4968 | 9 . 0 | | |
| 131 | 10.89 | 212 | 1.46 | 5026 | 1 1 . | | |
| 114 | 12.54 | 244 | 1.16 | 5202 | 1 2 . | | |
| 98 | 14.58 | 284 | 1.04 | 5343 | 1 4 . | | |
| 87 | 16.31 | 317 | 0.96 | 5110 | 1 6 . | | |
| 82 | 17.39 | 339 | 0.92 | 5140 | 1 8 . | | |
| 283 | 5.04 | 98 | 3.87 | 4395 | M 0 5 2 2 5 . 0 _ M _ _ _ _ 3 . 0 A - - | 49 | 100L |
| 252 | 5.65 | 110 | 3.73 | 4450 | 5 . 6 | | |
| 225 | 6.34 | 123 | 3.34 | 4504 | 6 . 3 | | |
| 177 | 8.05 | 157 | 2.86 | 4733 | 8 . 0 | | |
| 156 | 9.13 | 178 | 2.52 | 4790 | 9 . 0 | | |
| 131 | 10.89 | 212 | 2.11 | 4850 | 1 1 . | | |
| 114 | 12.54 | 244 | 1.74 | 4855 | 1 2 . | | |
| 98 | 14.58 | 284 | 1.58 | 4762 | 1 4 . | | |
| 87 | 16.31 | 317 | 1.42 | 5204 | 1 6 . | | |
| 82 | 17.39 | 339 | 1.33 | 5254 | 1 8 . | | |
| 69 | 20.61 | 401 | 1.12 | 5221 | 2 0 . | | |
| 65 | 22 | 429 | 1.05 | 4500 | 2 2 . | | |
| 52 | 27.3 | 532 | 0.85 | 3280 | 2 8 . | | |
| 228 | 6.24 | 122 | 3.87 | 7200 | M 0 6 2 2 5 . 6 _ M _ _ _ _ 3 . 0 A - - | 54 | 100L |
| 204 | 6.99 | 136 | 3.73 | 7200 | 6 . 3 | | |
| 182 | 7.85 | 153 | 3.34 | 7200 | 8 . 0 | | |
| 143 | 9.97 | 194 | 3.05 | 7200 | 9 . 0 | | |
| 126 | 11.3 | 221 | 2.73 | 7200 | 1 1 . | | |
| 106 | 13.48 | 263 | 2.33 | 7200 | 1 2 . | | |
| 92 | 15.52 | 303 | 1.74 | 7200 | 1 4 . | | |
| 79 | 18.05 | 352 | 1.69 | 7200 | 1 6 . | | |
| 71 | 20.2 | 394 | 1.59 | 7200 | 1 8 . | | |
| 66 | 21.53 | 419 | 1.49 | 7200 | 2 0 . | | |
| 56 | 25.51 | 497 | 1.26 | 7200 | 2 2 . | | |
| 52 | 27.24 | 530 | 1.18 | 7200 | 2 8 . | | |
| 42 | 33.8 | 658 | 0.95 | 7200 | 3 2 . | | |
| 36 | 39.86 | 773 | 0.81 | 7200 | 3 6 . | | |
| 126 | 11.35 | 221 | 3.23 | 7698 | M 0 7 2 2 1 1 . _ M _ _ _ _ 3 . 0 A - - | 62 | 100L |
| 114 | 12.48 | 243 | 3.03 | 7607 | 1 2 . | | |
| 99 | 14.34 | 279 | 2.71 | 7670 | 1 4 . | | |
| 88 | 16.26 | 316 | 2.48 | 7956 | 1 6 . | | |
| 79 | 17.94 | 349 | 2.27 | 8480 | 1 8 . | | |
| 69 | 20.54 | 399 | 2.01 | 8190 | 2 0 . | | |
| 61 | 23.23 | 451 | 1.8 | 7040 | 2 2 . | | |
| 53 | 26.93 | 523 | 1.58 | 6400 | 2 8 . | | |
| 44 | 32.12 | 623 | 1.35 | 6898 | 3 2 . | | |
| 41 | 35.17 | 682 | 1.24 | 6012 | 3 6 . | | |
| 34 | 42.21 | 815 | 1.06 | 5750 | 4 5 . | | |
| 78 | 18.26 | 354 | 3.83 | 18200 | M 0 8 2 2 1 8 . _ M _ _ _ _ 3 . 0 A - - | 94 | 100L |
| 69 | 20.66 | 401 | 3.64 | 18800 | 2 0 . | | |
| 61 | 23.32 | 456 | 3.37 | 19500 | 2 2 . | | |
| 50 | 28.27 | 548 | 2.9 | 20000 | 2 8 . | | |
| 43 | 32.97 | 640 | 2.55 | 18667 | 3 2 . | | |
| 39 | 36.21 | 702 | 2.35 | 18492 | 3 6 . | | |
| 32 | 44.38 | 860 | 1.92 | 17475 | 4 5 . | | |
| 29 | 48.46 | 939 | 1.76 | 17036 | 5 0 . | | |
| 26 | 55.8 | 1078 | 1.43 | 18755 | 5 6 . | | |
| 24 | 60.33 | 1154 | 1.39 | 18100 | M 0 8 3 2 5 6 . _ M _ _ _ _ 3 . 0 A - - | 95 | 100L |
| 22 | 66.02 | 1268 | 1.3 | 16724 | 6 3 . | | |
| 19 | 74.69 | 1430 | 1.15 | 14693 | 7 1 . | | |
| 17 | 84.31 | 1614 | 1.02 | 16100 | 8 0 . | | |
| 14 | 102.2 | 1959 | 0.84 | 11200 | 1 0 0 | | |
| 40 | 35.67 | 693 | 3.37 | 29600 | M 0 9 2 1 3 6 . _ M _ _ _ _ 3 . 0 A - - | 135 | 100L |
| 35 | 40.25 | 783 | 3.15 | 29600 | 4 0 . | | |
| 32 | 44.44 | 865 | 2.85 | 29492 | 4 5 . | | |
| 29 | 49.07 | 953 | 2.54 | 29478 | 5 0 . | | |
| 26 | 55.18 | 1068 | 1.88 | 29407 | 5 6 . | | |
| 23 | 61.13 | 1187 | 2.08 | 29370 | 6 3 . | | |
| 21 | 68.74 | 1332 | 1.85 | 29234 | 7 1 . | | |

NOTE

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

**3.0 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 24 | 59.85 | 1155 | 2.24 | 29335 | M 0 9 3 1 5 6 . _ M _ _ _ _ 3 . 0 A - - | 144 | 100L |
| 21 | 66.49 | 1281 | 2.06 | 29235 | 6 3 . | | |
| 19 | 74.26 | 1431 | 2 | 29194 | 7 1 . | | |
| 17 | 82.51 | 1590 | 1.8 | 29120 | 8 0 . | | |
| 15 | 93.92 | 1806 | 1.46 | 28944 | 9 0 . | | |
| 14 | 103.68 | 1994 | 1.32 | 28813 | 1 0 0 | | |
| 12 | 116.55 | 2244 | 1.27 | 28779 | 1 1 2 | | |
| 11 | 128.66 | 2480 | 1.15 | 28648 | 1 2 5 | | |
| 10 | 145.2 | 2782 | 0.89 | 28400 | 1 4 0 | | |
| 8.9 | 160.29 | 3065 | 0.81 | 28300 | 1 6 0 | | |
| 28 | 51.49 | 1001 | 3.87 | 46600 | M 1 0 2 1 5 6 . _ M _ _ _ _ 3 . 0 A - - | 181 | 100L |
| 25 | 57.75 | 1113 | 3.73 | 48400 | 6 3 . | | |
| 23 | 62.05 | 1198 | 3.47 | 49452 | 7 1 . | | |
| 24 | 60.23 | 1157 | 3.26 | 29500 | M 1 0 3 1 5 6 . _ M _ _ _ _ 3 . 0 A - - | 193 | 100L |
| 21 | 66.93 | 1285 | 2.93 | 29500 | 6 3 . | | |
| 20 | 71.17 | 1366 | 3.23 | 29500 | 7 1 . | | |
| 18 | 79.08 | 1517 | 2.91 | 48921 | 8 0 . | | |
| 15 | 95.44 | 1835 | 2.05 | 48286 | 9 0 . | | |
| 13 | 109.97 | 2111 | 1.79 | 47825 | 1 0 0 | | |
| 13 | 112.77 | 2164 | 2.04 | 47825 | 1 1 2 | | |
| 11 | 129.94 | 2492 | 1.77 | 47287 | 1 2 5 | | |
| 10 | 135.88 | 2596 | 1.6 | 47214 | 1 4 0 | | |
| 9.1 | 156.57 | 2995 | 1.39 | 46586 | 1 6 0 | | |
| 6.5 | 220.22 | 4145 | 1.06 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 3 . 0 A - - | 230 | 100L |
| 5.9 | 242.24 | 4559 | 0.97 | 41580 | 2 5 0 | | |
| 5.1 | 278.36 | 5237 | 0.84 | 41580 | 2 8 0 | | |
| 16 | 90.75 | 1736 | 3.57 | 66900 | M 1 3 3 1 9 0 . _ M _ _ _ _ 3 . 0 A - - | 263 | 100L |
| 14 | 101.07 | 1933 | 3.21 | 66700 | 1 0 0 | | |
| 13 | 113.69 | 2165 | 2.93 | 66738 | 1 1 2 | | |
| 11 | 126.62 | 2410 | 2.63 | 66611 | 1 2 5 | | |
| 10 | 139.07 | 2639 | 2.45 | 66511 | 1 4 0 | | |
| 9.2 | 154.89 | 2938 | 2.2 | 66484 | 1 6 0 | | |
| 8.2 | 173.37 | 3307 | 1.92 | 66345 | 1 8 0 | | |
| 7.7 | 184.46 | 3524 | 1.8 | 66245 | 2 0 0 | | |
| 6.7 | 212.09 | 4032 | 1.6 | 66103 | 2 2 5 | | |
| 6.3 | 226.98 | 4263 | 1.49 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 3 . 0 A - - | 305 | 100L |
| 5.7 | 249.68 | 4689 | 1.35 | 64632 | 2 5 0 | | |
| 5 | 286.9 | 5386 | 1.18 | 64632 | 2 8 0 | | |
| 4.4 | 325.33 | 6098 | 1.04 | 64632 | 3 0 0 | | |
| 4 | 358.84 | 6731 | 0.94 | 64632 | 3 6 0 | | |
| 3.5 | 410.95 | 7704 | 0.82 | 64632 | 4 0 0 | | |
| 10 | 142.66 | 2704 | 3.73 | 80900 | M 1 4 3 1 1 4 0 _ M _ _ _ _ 3 . 0 A - - | 392 | 100L |
| 9.2 | 154.57 | 2936 | 3.44 | 80900 | 1 6 0 | | |
| 7.7 | 185.56 | 3538 | 3.11 | 80900 | 1 8 0 | | |
| 6.8 | 208.15 | 3959 | 2.78 | 80900 | 2 0 0 | | |
| 6.7 | 211.96 | 4025 | 2.51 | 80900 | 2 2 5 | | |
| 5.8 | 246.73 | 4639 | 2.28 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 3 . 0 A - - | 421 | 100L |
| 5.3 | 271.4 | 5102 | 2.08 | 80613 | 2 5 0 | | |
| 4.6 | 311.86 | 5859 | 1.81 | 80613 | 2 8 0 | | |
| 4 | 353.64 | 6634 | 1.6 | 80613 | 3 0 0 | | |
| 3.7 | 390.06 | 7322 | 1.45 | 80613 | 3 6 0 | | |
| 3.2 | 446.71 | 8379 | 1.26 | 80613 | 4 0 0 | | |
| 2.9 | 492.49 | 9231 | 1.17 | 80613 | 4 5 0 | | |
| 2.6 | 556.83 | 10428 | 1.03 | 80613 | 5 0 0 | | |
| 2.2 | 645.58 | 12077 | 0.89 | 80613 | 6 5 0 | | |

**3.0 kW**

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 260 | 3.68 | 107 | 2.87 | 8020 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 3 . 0 C - - | 88 | 132S |
| 187 | 5.09 | 148 | 2.87 | 8470 | 5 . 0 | | |
| 167 | 5.72 | 166 | 2.87 | 8620 | 5 . 6 | | |
| 152 | 6.29 | 183 | 2.87 | 8750 | 6 . 3 | | |
| 116 | 8.22 | 239 | 2.87 | 9090 | 8 . 0 | | |
| 102 | 9.34 | 271 | 2.73 | 9240 | 9 . 0 | | |
| 84 | 11.35 | 330 | 2.34 | 7950 | 1 1 . | | |
| 77 | 12.48 | 363 | 2.18 | 7683 | 1 2 . | | |
| 67 | 14.34 | 417 | 1.94 | 7218 | 1 4 . | | |
| 59 | 16.26 | 472 | 1.73 | 6718 | 1 6 . | | |
| 53 | 17.94 | 522 | 1.58 | 6243 | 1 8 . | | |
| 46 | 20.54 | 596 | 1.4 | 5491 | 2 0 . | | |
| 41 | 23.23 | 673 | 1.26 | 5050 | 2 2 . | | |
| 35 | 26.93 | 781 | 1.1 | 5050 | 2 8 . | | |
| 30 | 32.12 | 930 | 0.93 | 2898 | 3 2 . | | |
| 27 | 35.17 | 1017 | 0.85 | 2898 | 3 6 . | | |

NOTE

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

## 3.0 kW

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 63 | 15.04 | 436 | 3.55 | 19300 | M 0 8 2 2 1 4 . _ M _ _ _ _ 3 . 0 C - - | 121 | 132S |
| 57 | 16.69 | 483 | 2.93 | 19900 | 1 6 . | | |
| 52 | 18.26 | 529 | 2.57 | 18460 | 1 8 . | | |
| 46 | 20.66 | 599 | 2.43 | 18233 | 2 0 . | | |
| 41 | 23.32 | 678 | 2.27 | 18181 | 2 2 . | | |
| 34 | 28.27 | 819 | 2.01 | 18181 | 2 8 . | | |
| 29 | 32.97 | 955 | 1.73 | 15687 | 3 2 . | | |
| 26 | 36.21 | 1049 | 1.57 | 15111 | 3 6 . | | |
| 22 | 44.38 | 1285 | 1.28 | 13552 | 4 5 . | | |
| 20 | 48.46 | 1401 | 1.18 | 12214 | 5 0 . | | |
| 17 | 55.8 | 1606 | 0.96 | 11775 | 5 6 . | | |
| 16 | 60.33 | 1727 | 0.96 | 10683 | M 0 8 3 2 5 6 . _ M _ _ _ _ 3 . 0 C - - | 126 | 132S |
| 14 | 66.02 | 1891 | 0.87 | 7953 | 6 3 . | | |
| 37 | 26.04 | 758 | 3.48 | 29500 | M 0 9 2 1 2 5 . _ M _ _ _ _ 3 . 0 C - - | 162 | 132S |
| 33 | 28.74 | 837 | 3.15 | 29500 | 2 8 . | | |
| 30 | 32.31 | 940 | 2.83 | 29500 | 3 2 . | | |
| 27 | 35.67 | 1038 | 2.59 | 29400 | 3 6 . | | |
| 24 | 40.25 | 1169 | 2.11 | 28790 | 4 0 . | | |
| 21 | 44.44 | 1290 | 1.91 | 29303 | 4 5 . | | |
| 19 | 49.07 | 1423 | 1.95 | 29067 | 5 0 . | | |
| 17 | 55.18 | 1593 | 1.22 | 29150 | 5 6 . | | |
| 16 | 61.13 | 1769 | 1.4 | 28995 | 6 3 . | | |
| 14 | 68.74 | 1985 | 1.22 | 28520 | 7 1 . | | |
| 22 | 42.7 | 1242 | 3.35 | 49400 | M 1 0 2 1 4 5 . _ M _ _ _ _ 3 . 0 C - - | 208 | 132S |
| 20 | 47.93 | 1386 | 3.04 | 49100 | 5 0 . | | |
| 19 | 51.49 | 1488 | 2.6 | 48845 | 5 6 . | | |
| 17 | 57.75 | 1668 | 2.49 | 48681 | 6 3 . | | |
| 15 | 62.05 | 1787 | 2.33 | 48436 | 7 1 . | | |
| 15 | 64.17 | 1851 | 3.35 | 66800 | M 1 3 3 1 6 3 . _ M _ _ _ _ 3 . 0 C - - | 290 | 132S |
| 13 | 71.32 | 2039 | 3.11 | 66700 | 7 1 . | | |
| 12 | 80.39 | 2298 | 2.76 | 66600 | 8 0 . | | |
| 11 | 90.75 | 2593 | 2.39 | 66600 | 9 0 . | | |
| 9.4 | 101.07 | 2885 | 2.15 | 66500 | 1 0 0 | | |
| 8.4 | 113.69 | 3234 | 1.96 | 66328 | 1 1 2 | | |
| 7.5 | 126.62 | 3599 | 1.76 | 66225 | 1 2 5 | | |
| 6.9 | 139.07 | 3943 | 1.64 | 66100 | 1 4 0 | | |
| 6.2 | 154.89 | 4387 | 1.47 | 66000 | 1 6 0 | | |
| 5.5 | 173.37 | 4935 | 1.29 | 65812 | 1 8 0 | | |
| 5.2 | 184.46 | 5260 | 1.21 | 65675 | 2 0 0 | | |
| 4.5 | 212.09 | 6031 | 1.07 | 65462 | 2 2 5 | | |
| 7.6 | 124.89 | 3551 | 3.1 | 80900 | M 1 4 3 1 1 1 2 _ M _ _ _ _ 3 . 0 C - - | 419 | 132S |
| 7.1 | 135.31 | 3852 | 2.86 | 80900 | 1 2 5 | | |
| 6.7 | 142.66 | 4039 | 2.5 | 80900 | 1 4 0 | | |
| 6.2 | 154.57 | 4382 | 2.3 | 80900 | 1 6 0 | | |
| 5.1 | 185.56 | 5282 | 2.08 | 80900 | 1 8 0 | | |
| 4.6 | 208.15 | 5913 | 1.86 | 80854 | 2 0 0 | | |
| 4.5 | 211.96 | 6007 | 1.68 | 80825 | 2 2 5 | | |

## 4.0 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 398 | 3.59 | 91 | 1.10 | 3100 | M 0 2 2 2 3 . 6 _ M _ _ _ _ 4 . 0 A - - | 46 | 112M |
| 284 | 5.03 | 128 | 0.91 | 2650 | 5 . 0 | | |
| 258 | 5.55 | 141 | 0.86 | 2400 | 5 . 6 | | |
| 398 | 3.59 | 91 | 1.30 | 2300 | M 0 3 2 2 3 . 6 _ M _ _ _ _ 4 . 0 A - - | 46 | 112M |
| 284 | 5.03 | 128 | 1.06 | 2300 | 5 . 0 | | |
| 258 | 5.55 | 141 | 0.99 | 2300 | 5 . 6 | | |
| 227 | 6.30 | 160 | 0.92 | 2100 | 6 . 3 | | |
| 400 | 3.58 | 92 | 2.19 | 4413 | M 0 4 2 2 3 . 6 _ M _ _ _ _ 4 . 0 A - - | 56 | 112M |
| 285 | 5.04 | 129 | 1.82 | 4561 | 5 . 0 | | |
| 254 | 5.65 | 145 | 1.71 | 4620 | 5 . 6 | | |
| 226 | 6.34 | 163 | 1.6 | 4678 | 6 . 3 | | |
| 178 | 8.05 | 208 | 1.39 | 4770 | 8 . 0 | | |
| 157 | 9.13 | 235 | 1.27 | 4809 | 9 . 0 | | |
| 132 | 10.89 | 281 | 1.1 | 4835 | 1 1 . | | |
| 114 | 12.54 | 323 | 0.88 | 4930 | 1 2 . | | |
| 400 | 3.58 | 92 | 3.17 | 4160 | M 0 5 2 2 3 . 6 _ M _ _ _ _ 4 . 0 A - - | 56 | 112M |
| 285 | 5.04 | 130 | 2.92 | 4345 | 5 . 0 | | |
| 254 | 5.65 | 146 | 2.82 | 4394 | 5 . 6 | | |
| 226 | 6.34 | 163 | 2.52 | 4438 | 6 . 3 | | |
| 178 | 8.05 | 208 | 2.16 | 4596 | 8 . 0 | | |
| 157 | 9.13 | 236 | 1.9 | 4634 | 9 . 0 | | |
| 132 | 10.89 | 281 | 1.6 | 4666 | 1 1 . | | |
| 114 | 12.54 | 324 | 1.31 | 4653 | 1 2 . | | |
| 98 | 14.58 | 377 | 1.19 | 4445 | 1 4 . | | |
| 88 | 16.31 | 421 | 1.07 | 4920 | 1 6 . | | |
| 83 | 17.39 | 449 | 1 | 4950 | 1 8 . | | |
| 70 | 20.61 | 531 | 0.85 | 4790 | 2 0 . | | |

NOTE

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

## 4.0 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 323 | 4.44 | 114 | 3.17 | 7200 | M 0 6 2 2 5 . 0 _ M _ _ _ _ 4 . 0 A - - | 61 | 112M |
| 230 | 6.24 | 162 | 2.92 | 7200 | 5 . 6 | | |
| 205 | 6.99 | 180 | 2.82 | 7200 | 6 . 3 | | |
| 183 | 7.85 | 202 | 2.52 | 7200 | 8 . 0 | | |
| 144 | 9.97 | 258 | 2.3 | 7200 | 9 . 0 | | |
| 127 | 11.3 | 292 | 2.06 | 7200 | 1 1 . | | |
| 106 | 13.48 | 348 | 1.76 | 7200 | 1 2 . | | |
| 92 | 15.52 | 401 | 1.31 | 7200 | 1 4 . | | |
| 79 | 18.05 | 466 | 1.28 | 7200 | 1 6 . | | |
| 71 | 20.2 | 521 | 1.2 | 7200 | 1 8 . | | |
| 67 | 21.53 | 556 | 1.13 | 7200 | 2 0 . | | |
| 56 | 25.51 | 658 | 0.95 | 7200 | 2 2 . | | |
| 53 | 27.24 | 702 | 0.89 | 7200 | 2 8 . | | |
| 390 | 3.68 | 94 | 3.24 | 7490 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 4 . 0 A - - | 69 | 112M |
| 282 | 5.09 | 131 | 3.24 | 7780 | 5 . 0 | | |
| 251 | 5.72 | 147 | 3.24 | 7930 | 5 . 6 | | |
| 228 | 6.29 | 161 | 3.24 | 8050 | 6 . 3 | | |
| 175 | 8.22 | 213 | 2.97 | 8370 | 8 . 0 | | |
| 154 | 9.34 | 241 | 2.75 | 8510 | 9 . 0 | | |
| 126 | 11.35 | 293 | 2.44 | 7128 | 1 1 . | | |
| 115 | 12.48 | 321 | 2.29 | 6943 | 1 2 . | | |
| 100 | 14.34 | 370 | 2.04 | 6844 | 1 4 . | | |
| 88 | 16.26 | 419 | 1.88 | 7110 | 1 6 . | | |
| 80 | 17.94 | 463 | 1.71 | 7804 | 1 8 . | | |
| 70 | 20.54 | 529 | 1.52 | 7385 | 2 0 . | | |
| 62 | 23.23 | 597 | 1.36 | 5724 | 2 2 . | | |
| 53 | 26.93 | 693 | 1.19 | 4800 | 2 8 . | | |
| 45 | 32.12 | 826 | 1.02 | 5520 | 3 2 . | | |
| 41 | 35.17 | 903 | 0.94 | 4240 | 3 6 . | | |
| 86 | 16.69 | 428 | 3.32 | 17400 | M 0 8 2 2 1 6 . _ M _ _ _ _ 4 . 0 A - - | 101 | 112M |
| 79 | 18.26 | 469 | 2.89 | 16986 | 1 8 . | | |
| 69 | 20.66 | 531 | 2.75 | 17340 | 2 0 . | | |
| 62 | 23.32 | 604 | 2.55 | 17752 | 2 2 . | | |
| 51 | 28.27 | 726 | 2.19 | 17785 | 2 8 . | | |
| 44 | 32.97 | 847 | 1.92 | 16763 | 3 2 . | | |
| 40 | 36.21 | 930 | 1.77 | 16338 | 3 6 . | | |
| 32 | 44.38 | 1139 | 1.45 | 15792 | 4 5 . | | |
| 30 | 48.46 | 1244 | 1.33 | 15060 | 5 0 . | | |
| 26 | 55.8 | 1427 | 1.08 | 18100 | 5 6 . | | |
| 24 | 60.33 | 1528 | 1.05 | 17100 | M 0 8 3 2 5 6 . _ M _ _ _ _ 4 . 0 A - - | 102 | 112M |
| 22 | 66.02 | 1679 | 0.98 | 15000 | 6 3 . | | |
| 19 | 74.69 | 1894 | 0.87 | 11900 | 7 1 . | | |
| 55 | 26.04 | 671 | 3.93 | 27400 | M 0 9 2 1 2 5 . _ M _ _ _ _ 4 . 0 A - - | 142 | 112M |
| 50 | 28.74 | 740 | 3.56 | 28200 | 2 8 . | | |
| 44 | 32.31 | 837 | 2.77 | 29300 | 3 2 . | | |
| 40 | 35.67 | 918 | 2.55 | 28783 | 3 6 . | | |
| 36 | 40.25 | 1037 | 2.38 | 29111 | 4 0 . | | |
| 32 | 44.44 | 1146 | 2.15 | 29338 | 4 5 . | | |
| 29 | 49.07 | 1262 | 1.92 | 29305 | 5 0 . | | |
| 26 | 55.18 | 1415 | 1.42 | 29212 | 5 6 . | | |
| 23 | 61.13 | 1572 | 1.57 | 29151 | 6 3 . | | |
| 21 | 68.74 | 1763 | 1.4 | 28990 | 7 1 . | | |
| 24 | 59.85 | 1530 | 1.69 | 29100 | M 0 9 3 1 5 6 . _ M _ _ _ _ 4 . 0 A - - | 151 | 112M |
| 22 | 66.49 | 1696 | 1.56 | 29000 | 6 3 . | | |
| 19 | 74.26 | 1895 | 1.51 | 28900 | 7 1 . | | |
| 17 | 82.51 | 2105 | 1.36 | 28800 | 8 0 . | | |
| 15 | 93.92 | 2392 | 1.1 | 28600 | 9 0 . | | |
| 14 | 103.68 | 2641 | 1 | 28400 | 1 0 0 | | |
| 12 | 116.55 | 2971 | 0.96 | 28400 | 1 1 2 | | |
| 11 | 128.66 | 3283 | 0.87 | 28200 | 1 2 5 | | |
| 34 | 42.7 | 1098 | 3.79 | 43600 | M 1 0 2 1 4 5 . _ M _ _ _ _ 4 . 0 A - - | 188 | 112M |
| 30 | 47.93 | 1227 | 3.41 | 45100 | 5 0 . | | |
| 28 | 51.49 | 1325 | 2.92 | 46066 | 5 6 . | | |
| 25 | 57.75 | 1474 | 2.82 | 47800 | 6 3 . | | |
| 23 | 62.05 | 1586 | 2.62 | 48813 | 7 1 . | | |
| 24 | 60.23 | 1532 | 2.46 | 29411 | M 1 0 3 1 5 6 . _ M _ _ _ _ 4 . 0 A - - | 205 | 112M |
| 21 | 66.93 | 1702 | 2.21 | 29411 | 6 3 . | | |
| 20 | 71.17 | 1809 | 2.44 | 29411 | 7 1 . | | |
| 18 | 79.08 | 2009 | 2.19 | 48094 | 8 0 . | | |
| 15 | 95.44 | 2430 | 1.55 | 47267 | 9 0 . | | |
| 13 | 109.97 | 2795 | 1.35 | 46641 | 1 0 0 | | |
| 13 | 112.77 | 2865 | 1.54 | 46641 | 1 1 2 | | |
| 11 | 129.94 | 3300 | 1.34 | 45946 | 1 2 5 | | |
| 11 | 135.88 | 3438 | 1.21 | 45824 | 1 4 0 | | |
| 9.2 | 156.57 | 3965 | 1.05 | 45000 | 1 6 0 | | |
| 6.5 | 220.22 | 5489 | 0.8 | 41580 | M 1 0 4 1 2 2 5 _ M _ _ _ _ 4 . 0 A - - | 237 | 112M |

NOTE

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

**4.0 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 22 | 64.17 | 1637 | 3.79 | 66900 | M 1 3 3 1 6 3 . _ M _ _ _ _ 4 . 0 A - - | 270 | 112M |
| 20 | 71.32 | 1807 | 3.51 | 66800 | 7 1 . | | |
| 18 | 80.39 | 2036 | 3.12 | 66841 | 8 0 . | | |
| 16 | 90.75 | 2299 | 2.7 | 66800 | 9 0 . | | |
| 14 | 101.07 | 2559 | 2.42 | 66611 | 1 0 0 | | |
| 13 | 113.69 | 2867 | 2.21 | 66507 | 1 1 2 | | |
| 11 | 126.62 | 3192 | 1.99 | 66342 | 1 2 5 | | |
| 10 | 139.07 | 3495 | 1.85 | 66242 | 1 4 0 | | |
| 9.3 | 154.89 | 3891 | 1.66 | 66176 | 1 6 0 | | |
| 8.3 | 173.37 | 4379 | 1.45 | 65981 | 1 8 0 | | |
| 7.8 | 184.46 | 4666 | 1.36 | 65881 | 2 0 0 | | |
| 6.8 | 212.09 | 5339 | 1.21 | 65678 | 2 2 5 | | |
| 6.3 | 226.98 | 5645 | 1.12 | 64632 | M 1 3 4 1 2 2 5 _ M _ _ _ _ 4 . 0 A - - | 312 | 112M |
| 5.7 | 249.68 | 6208 | 1.02 | 64632 | 2 5 0 | | |
| 5 | 286.9 | 7131 | 0.89 | 64632 | 2 8 0 | | |
| 11 | 124.89 | 3153 | 3.49 | 80900 | M 1 4 3 1 1 1 2 _ M _ _ _ _ 4 . 0 A - - | 399 | 112M |
| 11 | 135.31 | 3419 | 3.22 | 80900 | 1 2 5 | | |
| 10 | 142.66 | 3580 | 2.82 | 80900 | 1 4 0 | | |
| 9.3 | 154.57 | 3887 | 2.6 | 80900 | 1 6 0 | | |
| 7.7 | 185.56 | 4684 | 2.35 | 80900 | 1 8 0 | | |
| 6.9 | 208.15 | 5242 | 2.1 | 80900 | 2 0 0 | | |
| 6.8 | 211.96 | 5329 | 1.9 | 80900 | 2 2 5 | | |
| 5.8 | 246.73 | 6143 | 1.72 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 4 . 0 A - - | 428 | 112M |
| 5.3 | 271.4 | 6755 | 1.57 | 80613 | 2 5 0 | | |
| 4.6 | 311.86 | 7758 | 1.37 | 80613 | 2 8 0 | | |
| 4.1 | 353.64 | 8784 | 1.21 | 80613 | 3 0 0 | | |
| 3.7 | 390.06 | 9694 | 1.09 | 80613 | 3 6 0 | | |
| 3.2 | 446.71 | 11095 | 0.95 | 80613 | 4 0 0 | | |
| 2.9 | 492.49 | 12222 | 0.88 | 80613 | 4 5 0 | | |

**4.0 kW**

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 261 | 3.68 | 141 | 2.16 | 7888 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 4 . 0 C - - | 92 | 132M |
| 188 | 5.09 | 196 | 2.16 | 8290 | 5 . 0 | | |
| 168 | 5.72 | 221 | 2.16 | 8420 | 5 . 6 | | |
| 153 | 6.29 | 243 | 2.16 | 8522 | 6 . 3 | | |
| 117 | 8.22 | 317 | 2.16 | 8334 | 8 . 0 | | |
| 103 | 9.34 | 360 | 2.06 | 8232 | 9 . 0 | | |
| 85 | 11.35 | 437 | 1.76 | 7114 | 1 1 . | | |
| 77 | 12.48 | 482 | 1.64 | 6738 | 1 2 . | | |
| 67 | 14.34 | 553 | 1.46 | 6083 | 1 4 . | | |
| 59 | 16.26 | 626 | 1.3 | 5379 | 1 6 . | | |
| 54 | 17.94 | 692 | 1.19 | 4710 | 1 8 . | | |
| 47 | 20.54 | 791 | 1.06 | 3650 | 2 0 . | | |
| 41 | 23.23 | 893 | 0.95 | 3030 | 2 2 . | | |
| 36 | 26.93 | 1036 | 0.83 | 3030 | 2 8 . | | |
| 115 | 8.33 | 322 | 3.97 | 16700 | M 0 8 2 2 8 . 0 _ M _ _ _ _ 4 . 0 C - - | 125 | 132M |
| 103 | 9.35 | 359 | 3.7 | 17000 | 9 . 0 | | |
| 84 | 11.47 | 443 | 3.22 | 17500 | 1 1 . | | |
| 74 | 12.92 | 498 | 2.95 | 18100 | 1 2 . | | |
| 64 | 15.04 | 579 | 2.67 | 17670 | 1 4 . | | |
| 58 | 16.69 | 641 | 2.21 | 17998 | 1 6 . | | |
| 53 | 18.26 | 702 | 1.93 | 16537 | 1 8 . | | |
| 46 | 20.66 | 795 | 1.84 | 16025 | 2 0 . | | |
| 41 | 23.32 | 900 | 1.71 | 15909 | 2 2 . | | |
| 34 | 28.27 | 1087 | 1.52 | 15909 | 2 8 . | | |
| 29 | 32.97 | 1266 | 1.3 | 12812 | 3 2 . | | |
| 27 | 36.21 | 1392 | 1.18 | 11852 | 3 6 . | | |
| 22 | 44.38 | 1705 | 0.97 | 10159 | 4 5 . | | |
| 20 | 48.46 | 1859 | 0.89 | 8116 | 5 0 . | | |
| 52 | 18.43 | 713 | 3.7 | 27900 | M 0 9 2 1 1 8 . _ M _ _ _ _ 4 . 0 C - - | 166 | 132M |
| 47 | 20.59 | 800 | 3.58 | 29000 | 2 0 . | | |
| 42 | 22.87 | 886 | 3.22 | 29500 | 2 2 . | | |
| 37 | 26.04 | 1005 | 2.62 | 28425 | 2 5 . | | |
| 33 | 28.74 | 1110 | 2.38 | 28275 | 2 8 . | | |
| 30 | 32.31 | 1247 | 2.13 | 28250 | 3 2 . | | |
| 27 | 35.67 | 1377 | 1.95 | 27958 | 3 6 . | | |
| 24 | 40.25 | 1551 | 1.59 | 27904 | 4 0 . | | |
| 22 | 44.44 | 1712 | 1.44 | 29058 | 4 5 . | | |
| 20 | 49.07 | 1887 | 1.47 | 28652 | 5 0 . | | |
| 17 | 55.18 | 2113 | 0.92 | 28850 | 5 6 . | | |
| 16 | 61.13 | 2346 | 1.05 | 28677 | 6 3 . | | |
| 14 | 68.74 | 2634 | 0.92 | 27952 | 7 1 . | | |
| 32 | 29.99 | 1160 | 3.25 | 44300 | M 1 0 2 1 2 8 . _ M _ _ _ _ 4 . 0 C - - | 212 | 132M |
| 31 | 30.76 | 1183 | 3.72 | 44700 | 3 2 . | | |
| 27 | 35.44 | 1367 | 3.22 | 46600 | 3 6 . | | |
| 26 | 37.06 | 1422 | 2.92 | 47300 | 4 0 . | | |
| 22 | 42.7 | 1647 | 2.53 | 48566 | 4 5 . | | |
| 20 | 47.93 | 1838 | 2.3 | 47958 | 5 0 . | | |
| 19 | 51.49 | 1974 | 1.96 | 48027 | 5 6 . | | |
| 17 | 57.75 | 2212 | 1.88 | 47784 | 6 3 . | | |
| 15 | 62.05 | 2370 | 1.75 | 47481 | 7 1 . | | |
| 16 | 60.23 | 2295 | 1.64 | 49200 | M 1 0 3 1 5 6 . _ M _ _ _ _ 4 . 0 C - - | 239 | 132M |
| 14 | 66.93 | 2551 | 1.48 | 49000 | 6 3 . | | |
| 13 | 71.17 | 2709 | 1.63 | 48900 | 7 1 . | | |
| 12 | 79.08 | 3010 | 1.47 | 46358 | 8 0 . | | |
| 10 | 95.44 | 3633 | 1.04 | 44125 | 9 0 . | | |
| 8.7 | 109.97 | 4188 | 0.9 | 40408 | 1 0 0 | | |
| 8.5 | 112.77 | 4291 | 1.03 | 40575 | 1 1 2 | | |
| 7.4 | 129.94 | 4941 | 0.89 | 42575 | 1 2 5 | | |
| 7.1 | 135.88 | 5164 | 0.81 | 42113 | 1 4 0 | | |

NOTE

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

## 4.0 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 17 | 56.93 | 2175 | 2.85 | 66700 | M1331 56._M____4.0C-- | 294 | 132M |
| 15 | 64.17 | 2455 | 2.53 | 66741 | 63. | | |
| 13 | 71.32 | 2705 | 2.35 | 66616 | 71. | | |
| 12 | 80.39 | 3049 | 2.08 | 66516 | 80. | | |
| 11 | 90.75 | 3439 | 1.8 | 66437 | 90. | | |
| 9.5 | 101.07 | 3827 | 1.62 | 66325 | 100 | | |
| 8.4 | 113.69 | 4290 | 1.48 | 65988 | 112 | | |
| 7.6 | 126.62 | 4774 | 1.33 | 65841 | 125 | | |
| 6.9 | 139.07 | 5230 | 1.24 | 65700 | 140 | | |
| 6.2 | 154.89 | 5819 | 1.11 | 65533 | 160 | | |
| 5.5 | 173.37 | 6546 | 0.97 | 65287 | 180 | | |
| 5.2 | 184.46 | 6978 | 0.91 | 65125 | 200 | | |
| 4.5 | 212.09 | 8000 | 0.81 | 64837 | 225 | | |
| 10 | 94.35 | 3580 | 3.1 | 80900 | M1431 90._M____4.0C-- | 423 | 132M |
| 9.4 | 102.23 | 3860 | 2.88 | 80900 | 100 | | |
| 7.7 | 124.89 | 4710 | 2.34 | 80900 | 112 | | |
| 7.1 | 135.31 | 5110 | 2.15 | 80900 | 125 | | |
| 6.7 | 142.66 | 5358 | 1.88 | 80900 | 140 | | |
| 6.2 | 154.57 | 5812 | 1.74 | 80900 | 160 | | |
| 5.2 | 185.56 | 7006 | 1.57 | 80900 | 180 | | |
| 4.6 | 208.15 | 7843 | 1.4 | 80798 | 200 | | |
| 4.5 | 211.96 | 7968 | 1.27 | 80775 | 225 | | |

## 5.5 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 399 | 3.58 | 127 | 1.59 | 4320 | M0422 3.6_M____5.5A-- | 70 | 132S |
| 284 | 5.04 | 179 | 1.32 | 4430 | 5.0 | | |
| 253 | 5.65 | 200 | 1.24 | 4470 | 5.6 | | |
| 226 | 6.34 | 226 | 1.16 | 4510 | 6.3 | | |
| 178 | 8.05 | 287 | 1.01 | 4560 | 8.0 | | |
| 157 | 9.13 | 325 | 0.92 | 4570 | 9.0 | | |
| 399 | 3.58 | 127 | 2.3 | 4160 | M0522 3.6_M____5.5A-- | 70 | 132S |
| 284 | 5.04 | 180 | 2.12 | 4270 | 5.0 | | |
| 253 | 5.65 | 201 | 2.04 | 4310 | 5.6 | | |
| 226 | 6.34 | 225 | 1.83 | 4340 | 6.3 | | |
| 178 | 8.05 | 287 | 1.56 | 4390 | 8.0 | | |
| 157 | 9.13 | 326 | 1.38 | 4400 | 9.0 | | |
| 131 | 10.89 | 389 | 1.16 | 4390 | 11. | | |
| 114 | 12.54 | 447 | 0.95 | 4350 | 12. | | |
| 98 | 14.58 | 520 | 0.86 | 3970 | 14. | | |
| 322 | 4.44 | 157 | 2.3 | 7200 | M0622 5.0_M____5.5A-- | 75 | 132S |
| 229 | 6.24 | 223 | 2.12 | 7200 | 5.6 | | |
| 204 | 6.99 | 249 | 2.04 | 7200 | 6.3 | | |
| 182 | 7.85 | 279 | 1.83 | 7200 | 8.0 | | |
| 143 | 9.97 | 356 | 1.67 | 7200 | 9.0 | | |
| 127 | 11.3 | 403 | 1.5 | 7200 | 11. | | |
| 106 | 13.48 | 480 | 1.27 | 7200 | 12. | | |
| 92 | 15.52 | 554 | 0.95 | 7200 | 14. | | |
| 79 | 18.05 | 644 | 0.93 | 7200 | 16. | | |
| 71 | 20.2 | 719 | 0.87 | 7200 | 18. | | |
| 66 | 21.53 | 767 | 0.82 | 7200 | 20. | | |
| 392 | 3.68 | 129 | 2.37 | 7393 | M0722 3.6_M____5.5A-- | 88 | 132S |
| 283 | 5.09 | 179 | 2.37 | 7647 | 5.0 | | |
| 252 | 5.72 | 201 | 2.37 | 7709 | 5.6 | | |
| 229 | 6.29 | 221 | 2.37 | 7732 | 6.3 | | |
| 175 | 8.22 | 292 | 2.17 | 7722 | 8.0 | | |
| 154 | 9.34 | 330 | 2 | 7667 | 9.0 | | |
| 127 | 11.35 | 401 | 1.78 | 6273 | 11. | | |
| 115 | 12.48 | 441 | 1.67 | 5948 | 12. | | |
| 100 | 14.34 | 507 | 1.49 | 5604 | 14. | | |
| 89 | 16.26 | 574 | 1.37 | 5840 | 16. | | |
| 80 | 17.94 | 634 | 1.25 | 6791 | 18. | | |
| 70 | 20.54 | 725 | 1.11 | 6178 | 20. | | |
| 62 | 23.23 | 818 | 0.99 | 3751 | 22. | | |
| 53 | 26.93 | 949 | 0.87 | 2400 | 28. | | |
| 173 | 8.33 | 295 | 3.95 | 15336 | M0822 8.0_M____5.5A-- | 121 | 132S |
| 154 | 9.35 | 331 | 3.68 | 15648 | 9.0 | | |
| 126 | 11.47 | 405 | 3.23 | 16175 | 11. | | |
| 111 | 12.92 | 455 | 2.94 | 16393 | 12. | | |
| 96 | 15.04 | 534 | 2.65 | 16821 | 14. | | |
| 86 | 16.69 | 586 | 2.42 | 15526 | 16. | | |
| 79 | 18.26 | 643 | 2.11 | 15166 | 18. | | |
| 70 | 20.66 | 728 | 2 | 15150 | 20. | | |
| 62 | 23.32 | 828 | 1.86 | 15130 | 22. | | |
| 51 | 28.27 | 994 | 1.6 | 14463 | 28. | | |
| 44 | 32.97 | 1161 | 1.4 | 13907 | 32. | | |
| 40 | 36.21 | 1274 | 1.29 | 13107 | 36. | | |
| 32 | 44.38 | 1562 | 1.06 | 13268 | 45. | | |
| 30 | 48.46 | 1704 | 0.97 | 12097 | 50. | | |

NOTE

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

**5.5 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 70 | 20.59 | 728 | 3.88 | 25256 | M 0 9 2 1 2 0 . _ M _ _ _ _ 5 . 5 A - - | 162 | 132S |
| 63 | 22.87 | 812 | 3.52 | 26068 | 2 2 . | | |
| 55 | 26.04 | 919 | 2.87 | 26609 | 2 5 . | | |
| 50 | 28.74 | 1015 | 2.6 | 27177 | 2 8 . | | |
| 45 | 32.31 | 1147 | 2.02 | 28168 | 3 2 . | | |
| 40 | 35.67 | 1258 | 1.86 | 27558 | 3 6 . | | |
| 36 | 40.25 | 1421 | 1.74 | 28377 | 4 0 . | | |
| 32 | 44.44 | 1570 | 1.57 | 29107 | 4 5 . | | |
| 29 | 49.07 | 1729 | 1.4 | 29046 | 5 0 . | | |
| 26 | 55.18 | 1939 | 1.04 | 28919 | 5 6 . | | |
| 24 | 61.13 | 2154 | 1.15 | 28821 | 6 3 . | | |
| 21 | 68.74 | 2416 | 1.02 | 28624 | 7 1 . | | |
| 48 | 29.99 | 1059 | 3.56 | 38534 | M 1 0 2 1 2 8 . _ M _ _ _ _ 5 . 5 A - - | 208 | 132S |
| 41 | 35.44 | 1252 | 3.52 | 40553 | 3 6 . | | |
| 39 | 37.06 | 1309 | 3.18 | 41131 | 4 0 . | | |
| 34 | 42.7 | 1505 | 2.76 | 42931 | 4 5 . | | |
| 30 | 47.93 | 1681 | 2.49 | 44336 | 5 0 . | | |
| 28 | 51.49 | 1816 | 2.13 | 45266 | 5 6 . | | |
| 25 | 57.75 | 2020 | 2.06 | 46900 | 6 3 . | | |
| 23 | 62.05 | 2173 | 1.91 | 47854 | 7 1 . | | |
| 24 | 60.23 | 2100 | 1.79 | 29277 | M 1 0 3 1 5 6 . _ M _ _ _ _ 5 . 5 A - - | 235 | 132S |
| 22 | 66.93 | 2332 | 1.62 | 29277 | 6 3 . | | |
| 20 | 71.17 | 2479 | 1.78 | 29277 | 7 1 . | | |
| 18 | 79.08 | 2753 | 1.6 | 46853 | 8 0 . | | |
| 15 | 95.44 | 3329 | 1.13 | 45738 | 9 0 . | | |
| 13 | 109.97 | 3831 | 0.98 | 44866 | 1 0 0 | | |
| 13 | 112.77 | 3926 | 1.12 | 44866 | 1 1 2 | | |
| 11 | 129.94 | 4522 | 0.98 | 43934 | 1 2 5 | | |
| 11 | 135.88 | 4711 | 0.88 | 43739 | 1 4 0 | | |
| 25 | 56.93 | 1981 | 3.12 | 66701 | M 1 3 3 1 5 6 . _ M _ _ _ _ 5 . 5 A - - | 290 | 132S |
| 22 | 64.17 | 2244 | 2.76 | 66848 | 6 3 . | | |
| 20 | 71.32 | 2476 | 2.56 | 66731 | 7 1 . | | |
| 18 | 80.39 | 2791 | 2.28 | 66754 | 8 0 . | | |
| 16 | 90.75 | 3150 | 1.97 | 66650 | 9 0 . | | |
| 14 | 101.07 | 3507 | 1.77 | 66477 | 1 0 0 | | |
| 13 | 113.69 | 3929 | 1.62 | 66161 | 1 1 2 | | |
| 11 | 126.62 | 4374 | 1.45 | 65938 | 1 2 5 | | |
| 10 | 139.07 | 4789 | 1.35 | 65838 | 1 4 0 | | |
| 9.3 | 154.89 | 5331 | 1.21 | 65715 | 1 6 0 | | |
| 8.3 | 173.37 | 6001 | 1.06 | 65436 | 1 8 0 | | |
| 7.8 | 184.46 | 6394 | 0.99 | 65336 | 2 0 0 | | |
| 6.8 | 212.09 | 7316 | 0.88 | 65042 | 2 2 5 | | |
| 17 | 86.76 | 3000 | 3.67 | 80900 | M 1 4 3 1 8 0 . _ M _ _ _ _ 5 . 5 A - - | 419 | 132S |
| 15 | 94.35 | 3269 | 3.39 | 80900 | 9 0 . | | |
| 14 | 102.23 | 3553 | 3.12 | 80900 | 1 0 0 | | |
| 12 | 124.89 | 4320 | 2.55 | 80900 | 1 1 2 | | |
| 11 | 135.31 | 4686 | 2.35 | 80900 | 1 2 5 | | |
| 10 | 142.66 | 4906 | 2.06 | 80900 | 1 4 0 | | |
| 9.3 | 154.57 | 5327 | 1.9 | 80900 | 1 6 0 | | |
| 7.8 | 185.56 | 6419 | 1.71 | 80900 | 1 8 0 | | |
| 6.9 | 208.15 | 7183 | 1.53 | 80900 | 2 0 0 | | |
| 6.8 | 211.96 | 7302 | 1.38 | 80900 | 2 2 5 | | |
| 5.8 | 246.73 | 8476 | 1.25 | 80613 | M 1 4 4 1 2 2 5 _ M _ _ _ _ 5 . 5 A - - | 442 | 132S |
| 5.3 | 271.4 | 9321 | 1.14 | 80613 | 2 5 0 | | |
| 4.6 | 311.86 | 10705 | 0.99 | 80613 | 2 8 0 | | |
| 4 | 353.64 | 12121 | 0.87 | 80613 | 3 0 0 | | |

NOTE

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

**5.5 kW**

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 761 | 1.26 | 68 | 1.57 | 4600 | M 0 7 1 2 1 . 2 _ M _ _ _ _ 5 . 5 C - - | 78 | 132M |
| 261 | 3.68 | 195 | 1.57 | 7690 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 5 . 5 C - - | 92 | 132M |
| 188 | 5.09 | 270 | 1.57 | 8020 | 5 . 0 | | |
| 168 | 5.72 | 303 | 1.57 | 8120 | 5 . 6 | | |
| 153 | 6.29 | 334 | 1.57 | 8180 | 6 . 3 | | |
| 117 | 8.22 | 436 | 1.57 | 7200 | 8 . 0 | | |
| 103 | 9.34 | 495 | 1.5 | 6720 | 9 . 0 | | |
| 85 | 11.35 | 602 | 1.28 | 5860 | 1 1 . | | |
| 77 | 12.48 | 662 | 1.2 | 5320 | 1 2 . | | |
| 67 | 14.34 | 760 | 1.06 | 4379 | 1 4 . | | |
| 59 | 16.26 | 861 | 0.95 | 3369 | 1 6 . | | |
| 54 | 17.94 | 952 | 0.87 | 2409 | 1 8 . | | |
| 261 | 3.68 | 195 | 3.16 | 14328 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 5 . 5 C - - | 125 | 132M |
| 184 | 5.21 | 276 | 3.16 | 15164 | 5 . 0 | | |
| 166 | 5.79 | 307 | 3.16 | 15442 | 5 . 6 | | |
| 149 | 6.44 | 341 | 3.16 | 15614 | 6 . 3 | | |
| 115 | 8.33 | 442 | 2.89 | 15800 | 8 . 0 | | |
| 103 | 9.35 | 494 | 2.69 | 15821 | 9 . 0 | | |
| 84 | 11.47 | 609 | 2.35 | 15777 | 1 1 . | | |
| 74 | 12.92 | 685 | 2.15 | 15980 | 1 2 . | | |
| 64 | 15.04 | 796 | 1.95 | 15225 | 1 4 . | | |
| 58 | 16.69 | 882 | 1.61 | 15146 | 1 6 . | | |
| 53 | 18.26 | 966 | 1.41 | 13651 | 1 8 . | | |
| 46 | 20.66 | 1094 | 1.33 | 12713 | 2 0 . | | |
| 41 | 23.32 | 1238 | 1.24 | 12500 | 2 2 . | | |
| 34 | 28.27 | 1495 | 1.1 | 12500 | 2 8 . | | |
| 29 | 32.97 | 1741 | 0.95 | 8500 | 3 2 . | | |
| 27 | 36.21 | 1914 | 0.86 | 6963 | 3 6 . | | |
| 66 | 14.53 | 774 | 3.69 | 25700 | M 0 9 2 1 1 4 . _ M _ _ _ _ 5 . 5 C - - | 166 | 132M |
| 58 | 16.59 | 885 | 2.98 | 25816 | 1 6 . | | |
| 52 | 18.43 | 981 | 2.69 | 26386 | 1 8 . | | |
| 47 | 20.59 | 1100 | 2.6 | 27367 | 2 0 . | | |
| 42 | 22.87 | 1219 | 2.35 | 27621 | 2 2 . | | |
| 37 | 26.04 | 1382 | 1.91 | 26812 | 2 5 . | | |
| 33 | 28.74 | 1526 | 1.73 | 26437 | 2 8 . | | |
| 30 | 32.31 | 1715 | 1.55 | 26375 | 3 2 . | | |
| 27 | 35.67 | 1894 | 1.42 | 25795 | 3 6 . | | |
| 24 | 40.25 | 2132 | 1.16 | 26575 | 4 0 . | | |
| 22 | 44.44 | 2354 | 1.05 | 28690 | 4 5 . | | |
| 20 | 49.07 | 2595 | 1.07 | 28030 | 5 0 . | | |
| 32 | 29.99 | 1595 | 2.36 | 42700 | M 1 0 2 1 2 8 . _ M _ _ _ _ 5 . 5 C - - | 212 | 132M |
| 31 | 30.76 | 1627 | 2.71 | 43141 | 3 2 . | | |
| 27 | 35.44 | 1880 | 2.35 | 44541 | 3 6 . | | |
| 26 | 37.06 | 1955 | 2.13 | 45717 | 4 0 . | | |
| 22 | 42.7 | 2265 | 1.84 | 47316 | 4 5 . | | |
| 20 | 47.93 | 2528 | 1.67 | 46245 | 5 0 . | | |
| 19 | 51.49 | 2714 | 1.43 | 46800 | 5 6 . | | |
| 17 | 57.75 | 3042 | 1.37 | 46437 | 6 3 . | | |
| 15 | 62.05 | 3259 | 1.28 | 46050 | 7 1 . | | |
| 16 | 60.23 | 3156 | 1.19 | 49200 | M 1 0 3 1 5 6 . _ M _ _ _ _ 5 . 5 C - - | 239 | 132M |
| 14 | 66.93 | 3508 | 1.07 | 49000 | 6 3 . | | |
| 13 | 71.17 | 3725 | 1.18 | 48900 | 7 1 . | | |
| 12 | 79.08 | 4139 | 1.07 | 44490 | 8 0 . | | |
| 27 | 35.52 | 1867 | 3.4 | 66700 | M 1 3 2 1 3 6 . _ M _ _ _ _ 5 . 5 C - - | 272 | 132M |
| 25 | 39.01 | 2041 | 3.16 | 66700 | 4 0 . | | |
| 22 | 43.45 | 2277 | 2.84 | 66600 | 4 5 . | | |
| 24 | 39.93 | 2094 | 2.84 | 66700 | M 1 3 3 1 4 0 . _ M _ _ _ _ 5 . 5 C - - | 294 | 132M |
| 22 | 44.18 | 2312 | 2.75 | 66600 | 4 5 . | | |
| 19 | 50.02 | 2606 | 2.44 | 66500 | 5 0 . | | |
| 17 | 56.93 | 2991 | 2.07 | 66637 | 5 6 . | | |
| 15 | 64.17 | 3376 | 1.84 | 66654 | 6 3 . | | |
| 13 | 71.32 | 3719 | 1.71 | 66491 | 7 1 . | | |
| 12 | 80.39 | 4192 | 1.51 | 66391 | 8 0 . | | |
| 11 | 90.75 | 4729 | 1.31 | 66193 | 9 0 . | | |
| 9.5 | 101.07 | 5262 | 1.18 | 66062 | 1 0 0 | | |
| 8.4 | 113.69 | 5899 | 1.08 | 65479 | 1 1 2 | | |
| 7.6 | 126.62 | 6564 | 0.97 | 65266 | 1 2 5 | | |
| 6.9 | 139.07 | 7192 | 0.9 | 65100 | 1 4 0 | | |
| 6.2 | 154.89 | 8002 | 0.81 | 64833 | 1 6 0 | | |
| 16 | 59.46 | 3098 | 3.58 | 80900 | M 1 4 3 1 5 6 . _ M _ _ _ _ 5 . 5 C - - | 423 | 132M |
| 15 | 65.55 | 3429 | 3.24 | 80900 | 6 3 . | | |
| 12 | 78.7 | 4087 | 2.69 | 80900 | 7 1 . | | |
| 11 | 86.76 | 4514 | 2.44 | 80900 | 8 0 . | | |
| 10 | 94.35 | 4923 | 2.25 | 80900 | 9 0 . | | |
| 9.4 | 102.23 | 5308 | 2.09 | 80900 | 1 0 0 | | |
| 7.7 | 124.89 | 6477 | 1.7 | 80900 | 1 1 2 | | |
| 7.1 | 135.31 | 7026 | 1.57 | 80900 | 1 2 5 | | |
| 6.7 | 142.66 | 7367 | 1.37 | 80900 | 1 4 0 | | |
| 6.2 | 154.57 | 7992 | 1.26 | 80900 | 1 6 0 | | |
| 5.2 | 185.56 | 9633 | 1.14 | 80900 | 1 8 0 | | |
| 4.6 | 208.15 | 10784 | 1.02 | 80713 | 2 0 0 | | |
| 4.5 | 211.96 | 10956 | 0.92 | 80700 | 2 2 5 | | |

NOTE

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

**7.5 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 393 | 3.68 | 175 | 1.74 | 7265 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 7 . 5 A - - | 92 | 132M |
| 284 | 5.09 | 244 | 1.74 | 7470 | 5 . 0 | | |
| 253 | 5.72 | 274 | 1.74 | 7415 | 5 . 6 | | |
| 230 | 6.29 | 301 | 1.74 | 7310 | 6 . 3 | | |
| 176 | 8.22 | 396 | 1.59 | 6860 | 8 . 0 | | |
| 155 | 9.34 | 449 | 1.47 | 6545 | 9 . 0 | | |
| 127 | 11.35 | 545 | 1.31 | 5134 | 1 1 . | | |
| 116 | 12.48 | 599 | 1.23 | 4621 | 1 2 . | | |
| 101 | 14.34 | 689 | 1.1 | 3952 | 1 4 . | | |
| 89 | 16.26 | 780 | 1.01 | 4148 | 1 6 . | | |
| 81 | 17.94 | 862 | 0.92 | 5440 | 1 8 . | | |
| 70 | 20.54 | 985 | 0.82 | 4570 | 2 0 . | | |
| 393 | 3.68 | 175 | 3.49 | 13458 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 7 . 5 A - - | 125 | 132M |
| 277 | 5.21 | 250 | 3.49 | 13997 | 5 . 0 | | |
| 249 | 5.79 | 278 | 3.49 | 14177 | 5 . 6 | | |
| 224 | 6.44 | 311 | 3.37 | 14357 | 6 . 3 | | |
| 173 | 8.33 | 402 | 2.91 | 14612 | 8 . 0 | | |
| 155 | 9.35 | 450 | 2.71 | 14670 | 9 . 0 | | |
| 126 | 11.47 | 550 | 2.38 | 14656 | 1 1 . | | |
| 112 | 12.92 | 618 | 2.17 | 14523 | 1 2 . | | |
| 96 | 15.04 | 726 | 1.95 | 14395 | 1 4 . | | |
| 87 | 16.69 | 797 | 1.78 | 13028 | 1 6 . | | |
| 79 | 18.26 | 874 | 1.55 | 12740 | 1 8 . | | |
| 70 | 20.66 | 989 | 1.47 | 12230 | 2 0 . | | |
| 62 | 23.32 | 1125 | 1.37 | 11635 | 2 2 . | | |
| 51 | 28.27 | 1352 | 1.18 | 10034 | 2 8 . | | |
| 44 | 32.97 | 1578 | 1.03 | 10100 | 3 2 . | | |
| 40 | 36.21 | 1731 | 0.95 | 8800 | 3 6 . | | |
| 113 | 12.74 | 615 | 3.93 | 22600 | M 0 9 2 1 1 2 . _ M _ _ _ _ 7 . 5 A - - | 166 | 132M |
| 99 | 14.53 | 702 | 3.6 | 23200 | 1 4 . | | |
| 87 | 16.59 | 801 | 3.27 | 23212 | 1 6 . | | |
| 78 | 18.43 | 886 | 2.98 | 23415 | 1 8 . | | |
| 70 | 20.59 | 990 | 2.86 | 24134 | 2 0 . | | |
| 63 | 22.87 | 1103 | 2.59 | 24702 | 2 2 . | | |
| 55 | 26.04 | 1249 | 2.11 | 25554 | 2 5 . | | |
| 50 | 28.74 | 1379 | 1.91 | 25813 | 2 8 . | | |
| 45 | 32.31 | 1558 | 1.49 | 26659 | 3 2 . | | |
| 41 | 35.67 | 1709 | 1.37 | 25925 | 3 6 . | | |
| 36 | 40.25 | 1932 | 1.28 | 27400 | 4 0 . | | |
| 33 | 44.44 | 2134 | 1.16 | 28800 | 4 5 . | | |
| 29 | 49.07 | 2350 | 1.03 | 28700 | 5 0 . | | |
| 56 | 26.03 | 1249 | 3.02 | 36300 | M 1 0 2 1 2 5 . _ M _ _ _ _ 7 . 5 A - - | 212 | 132M |
| 48 | 29.99 | 1440 | 2.62 | 37839 | 2 8 . | | |
| 47 | 30.76 | 1475 | 2.99 | 38185 | 3 2 . | | |
| 41 | 35.44 | 1702 | 2.59 | 39480 | 3 6 . | | |
| 39 | 37.06 | 1778 | 2.34 | 40372 | 4 0 . | | |
| 34 | 42.7 | 2046 | 2.03 | 42040 | 4 5 . | | |
| 30 | 47.93 | 2285 | 1.83 | 43318 | 5 0 . | | |
| 28 | 51.49 | 2468 | 1.57 | 44200 | 5 6 . | | |
| 25 | 57.75 | 2746 | 1.51 | 45700 | 6 3 . | | |
| 23 | 62.05 | 2953 | 1.41 | 46576 | 7 1 . | | |
| 24 | 60.23 | 2854 | 1.32 | 29100 | M 1 0 3 1 5 6 . _ M _ _ _ _ 7 . 5 A - - | 239 | 132M |
| 22 | 66.93 | 3170 | 1.19 | 29100 | 6 3 . | | |
| 20 | 71.17 | 3369 | 1.31 | 29100 | 7 1 . | | |
| 18 | 79.08 | 3741 | 1.18 | 45200 | 8 0 . | | |
| 15 | 95.44 | 4525 | 0.83 | 43700 | 9 0 . | | |
| 13 | 112.77 | 5335 | 0.83 | 42500 | 1 1 2 | | |
| 41 | 35.52 | 1688 | 3.76 | 66500 | M 1 3 2 1 3 6 . _ M _ _ _ _ 7 . 5 A - - | 272 | 132M |
| 37 | 39.01 | 1855 | 3.48 | 66800 | 4 0 . | | |
| 33 | 43.45 | 2060 | 3.14 | 66700 | 4 5 . | | |
| 25 | 56.93 | 2692 | 2.3 | 66670 | M 1 3 3 1 5 6 . _ M _ _ _ _ 7 . 5 A - - | 294 | 132M |
| 23 | 64.17 | 3049 | 2.03 | 66779 | 6 3 . | | |
| 20 | 71.32 | 3365 | 1.89 | 66640 | 7 1 . | | |
| 18 | 80.39 | 3792 | 1.67 | 66637 | 8 0 . | | |
| 16 | 90.75 | 4280 | 1.45 | 66450 | 9 0 . | | |
| 14 | 101.07 | 4766 | 1.3 | 66300 | 1 0 0 | | |
| 13 | 113.69 | 5339 | 1.19 | 65700 | 1 1 2 | | |
| 11 | 126.62 | 5944 | 1.07 | 65400 | 1 2 5 | | |
| 10 | 139.07 | 6508 | 0.99 | 65300 | 1 4 0 | | |
| 9.3 | 154.89 | 7245 | 0.89 | 65100 | 1 6 0 | | |
| 24 | 59.46 | 2812 | 3.73 | 66400 | M 1 4 3 1 5 6 . _ M _ _ _ _ 7 . 5 A - - | 423 | 132M |
| 22 | 65.55 | 3097 | 3.45 | 66400 | 6 3 . | | |
| 18 | 78.7 | 3712 | 2.96 | 66400 | 7 1 . | | |
| 17 | 86.76 | 4078 | 2.7 | 80900 | 8 0 . | | |
| 15 | 94.35 | 4443 | 2.5 | 80900 | 9 0 . | | |
| 14 | 102.23 | 4828 | 2.3 | 80900 | 1 0 0 | | |
| 12 | 124.89 | 5871 | 1.87 | 80900 | 1 1 2 | | |
| 11 | 135.31 | 6368 | 1.73 | 80900 | 1 2 5 | | |
| 10 | 142.66 | 6667 | 1.51 | 80900 | 1 4 0 | | |
| 9.3 | 154.57 | 7239 | 1.4 | 80900 | 1 6 0 | | |
| 7.8 | 185.56 | 8723 | 1.26 | 80900 | 1 8 0 | | |
| 6.9 | 208.15 | 9762 | 1.13 | 80900 | 2 0 0 | | |
| 6.8 | 211.96 | 9923 | 1.02 | 80900 | 2 2 5 | | |

NOTE

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

**7.5 kW**

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 261 | 3.68 | 265 | 2.32 | 14100 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 7 . 5 C - - | 159 | 160M |
| 184 | 5.21 | 377 | 2.32 | 14850 | 5 . 0 | | |
| 166 | 5.79 | 419 | 2.32 | 15100 | 5 . 6 | | |
| 149 | 6.44 | 465 | 2.32 | 15100 | 6 . 3 | | |
| 115 | 8.33 | 603 | 2.12 | 14600 | 8 . 0 | | |
| 103 | 9.35 | 673 | 1.97 | 14250 | 9 . 0 | | |
| 84 | 11.47 | 831 | 1.72 | 13480 | 1 1 . | | |
| 74 | 12.92 | 934 | 1.57 | 13155 | 1 2 . | | |
| 64 | 15.04 | 1086 | 1.43 | 11965 | 1 4 . | | |
| 58 | 16.69 | 1203 | 1.18 | 11344 | 1 6 . | | |
| 53 | 18.26 | 1317 | 1.03 | 9803 | 1 8 . | | |
| 46 | 20.66 | 1491 | 0.98 | 8297 | 2 0 . | | |
| 41 | 23.32 | 1688 | 0.91 | 7954 | 2 2 . | | |
| 34 | 28.27 | 2038 | 0.81 | 7954 | 2 8 . | | |
| 117 | 8.22 | 597 | 3.95 | 22500 | M 0 9 2 1 8 . 0 _ M _ _ _ _ 7 . 5 C - - | 200 | 160M |
| 104 | 9.19 | 668 | 3.67 | 23000 | 9 . 0 | | |
| 94 | 10.27 | 747 | 3.39 | 23300 | 1 0 . | | |
| 82 | 11.71 | 849 | 3.11 | 22983 | 1 1 . | | |
| 75 | 12.74 | 925 | 2.96 | 23358 | 1 2 . | | |
| 66 | 14.53 | 1056 | 2.71 | 24062 | 1 4 . | | |
| 58 | 16.59 | 1207 | 2.19 | 24105 | 1 6 . | | |
| 52 | 18.43 | 1337 | 1.97 | 24368 | 1 8 . | | |
| 47 | 20.59 | 1500 | 1.91 | 25190 | 2 0 . | | |
| 42 | 22.87 | 1662 | 1.72 | 25117 | 2 2 . | | |
| 37 | 26.04 | 1885 | 1.4 | 24662 | 2 5 . | | |
| 33 | 28.74 | 2082 | 1.27 | 23987 | 2 8 . | | |
| 30 | 32.31 | 2338 | 1.14 | 23875 | 3 2 . | | |
| 27 | 35.67 | 2583 | 1.04 | 22912 | 3 6 . | | |
| 24 | 40.25 | 2908 | 0.85 | 24802 | 4 0 . | | |
| 58 | 16.43 | 1193 | 3.16 | 35800 | M 1 0 2 1 1 6 . _ M _ _ _ _ 7 . 5 C - - | 246 | 160M |
| 53 | 18.25 | 1321 | 2.85 | 36900 | 1 8 . | | |
| 49 | 19.41 | 1407 | 3.13 | 37700 | 2 0 . | | |
| 45 | 21.57 | 1560 | 2.83 | 38800 | 2 2 . | | |
| 37 | 26.03 | 1885 | 2 | 40900 | 2 5 . | | |
| 32 | 29.99 | 2175 | 1.73 | 40566 | 2 8 . | | |
| 31 | 30.76 | 2219 | 1.99 | 41063 | 3 2 . | | |
| 27 | 35.44 | 2563 | 1.72 | 41797 | 3 6 . | | |
| 26 | 37.06 | 2666 | 1.56 | 43606 | 4 0 . | | |
| 22 | 42.7 | 3089 | 1.35 | 45650 | 4 5 . | | |
| 20 | 47.93 | 3447 | 1.22 | 43962 | 5 0 . | | |
| 19 | 51.49 | 3702 | 1.05 | 45163 | 5 6 . | | |
| 17 | 57.75 | 4148 | 1 | 44642 | 6 3 . | | |
| 15 | 62.05 | 4444 | 0.94 | 44140 | 7 1 . | | |
| 16 | 60.23 | 4303 | 0.88 | 49200 | M 1 0 3 1 5 6 . _ M _ _ _ _ 7 . 5 C - - | 272 | 160M |
| 13 | 71.17 | 5080 | 0.87 | 48900 | 7 1 . | | |
| 38 | 25.45 | 1830 | 3.39 | 66800 | M 1 3 2 1 2 5 . _ M _ _ _ _ 7 . 5 C - - | 307 | 160M |
| 34 | 28.35 | 2039 | 3.04 | 66700 | 2 8 . | | |
| 30 | 31.89 | 2289 | 2.77 | 66600 | 3 2 . | | |
| 27 | 35.52 | 2546 | 2.49 | 65973 | 3 6 . | | |
| 25 | 39.01 | 2784 | 2.32 | 65712 | 4 0 . | | |
| 22 | 43.45 | 3105 | 2.08 | 66345 | 4 5 . | | |
| 24 | 39.93 | 2855 | 2.08 | 66700 | M 1 3 3 1 4 0 . _ M _ _ _ _ 7 . 5 C - - | 329 | 160M |
| 22 | 44.18 | 3153 | 2.01 | 66600 | 4 5 . | | |
| 19 | 50.02 | 3554 | 1.79 | 66500 | 5 0 . | | |
| 17 | 56.93 | 4078 | 1.52 | 66555 | 5 6 . | | |
| 15 | 64.17 | 4603 | 1.35 | 66538 | 6 3 . | | |
| 13 | 71.32 | 5071 | 1.25 | 66325 | 7 1 . | | |
| 12 | 80.39 | 5717 | 1.11 | 66225 | 8 0 . | | |
| 11 | 90.75 | 6449 | 0.96 | 65868 | 9 0 . | | |
| 9.5 | 101.07 | 7175 | 0.86 | 65712 | 1 0 0 | | |
| 24 | 39.42 | 2815 | 3.59 | 80900 | M 1 4 2 1 4 0 . _ M _ _ _ _ 7 . 5 C - - | 415 | 160M |
| 22 | 42.71 | 3054 | 3.31 | 80900 | 4 5 . | | |
| 23 | 41.36 | 2960 | 3.55 | 66400 | M 1 4 3 1 4 0 . _ M _ _ _ _ 7 . 5 C - - | 460 | 160M |
| 20 | 48.21 | 3423 | 3.21 | 66400 | 4 5 . | | |
| 18 | 54.75 | 3891 | 2.83 | 66400 | 5 0 . | | |
| 16 | 59.46 | 4225 | 2.63 | 80900 | 5 6 . | | |
| 15 | 65.55 | 4676 | 2.37 | 80900 | 6 3 . | | |
| 12 | 78.7 | 5574 | 1.97 | 80900 | 7 1 . | | |
| 11 | 86.76 | 6156 | 1.79 | 80900 | 8 0 . | | |
| 10 | 94.35 | 6713 | 1.65 | 80900 | 9 0 . | | |
| 9.4 | 102.23 | 7239 | 1.53 | 80900 | 1 0 0 | | |
| 7.7 | 124.89 | 8832 | 1.25 | 80900 | 1 1 2 | | |
| 7.1 | 135.31 | 9581 | 1.15 | 80900 | 1 2 5 | | |
| 6.7 | 142.66 | 10046 | 1.01 | 80900 | 1 4 0 | | |
| 6.2 | 154.57 | 10899 | 0.93 | 80900 | 1 6 0 | | |
| 5.2 | 185.56 | 13136 | 0.84 | 80900 | 1 8 0 | | |

NOTE

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

**11.0 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 392 | 3.68 | 258 | 1.18 | 7040 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 1 1 . A - - | 128 | 160M |
| 283 | 5.09 | 359 | 1.18 | 7160 | 5 . 0 | | |
| 252 | 5.72 | 403 | 1.18 | 6900 | 5 . 6 | | |
| 229 | 6.29 | 443 | 1.18 | 6570 | 6 . 3 | | |
| 175 | 8.22 | 584 | 1.08 | 5350 | 8 . 0 | | |
| 154 | 9.34 | 661 | 1 | 4580 | 9 . 0 | | |
| 394 | 3.68 | 257 | 2.39 | 13197 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 1 1 . A - - | 159 | 160M |
| 278 | 5.21 | 365 | 2.39 | 13625 | 5 . 0 | | |
| 250 | 5.79 | 406 | 2.39 | 13768 | 5 . 6 | | |
| 225 | 6.44 | 454 | 2.31 | 13910 | 6 . 3 | | |
| 174 | 8.33 | 587 | 1.99 | 13346 | 8 . 0 | | |
| 155 | 9.35 | 657 | 1.85 | 12957 | 9 . 0 | | |
| 126 | 11.47 | 805 | 1.63 | 11998 | 1 1 . | | |
| 112 | 12.92 | 904 | 1.48 | 11250 | 1 2 . | | |
| 96 | 15.04 | 1062 | 1.34 | 10151 | 1 4 . | | |
| 87 | 16.69 | 1165 | 1.22 | 8656 | 1 6 . | | |
| 79 | 18.26 | 1278 | 1.06 | 8493 | 1 8 . | | |
| 70 | 20.66 | 1446 | 1.01 | 7120 | 2 0 . | | |
| 62 | 23.32 | 1644 | 0.94 | 5517 | 2 2 . | | |
| 51 | 28.27 | 1976 | 0.8 | 2284 | 2 8 . | | |
| 196 | 7.4 | 522 | 3.83 | 20209 | M 0 9 2 1 7 . 1 _ M _ _ _ _ 1 1 . A - - | 200 | 160M |
| 176 | 8.22 | 579 | 3.59 | 20624 | 8 . 0 | | |
| 158 | 9.19 | 648 | 3.35 | 21072 | 9 . 0 | | |
| 141 | 10.27 | 726 | 3.08 | 20720 | 1 0 . | | |
| 124 | 11.71 | 827 | 2.83 | 21211 | 1 1 . | | |
| 114 | 12.74 | 899 | 2.69 | 21464 | 1 2 . | | |
| 100 | 14.53 | 1026 | 2.46 | 21675 | 1 4 . | | |
| 87 | 16.59 | 1171 | 2.24 | 21760 | 1 6 . | | |
| 79 | 18.43 | 1296 | 2.04 | 21601 | 1 8 . | | |
| 70 | 20.59 | 1447 | 1.95 | 22170 | 2 0 . | | |
| 63 | 22.87 | 1613 | 1.77 | 22312 | 2 2 . | | |
| 56 | 26.04 | 1826 | 1.45 | 23709 | 2 5 . | | |
| 50 | 28.74 | 2016 | 1.31 | 23427 | 2 8 . | | |
| 45 | 32.31 | 2278 | 1.02 | 24018 | 3 2 . | | |
| 41 | 35.67 | 2499 | 0.94 | 23066 | 3 6 . | | |
| 36 | 40.25 | 2824 | 0.87 | 25688 | 4 0 . | | |
| 88 | 16.43 | 1155 | 3.26 | 32215 | M 1 0 2 1 1 6 . _ M _ _ _ _ 1 1 . A - - | 246 | 160M |
| 79 | 18.25 | 1283 | 2.94 | 32896 | 1 8 . | | |
| 75 | 19.41 | 1362 | 3.24 | 33324 | 2 0 . | | |
| 67 | 21.57 | 1515 | 2.91 | 32667 | 2 2 . | | |
| 56 | 26.03 | 1826 | 2.06 | 35310 | 2 5 . | | |
| 48 | 29.99 | 2105 | 1.79 | 36623 | 2 8 . | | |
| 47 | 30.76 | 2156 | 2.05 | 37054 | 3 2 . | | |
| 41 | 35.44 | 2487 | 1.77 | 37602 | 3 6 . | | |
| 39 | 37.06 | 2600 | 1.6 | 39044 | 4 0 . | | |
| 34 | 42.7 | 2990 | 1.39 | 40481 | 4 5 . | | |
| 30 | 47.93 | 3339 | 1.25 | 41536 | 5 0 . | | |
| 28 | 51.49 | 3607 | 1.07 | 42333 | 5 6 . | | |
| 25 | 57.75 | 4014 | 1.04 | 43600 | 6 3 . | | |
| 23 | 62.05 | 4316 | 0.96 | 44339 | 7 1 . | | |
| 24 | 60.23 | 4172 | 0.9 | 28788 | M 1 0 3 1 5 6 . _ M _ _ _ _ 1 1 . A - - | 272 | 160M |
| 22 | 66.93 | 4633 | 0.81 | 28788 | 6 3 . | | |
| 20 | 71.17 | 4924 | 0.9 | 28788 | 7 1 . | | |
| 57 | 25.45 | 1780 | 3.48 | 60039 | M 1 3 2 1 2 5 . _ M _ _ _ _ 1 1 . A - - | 307 | 160M |
| 51 | 28.35 | 1982 | 3.13 | 61744 | 2 8 . | | |
| 45 | 31.89 | 2224 | 2.85 | 63271 | 3 2 . | | |
| 41 | 35.52 | 2468 | 2.57 | 65208 | 3 6 . | | |
| 37 | 39.01 | 2712 | 2.38 | 65228 | 4 0 . | | |
| 33 | 43.45 | 3011 | 2.15 | 66000 | 4 5 . | | |
| 36 | 39.93 | 2777 | 1.99 | 50560 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 1 . A - - | 329 | 160M |
| 33 | 44.18 | 3057 | 2.02 | 50560 | 4 5 . | | |
| 29 | 50.02 | 3453 | 1.83 | 50560 | 5 0 . | | |
| 25 | 56.93 | 3935 | 1.57 | 66616 | 5 6 . | | |
| 23 | 64.17 | 4457 | 1.39 | 66658 | 6 3 . | | |
| 20 | 71.32 | 4919 | 1.29 | 66481 | 7 1 . | | |
| 18 | 80.39 | 5543 | 1.15 | 66433 | 8 0 . | | |
| 16 | 90.75 | 6256 | 0.99 | 66100 | 9 0 . | | |
| 14 | 101.07 | 6966 | 0.89 | 65988 | 1 0 0 | | |
| 37 | 39.42 | 2740 | 3.63 | 80924 | M 1 4 2 1 4 0 . _ M _ _ _ _ 1 1 . A - - | 415 | 160M |
| 34 | 42.71 | 2964 | 3.37 | 80900 | 4 5 . | | |
| 35 | 41.36 | 2857 | 3.41 | 66432 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 1 . A - - | 460 | 160M |
| 30 | 48.21 | 3324 | 3.31 | 66432 | 4 5 . | | |
| 26 | 54.75 | 3769 | 2.92 | 66432 | 5 0 . | | |
| 24 | 59.46 | 4110 | 2.55 | 66275 | 5 6 . | | |
| 22 | 65.55 | 4526 | 2.36 | 66275 | 6 3 . | | |
| 18 | 78.7 | 5426 | 2.03 | 66206 | 7 1 . | | |
| 17 | 86.76 | 5960 | 1.85 | 80900 | 8 0 . | | |
| 15 | 94.35 | 6494 | 1.71 | 80900 | 9 0 . | | |
| 14 | 102.23 | 7057 | 1.57 | 80900 | 1 0 0 | | |
| 12 | 124.89 | 8581 | 1.28 | 80900 | 1 1 2 | | |
| 11 | 135.31 | 9307 | 1.18 | 80900 | 1 2 5 | | |
| 10 | 142.66 | 9745 | 1.04 | 80900 | 1 4 0 | | |
| 9.4 | 154.57 | 10580 | 0.95 | 80900 | 1 6 0 | | |

NOTE

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

## 11.0 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation (Column Entry 1 Through 20 — Spaces to be filled when entering order) | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 262 | 3.68 | 388 | 1.59 | 13700 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 1 1 . C - - | 173 | 160L |
| 185 | 5.21 | 550 | 1.59 | 14300 | 5 . 0 | | |
| 167 | 5.79 | 611 | 1.59 | 14500 | 5 . 6 | | |
| 150 | 6.44 | 679 | 1.59 | 14200 | 6 . 3 | | |
| 116 | 8.33 | 880 | 1.45 | 12500 | 8 . 0 | | |
| 103 | 9.35 | 983 | 1.35 | 11500 | 9 . 0 | | |
| 84 | 11.47 | 1213 | 1.18 | 9460 | 1 1 . | | |
| 75 | 12.92 | 1363 | 1.08 | 8210 | 1 2 . | | |
| 64 | 15.04 | 1585 | 0.98 | 6260 | 1 4 . | | |
| 58 | 16.69 | 1755 | 0.81 | 4690 | 1 6 . | | |
| 262 | 3.69 | 394 | 2.76 | 19200 | M 0 9 2 1 3 . 6 _ M _ _ _ _ 1 1 . C - - | 214 | 160L |
| 211 | 4.58 | 488 | 3.89 | 20000 | 4 . 5 | | |
| 190 | 5.07 | 538 | 3.67 | 20400 | 5 . 0 | | |
| 170 | 5.69 | 602 | 3.42 | 20800 | 5 . 6 | | |
| 146 | 6.63 | 702 | 3.09 | 21200 | 6 . 3 | | |
| 130 | 7.4 | 785 | 2.88 | 21135 | 7 . 1 | | |
| 117 | 8.22 | 872 | 2.7 | 21442 | 8 . 0 | | |
| 105 | 9.19 | 974 | 2.51 | 21615 | 9 . 0 | | |
| 94 | 10.27 | 1089 | 2.32 | 21371 | 1 0 . | | |
| 82 | 11.71 | 1239 | 2.13 | 20678 | 1 1 . | | |
| 76 | 12.74 | 1350 | 2.03 | 21011 | 1 2 . | | |
| 66 | 14.53 | 1541 | 1.86 | 21196 | 1 4 . | | |
| 58 | 16.59 | 1761 | 1.5 | 21111 | 1 6 . | | |
| 52 | 18.43 | 1951 | 1.35 | 20837 | 1 8 . | | |
| 47 | 20.59 | 2188 | 1.31 | 21381 | 2 0 . | | |
| 42 | 22.87 | 2426 | 1.18 | 20734 | 2 2 . | | |
| 37 | 26.04 | 2751 | 0.96 | 20900 | 2 5 . | | |
| 34 | 28.74 | 3037 | 0.87 | 19700 | 2 8 . | | |
| 91 | 10.59 | 1121 | 3.36 | 32000 | M 1 0 2 1 1 0 . _ M _ _ _ _ 1 1 . C - - | 260 | 160L |
| 81 | 11.98 | 1269 | 2.97 | 32600 | 1 1 . | | |
| 77 | 12.51 | 1322 | 3.33 | 32900 | 1 2 . | | |
| 68 | 14.16 | 1498 | 2.94 | 33600 | 1 4 . | | |
| 59 | 16.43 | 1740 | 2.17 | 33980 | 1 6 . | | |
| 53 | 18.25 | 1927 | 1.96 | 34597 | 1 8 . | | |
| 50 | 19.41 | 2053 | 2.15 | 35273 | 2 0 . | | |
| 45 | 21.57 | 2276 | 1.94 | 35797 | 2 2 . | | |
| 37 | 26.03 | 2750 | 1.37 | 37882 | 2 5 . | | |
| 32 | 29.99 | 3173 | 1.19 | 36833 | 2 8 . | | |
| 31 | 30.76 | 3238 | 1.36 | 37427 | 3 2 . | | |
| 27 | 35.44 | 3740 | 1.18 | 36994 | 3 6 . | | |
| 26 | 37.06 | 3890 | 1.07 | 39913 | 4 0 . | | |
| 23 | 42.7 | 4507 | 0.92 | 42733 | 4 5 . | | |
| 20 | 47.93 | 5030 | 0.84 | 39966 | 5 0 . | | |
| 54 | 18 | 1900 | 3.26 | 60900 | M 1 3 2 1 1 8 . _ M _ _ _ _ 1 1 . C - - | 321 | 160L |
| 48 | 20 | 2105 | 3.02 | 62800 | 2 0 . | | |
| 43 | 22.55 | 2371 | 2.68 | 64800 | 2 2 . | | |
| 38 | 25.45 | 2671 | 2.32 | 64812 | 2 5 . | | |
| 34 | 28.35 | 2975 | 2.08 | 64896 | 2 8 . | | |
| 30 | 31.89 | 3340 | 1.9 | 64772 | 3 2 . | | |
| 27 | 35.52 | 3715 | 1.71 | 64702 | 3 6 . | | |
| 25 | 39.01 | 4062 | 1.59 | 63983 | 4 0 . | | |
| 22 | 43.45 | 4531 | 1.43 | 65900 | 4 5 . | | |
| 24 | 39.93 | 4166 | 1.43 | 66700 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 1 . C - - | 343 | 160L |
| 22 | 44.18 | 4601 | 1.38 | 66600 | 4 5 . | | |
| 19 | 50.02 | 5185 | 1.22 | 66500 | 5 0 . | | |
| 17 | 56.93 | 5951 | 1.04 | 66410 | 5 6 . | | |
| 15 | 64.17 | 6717 | 0.92 | 66335 | 6 3 . | | |
| 14 | 71.32 | 7400 | 0.86 | 66033 | 7 1 . | | |
| 34 | 28.25 | 2967 | 3.36 | 80900 | M 1 4 2 1 2 8 . _ M _ _ _ _ 1 1 . C - - | 429 | 160L |
| 28 | 34.51 | 3625 | 2.95 | 80900 | 3 2 . | | |
| 26 | 37.39 | 3913 | 2.76 | 80900 | 3 6 . | | |
| 24 | 39.42 | 4108 | 2.46 | 80853 | 4 0 . | | |
| 23 | 42.71 | 4456 | 2.27 | 80864 | 4 5 . | | |
| 23 | 41.36 | 4319 | 2.43 | 66135 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 1 . C - - | 474 | 160L |
| 20 | 48.21 | 4994 | 2.2 | 66135 | 4 5 . | | |
| 18 | 54.75 | 5677 | 1.94 | 66135 | 5 0 . | | |
| 16 | 59.46 | 6165 | 1.8 | 80900 | 5 6 . | | |
| 15 | 65.55 | 6824 | 1.63 | 80900 | 6 3 . | | |
| 12 | 78.7 | 8133 | 1.35 | 80900 | 7 1 . | | |
| 11 | 86.76 | 8983 | 1.22 | 80900 | 8 0 . | | |
| 10 | 94.35 | 9795 | 1.13 | 80900 | 9 0 . | | |
| 9.4 | 102.23 | 10562 | 1.05 | 80900 | 1 0 0 | | |
| 7.7 | 124.89 | 12887 | 0.85 | 80900 | 1 1 2 | | |

NOTE

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

**15.0 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 396 | 3.68 | 349 | 1.76 | 12900 | M 0 8 2 2 3 . 6 _ M _ _ _ _ 1 5 . A - - | 173 | 160L |
| 279 | 5.21 | 496 | 1.76 | 13200 | 5 . 0 | | |
| 251 | 5.79 | 552 | 1.76 | 13300 | 5 . 6 | | |
| 226 | 6.44 | 617 | 1.7 | 13400 | 6 . 3 | | |
| 175 | 8.33 | 798 | 1.47 | 11900 | 8 . 0 | | |
| 156 | 9.35 | 893 | 1.36 | 11000 | 9 . 0 | | |
| 127 | 11.47 | 1093 | 1.2 | 8959 | 1 1 . | | |
| 113 | 12.92 | 1228 | 1.09 | 7509 | 1 2 . | | |
| 97 | 15.04 | 1444 | 0.98 | 5299 | 1 4 . | | |
| 87 | 16.69 | 1584 | 0.9 | 3659 | 1 6 . | | |
| 441 | 3.3 | 319 | 3.41 | 17400 | M 0 9 2 1 3 . 2 _ M _ _ _ _ 1 5 . A - - | 214 | 160L |
| 394 | 3.69 | 356 | 3.06 | 18000 | 3 . 6 | | |
| 318 | 4.58 | 440 | 3.81 | 18700 | 4 . 5 | | |
| 287 | 5.07 | 487 | 3.59 | 18900 | 5 . 0 | | |
| 256 | 5.69 | 544 | 3.34 | 19200 | 5 . 6 | | |
| 220 | 6.63 | 636 | 3.02 | 19500 | 6 . 3 | | |
| 197 | 7.4 | 710 | 2.82 | 19772 | 7 . 1 | | |
| 177 | 8.22 | 787 | 2.64 | 20127 | 8 . 0 | | |
| 158 | 9.19 | 881 | 2.46 | 20381 | 9 . 0 | | |
| 142 | 10.27 | 987 | 2.27 | 19486 | 1 0 . | | |
| 124 | 11.71 | 1124 | 2.08 | 19966 | 1 1 . | | |
| 114 | 12.74 | 1222 | 1.98 | 20166 | 1 2 . | | |
| 100 | 14.53 | 1395 | 1.81 | 19933 | 1 4 . | | |
| 88 | 16.59 | 1592 | 1.65 | 20102 | 1 6 . | | |
| 79 | 18.43 | 1761 | 1.5 | 19528 | 1 8 . | | |
| 71 | 20.59 | 1967 | 1.44 | 19926 | 2 0 . | | |
| 64 | 22.87 | 2192 | 1.3 | 19580 | 2 2 . | | |
| 56 | 26.04 | 2482 | 1.06 | 21600 | 2 5 . | | |
| 51 | 28.74 | 2740 | 0.96 | 20700 | 2 8 . | | |
| 137 | 10.59 | 1014 | 3.63 | 29400 | M 1 0 2 1 1 0 . _ M _ _ _ _ 1 5 . A - - | 260 | 160L |
| 121 | 11.98 | 1147 | 3.28 | 30000 | 1 1 . | | |
| 116 | 12.51 | 1196 | 3.25 | 30200 | 1 2 . | | |
| 103 | 14.16 | 1351 | 3 | 30954 | 1 4 . | | |
| 89 | 16.43 | 1569 | 2.4 | 31354 | 1 6 . | | |
| 80 | 18.25 | 1744 | 2.16 | 31312 | 1 8 . | | |
| 75 | 19.41 | 1851 | 2.38 | 31628 | 2 0 . | | |
| 67 | 21.57 | 2060 | 2.14 | 30688 | 2 2 . | | |
| 56 | 26.03 | 2482 | 1.52 | 34179 | 2 5 . | | |
| 49 | 29.99 | 2860 | 1.32 | 35232 | 2 8 . | | |
| 47 | 30.76 | 2929 | 1.51 | 35762 | 3 2 . | | |
| 41 | 35.44 | 3380 | 1.3 | 35456 | 3 6 . | | |
| 39 | 37.06 | 3533 | 1.18 | 37527 | 4 0 . | | |
| 34 | 42.7 | 4064 | 1.02 | 38700 | 4 5 . | | |
| 30 | 47.93 | 4538 | 0.92 | 39500 | 5 0 . | | |
| 81 | 18 | 1719 | 3.61 | 55200 | M 1 3 2 1 1 8 . _ M _ _ _ _ 1 5 . A - - | 321 | 160L |
| 73 | 20 | 1902 | 3.34 | 56100 | 2 0 . | | |
| 65 | 22.55 | 2142 | 2.96 | 56772 | 2 2 . | | |
| 57 | 25.45 | 2419 | 2.56 | 58681 | 2 5 . | | |
| 51 | 28.35 | 2694 | 2.3 | 60368 | 2 8 . | | |
| 46 | 31.89 | 3023 | 2.1 | 61752 | 3 2 . | | |
| 41 | 35.52 | 3354 | 1.89 | 63733 | 3 6 . | | |
| 37 | 39.01 | 3685 | 1.75 | 63433 | 4 0 . | | |
| 33 | 43.45 | 4091 | 1.58 | 65200 | 4 5 . | | |
| 36 | 39.93 | 3774 | 1.47 | 49920 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 5 . A - - | 343 | 160L |
| 33 | 44.18 | 4154 | 1.49 | 49920 | 4 5 . | | |
| 29 | 50.02 | 4692 | 1.34 | 49920 | 5 0 . | | |
| 26 | 56.93 | 5348 | 1.16 | 66554 | 5 6 . | | |
| 23 | 64.17 | 6057 | 1.02 | 66520 | 6 3 . | | |
| 20 | 71.32 | 6684 | 0.95 | 66300 | 7 1 . | | |
| 18 | 80.39 | 7533 | 0.84 | 66200 | 8 0 . | | |
| 52 | 28.25 | 2680 | 3.72 | 79400 | M 1 4 2 1 1 2 8 . _ M _ _ _ _ 1 5 . A - - | 429 | 160L |
| 42 | 34.51 | 3277 | 3.26 | 80900 | 3 2 . | | |
| 39 | 37.39 | 3540 | 3.05 | 80900 | 3 6 . | | |
| 37 | 39.42 | 3724 | 2.67 | 80827 | 4 0 . | | |
| 34 | 42.71 | 4029 | 2.48 | 80900 | 4 5 . | | |
| 35 | 41.36 | 3882 | 2.51 | 66304 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 5 . A - - | 474 | 160L |
| 30 | 48.21 | 4517 | 2.44 | 66304 | 4 5 . | | |
| 27 | 54.75 | 5122 | 2.15 | 66304 | 5 0 . | | |
| 24 | 59.46 | 5585 | 1.88 | 66133 | 5 6 . | | |
| 22 | 65.55 | 6151 | 1.74 | 66133 | 6 3 . | | |
| 18 | 78.7 | 7373 | 1.49 | 65986 | 7 1 . | | |
| 17 | 86.76 | 8100 | 1.36 | 80900 | 8 0 . | | |
| 15 | 94.35 | 8825 | 1.26 | 80900 | 9 0 . | | |
| 14 | 102.23 | 9591 | 1.16 | 80900 | 1 0 0 | | |
| 12 | 124.89 | 11661 | 0.94 | 80900 | 1 1 2 | | |
| 11 | 135.31 | 12648 | 0.87 | 80900 | 1 2 5 | | |

NOTE

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

## 15.0 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | Weight | Motor Size |
| 656 | 1.48 | 213 | 3.49 | 15400 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 1 5 . C - - | 313 | 180L |
| 476 | 2.04 | 295 | 3.49 | 17100 | 1 . 8 | | |
| 425 | 2.28 | 331 | 3.29 | 17700 | 2 . 2 | | |
| 379 | 2.56 | 371 | 2.93 | 18200 | 2 . 5 | | |
| 327 | 2.97 | 427 | 3.49 | 18600 | 2 . 8 | | |
| 294 | 3.3 | 478 | 2.28 | 18700 | 3 . 2 | | |
| 263 | 3.69 | 535 | 2.03 | 18884 | 3 . 6 | | |
| 237 | 4.09 | 587 | 3.08 | 19305 | 4 . 0 | | |
| 212 | 4.58 | 662 | 2.87 | 19663 | 4 . 5 | | |
| 191 | 5.07 | 731 | 2.71 | 20042 | 5 . 0 | | |
| 171 | 5.69 | 817 | 2.52 | 20400 | 5 . 6 | | |
| 146 | 6.63 | 953 | 2.28 | 20336 | 6 . 3 | | |
| 131 | 7.4 | 1065 | 2.12 | 20033 | 7 . 1 | | |
| 118 | 8.22 | 1183 | 1.99 | 20233 | 8 . 0 | | |
| 106 | 9.19 | 1322 | 1.85 | 20033 | 9 . 0 | | |
| 94 | 10.27 | 1478 | 1.71 | 19166 | 1 0 . | | |
| 83 | 11.71 | 1682 | 1.57 | 18045 | 1 1 . | | |
| 76 | 12.74 | 1832 | 1.5 | 18329 | 1 2 . | | |
| 67 | 14.53 | 2091 | 1.37 | 17921 | 1 4 . | | |
| 58 | 16.59 | 2389 | 1.1 | 17688 | 1 6 . | | |
| 53 | 18.43 | 2648 | 1 | 16802 | 1 8 . | | |
| 47 | 20.59 | 2969 | 0.96 | 17028 | 2 0 . | | |
| 42 | 22.87 | 3291 | 0.87 | 15725 | 2 2 . | | |
| 443 | 2.19 | 315 | 3.49 | 23700 | M 1 0 2 1 2 . 2 _ M _ _ _ _ 1 5 . C - - | 359 | 180L |
| 390 | 2.49 | 358 | 3.49 | 24700 | 2 . 5 | | |
| 324 | 2.99 | 429 | 3.49 | 26000 | 2 . 8 | | |
| 299 | 3.24 | 468 | 3.35 | 26100 | 3 . 2 | | |
| 277 | 3.5 | 505 | 3.11 | 26300 | 3 . 6 | | |
| 232 | 4.18 | 598 | 3.49 | 27100 | 4 . 0 | | |
| 213 | 4.55 | 653 | 3.49 | 27300 | 4 . 5 | | |
| 196 | 4.94 | 707 | 3.49 | 27700 | 5 . 0 | | |
| 181 | 5.37 | 770 | 3.49 | 28100 | 5 . 6 | | |
| 144 | 6.72 | 965 | 3.49 | 29200 | 6 . 3 | | |
| 134 | 7.26 | 1043 | 3.49 | 29500 | 7 . 1 | | |
| 122 | 7.95 | 1139 | 3.3 | 30000 | 8 . 0 | | |
| 113 | 8.58 | 1230 | 3.15 | 30400 | 9 . 0 | | |
| 92 | 10.59 | 1520 | 2.48 | 31305 | 1 0 . | | |
| 81 | 11.98 | 1722 | 2.19 | 31821 | 1 1 . | | |
| 78 | 12.51 | 1794 | 2.45 | 32100 | 1 2 . | | |
| 68 | 14.16 | 2033 | 2.17 | 32315 | 1 4 . | | |
| 59 | 16.43 | 2361 | 1.6 | 31900 | 1 6 . | | |
| 53 | 18.25 | 2615 | 1.44 | 31966 | 1 8 . | | |
| 50 | 19.41 | 2785 | 1.58 | 32500 | 2 0 . | | |
| 45 | 21.57 | 3088 | 1.43 | 32366 | 2 2 . | | |
| 37 | 26.03 | 3731 | 1.01 | 34434 | 2 5 . | | |
| 32 | 29.99 | 4305 | 0.88 | 32566 | 2 8 . | | |
| 32 | 30.76 | 4393 | 1 | 33272 | 3 2 . | | |
| 27 | 35.44 | 5075 | 0.87 | 31505 | 3 6 . | | |
| 78 | 12.39 | 1771 | 3.58 | 55600 | M 1 3 2 1 1 2 . _ M _ _ _ _ 1 5 . C - - | 419 | 180L |
| 69 | 14.03 | 2008 | 3.13 | 56600 | 1 4 . | | |
| 61 | 15.97 | 2289 | 2.71 | 58200 | 1 6 . | | |
| 54 | 18 | 2578 | 2.4 | 59209 | 1 8 . | | |
| 48 | 20 | 2856 | 2.22 | 60900 | 2 0 . | | |
| 43 | 22.55 | 3217 | 1.97 | 62554 | 2 2 . | | |
| 38 | 25.45 | 3623 | 1.71 | 62540 | 2 5 . | | |
| 34 | 28.35 | 4036 | 1.54 | 62835 | 2 8 . | | |
| 30 | 31.89 | 4532 | 1.4 | 62684 | 3 2 . | | |
| 27 | 35.52 | 5041 | 1.26 | 63248 | 3 6 . | | |
| 25 | 39.01 | 5511 | 1.17 | 62008 | 4 0 . | | |
| 22 | 43.45 | 6147 | 1.05 | 65390 | 4 5 . | | |
| 24 | 39.93 | 5652 | 1.05 | 66700 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 5 . C - - | 441 | 180L |
| 22 | 44.18 | 6242 | 1.02 | 66600 | 4 5 . | | |
| 19 | 50.02 | 7034 | 0.9 | 66500 | 5 0 . | | |
| 40 | 23.97 | 3425 | 3.15 | 80900 | M 1 4 2 1 2 2 . _ M _ _ _ _ 1 5 . C - - | 529 | 180L |
| 37 | 26.07 | 3728 | 2.84 | 80900 | 2 5 . | | |
| 34 | 28.25 | 4025 | 2.48 | 79745 | 2 8 . | | |
| 28 | 34.51 | 4917 | 2.18 | 79109 | 3 2 . | | |
| 26 | 37.39 | 5308 | 2.03 | 78890 | 3 6 . | | |
| 25 | 39.42 | 5573 | 1.81 | 80800 | 4 0 . | | |
| 23 | 42.71 | 6045 | 1.67 | 80823 | 4 5 . | | |
| 23 | 41.36 | 5860 | 1.79 | 65833 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 5 . C - - | 574 | 180L |
| 20 | 48.21 | 6775 | 1.62 | 65833 | 4 5 . | | |
| 18 | 54.75 | 7702 | 1.43 | 65833 | 5 0 . | | |
| 16 | 59.46 | 8364 | 1.33 | 80900 | 5 6 . | | |
| 15 | 65.55 | 9257 | 1.2 | 80900 | 6 3 . | | |
| 12 | 78.7 | 11033 | 1 | 80900 | 7 1 . | | |
| 11 | 86.76 | 12186 | 0.9 | 80900 | 8 0 . | | |
| 10 | 94.35 | 13288 | 0.84 | 80900 | 9 0 . | | |

NOTE

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

**18.5 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 574 | 2.56 | 299 | 3.6 | 16006 | M 0 9 2 1 2 . 5 _ M _ _ _ _ 1 8 . A - - | 299 | 180M |
| 445 | 3.3 | 390 | 2.79 | 17283 | 3 . 2 | | |
| 399 | 3.69 | 435 | 2.5 | 17871 | 3 . 6 | | |
| 360 | 4.09 | 477 | 3.35 | 18271 | 4 . 0 | | |
| 321 | 4.58 | 537 | 3.12 | 18560 | 4 . 5 | | |
| 290 | 5.07 | 594 | 2.94 | 18760 | 5 . 0 | | |
| 259 | 5.69 | 664 | 2.74 | 19025 | 5 . 6 | | |
| 222 | 6.63 | 776 | 2.47 | 19255 | 6 . 3 | | |
| 199 | 7.4 | 866 | 2.31 | 19390 | 7 . 1 | | |
| 179 | 8.22 | 960 | 2.16 | 19692 | 8 . 0 | | |
| 160 | 9.19 | 1076 | 2.02 | 19777 | 9 . 0 | | |
| 143 | 10.27 | 1205 | 1.86 | 18406 | 1 0 . | | |
| 126 | 11.71 | 1373 | 1.7 | 18877 | 1 1 . | | |
| 115 | 12.74 | 1491 | 1.62 | 19031 | 1 2 . | | |
| 101 | 14.53 | 1703 | 1.49 | 18408 | 1 4 . | | |
| 89 | 16.59 | 1943 | 1.35 | 18651 | 1 6 . | | |
| 80 | 18.43 | 2150 | 1.23 | 17714 | 1 8 . | | |
| 71 | 20.59 | 2401 | 1.18 | 17963 | 2 0 . | | |
| 64 | 22.87 | 2676 | 1.07 | 17190 | 2 2 . | | |
| 202 | 7.26 | 847 | 3.8 | 27300 | M 1 0 2 1 7 . 1 _ M _ _ _ _ 1 8 . A - - | 345 | 180M |
| 185 | 7.95 | 927 | 3.59 | 27700 | 8 . 0 | | |
| 171 | 8.58 | 1000 | 3.42 | 28166 | 9 . 0 | | |
| 139 | 10.59 | 1238 | 2.97 | 29096 | 1 0 . | | |
| 123 | 11.98 | 1401 | 2.69 | 29661 | 1 1 . | | |
| 118 | 12.51 | 1460 | 2.66 | 29861 | 1 2 . | | |
| 104 | 14.16 | 1649 | 2.46 | 30551 | 1 4 . | | |
| 89 | 16.43 | 1916 | 1.97 | 30601 | 1 6 . | | |
| 81 | 18.25 | 2129 | 1.77 | 29926 | 1 8 . | | |
| 76 | 19.41 | 2260 | 1.95 | 30144 | 2 0 . | | |
| 68 | 21.57 | 2514 | 1.75 | 28955 | 2 2 . | | |
| 56 | 26.03 | 3030 | 1.24 | 33189 | 2 5 . | | |
| 49 | 29.99 | 3492 | 1.08 | 34016 | 2 8 . | | |
| 48 | 30.76 | 3576 | 1.23 | 34631 | 3 2 . | | |
| 41 | 35.44 | 4126 | 1.07 | 33578 | 3 6 . | | |
| 40 | 37.06 | 4313 | 0.96 | 36200 | 4 0 . | | |
| 105 | 14.03 | 1632 | 3.85 | 52700 | M 1 3 2 1 1 4 . _ M _ _ _ _ 1 8 . A - - | 405 | 180M |
| 92 | 15.97 | 1860 | 3.33 | 53508 | 1 6 . | | |
| 82 | 18 | 2099 | 2.95 | 54351 | 1 8 . | | |
| 73 | 20 | 2322 | 2.73 | 55137 | 2 0 . | | |
| 65 | 22.55 | 2615 | 2.43 | 55689 | 2 2 . | | |
| 58 | 25.45 | 2954 | 2.1 | 57493 | 2 5 . | | |
| 52 | 28.35 | 3288 | 1.89 | 59164 | 2 8 . | | |
| 46 | 31.89 | 3690 | 1.72 | 60423 | 3 2 . | | |
| 41 | 35.52 | 4094 | 1.55 | 62442 | 3 6 . | | |
| 38 | 39.01 | 4499 | 1.44 | 61862 | 4 0 . | | |
| 34 | 43.45 | 4995 | 1.29 | 64500 | 4 5 . | | |
| 37 | 39.93 | 4607 | 1.2 | 49360 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 8 . A - - | 427 | 180M |
| 33 | 44.18 | 5071 | 1.22 | 49360 | 4 5 . | | |
| 29 | 50.02 | 5728 | 1.1 | 49360 | 5 0 . | | |
| 26 | 56.93 | 6529 | 0.95 | 66500 | 5 6 . | | |
| 23 | 64.17 | 7394 | 0.84 | 66400 | 6 3 . | | |
| 61 | 23.97 | 2787 | 3.87 | 75200 | M 1 4 2 1 2 2 . _ M _ _ _ _ 1 8 . A - - | 515 | 180M |
| 56 | 26.07 | 3003 | 3.5 | 77000 | 2 5 . | | |
| 52 | 28.25 | 3272 | 3.05 | 78603 | 2 8 . | | |
| 43 | 34.51 | 4001 | 2.67 | 79736 | 3 2 . | | |
| 39 | 37.39 | 4321 | 2.5 | 79675 | 3 6 . | | |
| 37 | 39.42 | 4546 | 2.19 | 80742 | 4 0 . | | |
| 34 | 42.71 | 4918 | 2.03 | 80900 | 4 5 . | | |
| 36 | 41.36 | 4739 | 2.05 | 66192 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 8 . A - - | 560 | 180M |
| 30 | 48.21 | 5514 | 1.99 | 66192 | 4 5 . | | |
| 27 | 54.75 | 6253 | 1.76 | 66192 | 5 0 . | | |
| 25 | 59.46 | 6818 | 1.54 | 66008 | 5 6 . | | |
| 22 | 65.55 | 7509 | 1.42 | 66008 | 6 3 . | | |
| 19 | 78.7 | 9001 | 1.22 | 65793 | 7 1 . | | |
| 17 | 86.76 | 9888 | 1.11 | 80900 | 8 0 . | | |
| 16 | 94.35 | 10774 | 1.03 | 80900 | 9 0 . | | |
| 14 | 102.23 | 11708 | 0.95 | 80900 | 1 0 0 | | |

NOTE

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

## 18.5 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation — Column Entry 1 Through 20, Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 659 | 1.48 | 261 | 2.84 | 15306 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 1 8 . C - - | 368 | 200L |
| 479 | 2.04 | 362 | 2.84 | 16936 | 1 . 8 | | |
| 427 | 2.28 | 406 | 2.68 | 17513 | 2 . 2 | | |
| 381 | 2.56 | 456 | 2.39 | 18013 | 2 . 5 | | |
| 328 | 2.97 | 523 | 2.84 | 18413 | 2 . 8 | | |
| 295 | 3.3 | 587 | 1.86 | 18443 | 3 . 2 | | |
| 264 | 3.69 | 657 | 1.66 | 18607 | 3 . 6 | | |
| 239 | 4.09 | 721 | 2.51 | 19047 | 4 . 0 | | |
| 213 | 4.58 | 812 | 2.34 | 19368 | 4 . 5 | | |
| 192 | 5.07 | 897 | 2.21 | 19728 | 5 . 0 | | |
| 171 | 5.69 | 1003 | 2.05 | 20050 | 5 . 6 | | |
| 147 | 6.63 | 1169 | 1.86 | 19581 | 6 . 3 | | |
| 132 | 7.4 | 1306 | 1.73 | 19068 | 7 . 1 | | |
| 119 | 8.22 | 1452 | 1.62 | 19175 | 8 . 0 | | |
| 106 | 9.19 | 1622 | 1.51 | 18648 | 9 . 0 | | |
| 95 | 10.27 | 1814 | 1.39 | 17237 | 1 0 . | | |
| 83 | 11.71 | 2063 | 1.28 | 15741 | 1 1 . | | |
| 77 | 12.74 | 2248 | 1.22 | 15982 | 1 2 . | | |
| 67 | 14.53 | 2566 | 1.11 | 15055 | 1 4 . | | |
| 59 | 16.59 | 2932 | 0.9 | 14694 | 1 6 . | | |
| 53 | 18.43 | 3249 | 0.81 | 13271 | 1 8 . | | |
| 676 | 1.44 | 253 | 2.84 | 20700 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 1 8 . C - - | 414 | 200L |
| 484 | 2.01 | 355 | 2.84 | 23000 | 1 . 8 | | |
| 445 | 2.19 | 386 | 2.84 | 23560 | 2 . 2 | | |
| 392 | 2.49 | 439 | 2.84 | 24536 | 2 . 5 | | |
| 326 | 2.99 | 527 | 2.84 | 25813 | 2 . 8 | | |
| 301 | 3.24 | 574 | 2.73 | 25866 | 3 . 2 | | |
| 279 | 3.5 | 620 | 2.53 | 26066 | 3 . 6 | | |
| 233 | 4.18 | 734 | 2.84 | 26843 | 4 . 0 | | |
| 215 | 4.55 | 801 | 2.84 | 27043 | 4 . 5 | | |
| 197 | 4.94 | 868 | 2.84 | 27420 | 5 . 0 | | |
| 182 | 5.37 | 945 | 2.84 | 27796 | 5 . 6 | | |
| 145 | 6.72 | 1185 | 2.84 | 28803 | 6 . 3 | | |
| 134 | 7.26 | 1280 | 2.84 | 29080 | 7 . 1 | | |
| 123 | 7.95 | 1397 | 2.69 | 29556 | 8 . 0 | | |
| 114 | 8.58 | 1509 | 2.56 | 29910 | 9 . 0 | | |
| 92 | 10.59 | 1866 | 2.02 | 30697 | 1 0 . | | |
| 81 | 11.98 | 2112 | 1.78 | 31139 | 1 1 . | | |
| 78 | 12.51 | 2201 | 2 | 31400 | 1 2 . | | |
| 69 | 14.16 | 2494 | 1.77 | 31192 | 1 4 . | | |
| 59 | 16.43 | 2897 | 1.3 | 30080 | 1 6 . | | |
| 53 | 18.25 | 3208 | 1.17 | 29664 | 1 8 . | | |
| 50 | 19.41 | 3418 | 1.29 | 30073 | 2 0 . | | |
| 45 | 21.57 | 3789 | 1.16 | 29364 | 2 2 . | | |
| 37 | 26.03 | 4578 | 0.82 | 31417 | 2 5 . | | |
| 32 | 30.76 | 5391 | 0.82 | 29636 | 3 2 . | | |
| 336 | 2.9 | 510 | 3.41 | 44500 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 1 8 . C - - | 475 | 200L |
| 306 | 3.19 | 560 | 3.41 | 45000 | 3 . 2 | | |
| 268 | 3.64 | 639 | 3.41 | 45700 | 3 . 6 | | |
| 242 | 4.03 | 709 | 3.41 | 46300 | 4 . 0 | | |
| 221 | 4.42 | 780 | 3.41 | 46800 | 4 . 5 | | |
| 193 | 5.04 | 885 | 3.41 | 47600 | 5 . 0 | | |
| 176 | 5.54 | 973 | 3.41 | 48400 | 5 . 6 | | |
| 157 | 6.21 | 1094 | 3.41 | 49300 | 6 . 3 | | |
| 142 | 6.88 | 1214 | 3.41 | 50100 | 7 . 1 | | |
| 125 | 7.78 | 1366 | 3.41 | 51200 | 8 . 0 | | |
| 113 | 8.62 | 1513 | 3.41 | 52000 | 9 . 0 | | |
| 99 | 9.89 | 1742 | 3.41 | 53100 | 1 0 . | | |
| 87 | 11.2 | 1978 | 3 | 54200 | 1 1 . | | |
| 79 | 12.39 | 2174 | 2.92 | 54733 | 1 2 . | | |
| 69 | 14.03 | 2463 | 2.55 | 55550 | 1 4 . | | |
| 61 | 15.97 | 2809 | 2.21 | 56896 | 1 6 . | | |
| 54 | 18 | 3163 | 1.96 | 57729 | 1 8 . | | |
| 49 | 20 | 3505 | 1.81 | 59237 | 2 0 . | | |
| 43 | 22.55 | 3947 | 1.61 | 60589 | 2 2 . | | |
| 38 | 25.45 | 4446 | 1.39 | 60552 | 2 5 . | | |
| 34 | 28.35 | 4953 | 1.25 | 61032 | 2 8 . | | |
| 31 | 31.89 | 5560 | 1.14 | 60857 | 3 2 . | | |
| 27 | 35.52 | 6185 | 1.03 | 61977 | 3 6 . | | |
| 25 | 39.01 | 6762 | 0.96 | 60279 | 4 0 . | | |
| 22 | 43.45 | 7543 | 0.86 | 64945 | 4 5 . | | |
| 24 | 39.93 | 6935 | 0.86 | 66700 | M 1 3 3 1 4 0 . _ M _ _ _ _ 1 8 . C - - | 497 | 200L |
| 22 | 44.18 | 7660 | 0.83 | 66600 | 4 5 . | | |
| 54 | 18.11 | 3174 | 3.5 | 78000 | M 1 4 2 1 1 8 . _ M _ _ _ _ 1 8 . C - - | 586 | 200L |
| 45 | 21.75 | 3808 | 2.78 | 80900 | 2 0 . | | |
| 41 | 23.97 | 4203 | 2.57 | 79692 | 2 2 . | | |
| 37 | 26.07 | 4575 | 2.32 | 79867 | 2 5 . | | |
| 35 | 28.25 | 4939 | 2.02 | 78735 | 2 8 . | | |
| 28 | 34.51 | 6034 | 1.77 | 77542 | 3 2 . | | |
| 26 | 37.39 | 6514 | 1.66 | 77132 | 3 6 . | | |
| 25 | 39.42 | 6839 | 1.48 | 80753 | 4 0 . | | |
| 23 | 42.71 | 7418 | 1.36 | 80788 | 4 5 . | | |
| 24 | 41.36 | 7190 | 1.46 | 65568 | M 1 4 3 1 4 0 . _ M _ _ _ _ 1 8 . C - - | 631 | 200L |
| 20 | 48.21 | 8314 | 1.32 | 65568 | 4 5 . | | |
| 18 | 54.75 | 9451 | 1.16 | 65568 | 5 0 . | | |
| 16 | 59.46 | 10263 | 1.08 | 80900 | 5 6 . | | |
| 15 | 65.55 | 11359 | 0.98 | 80900 | 6 3 . | | |
| 12 | 78.7 | 13538 | 0.81 | 80900 | 7 1 . | | |

NOTE

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

**22.0 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 994 | 1.48 | 206 | 3.6 | 13447 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 2 2 . A - - | 313 | 180L |
| 722 | 2.04 | 284 | 3.5 | 14860 | 1 . 8 | | |
| 644 | 2.28 | 318 | 3.39 | 15413 | 2 . 2 | | |
| 574 | 2.56 | 356 | 3.03 | 15913 | 2 . 5 | | |
| 495 | 2.97 | 412 | 3.4 | 16813 | 2 . 8 | | |
| 445 | 3.3 | 463 | 2.35 | 17166 | 3 . 2 | | |
| 399 | 3.69 | 517 | 2.11 | 17743 | 3 . 6 | | |
| 360 | 4.09 | 568 | 2.82 | 18143 | 4 . 0 | | |
| 321 | 4.58 | 639 | 2.63 | 18420 | 4 . 5 | | |
| 290 | 5.07 | 707 | 2.47 | 18620 | 5 . 0 | | |
| 259 | 5.69 | 789 | 2.3 | 18850 | 5 . 6 | | |
| 222 | 6.63 | 923 | 2.08 | 19010 | 6 . 3 | | |
| 199 | 7.4 | 1030 | 1.94 | 19009 | 7 . 1 | | |
| 179 | 8.22 | 1142 | 1.82 | 19257 | 8 . 0 | | |
| 160 | 9.19 | 1279 | 1.7 | 19172 | 9 . 0 | | |
| 143 | 10.27 | 1433 | 1.56 | 17327 | 1 0 . | | |
| 126 | 11.71 | 1632 | 1.43 | 17788 | 1 1 . | | |
| 115 | 12.74 | 1774 | 1.36 | 17895 | 1 2 . | | |
| 101 | 14.53 | 2025 | 1.25 | 16884 | 1 4 . | | |
| 89 | 16.59 | 2311 | 1.13 | 17200 | 1 6 . | | |
| 80 | 18.43 | 2557 | 1.03 | 15899 | 1 8 . | | |
| 71 | 20.59 | 2856 | 0.99 | 15999 | 2 0 . | | |
| 64 | 22.87 | 3182 | 0.9 | 14800 | 2 2 . | | |
| 1019 | 1.44 | 200 | 3.6 | 18100 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 2 2 . A - - | 359 | 180L |
| 730 | 2.01 | 280 | 3.6 | 20100 | 1 . 8 | | |
| 671 | 2.19 | 305 | 3.6 | 20600 | 2 . 2 | | |
| 591 | 2.49 | 346 | 3.6 | 21400 | 2 . 5 | | |
| 491 | 2.99 | 413 | 3.6 | 22800 | 2 . 8 | | |
| 453 | 3.24 | 451 | 3.39 | 23300 | 3 . 2 | | |
| 420 | 3.5 | 488 | 3.19 | 23800 | 3 . 6 | | |
| 352 | 4.18 | 579 | 3.6 | 25300 | 4 . 0 | | |
| 323 | 4.55 | 632 | 3.6 | 25600 | 4 . 5 | | |
| 298 | 4.94 | 685 | 3.6 | 25900 | 5 . 0 | | |
| 274 | 5.37 | 746 | 3.6 | 26200 | 5 . 6 | | |
| 219 | 6.72 | 934 | 3.36 | 26800 | 6 . 3 | | |
| 202 | 7.26 | 1008 | 3.19 | 27101 | 7 . 1 | | |
| 185 | 7.95 | 1103 | 3.02 | 27501 | 8 . 0 | | |
| 171 | 8.58 | 1189 | 2.88 | 27933 | 9 . 0 | | |
| 139 | 10.59 | 1473 | 2.5 | 28793 | 1 0 . | | |
| 123 | 11.98 | 1666 | 2.26 | 29323 | 1 1 . | | |
| 118 | 12.51 | 1736 | 2.24 | 29523 | 1 2 . | | |
| 104 | 14.16 | 1961 | 2.06 | 30148 | 1 4 . | | |
| 89 | 16.43 | 2278 | 1.65 | 29848 | 1 6 . | | |
| 81 | 18.25 | 2532 | 1.49 | 28540 | 1 8 . | | |
| 76 | 19.41 | 2688 | 1.64 | 28660 | 2 0 . | | |
| 68 | 21.57 | 2990 | 1.47 | 27223 | 2 2 . | | |
| 56 | 26.03 | 3604 | 1.05 | 32200 | 2 5 . | | |
| 49 | 29.99 | 4152 | 0.91 | 32800 | 2 8 . | | |
| 48 | 30.76 | 4253 | 1.04 | 33500 | 3 2 . | | |
| 41 | 35.44 | 4907 | 0.9 | 31700 | 3 6 . | | |
| 131 | 11.2 | 1558 | 3.81 | 50400 | M 1 3 2 1 1 1 . _ M _ _ _ _ 2 2 . A - - | 419 | 180L |
| 119 | 12.39 | 1716 | 3.7 | 51300 | 1 2 . | | |
| 105 | 14.03 | 1941 | 3.24 | 52018 | 1 4 . | | |
| 92 | 15.97 | 2212 | 2.8 | 52817 | 1 6 . | | |
| 82 | 18 | 2496 | 2.48 | 53502 | 1 8 . | | |
| 73 | 20 | 2761 | 2.3 | 54175 | 2 0 . | | |
| 65 | 22.55 | 3110 | 2.04 | 54606 | 2 2 . | | |
| 58 | 25.45 | 3512 | 1.76 | 56306 | 2 5 . | | |
| 52 | 28.35 | 3911 | 1.59 | 57960 | 2 8 . | | |
| 46 | 31.89 | 4388 | 1.45 | 59094 | 3 2 . | | |
| 41 | 35.52 | 4869 | 1.3 | 61151 | 3 6 . | | |
| 38 | 39.01 | 5350 | 1.21 | 60291 | 4 0 . | | |
| 34 | 43.45 | 5940 | 1.09 | 63800 | 4 5 . | | |
| 37 | 39.93 | 5479 | 1.01 | 48800 | M 1 3 3 1 4 0 . _ M _ _ _ _ 2 2 . A - - | 441 | 180L |
| 33 | 44.18 | 6031 | 1.02 | 48800 | 4 5 . | | |
| 29 | 50.02 | 6812 | 0.93 | 48800 | 5 0 . | | |
| 68 | 21.75 | 2999 | 3.53 | 73600 | M 1 4 2 1 2 0 . _ M _ _ _ _ 2 2 . A - - | 529 | 180L |
| 61 | 23.97 | 3314 | 3.26 | 74382 | 2 2 . | | |
| 56 | 26.07 | 3571 | 2.94 | 75965 | 2 5 . | | |
| 52 | 28.25 | 3891 | 2.56 | 77807 | 2 8 . | | |
| 43 | 34.51 | 4758 | 2.25 | 78572 | 3 2 . | | |
| 39 | 37.39 | 5139 | 2.1 | 78450 | 3 6 . | | |
| 37 | 39.42 | 5406 | 1.84 | 80657 | 4 0 . | | |
| 34 | 42.71 | 5849 | 1.71 | 80900 | 4 5 . | | |
| 36 | 41.36 | 5636 | 1.73 | 66080 | M 1 4 3 1 4 0 . _ M _ _ _ _ 2 2 . A - - | 574 | 180L |
| 30 | 48.21 | 6557 | 1.68 | 66080 | 4 5 . | | |
| 27 | 54.75 | 7436 | 1.48 | 66080 | 5 0 . | | |
| 25 | 59.46 | 8108 | 1.29 | 65884 | 5 6 . | | |
| 22 | 65.55 | 8930 | 1.2 | 65884 | 6 3 . | | |
| 19 | 78.7 | 10704 | 1.03 | 65600 | 7 1 . | | |
| 17 | 86.76 | 11758 | 0.94 | 80900 | 8 0 . | | |
| 16 | 94.35 | 12812 | 0.87 | 80900 | 9 0 . | | |

NOTE

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

## 22.0 kW

6 POLE

| N2 R/MIN | 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 | Motor Size |
| 659 | 1.48 | 311 | 2.39 | 15213 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 2 2 . C - - | 368 | 200L |
| 479 | 2.04 | 430 | 2.39 | 16773 | 1 . 8 | | |
| 427 | 2.28 | 483 | 2.25 | 17326 | 2 . 2 | | |
| 381 | 2.56 | 542 | 2.01 | 17826 | 2 . 5 | | |
| 328 | 2.97 | 623 | 2.39 | 18226 | 2 . 8 | | |
| 295 | 3.3 | 698 | 1.56 | 18186 | 3 . 2 | | |
| 264 | 3.69 | 781 | 1.39 | 18331 | 3 . 6 | | |
| 239 | 4.09 | 857 | 2.11 | 18789 | 4 . 0 | | |
| 213 | 4.58 | 966 | 1.97 | 19073 | 4 . 5 | | |
| 192 | 5.07 | 1066 | 1.86 | 19415 | 5 . 0 | | |
| 171 | 5.69 | 1193 | 1.73 | 19700 | 5 . 6 | | |
| 147 | 6.63 | 1390 | 1.56 | 18826 | 6 . 3 | | |
| 132 | 7.4 | 1554 | 1.45 | 18104 | 7 . 1 | | |
| 119 | 8.22 | 1727 | 1.37 | 18117 | 8 . 0 | | |
| 106 | 9.19 | 1929 | 1.27 | 17264 | 9 . 0 | | |
| 95 | 10.27 | 2157 | 1.17 | 15308 | 1 0 . | | |
| 83 | 11.71 | 2454 | 1.08 | 13436 | 1 1 . | | |
| 77 | 12.74 | 2673 | 1.02 | 13634 | 1 2 . | | |
| 67 | 14.53 | 3051 | 0.94 | 12190 | 1 4 . | | |
| 676 | 1.44 | 301 | 2.39 | 20578 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 2 2 . C - - | 414 | 200L |
| 484 | 2.01 | 422 | 2.39 | 22847 | 1 . 8 | | |
| 445 | 2.19 | 459 | 2.39 | 23420 | 2 . 2 | | |
| 392 | 2.49 | 522 | 2.39 | 24373 | 2 . 5 | | |
| 326 | 2.99 | 627 | 2.39 | 25626 | 2 . 8 | | |
| 301 | 3.24 | 682 | 2.3 | 25633 | 3 . 2 | | |
| 279 | 3.5 | 737 | 2.13 | 25833 | 3 . 6 | | |
| 233 | 4.18 | 873 | 2.39 | 26586 | 4 . 0 | | |
| 215 | 4.55 | 953 | 2.39 | 26786 | 4 . 5 | | |
| 197 | 4.94 | 1032 | 2.39 | 27140 | 5 . 0 | | |
| 182 | 5.37 | 1124 | 2.39 | 27493 | 5 . 6 | | |
| 145 | 6.72 | 1409 | 2.39 | 28406 | 6 . 3 | | |
| 134 | 7.26 | 1522 | 2.39 | 28660 | 7 . 1 | | |
| 123 | 7.95 | 1662 | 2.26 | 29113 | 8 . 0 | | |
| 114 | 8.58 | 1795 | 2.16 | 29420 | 9 . 0 | | |
| 92 | 10.59 | 2219 | 1.7 | 30089 | 1 0 . | | |
| 81 | 11.98 | 2512 | 1.5 | 30457 | 1 1 . | | |
| 78 | 12.51 | 2618 | 1.68 | 30700 | 1 2 . | | |
| 69 | 14.16 | 2966 | 1.49 | 30068 | 1 4 . | | |
| 336 | 2.9 | 606 | 2.87 | 44375 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 2 2 . C - - | 475 | 200L |
| 306 | 3.19 | 666 | 2.87 | 44865 | 3 . 2 | | |
| 268 | 3.64 | 760 | 2.87 | 45546 | 3 . 6 | | |
| 242 | 4.03 | 844 | 2.87 | 46127 | 4 . 0 | | |
| 221 | 4.42 | 927 | 2.87 | 46617 | 4 . 5 | | |
| 193 | 5.04 | 1053 | 2.87 | 47389 | 5 . 0 | | |
| 176 | 5.54 | 1158 | 2.87 | 48169 | 5 . 6 | | |
| 157 | 6.21 | 1301 | 2.87 | 49031 | 6 . 3 | | |
| 142 | 6.88 | 1444 | 2.87 | 49812 | 7 . 1 | | |
| 125 | 7.78 | 1625 | 2.87 | 50854 | 8 . 0 | | |
| 113 | 8.62 | 1799 | 2.87 | 51558 | 9 . 0 | | |
| 99 | 9.89 | 2071 | 2.87 | 52476 | 1 0 . | | |
| 87 | 11.2 | 2352 | 2.53 | 53404 | 1 1 . | | |
| 79 | 12.39 | 2585 | 2.46 | 53867 | 1 2 . | | |
| 69 | 14.03 | 2930 | 2.15 | 54500 | 1 4 . | | |
| 61 | 15.97 | 3340 | 1.86 | 55592 | 1 6 . | | |
| 54 | 18 | 3761 | 1.65 | 56250 | 1 8 . | | |
| 49 | 20 | 4168 | 1.52 | 57575 | 2 0 . | | |
| 43 | 22.55 | 4694 | 1.35 | 58625 | 2 2 . | | |
| 38 | 25.45 | 5287 | 1.17 | 58564 | 2 5 . | | |
| 34 | 28.35 | 5890 | 1.05 | 59228 | 2 8 . | | |
| 31 | 31.89 | 6613 | 0.96 | 59030 | 3 2 . | | |
| 27 | 35.52 | 7355 | 0.86 | 60706 | 3 6 . | | |
| 25 | 39.01 | 8042 | 0.8 | 58551 | 4 0 . | | |
| 64 | 15.13 | 3159 | 3.29 | 74100 | M 1 4 2 1 1 4 . _ M _ _ _ _ 2 2 . C - - | 586 | 200L |
| 59 | 16.43 | 3425 | 3.24 | 75400 | 1 6 . | | |
| 54 | 18.11 | 3774 | 2.94 | 77252 | 1 8 . | | |
| 45 | 21.75 | 4528 | 2.34 | 79634 | 2 0 . | | |
| 41 | 23.97 | 4998 | 2.16 | 78485 | 2 2 . | | |
| 37 | 26.07 | 5441 | 1.95 | 78835 | 2 5 . | | |
| 35 | 28.25 | 5874 | 1.7 | 77725 | 2 8 . | | |
| 28 | 34.51 | 7175 | 1.49 | 75975 | 3 2 . | | |
| 26 | 37.39 | 7746 | 1.39 | 75375 | 3 6 . | | |
| 25 | 39.42 | 8133 | 1.24 | 80706 | 4 0 . | | |
| 23 | 42.71 | 8821 | 1.14 | 80752 | 4 5 . | | |
| 24 | 41.36 | 8550 | 1.23 | 65304 | M 1 4 3 1 4 0 . _ M _ _ _ _ 2 2 . C - - | 631 | 200L |
| 20 | 48.21 | 9887 | 1.11 | 65304 | 4 5 . | | |
| 18 | 54.75 | 11239 | 0.98 | 65304 | 5 0 . | | |
| 16 | 59.46 | 12205 | 0.91 | 80900 | 5 6 . | | |
| 15 | 65.55 | 13508 | 0.82 | 80900 | 6 3 . | | |

NOTE

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

## 30.0 kW

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 994 | 1.48 | 281 | 2.64 | 13326 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 3 0 . A - - | 368 | 200L |
| 722 | 2.04 | 387 | 2.56 | 14700 | 1 . 8 | | |
| 644 | 2.28 | 434 | 2.48 | 15200 | 2 . 2 | | |
| 574 | 2.56 | 486 | 2.22 | 15700 | 2 . 5 | | |
| 495 | 2.97 | 562 | 2.49 | 16600 | 2 . 8 | | |
| 445 | 3.3 | 632 | 1.72 | 16900 | 3 . 2 | | |
| 399 | 3.69 | 705 | 1.54 | 17450 | 3 . 6 | | |
| 360 | 4.09 | 774 | 2.06 | 17850 | 4 . 0 | | |
| 321 | 4.58 | 872 | 1.93 | 18100 | 4 . 5 | | |
| 290 | 5.07 | 964 | 1.81 | 18300 | 5 . 0 | | |
| 259 | 5.69 | 1077 | 1.69 | 18450 | 5 . 6 | | |
| 222 | 6.63 | 1259 | 1.52 | 18450 | 6 . 3 | | |
| 199 | 7.4 | 1405 | 1.42 | 18136 | 7 . 1 | | |
| 179 | 8.22 | 1558 | 1.33 | 18263 | 8 . 0 | | |
| 160 | 9.19 | 1744 | 1.24 | 17790 | 9 . 0 | | |
| 143 | 10.27 | 1955 | 1.15 | 14859 | 1 0 . | | |
| 126 | 11.71 | 2226 | 1.05 | 15300 | 1 1 . | | |
| 115 | 12.74 | 2419 | 1 | 15300 | 1 2 . | | |
| 101 | 14.53 | 2762 | 0.92 | 13400 | 1 4 . | | |
| 1019 | 1.44 | 273 | 2.64 | 17995 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 3 0 . A - - | 414 | 200L |
| 730 | 2.01 | 382 | 2.64 | 19960 | 1 . 8 | | |
| 671 | 2.19 | 416 | 2.64 | 20460 | 2 . 2 | | |
| 591 | 2.49 | 473 | 2.64 | 21260 | 2 . 5 | | |
| 491 | 2.99 | 563 | 2.64 | 22626 | 2 . 8 | | |
| 453 | 3.24 | 615 | 2.49 | 23056 | 3 . 2 | | |
| 420 | 3.5 | 666 | 2.34 | 23556 | 3 . 6 | | |
| 352 | 4.18 | 790 | 2.64 | 25056 | 4 . 0 | | |
| 323 | 4.55 | 862 | 2.64 | 25356 | 4 . 5 | | |
| 298 | 4.94 | 934 | 2.64 | 25621 | 5 . 0 | | |
| 274 | 5.37 | 1017 | 2.64 | 25886 | 5 . 6 | | |
| 219 | 6.72 | 1274 | 2.46 | 26417 | 6 . 3 | | |
| 202 | 7.26 | 1374 | 2.34 | 26649 | 7 . 1 | | |
| 185 | 7.95 | 1504 | 2.21 | 27049 | 8 . 0 | | |
| 171 | 8.58 | 1621 | 2.11 | 27400 | 9 . 0 | | |
| 139 | 10.59 | 2009 | 1.83 | 28100 | 1 0 . | | |
| 123 | 11.98 | 2272 | 1.66 | 28550 | 1 1 . | | |
| 118 | 12.51 | 2368 | 1.64 | 28750 | 1 2 . | | |
| 104 | 14.16 | 2675 | 1.51 | 29227 | 1 4 . | | |
| 506 | 2.9 | 548 | 3.17 | 39200 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 3 0 . A - - | 475 | 200L |
| 461 | 3.19 | 602 | 3.17 | 40200 | 3 . 2 | | |
| 404 | 3.64 | 684 | 3.17 | 41800 | 3 . 6 | | |
| 365 | 4.03 | 763 | 3.17 | 43000 | 4 . 0 | | |
| 333 | 4.42 | 839 | 3.17 | 44100 | 4 . 5 | | |
| 292 | 5.04 | 952 | 3.17 | 44800 | 5 . 0 | | |
| 265 | 5.54 | 1047 | 3.17 | 45300 | 5 . 6 | | |
| 237 | 6.21 | 1176 | 3.17 | 45800 | 6 . 3 | | |
| 214 | 6.88 | 1302 | 3.17 | 46300 | 7 . 1 | | |
| 189 | 7.78 | 1470 | 3.17 | 47100 | 8 . 0 | | |
| 171 | 8.62 | 1627 | 3.17 | 47800 | 9 . 0 | | |
| 149 | 9.89 | 1873 | 3.17 | 48800 | 1 0 . | | |
| 131 | 11.2 | 2125 | 2.79 | 49517 | 1 1 . | | |
| 119 | 12.39 | 2340 | 2.71 | 50288 | 1 2 . | | |
| 105 | 14.03 | 2647 | 2.38 | 50461 | 1 4 . | | |
| 92 | 15.97 | 3017 | 2.05 | 51237 | 1 6 . | | |
| 82 | 18 | 3403 | 1.82 | 51562 | 1 8 . | | |
| 73 | 20 | 3765 | 1.69 | 51975 | 2 0 . | | |
| 65 | 22.55 | 4241 | 1.5 | 52132 | 2 2 . | | |
| 58 | 25.45 | 4790 | 1.29 | 53590 | 2 5 . | | |
| 52 | 28.35 | 5333 | 1.16 | 55208 | 2 8 . | | |
| 46 | 31.89 | 5984 | 1.06 | 56057 | 3 2 . | | |
| 41 | 35.52 | 6639 | 0.96 | 58200 | 3 6 . | | |
| 38 | 39.01 | 7296 | 0.89 | 56700 | 4 0 . | | |
| 97 | 15.13 | 2849 | 3.65 | 68600 | M 1 4 2 1 1 4 . _ M _ _ _ _ 3 0 . A - - | 586 | 200L |
| 89 | 16.43 | 3096 | 3.21 | 69600 | 1 6 . | | |
| 81 | 18.11 | 3428 | 3 | 70600 | 1 8 . | | |
| 68 | 21.75 | 4089 | 2.59 | 71941 | 2 0 . | | |
| 61 | 23.97 | 4520 | 2.39 | 72513 | 2 2 . | | |
| 56 | 26.07 | 4870 | 2.16 | 73600 | 2 5 . | | |
| 52 | 28.25 | 5306 | 1.88 | 75987 | 2 8 . | | |
| 43 | 34.51 | 6488 | 1.65 | 75912 | 3 2 . | | |
| 39 | 37.39 | 7008 | 1.54 | 75650 | 3 6 . | | |
| 37 | 39.42 | 7372 | 1.35 | 80463 | 4 0 . | | |
| 34 | 42.71 | 7976 | 1.25 | 80900 | 4 5 . | | |
| 36 | 41.36 | 7685 | 1.27 | 65824 | M 1 4 3 1 4 0 . _ M _ _ _ _ 3 0 . A - - | 631 | 200L |
| 30 | 48.21 | 8942 | 1.23 | 65824 | 4 5 . | | |
| 27 | 54.75 | 10140 | 1.08 | 65824 | 5 0 . | | |
| 25 | 59.46 | 11057 | 0.95 | 65600 | 5 6 . | | |
| 22 | 65.55 | 12178 | 0.88 | 65600 | 6 3 . | | |

NOTE

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

## 30.0 kW

6 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation<br>Column Entry 1 Through 20<br>Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 663 | 1.48 | 422 | 1.76 | 15000 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 3 0 . C - - | 462 | 225M |
| 481 | 2.04 | 584 | 1.76 | 16400 | 1 . 8 | | |
| 429 | 2.28 | 656 | 1.66 | 16900 | 2 . 2 | | |
| 383 | 2.56 | 736 | 1.48 | 17400 | 2 . 5 | | |
| 330 | 2.97 | 845 | 1.76 | 17800 | 2 . 8 | | |
| 297 | 3.3 | 947 | 1.15 | 17600 | 3 . 2 | | |
| 266 | 3.69 | 1060 | 1.03 | 17700 | 3 . 6 | | |
| 240 | 4.09 | 1163 | 1.56 | 18200 | 4 . 0 | | |
| 214 | 4.58 | 1310 | 1.45 | 18400 | 4 . 5 | | |
| 193 | 5.07 | 1447 | 1.37 | 18700 | 5 . 0 | | |
| 172 | 5.69 | 1618 | 1.27 | 18900 | 5 . 6 | | |
| 148 | 6.63 | 1886 | 1.15 | 17100 | 6 . 3 | | |
| 132 | 7.4 | 2108 | 1.07 | 15900 | 7 . 1 | | |
| 119 | 8.22 | 2343 | 1.01 | 15700 | 8 . 0 | | |
| 107 | 9.19 | 2618 | 0.94 | 14100 | 9 . 0 | | |
| 95 | 10.27 | 2927 | 0.86 | 10900 | 1 0 . | | |
| 679 | 1.44 | 409 | 1.76 | 20300 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 3 0 . C - - | 508 | 225M |
| 486 | 2.01 | 573 | 1.76 | 22500 | 1 . 8 | | |
| 447 | 2.19 | 624 | 1.76 | 23100 | 2 . 2 | | |
| 394 | 2.49 | 709 | 1.76 | 24000 | 2 . 5 | | |
| 328 | 2.99 | 850 | 1.76 | 25200 | 2 . 8 | | |
| 302 | 3.24 | 926 | 1.69 | 25100 | 3 . 2 | | |
| 280 | 3.5 | 1000 | 1.57 | 25300 | 3 . 6 | | |
| 234 | 4.18 | 1185 | 1.76 | 26000 | 4 . 0 | | |
| 216 | 4.55 | 1293 | 1.76 | 26200 | 4 . 5 | | |
| 198 | 4.94 | 1401 | 1.76 | 26500 | 5 . 0 | | |
| 182 | 5.37 | 1526 | 1.76 | 26800 | 5 . 6 | | |
| 146 | 6.72 | 1911 | 1.76 | 27500 | 6 . 3 | | |
| 135 | 7.26 | 2065 | 1.76 | 27700 | 7 . 1 | | |
| 123 | 7.95 | 2255 | 1.67 | 28100 | 8 . 0 | | |
| 114 | 8.58 | 2435 | 1.59 | 28300 | 9 . 0 | | |
| 93 | 10.59 | 3010 | 1.25 | 28700 | 1 0 . | | |
| 82 | 11.98 | 3408 | 1.11 | 28900 | 1 1 . | | |
| 78 | 12.51 | 3552 | 1.24 | 29100 | 1 2 . | | |
| 69 | 14.16 | 4024 | 1.1 | 27500 | 1 4 . | | |
| 337 | 2.9 | 823 | 2.11 | 44090 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 3 0 . C - - | 569 | 225M |
| 307 | 3.19 | 903 | 2.11 | 44558 | 3 . 2 | | |
| 269 | 3.64 | 1031 | 2.11 | 45195 | 3 . 6 | | |
| 243 | 4.03 | 1145 | 2.11 | 45732 | 4 . 0 | | |
| 222 | 4.42 | 1258 | 2.11 | 46201 | 4 . 5 | | |
| 194 | 5.04 | 1429 | 2.11 | 46906 | 5 . 0 | | |
| 177 | 5.54 | 1571 | 2.11 | 47643 | 5 . 6 | | |
| 158 | 6.21 | 1765 | 2.11 | 48417 | 6 . 3 | | |
| 142 | 6.88 | 1959 | 2.11 | 49154 | 7 . 1 | | |
| 126 | 7.78 | 2205 | 2.11 | 50065 | 8 . 0 | | |
| 114 | 8.62 | 2441 | 2.11 | 50550 | 9 . 0 | | |
| 99 | 9.89 | 2811 | 2.11 | 51052 | 1 0 . | | |
| 88 | 11.2 | 3191 | 1.86 | 51584 | 1 1 . | | |
| 79 | 12.39 | 3507 | 1.81 | 51887 | 1 2 . | | |
| 70 | 14.03 | 3975 | 1.58 | 52100 | 1 4 . | | |
| 61 | 15.97 | 4532 | 1.37 | 52612 | 1 6 . | | |
| 54 | 18 | 5103 | 1.21 | 52868 | 1 8 . | | |
| 49 | 20 | 5654 | 1.12 | 53775 | 2 0 . | | |
| 43 | 22.55 | 6369 | 1 | 54134 | 2 2 . | | |
| 39 | 25.45 | 7173 | 0.86 | 54020 | 2 5 . | | |
| 339 | 2.89 | 817 | 3.08 | 56900 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 3 0 . C - - | 681 | 225M |
| 302 | 3.25 | 921 | 3.08 | 58400 | 3 . 2 | | |
| 256 | 3.82 | 1080 | 3.08 | 59600 | 3 . 6 | | |
| 243 | 4.03 | 1145 | 3.08 | 60000 | 4 . 0 | | |
| 216 | 4.54 | 1287 | 3.08 | 60800 | 4 . 5 | | |
| 184 | 5.33 | 1511 | 3.08 | 62000 | 5 . 0 | | |
| 163 | 6 | 1699 | 3.08 | 63200 | 5 . 6 | | |
| 150 | 6.55 | 1858 | 3.08 | 64200 | 6 . 3 | | |
| 135 | 7.27 | 2062 | 3.08 | 65300 | 7 . 1 | | |
| 113 | 8.67 | 2455 | 3.08 | 67100 | 8 . 0 | | |
| 102 | 9.62 | 2724 | 3.08 | 68200 | 9 . 0 | | |
| 97 | 10.06 | 2857 | 3.08 | 68700 | 1 0 . | | |
| 86 | 11.43 | 3240 | 3.08 | 70100 | 1 1 . | | |
| 74 | 13.32 | 3756 | 2.72 | 71600 | 1 2 . | | |
| 65 | 15.13 | 4286 | 2.43 | 72621 | 1 4 . | | |
| 60 | 16.43 | 4646 | 2.39 | 74066 | 1 6 . | | |
| 54 | 18.11 | 5120 | 2.17 | 75542 | 1 8 . | | |
| 45 | 21.75 | 6144 | 1.73 | 76741 | 2 0 . | | |
| 41 | 23.97 | 6781 | 1.59 | 75725 | 2 2 . | | |
| 38 | 26.07 | 7381 | 1.44 | 76475 | 2 5 . | | |
| 35 | 28.25 | 7969 | 1.25 | 75415 | 2 8 . | | |
| 28 | 34.51 | 9735 | 1.1 | 72393 | 3 2 . | | |
| 26 | 37.39 | 10509 | 1.03 | 71356 | 3 6 . | | |
| 25 | 39.42 | 11034 | 0.92 | 80600 | 4 0 . | | |
| 23 | 42.71 | 11968 | 0.84 | 80671 | 4 5 . | | |
| 24 | 41.36 | 11600 | 0.91 | 64700 | M 1 4 3 1 4 0 . _ M _ _ _ _ 3 0 . C - - | 726 | 225M |
| 20 | 48.21 | 13413 | 0.82 | 64700 | 4 5 . | | |

NOTE

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

## 37.0 kW

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 997 | 1.48 | 345 | 2.15 | 13220 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 3 7 . A - - | 427 | 225S |
| 724 | 2.04 | 476 | 2.09 | 14560 | 1 . 8 | | |
| 646 | 2.28 | 534 | 2.02 | 15013 | 2 . 2 | | |
| 576 | 2.56 | 597 | 1.81 | 15513 | 2 . 5 | | |
| 497 | 2.97 | 690 | 2.03 | 16413 | 2 . 8 | | |
| 447 | 3.3 | 777 | 1.4 | 16666 | 3 . 2 | | |
| 400 | 3.69 | 867 | 1.26 | 17193 | 3 . 6 | | |
| 361 | 4.09 | 952 | 1.68 | 17593 | 4 . 0 | | |
| 322 | 4.58 | 1072 | 1.57 | 17820 | 4 . 5 | | |
| 291 | 5.07 | 1185 | 1.48 | 18020 | 5 . 0 | | |
| 259 | 5.69 | 1323 | 1.37 | 18100 | 5 . 6 | | |
| 223 | 6.63 | 1548 | 1.24 | 17960 | 6 . 3 | | |
| 199 | 7.4 | 1727 | 1.16 | 17372 | 7 . 1 | | |
| 179 | 8.22 | 1915 | 1.09 | 17393 | 8 . 0 | | |
| 161 | 9.19 | 2144 | 1.01 | 16581 | 9 . 0 | | |
| 144 | 10.27 | 2403 | 0.93 | 12700 | 1 0 . | | |
| 1023 | 1.44 | 335 | 2.15 | 17904 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 3 7 . A - - | 473 | 225S |
| 732 | 2.01 | 469 | 2.15 | 19839 | 1 . 8 | | |
| 673 | 2.19 | 511 | 2.15 | 20339 | 2 . 2 | | |
| 593 | 2.49 | 581 | 2.15 | 21139 | 2 . 5 | | |
| 493 | 2.99 | 693 | 2.15 | 22473 | 2 . 8 | | |
| 455 | 3.24 | 756 | 2.02 | 22843 | 3 . 2 | | |
| 421 | 3.5 | 818 | 1.91 | 23343 | 3 . 6 | | |
| 353 | 4.18 | 972 | 2.15 | 24843 | 4 . 0 | | |
| 325 | 4.55 | 1060 | 2.15 | 25143 | 4 . 5 | | |
| 299 | 4.94 | 1148 | 2.15 | 25378 | 5 . 0 | | |
| 275 | 5.37 | 1251 | 2.15 | 25613 | 5 . 6 | | |
| 219 | 6.72 | 1566 | 2 | 26082 | 6 . 3 | | |
| 203 | 7.26 | 1690 | 1.91 | 26252 | 7 . 1 | | |
| 186 | 7.95 | 1849 | 1.8 | 26652 | 8 . 0 | | |
| 172 | 8.58 | 1993 | 1.72 | 26933 | 9 . 0 | | |
| 139 | 10.59 | 2469 | 1.49 | 27493 | 1 0 . | | |
| 123 | 11.98 | 2792 | 1.35 | 27873 | 1 1 . | | |
| 118 | 12.51 | 2911 | 1.34 | 28073 | 1 2 . | | |
| 104 | 14.16 | 3288 | 1.23 | 28421 | 1 4 . | | |
| 508 | 2.9 | 674 | 2.58 | 39071 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 3 7 . A - - | 534 | 225S |
| 463 | 3.19 | 740 | 2.58 | 40071 | 3 . 2 | | |
| 405 | 3.64 | 841 | 2.58 | 41648 | 3 . 6 | | |
| 366 | 4.03 | 938 | 2.58 | 42825 | 4 . 0 | | |
| 334 | 4.42 | 1031 | 2.58 | 43913 | 4 . 5 | | |
| 293 | 5.04 | 1171 | 2.58 | 44590 | 5 . 0 | | |
| 266 | 5.54 | 1287 | 2.58 | 45066 | 5 . 6 | | |
| 238 | 6.21 | 1446 | 2.58 | 45543 | 6 . 3 | | |
| 214 | 6.88 | 1601 | 2.58 | 46020 | 7 . 1 | | |
| 190 | 7.78 | 1807 | 2.58 | 46773 | 8 . 0 | | |
| 171 | 8.62 | 2000 | 2.58 | 47368 | 9 . 0 | | |
| 149 | 9.89 | 2303 | 2.58 | 48181 | 1 0 . | | |
| 132 | 11.2 | 2612 | 2.27 | 48745 | 1 1 . | | |
| 119 | 12.39 | 2876 | 2.21 | 49402 | 1 2 . | | |
| 105 | 14.03 | 3254 | 1.93 | 49098 | 1 4 . | | |
| 92 | 15.97 | 3709 | 1.67 | 49855 | 1 6 . | | |
| 82 | 18 | 4183 | 1.48 | 49865 | 1 8 . | | |
| 74 | 20 | 4628 | 1.37 | 50050 | 2 0 . | | |
| 65 | 22.55 | 5213 | 1.22 | 49967 | 2 2 . | | |
| 58 | 25.45 | 5888 | 1.05 | 51215 | 2 5 . | | |
| 52 | 28.35 | 6555 | 0.95 | 52800 | 2 8 . | | |
| 46 | 31.89 | 7355 | 0.86 | 53400 | 3 2 . | | |
| 511 | 2.89 | 669 | 3.77 | 50300 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 3 7 . A - - | 646 | 225S |
| 454 | 3.25 | 754 | 3.77 | 52100 | 3 . 2 | | |
| 386 | 3.82 | 884 | 3.77 | 54600 | 3 . 6 | | |
| 366 | 4.03 | 937 | 3.77 | 55400 | 4 . 0 | | |
| 325 | 4.54 | 1054 | 3.77 | 57400 | 4 . 5 | | |
| 277 | 5.33 | 1237 | 3.77 | 58800 | 5 . 0 | | |
| 246 | 6 | 1391 | 3.77 | 59600 | 5 . 6 | | |
| 225 | 6.55 | 1521 | 3.77 | 60200 | 6 . 3 | | |
| 203 | 7.27 | 1688 | 3.77 | 60900 | 7 . 1 | | |
| 170 | 8.67 | 2009 | 3.77 | 62400 | 8 . 0 | | |
| 153 | 9.62 | 2230 | 3.77 | 63400 | 9 . 0 | | |
| 147 | 10.06 | 2336 | 3.77 | 63900 | 1 0 . | | |
| 129 | 11.43 | 2662 | 3.44 | 65200 | 1 1 . | | |
| 111 | 13.32 | 3066 | 3.33 | 66700 | 1 2 . | | |
| 98 | 15.13 | 3502 | 2.97 | 67981 | 1 4 . | | |
| 90 | 16.43 | 3805 | 2.61 | 68981 | 1 6 . | | |
| 81 | 18.11 | 4214 | 2.44 | 69783 | 1 8 . | | |
| 68 | 21.75 | 5026 | 2.11 | 70489 | 2 0 . | | |
| 62 | 23.97 | 5556 | 1.94 | 70879 | 2 2 . | | |
| 57 | 26.07 | 5986 | 1.75 | 71531 | 2 5 . | | |
| 52 | 28.25 | 6522 | 1.53 | 74395 | 2 8 . | | |
| 43 | 34.51 | 7975 | 1.34 | 73585 | 3 2 . | | |
| 39 | 37.39 | 8614 | 1.25 | 73200 | 3 6 . | | |
| 37 | 39.42 | 9061 | 1.1 | 80293 | 4 0 . | | |
| 35 | 42.71 | 9804 | 1.02 | 80900 | 4 5 . | | |
| 36 | 41.36 | 9447 | 1.03 | 65600 | M 1 4 3 1 4 0 . _ M _ _ _ _ 3 7 . A - - | 691 | 225S |
| 31 | 48.21 | 10991 | 1 | 65600 | 4 5 . | | |
| 27 | 54.75 | 12464 | 0.88 | 65600 | 5 0 . | | |

NOTE

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

## 37.0 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 337 | 2.9 | 1015 | 1.71 | 43841 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 3 7 . C - - | 646 | 250M |
| 307 | 3.19 | 1114 | 1.71 | 44290 | 3 . 2 | | |
| 269 | 3.64 | 1272 | 1.71 | 44889 | 3 . 6 | | |
| 243 | 4.03 | 1412 | 1.71 | 45387 | 4 . 0 | | |
| 222 | 4.42 | 1552 | 1.71 | 45836 | 4 . 5 | | |
| 194 | 5.04 | 1762 | 1.71 | 46484 | 5 . 0 | | |
| 177 | 5.54 | 1937 | 1.71 | 47183 | 5 . 6 | | |
| 158 | 6.21 | 2177 | 1.71 | 47880 | 6 . 3 | | |
| 142 | 6.88 | 2416 | 1.71 | 48579 | 7 . 1 | | |
| 126 | 7.78 | 2719 | 1.71 | 49375 | 8 . 0 | | |
| 114 | 8.62 | 3011 | 1.71 | 49668 | 9 . 0 | | |
| 99 | 9.89 | 3466 | 1.71 | 49805 | 1 0 . | | |
| 88 | 11.2 | 3935 | 1.51 | 49993 | 1 1 . | | |
| 79 | 12.39 | 4326 | 1.47 | 50155 | 1 2 . | | |
| 70 | 14.03 | 4902 | 1.28 | 50000 | 1 4 . | | |
| 61 | 15.97 | 5590 | 1.11 | 50005 | 1 6 . | | |
| 54 | 18 | 6294 | 0.98 | 49909 | 1 8 . | | |
| 49 | 20 | 6974 | 0.91 | 50450 | 2 0 . | | |
| 43 | 22.55 | 7855 | 0.81 | 50204 | 2 2 . | | |
| 339 | 2.89 | 1008 | 2.5 | 56704 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 3 7 . C - - | 761 | 250M |
| 302 | 3.25 | 1136 | 2.5 | 58176 | 3 . 2 | | |
| 256 | 3.82 | 1332 | 2.5 | 59320 | 3 . 6 | | |
| 243 | 4.03 | 1412 | 2.5 | 59720 | 4 . 0 | | |
| 216 | 4.54 | 1588 | 2.5 | 60492 | 4 . 5 | | |
| 184 | 5.33 | 1864 | 2.5 | 61608 | 5 . 0 | | |
| 163 | 6 | 2096 | 2.5 | 62780 | 5 . 6 | | |
| 150 | 6.55 | 2292 | 2.5 | 63724 | 6 . 3 | | |
| 135 | 7.27 | 2544 | 2.5 | 64768 | 7 . 1 | | |
| 113 | 8.67 | 3028 | 2.5 | 66456 | 8 . 0 | | |
| 102 | 9.62 | 3360 | 2.5 | 67500 | 9 . 0 | | |
| 97 | 10.06 | 3524 | 2.5 | 68000 | 1 0 . | | |
| 86 | 11.43 | 3996 | 2.5 | 69288 | 1 1 . | | |
| 74 | 13.32 | 4632 | 2.2 | 70620 | 1 2 . | | |
| 65 | 15.13 | 5286 | 1.97 | 71327 | 1 4 . | | |
| 60 | 16.43 | 5731 | 1.94 | 72900 | 1 6 . | | |
| 54 | 18.11 | 6315 | 1.76 | 74046 | 1 8 . | | |
| 45 | 21.75 | 7577 | 1.4 | 74209 | 2 0 . | | |
| 41 | 23.97 | 8364 | 1.29 | 73310 | 2 2 . | | |
| 38 | 26.07 | 9104 | 1.16 | 74410 | 2 5 . | | |
| 35 | 28.25 | 9829 | 1.02 | 73395 | 2 8 . | | |
| 28 | 34.51 | 12006 | 0.89 | 69259 | 3 2 . | | |
| 26 | 37.39 | 12961 | 0.83 | 67840 | 3 6 . | | |

NOTE

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

**45.0 kW**

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 997 | 1.48 | 420 | 1.77 | 13100 | M 0 9 2 1 1 . 4 _ M _ _ _ _ 4 5 . A - - | 462 | 225M |
| 724 | 2.04 | 579 | 1.72 | 14400 | 1 . 8 | | |
| 646 | 2.28 | 650 | 1.66 | 14800 | 2 . 2 | | |
| 576 | 2.56 | 727 | 1.49 | 15300 | 2 . 5 | | |
| 497 | 2.97 | 840 | 1.67 | 16200 | 2 . 8 | | |
| 447 | 3.3 | 945 | 1.15 | 16400 | 3 . 2 | | |
| 400 | 3.69 | 1055 | 1.03 | 16900 | 3 . 6 | | |
| 361 | 4.09 | 1158 | 1.38 | 17300 | 4 . 0 | | |
| 322 | 4.58 | 1303 | 1.29 | 17500 | 4 . 5 | | |
| 291 | 5.07 | 1441 | 1.21 | 17700 | 5 . 0 | | |
| 259 | 5.69 | 1610 | 1.13 | 17700 | 5 . 6 | | |
| 223 | 6.63 | 1883 | 1.02 | 17400 | 6 . 3 | | |
| 199 | 7.4 | 2101 | 0.95 | 16500 | 7 . 1 | | |
| 179 | 8.22 | 2329 | 0.89 | 16400 | 8 . 0 | | |
| 161 | 9.19 | 2608 | 0.83 | 15200 | 9 . 0 | | |
| 1023 | 1.44 | 408 | 1.77 | 17800 | M 1 0 2 1 1 . 4 _ M _ _ _ _ 4 5 . A - - | 508 | 225M |
| 732 | 2.01 | 571 | 1.77 | 19700 | 1 . 8 | | |
| 673 | 2.19 | 622 | 1.77 | 20200 | 2 . 2 | | |
| 593 | 2.49 | 707 | 1.77 | 21000 | 2 . 5 | | |
| 493 | 2.99 | 842 | 1.77 | 22300 | 2 . 8 | | |
| 455 | 3.24 | 919 | 1.66 | 22600 | 3 . 2 | | |
| 421 | 3.5 | 995 | 1.57 | 23100 | 3 . 6 | | |
| 353 | 4.18 | 1182 | 1.77 | 24600 | 4 . 0 | | |
| 325 | 4.55 | 1289 | 1.77 | 24900 | 4 . 5 | | |
| 299 | 4.94 | 1397 | 1.77 | 25100 | 5 . 0 | | |
| 275 | 5.37 | 1521 | 1.77 | 25300 | 5 . 6 | | |
| 219 | 6.72 | 1905 | 1.65 | 25700 | 6 . 3 | | |
| 203 | 7.26 | 2055 | 1.57 | 25800 | 7 . 1 | | |
| 186 | 7.95 | 2249 | 1.48 | 26200 | 8 . 0 | | |
| 172 | 8.58 | 2424 | 1.41 | 26400 | 9 . 0 | | |
| 139 | 10.59 | 3003 | 1.23 | 26800 | 1 0 . | | |
| 123 | 11.98 | 3396 | 1.11 | 27100 | 1 1 . | | |
| 118 | 12.51 | 3540 | 1.1 | 27300 | 1 2 . | | |
| 104 | 14.16 | 3999 | 1.01 | 27500 | 1 4 . | | |
| 90 | 16.43 | 4645 | 0.81 | 24900 | 1 6 . | | |
| 508 | 2.9 | 820 | 2.12 | 38925 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 4 5 . A - - | 569 | 225M |
| 463 | 3.19 | 900 | 2.12 | 39925 | 3 . 2 | | |
| 405 | 3.64 | 1023 | 2.12 | 41475 | 3 . 6 | | |
| 366 | 4.03 | 1141 | 2.12 | 42625 | 4 . 0 | | |
| 334 | 4.42 | 1254 | 2.12 | 43700 | 4 . 5 | | |
| 293 | 5.04 | 1424 | 2.12 | 44350 | 5 . 0 | | |
| 266 | 5.54 | 1565 | 2.12 | 44800 | 5 . 6 | | |
| 238 | 6.21 | 1759 | 2.12 | 45250 | 6 . 3 | | |
| 214 | 6.88 | 1947 | 2.12 | 45700 | 7 . 1 | | |
| 190 | 7.78 | 2197 | 2.12 | 46400 | 8 . 0 | | |
| 171 | 8.62 | 2433 | 2.12 | 46875 | 9 . 0 | | |
| 149 | 9.89 | 2801 | 2.12 | 47475 | 1 0 . | | |
| 132 | 11.2 | 3177 | 1.87 | 47863 | 1 1 . | | |
| 119 | 12.39 | 3498 | 1.82 | 48391 | 1 2 . | | |
| 105 | 14.03 | 3958 | 1.59 | 47540 | 1 4 . | | |
| 92 | 15.97 | 4511 | 1.37 | 48275 | 1 6 . | | |
| 82 | 18 | 5088 | 1.22 | 47925 | 1 8 . | | |
| 74 | 20 | 5629 | 1.13 | 47850 | 2 0 . | | |
| 65 | 22.55 | 6341 | 1 | 47493 | 2 2 . | | |
| 58 | 25.45 | 7161 | 0.87 | 48500 | 2 5 . | | |
| 511 | 2.89 | 813 | 3.1 | 50194 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 4 5 . A - - | 681 | 225M |
| 454 | 3.25 | 917 | 3.1 | 51979 | 3 . 2 | | |
| 386 | 3.82 | 1075 | 3.1 | 54449 | 3 . 6 | | |
| 366 | 4.03 | 1139 | 3.1 | 55249 | 4 . 0 | | |
| 325 | 4.54 | 1281 | 3.1 | 57218 | 4 . 5 | | |
| 277 | 5.33 | 1504 | 3.1 | 58588 | 5 . 0 | | |
| 246 | 6 | 1691 | 3.1 | 59358 | 5 . 6 | | |
| 225 | 6.55 | 1850 | 3.1 | 59943 | 6 . 3 | | |
| 203 | 7.27 | 2053 | 3.1 | 60628 | 7 . 1 | | |
| 170 | 8.67 | 2444 | 3.1 | 62052 | 8 . 0 | | |
| 153 | 9.62 | 2712 | 3.1 | 63022 | 9 . 0 | | |
| 147 | 10.06 | 2841 | 3.1 | 63507 | 1 0 . | | |
| 129 | 11.43 | 3238 | 2.83 | 64762 | 1 1 . | | |
| 111 | 13.32 | 3729 | 2.74 | 66171 | 1 2 . | | |
| 98 | 15.13 | 4259 | 2.44 | 67275 | 1 4 . | | |
| 90 | 16.43 | 4628 | 2.15 | 68275 | 1 6 . | | |
| 81 | 18.11 | 5125 | 2.01 | 68850 | 1 8 . | | |
| 68 | 21.75 | 6113 | 1.73 | 68830 | 2 0 . | | |
| 62 | 23.97 | 6757 | 1.6 | 69010 | 2 2 . | | |
| 57 | 26.07 | 7280 | 1.44 | 69167 | 2 5 . | | |
| 52 | 28.25 | 7932 | 1.26 | 72575 | 2 8 . | | |
| 43 | 34.51 | 9699 | 1.1 | 70925 | 3 2 . | | |
| 39 | 37.39 | 10477 | 1.03 | 70400 | 3 6 . | | |
| 37 | 39.42 | 11020 | 0.9 | 80100 | 4 0 . | | |

NOTE

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

## 45.0 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | Kg | |
|---|---|---|---|---|---|---|---|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry [1] Through [20] Spaces to be filled when entering order | Weight | Motor Size |
| 337 | 2.9 | 1235 | 1.41 | 43556 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 4 5 . C - - | 771 | 280S |
| 307 | 3.19 | 1355 | 1.41 | 43983 | 3 . 2 | | |
| 269 | 3.64 | 1547 | 1.41 | 44538 | 3 . 6 | | |
| 243 | 4.03 | 1717 | 1.41 | 44993 | 4 . 0 | | |
| 222 | 4.42 | 1888 | 1.41 | 45420 | 4 . 5 | | |
| 194 | 5.04 | 2143 | 1.41 | 46002 | 5 . 0 | | |
| 177 | 5.54 | 2356 | 1.41 | 46657 | 5 . 6 | | |
| 158 | 6.21 | 2647 | 1.41 | 47267 | 6 . 3 | | |
| 142 | 6.88 | 2938 | 1.41 | 47921 | 7 . 1 | | |
| 126 | 7.78 | 3307 | 1.41 | 48586 | 8 . 0 | | |
| 114 | 8.62 | 3662 | 1.41 | 48660 | 9 . 0 | | |
| 99 | 9.89 | 4216 | 1.41 | 48380 | 1 0 . | | |
| 88 | 11.2 | 4786 | 1.24 | 48173 | 1 1 . | | |
| 79 | 12.39 | 5261 | 1.21 | 48175 | 1 2 . | | |
| 70 | 14.03 | 5962 | 1.05 | 47600 | 1 4 . | | |
| 61 | 15.97 | 6798 | 0.91 | 47025 | 1 6 . | | |
| 54 | 18 | 7655 | 0.81 | 46527 | 1 8 . | | |
| 339 | 2.89 | 1226 | 2.06 | 56480 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 4 5 . C - - | 886 | 280S |
| 302 | 3.25 | 1381 | 2.06 | 57920 | 3 . 2 | | |
| 256 | 3.82 | 1620 | 2.06 | 59000 | 3 . 6 | | |
| 243 | 4.03 | 1717 | 2.06 | 59400 | 4 . 0 | | |
| 216 | 4.54 | 1931 | 2.06 | 60140 | 4 . 5 | | |
| 184 | 5.33 | 2267 | 2.06 | 61160 | 5 . 0 | | |
| 163 | 6 | 2549 | 2.06 | 62300 | 5 . 6 | | |
| 150 | 6.55 | 2787 | 2.06 | 63180 | 6 . 3 | | |
| 135 | 7.27 | 3094 | 2.06 | 64160 | 7 . 1 | | |
| 113 | 8.67 | 3683 | 2.06 | 65720 | 8 . 0 | | |
| 102 | 9.62 | 4087 | 2.06 | 66700 | 9 . 0 | | |
| 97 | 10.06 | 4286 | 2.06 | 67200 | 1 0 . | | |
| 86 | 11.43 | 4860 | 2.06 | 68360 | 1 1 . | | |
| 74 | 13.32 | 5634 | 1.81 | 69500 | 1 2 . | | |
| 65 | 15.13 | 6429 | 1.62 | 69848 | 1 4 . | | |
| 60 | 16.43 | 6970 | 1.59 | 71566 | 1 6 . | | |
| 54 | 18.11 | 7681 | 1.45 | 72336 | 1 8 . | | |
| 45 | 21.75 | 9216 | 1.15 | 71316 | 2 0 . | | |
| 41 | 23.97 | 10172 | 1.06 | 70550 | 2 2 . | | |
| 38 | 26.07 | 11072 | 0.96 | 72050 | 2 5 . | | |
| 35 | 28.25 | 11954 | 0.83 | 71086 | 2 8 . | | |

NOTE

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

**55.0 kW**

4 POLE

| N2 R/MIN | 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 | Motor Size |
| 508 | 2.9 | 1002 | 1.73 | 38741 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 5 5 . A - - | 646 | 250M |
| 463 | 3.19 | 1100 | 1.73 | 39741 | 3 . 2 | | |
| 405 | 3.64 | 1250 | 1.73 | 41258 | 3 . 6 | | |
| 366 | 4.03 | 1394 | 1.73 | 42375 | 4 . 0 | | |
| 334 | 4.42 | 1533 | 1.73 | 43433 | 4 . 5 | | |
| 293 | 5.04 | 1740 | 1.73 | 44050 | 5 . 0 | | |
| 266 | 5.54 | 1913 | 1.73 | 44466 | 5 . 6 | | |
| 238 | 6.21 | 2150 | 1.73 | 44883 | 6 . 3 | | |
| 214 | 6.88 | 2380 | 1.73 | 45300 | 7 . 1 | | |
| 190 | 7.78 | 2686 | 1.73 | 45933 | 8 . 0 | | |
| 171 | 8.62 | 2974 | 1.73 | 46258 | 9 . 0 | | |
| 149 | 9.89 | 3423 | 1.73 | 46591 | 1 0 . | | |
| 132 | 11.2 | 3883 | 1.53 | 46760 | 1 1 . | | |
| 119 | 12.39 | 4275 | 1.49 | 47126 | 1 2 . | | |
| 105 | 14.03 | 4837 | 1.3 | 45593 | 1 4 . | | |
| 92 | 15.97 | 5513 | 1.12 | 46300 | 1 6 . | | |
| 82 | 18 | 6219 | 1 | 45500 | 1 8 . | | |
| 74 | 20 | 6880 | 0.92 | 45100 | 2 0 . | | |
| 65 | 22.55 | 7750 | 0.82 | 44400 | 2 2 . | | |
| 511 | 2.89 | 994 | 2.53 | 50062 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 5 5 . A - - | 761 | 250M |
| 454 | 3.25 | 1120 | 2.53 | 51828 | 3 . 2 | | |
| 386 | 3.82 | 1314 | 2.53 | 54260 | 3 . 6 | | |
| 366 | 4.03 | 1393 | 2.53 | 55060 | 4 . 0 | | |
| 325 | 4.54 | 1566 | 2.53 | 56992 | 4 . 5 | | |
| 277 | 5.33 | 1839 | 2.53 | 58324 | 5 . 0 | | |
| 246 | 6 | 2067 | 2.53 | 59056 | 5 . 6 | | |
| 225 | 6.55 | 2261 | 2.53 | 59622 | 6 . 3 | | |
| 203 | 7.27 | 2510 | 2.53 | 60288 | 7 . 1 | | |
| 170 | 8.67 | 2987 | 2.53 | 61618 | 8 . 0 | | |
| 153 | 9.62 | 3315 | 2.53 | 62550 | 9 . 0 | | |
| 147 | 10.06 | 3472 | 2.53 | 63016 | 1 0 . | | |
| 129 | 11.43 | 3957 | 2.31 | 64215 | 1 1 . | | |
| 111 | 13.32 | 4557 | 2.24 | 65511 | 1 2 . | | |
| 98 | 15.13 | 5206 | 2 | 66391 | 1 4 . | | |
| 90 | 16.43 | 5657 | 1.76 | 67391 | 1 6 . | | |
| 81 | 18.11 | 6264 | 1.64 | 67683 | 1 8 . | | |
| 68 | 21.75 | 7472 | 1.42 | 66757 | 2 0 . | | |
| 62 | 23.97 | 8259 | 1.31 | 66674 | 2 2 . | | |
| 57 | 26.07 | 8898 | 1.18 | 66211 | 2 5 . | | |
| 52 | 28.25 | 9695 | 1.03 | 70300 | 2 8 . | | |
| 43 | 34.51 | 11855 | 0.9 | 67600 | 3 2 . | | |
| 39 | 37.39 | 12805 | 0.84 | 66900 | 3 6 . | | |

**55.0 kW**

6 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 337 | 2.9 | 1509 | 1.15 | 43200 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 5 5 . C - - | 861 | 280M |
| 307 | 3.19 | 1657 | 1.15 | 43600 | 3 . 2 | | |
| 269 | 3.64 | 1891 | 1.15 | 44100 | 3 . 6 | | |
| 243 | 4.03 | 2099 | 1.15 | 44500 | 4 . 0 | | |
| 222 | 4.42 | 2307 | 1.15 | 44900 | 4 . 5 | | |
| 194 | 5.04 | 2620 | 1.15 | 45400 | 5 . 0 | | |
| 177 | 5.54 | 2880 | 1.15 | 46000 | 5 . 6 | | |
| 158 | 6.21 | 3236 | 1.15 | 46500 | 6 . 3 | | |
| 142 | 6.88 | 3591 | 1.15 | 47100 | 7 . 1 | | |
| 126 | 7.78 | 4042 | 1.15 | 47600 | 8 . 0 | | |
| 114 | 8.62 | 4476 | 1.15 | 47400 | 9 . 0 | | |
| 99 | 9.89 | 5153 | 1.15 | 46600 | 1 0 . | | |
| 88 | 11.2 | 5850 | 1.02 | 45900 | 1 1 . | | |
| 79 | 12.39 | 6430 | 0.99 | 45700 | 1 2 . | | |
| 70 | 14.03 | 7287 | 0.86 | 44600 | 1 4 . | | |
| 339 | 2.89 | 1498 | 1.68 | 56200 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 5 5 . C - - | 976 | 280M |
| 302 | 3.25 | 1688 | 1.68 | 57600 | 3 . 2 | | |
| 256 | 3.82 | 1980 | 1.68 | 58600 | 3 . 6 | | |
| 243 | 4.03 | 2099 | 1.68 | 59000 | 4 . 0 | | |
| 216 | 4.54 | 2360 | 1.68 | 59700 | 4 . 5 | | |
| 184 | 5.33 | 2771 | 1.68 | 60600 | 5 . 0 | | |
| 163 | 6 | 3116 | 1.68 | 61700 | 5 . 6 | | |
| 150 | 6.55 | 3407 | 1.68 | 62500 | 6 . 3 | | |
| 135 | 7.27 | 3782 | 1.68 | 63400 | 7 . 1 | | |
| 113 | 8.67 | 4501 | 1.68 | 64800 | 8 . 0 | | |
| 102 | 9.62 | 4995 | 1.68 | 65700 | 9 . 0 | | |
| 97 | 10.06 | 5239 | 1.68 | 66200 | 1 0 . | | |
| 86 | 11.43 | 5940 | 1.68 | 67200 | 1 1 . | | |
| 74 | 13.32 | 6886 | 1.48 | 68100 | 1 2 . | | |
| 65 | 15.13 | 7858 | 1.32 | 68000 | 1 4 . | | |
| 60 | 16.43 | 8519 | 1.3 | 69900 | 1 6 . | | |
| 54 | 18.11 | 9388 | 1.18 | 70200 | 1 8 . | | |
| 45 | 21.75 | 11264 | 0.94 | 67700 | 2 0 . | | |
| 41 | 23.97 | 12433 | 0.87 | 67100 | 2 2 . | | |

NOTE

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

## 75.0 kW

4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation<br>Column Entry [1] Through [20]<br>Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 511 | 2.9 | 1358 | 1.28 | 38375 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 7 5 . A - - | 771 | 280S |
| 466 | 3.19 | 1491 | 1.28 | 39375 | 3 . 2 | | |
| 408 | 3.64 | 1694 | 1.28 | 40825 | 3 . 6 | | |
| 369 | 4.03 | 1889 | 1.28 | 41875 | 4 . 0 | | |
| 336 | 4.42 | 2076 | 1.28 | 42900 | 4 . 5 | | |
| 295 | 5.04 | 2357 | 1.28 | 43450 | 5 . 0 | | |
| 268 | 5.54 | 2592 | 1.28 | 43800 | 5 . 6 | | |
| 239 | 6.21 | 2912 | 1.28 | 44150 | 6 . 3 | | |
| 216 | 6.88 | 3224 | 1.28 | 44500 | 7 . 1 | | |
| 191 | 7.78 | 3638 | 1.28 | 45000 | 8 . 0 | | |
| 172 | 8.62 | 4028 | 1.28 | 45025 | 9 . 0 | | |
| 150 | 9.89 | 4637 | 1.28 | 44825 | 1 0 . | | |
| 133 | 11.2 | 5259 | 1.13 | 44554 | 1 1 . | | |
| 120 | 12.39 | 5791 | 1.1 | 44597 | 1 2 . | | |
| 106 | 14.03 | 6552 | 0.96 | 41700 | 1 4 . | | |
| 514 | 2.89 | 1347 | 1.87 | 49798 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 7 5 . A - - | 886 | 280S |
| 457 | 3.25 | 1518 | 1.87 | 51526 | 3 . 2 | | |
| 389 | 3.82 | 1780 | 1.87 | 53883 | 3 . 6 | | |
| 369 | 4.03 | 1886 | 1.87 | 54683 | 4 . 0 | | |
| 327 | 4.54 | 2122 | 1.87 | 56539 | 4 . 5 | | |
| 278 | 5.33 | 2490 | 1.87 | 57796 | 5 . 0 | | |
| 247 | 6 | 2801 | 1.87 | 58452 | 5 . 6 | | |
| 227 | 6.55 | 3062 | 1.87 | 58981 | 6 . 3 | | |
| 204 | 7.27 | 3399 | 1.87 | 59609 | 7 . 1 | | |
| 171 | 8.67 | 4046 | 1.87 | 60750 | 8 . 0 | | |
| 154 | 9.62 | 4490 | 1.87 | 61607 | 9 . 0 | | |
| 148 | 10.06 | 4703 | 1.87 | 62035 | 1 0 . | | |
| 130 | 11.43 | 5360 | 1.71 | 63120 | 1 1 . | | |
| 111 | 13.32 | 6173 | 1.65 | 64190 | 1 2 . | | |
| 98 | 15.13 | 7052 | 1.47 | 64625 | 1 4 . | | |
| 90 | 16.43 | 7662 | 1.3 | 65625 | 1 6 . | | |
| 82 | 18.11 | 8484 | 1.21 | 65350 | 1 8 . | | |
| 68 | 21.75 | 10120 | 1.05 | 62610 | 2 0 . | | |
| 62 | 23.97 | 11186 | 0.97 | 62003 | 2 2 . | | |
| 57 | 26.07 | 12052 | 0.87 | 60300 | 2 5 . | | |

## 90.0 kW

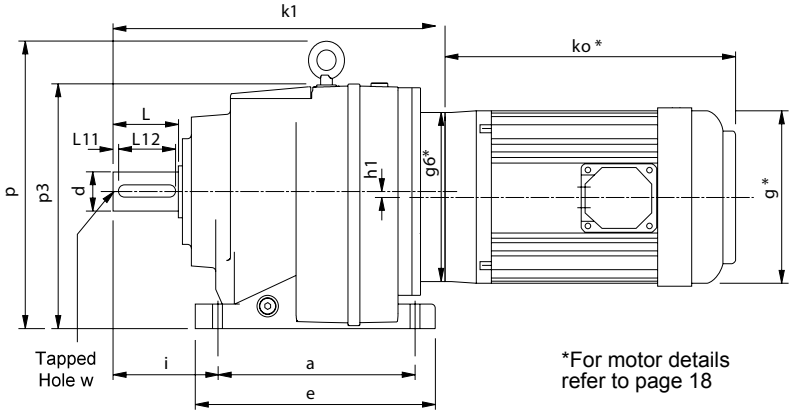
4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation<br>Column Entry [1] Through [20]<br>Spaces to be filled when entering order | Kg Weight | Motor Size |
|---|---|---|---|---|---|---|---|
| 511 | 2.9 | 1630 | 1.07 | 38100 | M 1 3 2 1 2 . 8 _ M _ _ _ _ 9 0 . A - - | 861 | 280M |
| 466 | 3.19 | 1789 | 1.07 | 39100 | 3 . 2 | | |
| 408 | 3.64 | 2033 | 1.07 | 40500 | 3 . 6 | | |
| 369 | 4.03 | 2267 | 1.07 | 41500 | 4 . 0 | | |
| 336 | 4.42 | 2492 | 1.07 | 42500 | 4 . 5 | | |
| 295 | 5.04 | 2829 | 1.07 | 43000 | 5 . 0 | | |
| 268 | 5.54 | 3110 | 1.07 | 43300 | 5 . 6 | | |
| 239 | 6.21 | 3494 | 1.07 | 43600 | 6 . 3 | | |
| 216 | 6.88 | 3869 | 1.07 | 43900 | 7 . 1 | | |
| 191 | 7.78 | 4365 | 1.07 | 44300 | 8 . 0 | | |
| 172 | 8.62 | 4834 | 1.07 | 44100 | 9 . 0 | | |
| 150 | 9.89 | 5565 | 1.07 | 43500 | 1 0 . | | |
| 133 | 11.2 | 6311 | 0.94 | 42900 | 1 1 . | | |
| 120 | 12.39 | 6949 | 0.91 | 42700 | 1 2 . | | |
| 514 | 2.89 | 1616 | 1.56 | 49600 | M 1 4 2 1 2 . 8 _ M _ _ _ _ 9 0 . A - - | 976 | 280M |
| 457 | 3.25 | 1821 | 1.56 | 51300 | 3 . 2 | | |
| 389 | 3.82 | 2136 | 1.56 | 53600 | 3 . 6 | | |
| 369 | 4.03 | 2264 | 1.56 | 54400 | 4 . 0 | | |
| 327 | 4.54 | 2546 | 1.56 | 56200 | 4 . 5 | | |
| 278 | 5.33 | 2989 | 1.56 | 57400 | 5 . 0 | | |
| 247 | 6 | 3361 | 1.56 | 58000 | 5 . 6 | | |
| 227 | 6.55 | 3675 | 1.56 | 58500 | 6 . 3 | | |
| 204 | 7.27 | 4079 | 1.56 | 59100 | 7 . 1 | | |
| 171 | 8.67 | 4855 | 1.56 | 60100 | 8 . 0 | | |
| 154 | 9.62 | 5388 | 1.56 | 60900 | 9 . 0 | | |
| 148 | 10.06 | 5644 | 1.56 | 61300 | 1 0 . | | |
| 130 | 11.43 | 6432 | 1.42 | 62300 | 1 1 . | | |
| 111 | 13.32 | 7407 | 1.38 | 63200 | 1 2 . | | |
| 98 | 15.13 | 8462 | 1.23 | 63300 | 1 4 . | | |
| 90 | 16.43 | 9195 | 1.08 | 64300 | 1 6 . | | |
| 82 | 18.11 | 10181 | 1.01 | 63600 | 1 8 . | | |
| 68 | 21.75 | 12144 | 0.87 | 59500 | 2 0 . | | |
| 62 | 23.97 | 13424 | 0.8 | 58500 | 2 2 . | | |

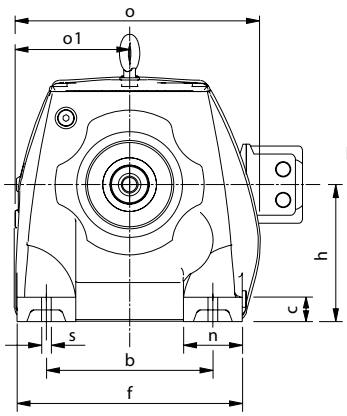
NOTE

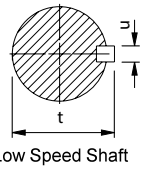
Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

# DIMENSIONS - DOUBLE REDUCTION BASE MOUNT




*For motor details refer to page 18



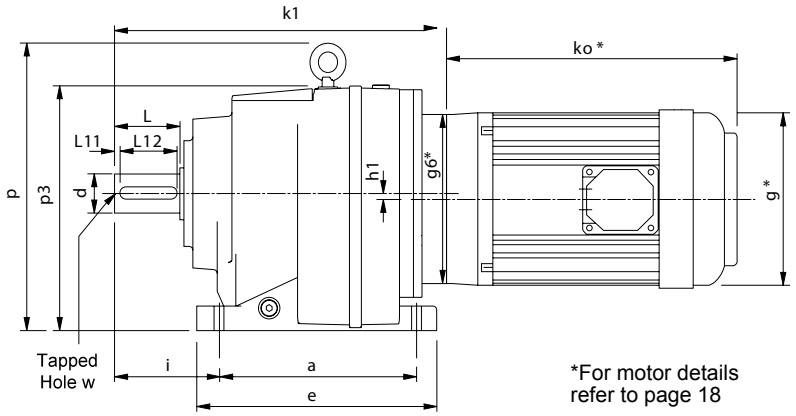




all parallel keys are to DIN 6885

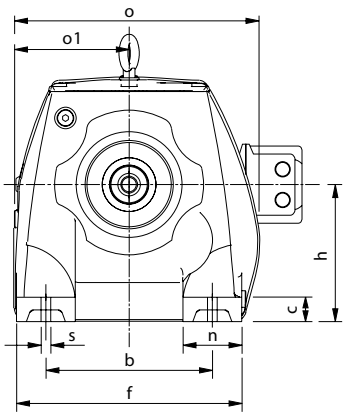
| Size | a | b | c | e | f | h | h1 | i | n | o | o1 | p | p3 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0122 | 110 | 110 | 12 | 131 | 135 | 75 | - | 58 | 25 | 152 | 76 | - | 149 | 10 | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0222 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0322 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0422 | 165 | 135 | 20 | 200 | 190 | 115 | - | 90 | 55 | 204 | 97 | - | 208 | 15 | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0522 | 165 | 135 | 20 | 200 | 190 | 115 | - | 100 | 55 | 204 | 97 | - | 208 | 15 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0622 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60 | 220 | 110 | 246 | 214 | 15 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0722 | 205 | 170 | 25 | 245 | 230 | 140 | - | 115 | 60 | 252 | 119 | 295 | 250 | 19 | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0822 | 260 | 215 | 35 | 310 | 290 | 180 | - | 140 | 75 | 320 | 167 | 360 | 310 | 19 | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0921 | 310 | 250 | 40 | 365 | 340 | 225 | - | 160 | 90 | 372 | 200 | 433 | 394 | 23 | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1021 | 370 | 290 | 45 | 440 | 400 | 250 | - | 185 | 110 | 428 | 225 | 505 | 446 | 27 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1321 | 410 | 340 | 50 | 490 | 450 | 265 | - | 220 | 110 | 470 | 242 | 563 | 483 | 34 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1421 | 500 | 380 | 50 | 590 | 530 | 300 | - | 260 | 150 | 546 | 278 | 630 | 551 | 41 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

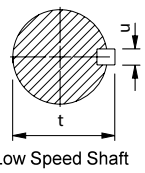
| MOTOR FRAME SIZE | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 209 | 240 | 240 | 270 | 280 | 301 | - | - | - | - | - | - |
| 71 | 213 | 244 | 244 | 276 | 286 | 307 | - | - | - | - | - | - |
| 80 | 226 | 257 | 257 | 294 | 304 | 325 | 362 | 477 | 523 | - | - | - |
| 90 | 236 | 267 | 267 | 304 | 314 | 335 | 372 | 477 | 523 | - | - | - |
| 100 | 244 | 275 | 275 | 331 | 341 | 362 | 384 | 483 | 529 | 596 | 717 | 832 |
| 112 | 244 | 275 | 275 | 331 | 341 | 362 | 384 | 483 | 529 | 596 | 717 | 832 |
| 132 | - | - | - | 331 | 341 | 362 | 406 | 483 | 529 | 596 | 717 | 832 |
| 160 | - | - | - | - | - | - | 414 | 513 | 564 | 631 | 710 | 825 |
| 180 | - | - | - | - | - | - | - | - | 564 | 631 | 710 | 825 |
| 200 | - | - | - | - | - | - | - | - | 564 | 631 | 710 | 825 |
| 225 | - | - | - | - | - | - | - | - | 591 | 658 | 737 | 852 |
| 250 | - | - | - | - | - | - | - | - | - | - | 909 | 1024 |
| 280 | - | - | - | - | - | - | - | - | - | - | 909 | 1024 |

# DIMENSIONS - TRIPLE REDUCTION BASE MOUNT




*For motor details refer to page 18



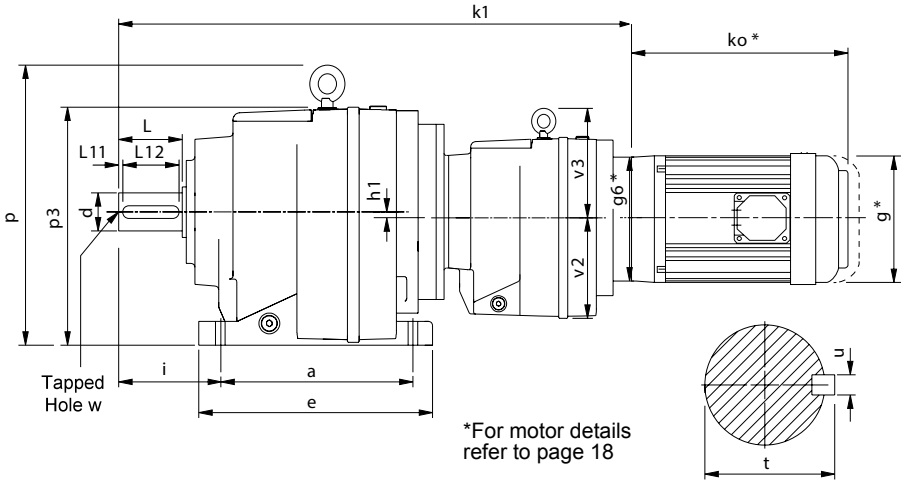



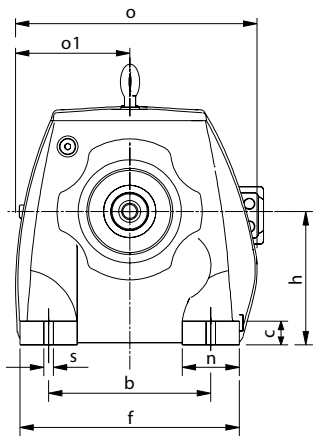

all parallel keys are to DIN 6885

| Size | a | b | c | e | f | h | h1 | i | n | o | o1 | p | p3 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0132 | 110 | 110 | 12 | 131 | 135 | 75 | - | 58 | 25 | 152 | 76 | - | 149 | 10 | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0232 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0332 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0432 | 165 | 135 | 20 | 200 | 190 | 115 | - | 90 | 55 | 204 | 97 | - | 208 | 15 | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0532 | 165 | 135 | 20 | 200 | 190 | 115 | - | 100 | 55 | 204 | 97 | - | 208 | 15 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0632 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60 | 220 | 110 | 246 | 214 | 15 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0732 | 205 | 170 | 25 | 245 | 230 | 140 | - | 115 | 60 | 252 | 119 | 295 | 250 | 19 | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0832 | 260 | 215 | 35 | 310 | 290 | 180 | - | 140 | 75 | 320 | 167 | 360 | 310 | 19 | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0931 | 310 | 250 | 40 | 365 | 340 | 225 | - | 160 | 90 | 372 | 200 | 433 | 394 | 23 | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1031 | 370 | 290 | 45 | 440 | 400 | 250 | - | 185 | 110 | 428 | 225 | 505 | 446 | 27 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1331 | 410 | 340 | 50 | 490 | 450 | 265 | - | 220 | 110 | 470 | 242 | 563 | 483 | 34 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1431 | 500 | 380 | 50 | 590 | 530 | 300 | - | 260 | 150 | 546 | 278 | 630 | 551 | 41 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

| MOTOR FRAME SIZE | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | M1431 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 224 | 253 | 253 | 300 | 310 | 331 | 353 | - | - | - | - | - |
| 71 | 228 | 257 | 257 | 304 | 314 | 335 | 359 | - | - | - | - | - |
| 80 | 241 | 270 | 270 | 317 | 327 | 348 | 377 | 462 | 549 | 647 | - | - |
| 90 | 251 | 280 | 280 | 327 | 337 | 358 | 387 | 472 | 549 | 647 | - | - |
| 100 | 259 | 288 | 288 | 335 | 345 | 366 | 414 | 484 | 555 | 653 | 779 | 904 |
| 112 | 259 | 288 | 288 | 335 | 345 | 366 | 414 | 484 | 555 | 653 | 779 | 904 |
| 132 | - | - | - | - | - | - | 414 | 506 | - | 653 | 779 | 904 |
| 160 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 180 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 200 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 225 | - | - | - | - | - | - | - | - | - | 715 | 799 | 924 |
| 250 | - | - | - | - | - | - | - | - | - | - | 971 | 1096 |
| 280 | - | - | - | - | - | - | - | - | - | - | 971 | 1096 |

# DIMENSIONS - QUADRUPLE REDUCTION BASE MOUNT



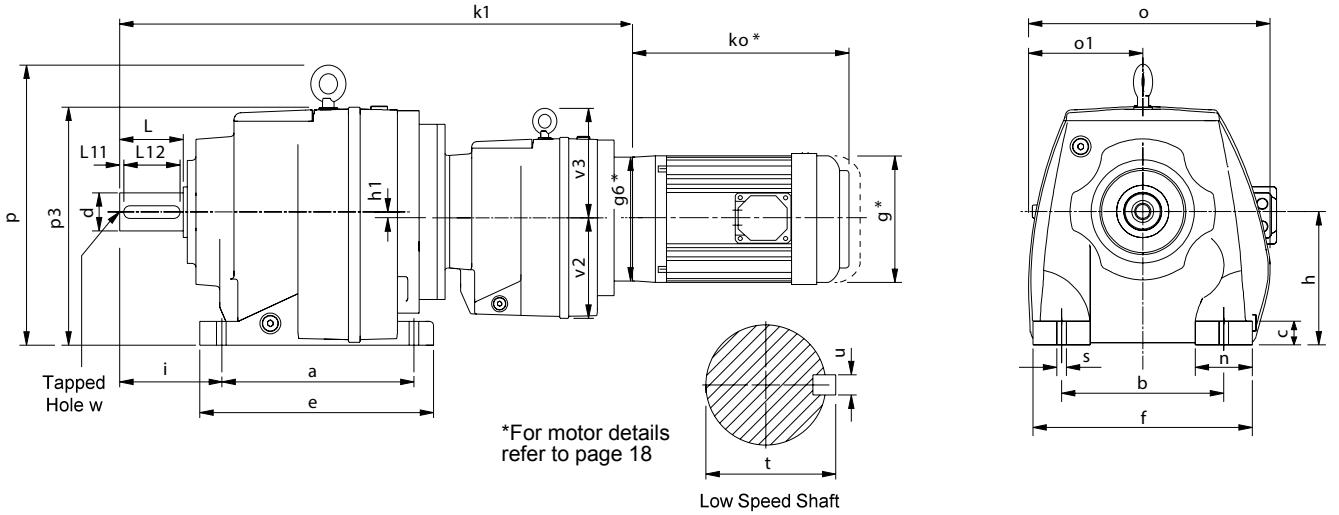

all parallel keys are to DIN 6885

Low Speed Shaft

| Size | a | b | c | e | f | h | h1 | i | n | o | o1 | p | p3 | s | v2 | v3 | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0342 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 76 | - | 25 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0442 | 165 | 135 | 20 | 200 | 190 | 115 | - | 90 | 55 | 204 | 97 | - | 208 | 15 | 91 | - | 30 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0542 | 165 | 135 | 20 | 200 | 190 | 115 | - | 100 | 55 | 204 | 97 | - | 208 | 15 | 91 | - | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0642 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60 | 220 | 110 | 246 | 214 | 15 | 91 | - | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0742 | 205 | 170 | 25 | 245 | 230 | 140 | - | 115 | 60 | 252 | 119 | 295 | 250 | 19 | 91 | - | 40 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0842 | 260 | 215 | 35 | 310 | 290 | 180 | - | 140 | 75 | 320 | 167 | 360 | 310 | 19 | 115 | - | 50 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0941 | 310 | 250 | 40 | 365 | 340 | 225 | - | 160 | 90 | 372 | 200 | 433 | 394 | 23 | 115 | - | 60 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1041 | 370 | 290 | 45 | 440 | 400 | 250 | - | 185 | 110 | 428 | 225 | 505 | 446 | 27 | 140 | 155 | 70 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1341 | 410 | 340 | 50 | 490 | 450 | 265 | - | 220 | 110 | 470 | 242 | 563 | 483 | 34 | 140 | 155 | 90 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1441 | 500 | 380 | 50 | 590 | 530 | 300 | - | 260 | 150 | 546 | 278 | 630 | 551 | 41 | 140 | 155 | 100 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

| MOTOR FRAME SIZE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 426 | 494 | 504 | 525 | 562 | 652 | 733 | - | - | - |
| 71 | 430 | 498 | 508 | 529 | 566 | 658 | 739 | - | - | - |
| 80 | 443 | 511 | 521 | 542 | 579 | 676 | 757 | 878 | 999 | 1114 |
| 90 | 453 | 521 | 531 | 552 | 589 | 686 | 767 | 888 | 1009 | 1124 |
| 100 | - | - | - | - | - | 713 | 794 | 900 | 1021 | 1136 |
| 112 | - | - | - | - | - | 713 | 794 | 900 | 1021 | 1136 |
| 132 | - | - | - | - | - | 713 | 794 | 922 | 1043 | 1158 |
| 160 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |

# DIMENSIONS - QUINTUPLE REDUCTION BASE MOUNT



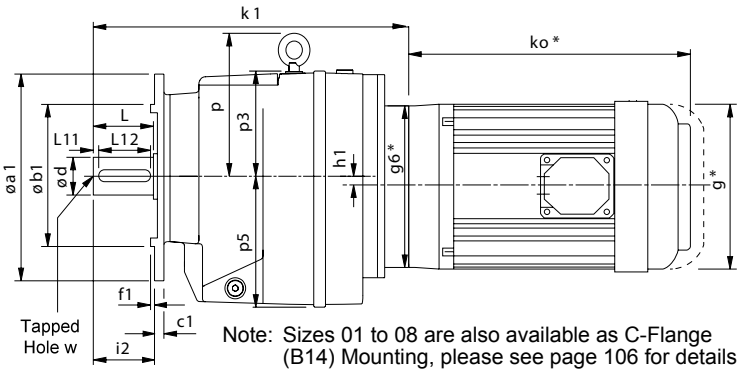

all parallel keys are to DIN 6885

| Size | a | b | c | e | f | h | h1 | i | n | o | o1 | p | p3 | s | v2 | v3 | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0352 | 130 | 110 | 16 | 152 | 145 | 90 | - | 75 | 35 | 170 | 84 | - | 180 | 10 | 76 | - | 25 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0452 | 165 | 135 | 20 | 200 | 190 | 115 | - | 90 | 55 | 204 | 97 | - | 208 | 15 | 91 | - | 30 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0552 | 165 | 135 | 20 | 200 | 190 | 115 | - | 100 | 55 | 204 | 97 | - | 208 | 15 | 91 | - | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0652 | 195 | 150 | 24 | 235 | 210 | 130 | 14.5 | 100 | 60 | 220 | 110 | 246 | 214 | 15 | 91 | - | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0752 | 205 | 170 | 25 | 245 | 230 | 140 | - | 115 | 60 | 252 | 119 | 295 | 250 | 19 | 91 | - | 40 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0852 | 260 | 215 | 35 | 310 | 290 | 180 | - | 140 | 75 | 320 | 167 | 360 | 310 | 19 | 115 | - | 50 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0951 | 310 | 250 | 40 | 365 | 340 | 225 | - | 160 | 90 | 372 | 200 | 433 | 394 | 23 | 115 | - | 60 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1051 | 370 | 290 | 45 | 440 | 400 | 250 | - | 185 | 110 | 428 | 225 | 505 | 446 | 27 | 140 | 155 | 70 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1351 | 410 | 340 | 50 | 490 | 450 | 265 | - | 220 | 110 | 470 | 242 | 563 | 483 | 34 | 140 | 155 | 90 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1451 | 500 | 380 | 50 | 590 | 530 | 300 | - | 260 | 150 | 546 | 278 | 630 | 551 | 41 | 140 | 155 | 100 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

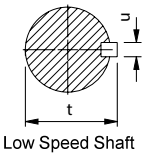
| MOTOR FRAME SIZE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 441 | 507 | 517 | 538 | 575 | 682 | 763 | 869 | 990 | 1105 |
| 71 | 445 | 511 | 521 | 542 | 579 | 686 | 767 | 875 | 996 | 1111 |
| 80 | 458 | 524 | 534 | 555 | 592 | 699 | 780 | 893 | 1014 | 1129 |
| 90 | 468 | 534 | 544 | 565 | 602 | 709 | 790 | 903 | 1024 | 1139 |
| 100 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |
| 112 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |

# SERIES M

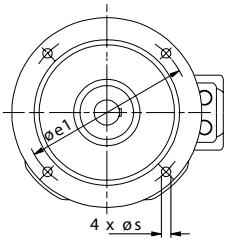
## DIMENSIONS - DOUBLE REDUCTION FLANGE MOUNT



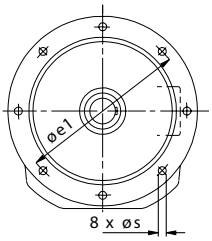

Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details




**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**



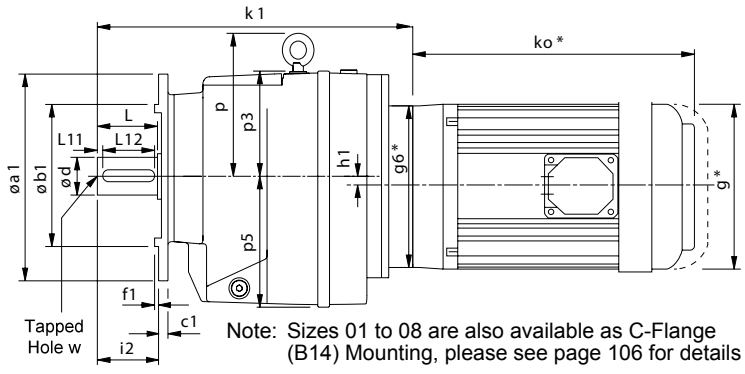

*For motor details refer to page 18

all parallel keys are to DIN 6885

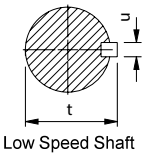
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0122 | 120 | 80 | 9 | 100 | 3 | - | 40 | - | 74 | 76 | 9 | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| | 140 | 95 | 9 | 115 | 3 | | 40 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 40 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 40 | | | | 11 | | | | | | | |
| M0222 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 90 | 91 | 6.6 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 16 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | |
| M0322 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 90 | 91 | 6.6 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 16 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | |
| M0422 | 140 | 95 | 11 | 115 | 3 | - | 60 | - | 93 | 115 | 9 | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 16 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 60 | | | | 9 | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 60 | | | | 11 | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 60 | | | | 13.5 | | | | | | | |
| M0522 | 140 | 95 | 11 | 115 | 3 | - | 70 | - | 93 | 115 | 9 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 70 | | | | 9 | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 70 | | | | 11 | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | |
| M0622 | 200 | 130 | 11 | 165 | 4 | 14.5 | 70 | 116 | 84 | 130 | 11 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 70 | | | | 13.5 | | | | | | | |
| M0722 | 200 | 130 | 11 | 165 | 3.5 | - | 80 | 155 | 110 | 140 | 11 | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| | 250 | 180 | 11 | 215 | 4 | | 80 | | | | 13.5 | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 80 | | | | 13.5 | | | | | | | |
| M0822 | 300 | 230 | 17 | 265 | 4 | - | 100 | 180 | 130 | 182 | 13.5 | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| | 350 | 250 | 17 | 300 | 5 | | 100 | | | | 17.5 | | | | | | | |
| M0921 | 450 | 350 | 18 | 400 | 5 | - | 140 | 198 | - | 230 | 18 | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1021 | 450 | 350 | 22 | 400 | 5 | - | 140 | 245 | - | 260 | 18 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1321 | 550 | 450 | 25 | 500 | 5 | - | 170 | 288 | - | 278 | 18 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1421 | 550 | 450 | 25 | 500 | 5 | - | 210 | 320 | - | 318 | 18 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

| MOTOR FRAME SIZE | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 209 | 240 | 240 | 270 | 280 | 301 | - | - | - | - | - | - |
| 71 | 213 | 244 | 244 | 276 | 286 | 307 | - | - | - | - | - | - |
| 80 | 226 | 257 | 257 | 294 | 304 | 325 | 362 | 477 | 523 | - | - | - |
| 90 | 236 | 267 | 267 | 304 | 314 | 335 | 372 | 477 | 523 | - | - | - |
| 100 | 244 | 275 | 275 | 331 | 341 | 362 | 384 | 483 | 529 | 596 | 717 | 832 |
| 112 | 244 | 275 | 275 | 331 | 341 | 362 | 384 | 483 | 529 | 596 | 717 | 832 |
| 132 | - | - | - | 331 | 341 | 362 | 406 | 483 | 529 | 596 | 717 | 832 |
| 160 | - | - | - | - | - | - | 414 | 513 | 564 | 631 | 710 | 825 |
| 180 | - | - | - | - | - | - | - | - | 564 | 564 | 710 | 825 |
| 200 | - | - | - | - | - | - | - | - | 564 | 564 | 710 | 825 |
| 225 | - | - | - | - | - | - | - | - | 591 | 591 | 737 | 852 |
| 250 | - | - | - | - | - | - | - | - | - | - | 909 | 1024 |
| 280 | - | - | - | - | - | - | - | - | - | - | 909 | 1024 |

# DIMENSIONS - TRIPLE REDUCTION FLANGE MOUNT

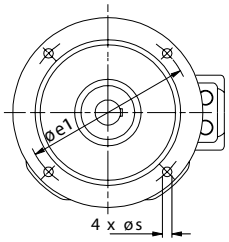



Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

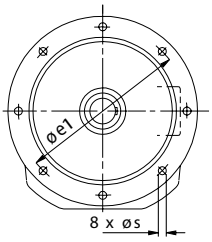



Low Speed Shaft

**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**



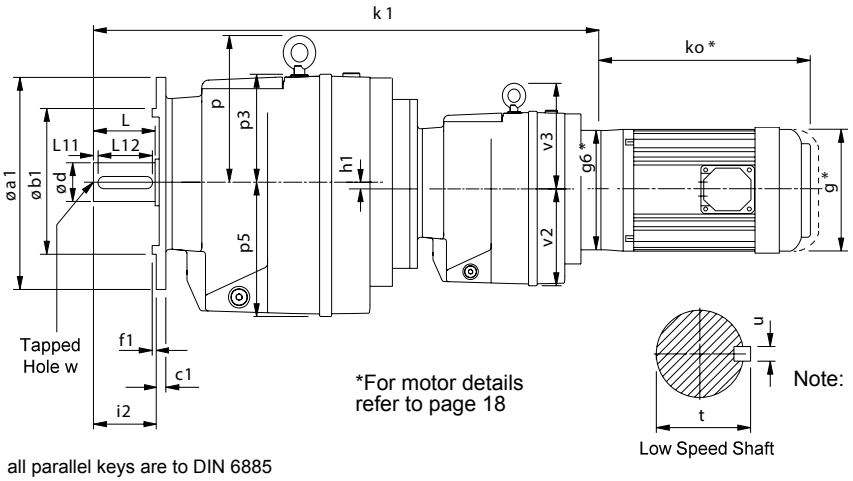

*For motor details refer to page 18

all parallel keys are to DIN 6885

| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0132 | 120 | 80 | 9 | 100 | 3 | - | 40 | - | 74 | 76 | 9 | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| | 140 | 95 | 9 | 115 | 3 | | 40 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 40 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 40 | | | | 11 | | | | | | | |
| M0232 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 90 | 91 | 6.6 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 16 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | |
| M0332 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 90 | 91 | 6.6 | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 16 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | |
| M0432 | 140 | 95 | 11 | 115 | 3 | - | 60 | - | 93 | 115 | 9 | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 16 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 60 | | | | 9 | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 60 | | | | 11 | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 60 | | | | 13.5 | | | | | | | |
| M0532 | 140 | 95 | 11 | 115 | 3 | - | 70 | - | 93 | 115 | 9 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 70 | | | | 9 | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 70 | | | | 11 | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | |
| M0632 | 200 | 130 | 11 | 165 | 4 | 14.5 | 70 | 116 | 84 | 130 | 11 | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 70 | | | | 13.5 | | | | | | | |
| M0732 | 200 | 130 | 11 | 165 | 3.5 | - | 80 | 155 | 110 | 140 | 11 | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| | 250 | 180 | 11 | 215 | 4 | | 80 | | | | 13.5 | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 80 | | | | 13.5 | | | | | | | |
| M0832 | 300 | 230 | 17 | 265 | 4 | - | 100 | 180 | 130 | 182 | 13.5 | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| | 350 | 250 | 17 | 300 | 5 | | 100 | | | | 17.5 | | | | | | | |
| M0931 | 450 | 350 | 18 | 400 | 5 | - | 140 | 198 | - | 230 | 18 | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1031 | 450 | 350 | 22 | 400 | 5 | - | 140 | 245 | - | 260 | 18 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1331 | 550 | 450 | 25 | 500 | 5 | - | 170 | 288 | - | 278 | 18 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1431 | 550 | 450 | 25 | 500 | 5 | - | 210 | 320 | - | 318 | 18 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

| MOTOR FRAME SIZE | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | M1431 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 224 | 253 | 253 | 300 | 310 | 331 | 353 | - | - | - | - | - |
| 71 | 228 | 257 | 257 | 304 | 314 | 335 | 359 | - | - | - | - | - |
| 80 | 241 | 270 | 270 | 317 | 327 | 348 | 377 | 462 | 549 | 647 | - | - |
| 90 | 251 | 280 | 280 | 327 | 337 | 358 | 387 | 472 | 549 | 647 | - | - |
| 100 | 259 | 288 | 288 | 335 | 345 | 366 | 414 | 484 | 555 | 653 | 779 | 904 |
| 112 | 259 | 288 | 288 | 335 | 345 | 366 | 414 | 484 | 555 | 653 | 779 | 904 |
| 132 | - | - | - | - | - | - | 414 | 506 | - | 653 | 779 | 904 |
| 160 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 180 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 200 | - | - | - | - | - | - | - | - | - | 688 | 772 | 897 |
| 225 | - | - | - | - | - | - | - | - | - | 715 | 799 | 924 |
| 250 | - | - | - | - | - | - | - | - | - | - | 971 | 1096 |
| 280 | - | - | - | - | - | - | - | - | - | - | 971 | 1096 |

# DIMENSIONS - QUADRUPLE REDUCTION FLANGE MOUNT

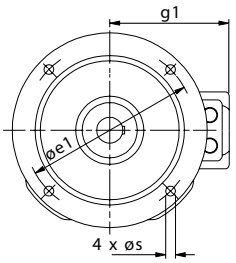



*For motor details refer to page 18

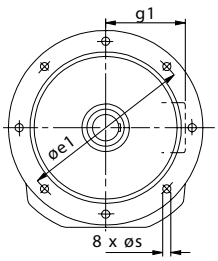



Low Speed Shaft

**Sizes 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**



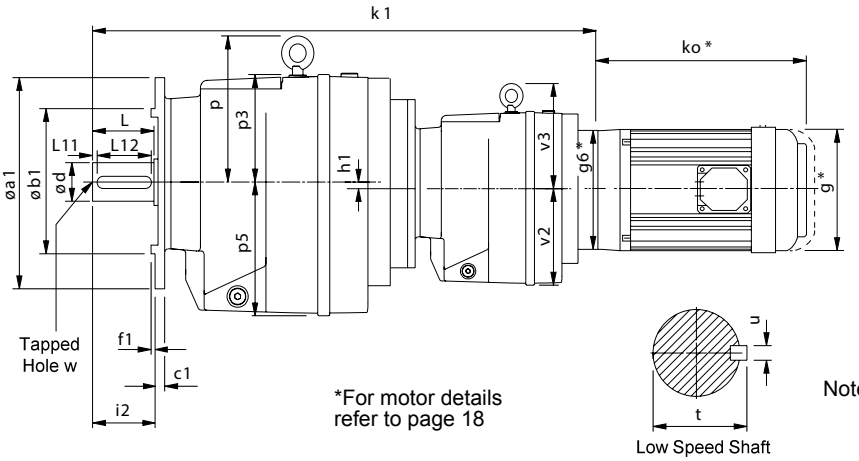

Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

all parallel keys are to DIN 6885

| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | v2 | v3 | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0342 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 89 | 91 | 6.6 | 76 | - | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | | | |
| M0442 | 140 | 95 | 11 | 115 | 3 | - | 60 | - | 91 | 115 | 9 | 91 | - | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 60 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 60 | | | | 11 | | | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 60 | | | | 13.5 | | | | | | | | | |
| M0542 | 140 | 95 | 11 | 115 | 3 | - | 70 | - | 91 | 115 | 9 | 91 | - | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 70 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 70 | | | | 11 | | | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| M0642 | 200 | 130 | 11 | 165 | 4 | 14.5 | 70 | 113 | 81 | 130 | 11 | 91 | - | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| M0742 | 200 | 130 | 11 | 165 | 3.5 | - | 80 | 152 | 107 | 140 | 11 | 91 | - | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| | 250 | 180 | 11 | 215 | 4 | | 80 | | | | 13.5 | | | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 80 | | | | 13.5 | | | | | | | | | |
| M0842 | 300 | 230 | 17 | 265 | 4 | - | 100 | 175 | 125 | 182 | 13.5 | 115 | - | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| | 350 | 250 | 17 | 300 | 5 | | 100 | | | | 17.5 | | | | | | | | | |
| M0941 | 450 | 350 | 18 | 400 | 5 | - | 140 | 198 | - | 230 | 18 | 140 | - | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1041 | 450 | 350 | 22 | 400 | 5 | - | 140 | 245 | - | 260 | 18 | 140 | 155 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1341 | 550 | 450 | 25 | 500 | 5 | - | 170 | 288 | - | 278 | 18 | 140 | 155 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M20 x 3.0 50 deep |
| M1441 | 550 | 450 | 25 | 500 | 5 | - | 210 | 320 | - | 318 | 18 | 140 | 155 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M20 x 3.0 50 deep |

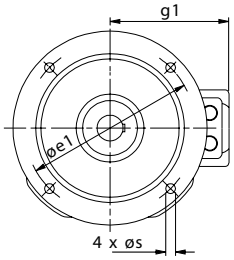
| MOTOR FRAME SIZE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 426 | 494 | 504 | 525 | 562 | 652 | 733 | - | - | - |
| 71 | 430 | 498 | 508 | 529 | 566 | 658 | 739 | - | - | - |
| 80 | 443 | 511 | 521 | 542 | 579 | 676 | 757 | 878 | 999 | 1114 |
| 90 | 453 | 521 | 531 | 552 | 589 | 686 | 767 | 888 | 1009 | 1124 |
| 100 | - | - | - | - | - | 713 | 794 | 900 | 1021 | 1136 |
| 112 | - | - | - | - | - | 713 | 794 | 900 | 1021 | 1136 |
| 132 | - | - | - | - | - | 713 | 794 | 922 | 1043 | 1158 |
| 160 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |

# DIMENSIONS - QUINTUPLE REDUCTION FLANGE MOUNT

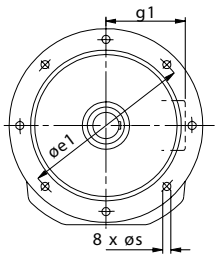



*For motor details refer to page 18

**Sizes 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**




Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

all parallel keys are to DIN 6885

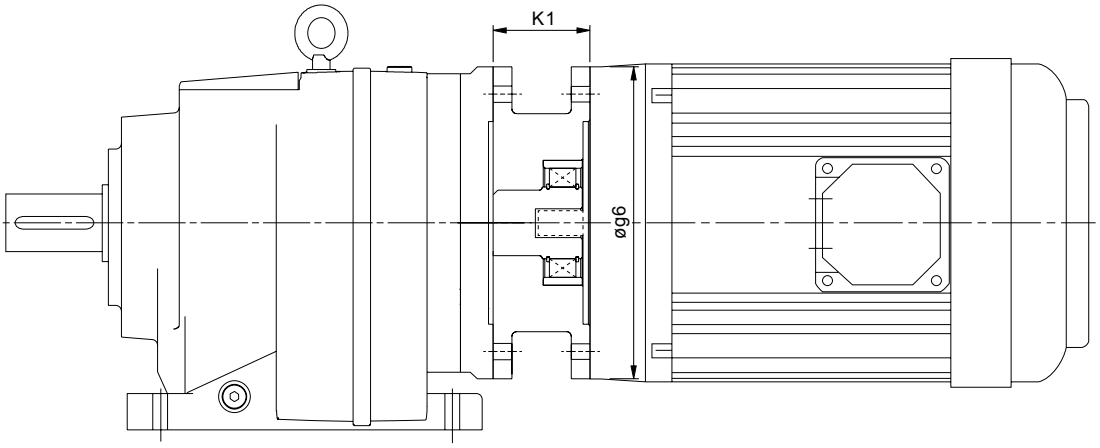
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | v2 | v3 | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0352 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 89 | 91 | 6.6 | 76 | - | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| | 140 | 95 | 10 | 115 | 3 | | 50 | | | | 9 | | | | | | | | | |
| | 160 | 110 | 10 | 130 | 3.5 | | 50 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 10 | 165 | 3.5 | | 50 | | | | 11 | | | | | | | | | |
| M0452 | 140 | 95 | 11 | 115 | 3 | - | 60 | - | 91 | 115 | 9 | 91 | - | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 60 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 60 | | | | 11 | | | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 60 | | | | 13.5 | | | | | | | | | |
| M0552 | 140 | 95 | 11 | 115 | 3 | - | 70 | - | 91 | 115 | 9 | 91 | - | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 160 | 110 | 11 | 130 | 3.5 | | 70 | | | | 9 | | | | | | | | | |
| | 200 | 130 | 11 | 165 | 3.5 | | 70 | | | | 11 | | | | | | | | | |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| M0652 | 200 | 130 | 11 | 165 | 4 | 14.5 | 70 | 113 | 81 | 130 | 11 | 91 | - | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| | 250 | 180 | 11 | 215 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 70 | | | | 13.5 | | | | | | | | | |
| M0752 | 200 | 130 | 11 | 165 | 3.5 | - | 80 | 152 | 107 | 140 | 11 | 91 | - | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| | 250 | 180 | 11 | 215 | 4 | | 80 | | | | 13.5 | | | | | | | | | |
| | 300 | 230 | 11 | 265 | 4 | | 80 | | | | 13.5 | | | | | | | | | |
| M0852 | 300 | 230 | 17 | 265 | 4 | - | 100 | 175 | 125 | 182 | 13.5 | 115 | - | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| | 350 | 250 | 17 | 300 | 5 | | 100 | | | | 17.5 | | | | | | | | | |
| M0951 | 450 | 350 | 18 | 400 | 5 | - | 140 | 198 | - | 230 | 18 | 115 | - | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1051 | 450 | 350 | 22 | 400 | 5 | - | 140 | 245 | - | 260 | 18 | 140 | 155 | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1351 | 550 | 450 | 25 | 500 | 5 | - | 170 | 288 | - | 278 | 18 | 140 | 155 | 90 m6 | 170 | 15 | 140 | 95 | 25 | M20 x 3.0 50 deep |
| M1451 | 550 | 450 | 25 | 500 | 5 | - | 210 | 320 | - | 318 | 18 | 140 | 155 | 100 m6 | 210 | 15 | 180 | 106 | 28 | M20 x 3.0 50 deep |

| MOTOR FRAME SIZE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 441 | 507 | 517 | 538 | 575 | 682 | 763 | 869 | 990 | 1105 |
| 71 | 445 | 511 | 521 | 542 | 579 | 686 | 767 | 875 | 996 | 1111 |
| 80 | 458 | 524 | 534 | 555 | 592 | 699 | 780 | 893 | 1014 | 1129 |
| 90 | 468 | 534 | 544 | 565 | 602 | 709 | 790 | 903 | 1024 | 1139 |
| 100 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |
| 112 | - | - | - | - | - | - | - | 930 | 1051 | 1166 |

# 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 ('n' min) (rev/min) | Rated Locking Torque ('T max') (at motor) (Nm) | øg6 | K1 |
|---|---|---|---|---|
| 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 |

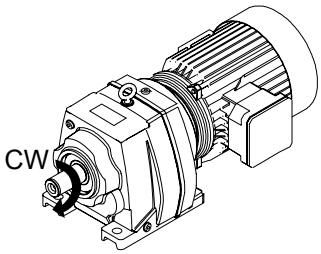
## NEMA C FLANGE

| Motor Frame Size | Lift off Speed ('n' min) (rev/min) | Rated Locking Torque ('T max') (at motor) (Nm) | øg6 | K1 |
|---|---|---|---|---|
| 182TC / 184TC | 670 | 300 | 228 | 95.25 |
| 213TC / 215 TC | 670 | 300 | 228 | 95.25 |
| 254TC / 256TC | 620 | 940 | 228 | 120.65 |
| 284TC / 286TC | 620 | 940 | 280 | 136.5 |
| 324TC / 326TC | 550 | 1260 | 330 | 152.4 |

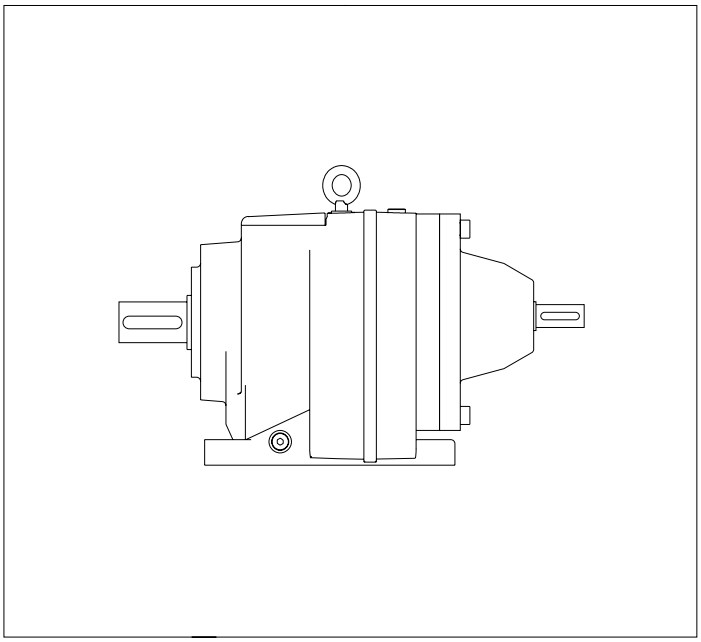
When a backstop module is fitted dimension K1 should be added to the overall length of the geared motor assembly.

Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram) see page 20 for column 20 entry

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



## NOTES



# REDUCER
# 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 on the shaft, and the results compared to the maximum permissible overhung loads tabulated. 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 should be extended to run in an outboard bearing. Alternatively, a larger gear is often a less expensive solution.

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 and the load P applied midway along the shaft extension. Hence they can sometimes be increased for a more favourable direction of rotation, or if the power transmitted is less than the rated capacity of the gear unit, or if the load is applied nearer to the gear unit case. Refer to our Application Engineers for further details. 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, and to prolong life.

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

**Overhung load (Newtons)**

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

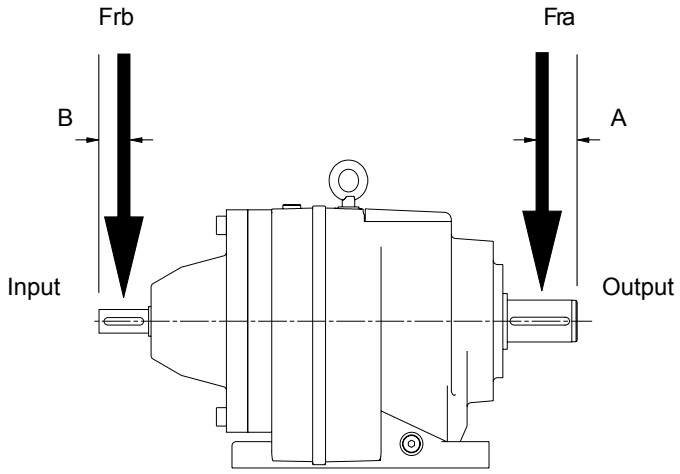
where

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

Note: 1 Newton = 0.101972 kp = 0.227809 lbf.

| 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.




**Distance midway along the shaft extension**

| Size of unit | No. of Reductions | Dimension A (mm) | Dimension B (mm) |
|---|---|---|---|
| M01 | 2 - 3 | 20 | 20 |
| M02 | 2 - 3 | 25 | 20 |
| M03 | 2 - 5 | 25 | 20 |
| M04 | 2 - 5 | 30 | 20 |
| M05 | 2 - 5 | 35 | 20 |
| M06 | 2 - 5 | 35 | 20 |
| M07 | 2 | 40 | 25 |
| | 3 | 40 | 20 |
| | 4 - 5 | 40 | 20 |
| M08 | 2 | 50 | 30 |
| | 3 | 50 | 25 |
| | 4 - 5 | 50 | 20 |
| M09 | 2 | 60 | 40 |
| | 3 | 60 | 30 |
| | 4 - 5 | 60 | 20 |
| M10 | 2 | 70 | 55 |
| | 3 | 70 | 40 |
| | 4 - 5 | 70 | 25 |
| M13 | 2 -3 | 85 | 55 |
| | 4 | 85 | 25 |
| | 5 | 85 | 20 |
| M14 | 2 - 3 | 105 | 55 |
| | 4 | 105 | 25 |
| | 5 | 105 | 20 |

# OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 3 stage | 1.65 | 1.75 | 1.75 | 1.5 | 1.5 | 1.5 | 1.8 | 2.25 | 3.5 | 4.2 | 12 | 12 |
| 4 Stage | - | - | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.75 | 1.75 | 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 |

For output overhung load Fra consult ratings tables

**Axial Thrust Capacities (Newtons)**

No check or calculation is required for axial loads ($F_A$) towards or away from the unit up to 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.

# DOUBLE REDUCTION RATINGS
# SIZES M01 - M04

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**DOUBLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0122 | | | | | M0222 | | | | | M0322 | | | | | M0422 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 773 | | 47 | 3.97 | 0.98 | 808 | | 79 | 7 | 3.00 | 808 | | 96 | 8.45 | 2.05 | 809 | | 161 | 14.2 | 2.05 |
| | 1450 | 387 | 3.75 | 59 | 2.49 | 0.98 | 404 | 3.589 | 100 | 4.39 | 3.10 | 404 | 3.589 | 118 | 5.18 | 2.30 | 404 | 3.585 | 203 | 8.87 | 2.30 |
| 3 . 6 | 960 | 256 | | 68 | 1.89 | 0.98 | 268 | | 115 | 3.33 | 3.10 | 268 | | 134 | 3.88 | 2.30 | 268 | | 233 | 6.72 | 2.60 |
| | 725 | 193 | | 73 | 1.53 | 0.98 | 202 | | 126 | 2.74 | 3.10 | 202 | | 146 | 3.18 | 2.30 | 202 | | 256 | 5.57 | 3.45 |
| | 2900 | 572 | | 54 | 3.34 | 0.98 | 576 | | 92 | 5.76 | 3.00 | 576 | | 110 | 6.87 | 2.05 | 575 | | 188 | 11.8 | 2.05 |
| | 1450 | 286 | 5.066 | 68 | 2.09 | 0.98 | 288 | 5.034 | 116 | 3.61 | 3.10 | 288 | 5.034 | 135 | 4.22 | 2.30 | 288 | 5.04 | 237 | 7.37 | 2.45 |
| 5 . 0 | 960 | 190 | | 76 | 1.55 | 0.98 | 191 | | 131 | 2.7 | 3.10 | 191 | | 153 | 3.16 | 2.30 | 190 | | 272 | 5.59 | 3.20 |
| | 725 | 143 | | 79 | 1.22 | 1.00 | 144 | | 137 | 2.13 | 3.15 | 144 | | 167 | 2.59 | 2.30 | 144 | | 290 | 4.49 | 4.60 |
| | 2900 | 503 | | 57 | 3.1 | 0.98 | 523 | | 96 | 5.44 | 3.05 | 523 | | 114 | 6.47 | 2.05 | 513 | | 198 | 11 | 2.05 |
| | 1450 | 252 | 5.762 | 71 | 1.95 | 0.98 | 261 | 5.547 | 121 | 3.41 | 3.10 | 261 | 5.547 | 140 | 3.97 | 2.30 | 257 | 5.649 | 249 | 6.91 | 2.60 |
| 5 . 6 | 960 | 167 | | 78 | 1.41 | 1.00 | 173 | | 134 | 2.5 | 3.10 | 173 | | 159 | 2.97 | 2.30 | 170 | | 286 | 5.23 | 3.40 |
| | 725 | 126 | | 82 | 1.11 | 1.02 | 131 | | 140 | 1.97 | 3.15 | 131 | | 173 | 2.44 | 2.30 | 128 | | 298 | 4.12 | 4.70 |
| | 2900 | 444 | | 60 | 2.87 | 0.98 | 460 | | 101 | 5.04 | 3.05 | 460 | | 120 | 5.98 | 2.10 | 457 | | 208 | 10.3 | 2.10 |
| | 1450 | 222 | 6.528 | 75 | 1.8 | 0.98 | 230 | 6.299 | 127 | 3.16 | 3.10 | 230 | 6.299 | 147 | 3.67 | 2.30 | 229 | 6.341 | 262 | 6.46 | 2.90 |
| 6 . 3 | 960 | 147 | | 80 | 1.27 | 1.00 | 152 | | 138 | 2.27 | 3.10 | 152 | | 167 | 2.74 | 2.32 | 151 | | 294 | 4.79 | 4.60 |
| | 725 | 111 | | 84 | 1.01 | 1.04 | 115 | | 145 | 1.8 | 3.20 | 115 | | 182 | 2.25 | 2.35 | 114 | | 307 | 3.78 | 4.75 |
| | 2900 | 347 | | 66 | 2.48 | 0.98 | 362 | | 111 | 4.36 | 3.10 | 362 | | 130 | 5.13 | 2.10 | 360 | | 229 | 8.94 | 2.30 |
| | 1450 | 174 | 8.348 | 79 | 1.49 | 0.98 | 181 | 8 | 136 | 2.67 | 3.10 | 181 | 8 | 161 | 3.15 | 2.30 | 180 | 8.053 | 289 | 5.61 | 3.45 |
| 8 . 0 | 960 | 115 | | 85 | 1.06 | 1.04 | 120 | | 145 | 1.88 | 3.25 | 120 | | 182 | 2.36 | 2.35 | 119 | | 310 | 3.99 | 4.70 |
| | 725 | 87 | | 90 | 0.84 | 1.18 | 91 | | 154 | 1.51 | 3.50 | 91 | | 198 | 1.93 | 2.40 | 90 | | 326 | 3.16 | 5.10 |
| | 2900 | 322 | | 67 | 2.36 | 0.98 | 319 | | 116 | 4.02 | 3.10 | 319 | | 136 | 4.71 | 2.10 | 318 | | 241 | 8.29 | 2.40 |
| | 1450 | 161 | 8.997 | 80 | 1.4 | 1.00 | 160 | 9.088 | 140 | 2.41 | 3.10 | 160 | 9.088 | 168 | 2.89 | 2.30 | 159 | 9.129 | 299 | 5.13 | 4.60 |
| 9 . 0 | 960 | 107 | | 87 | 1 | 1.09 | 106 | | 150 | 1.71 | 3.40 | 106 | | 190 | 2.17 | 2.35 | 105 | | 319 | 3.61 | 4.85 |
| | 725 | 81 | | 90 | 0.78 | 1.30 | 80 | | 159 | 1.37 | 3.90 | 80 | | 207 | 1.78 | 2.50 | 79 | | 338 | 2.89 | 6.00 |
| | 2900 | 255 | | 74 | 2.04 | 0.98 | 260 | | 125 | 3.53 | 3.10 | 260 | | 146 | 4.11 | 2.10 | 266 | | 258 | 7.44 | 2.60 |
| | 1450 | 128 | 11.359 | 84 | 1.16 | 1.02 | 130 | 11.154 | 145 | 2.04 | 3.15 | 130 | 11.154 | 179 | 2.52 | 2.30 | 133 | 10.887 | 311 | 4.46 | 4.70 |
| 1 1 . | 960 | 85 | | 90 | 0.82 | 1.30 | 86 | | 158 | 1.46 | 3.55 | 86 | | 203 | 1.89 | 2.40 | 88 | | 333 | 3.17 | 5.55 |
| | 725 | 64 | | 90 | 0.62 | 1.45 | 65 | | 160 | 1.12 | 4.00 | 65 | | 209 | 1.47 | 2.75 | 67 | | 338 | 2.42 | 6.40 |
| | 2900 | 225 | | 77 | 1.89 | 0.98 | 234 | | 130 | 3.31 | 3.10 | 234 | | 151 | 3.84 | 2.15 | 231 | | 272 | 6.82 | 2.90 |
| | 1450 | 113 | 12.877 | 87 | 1.06 | 1.04 | 117 | 12.371 | 148 | 1.88 | 3.20 | 117 | 12.371 | 186 | 2.36 | 2.35 | 116 | 12.536 | 320 | 3.99 | 4.75 |
| 1 2 . | 960 | 75 | | 90 | 0.72 | 1.40 | 78 | | 160 | 1.34 | 3.70 | 78 | | 209 | 1.75 | 2.55 | 77 | | 338 | 2.79 | 6.00 |
| | 725 | 56 | | 90 | 0.55 | 1.50 | 59 | | 160 | 1.01 | 4.00 | 59 | | 209 | 1.32 | 2.80 | 58 | | 338 | 2.11 | 6.40 |
| | 2900 | 197 | | 80 | 1.7 | 0.98 | 206 | | 136 | 3.05 | 3.10 | 206 | | 158 | 3.52 | 2.15 | 199 | | 288 | 6.2 | 3.10 |
| | 1450 | 99 | 14.715 | 90 | 0.96 | 1.09 | 103 | 14.054 | 153 | 1.71 | 3.30 | 103 | 14.054 | 194 | 2.16 | 2.35 | 99 | 14.58 | 329 | 3.53 | 4.85 |
| 1 4 . | 960 | 65 | | 90 | 0.63 | 1.40 | 68 | | 160 | 1.18 | 3.85 | 68 | | 209 | 1.54 | 2.75 | 66 | | 338 | 2.4 | 6.40 |
| | 725 | 49 | | 90 | 0.48 | 1.50 | 52 | | 160 | 0.89 | 4.00 | 52 | | 209 | 1.16 | 2.85 | 50 | | 338 | 1.81 | 6.70 |
| | 2900 | 177 | | 81 | 1.56 | 0.98 | 182 | | 141 | 2.79 | 3.10 | 182 | | 166 | 3.28 | 2.15 | 178 | | 304 | 5.86 | 3.50 |
| | 1450 | 89 | 16.369 | 90 | 0.86 | 1.18 | 91 | 15.968 | 160 | 1.57 | 3.50 | 91 | 15.968 | 205 | 2.02 | 2.40 | 89 | 16.312 | 338 | 3.25 | 5.10 |
| 1 6 . | 960 | 59 | | 90 | 0.57 | 1.45 | 60 | | 160 | 1.04 | 4.00 | 60 | | 209 | 1.36 | 2.80 | 59 | | 338 | 2.15 | 6.50 |
| | 725 | 44 | | 90 | 0.43 | 1.50 | 45 | | 160 | 0.79 | 4.00 | 45 | | 209 | 1.03 | 2.90 | 44 | | 338 | 1.62 | 7.10 |
| | 2900 | 161 | | 83 | 1.44 | 1.00 | 165 | | 142 | 2.54 | 3.10 | 165 | | 169 | 3.03 | 2.30 | 167 | | 306 | 5.52 | 4.50 |
| | 1450 | 80 | 18.047 | 90 | 0.78 | 1.35 | 82 | 17.584 | 160 | 1.43 | 3.90 | 82 | 17.584 | 208 | 1.86 | 2.45 | 83 | 17.386 | 338 | 3.04 | 5.55 |
| 1 8 . | 960 | 53 | | 90 | 0.52 | 1.48 | 55 | | 160 | 0.94 | 4.00 | 55 | | 209 | 1.23 | 2.80 | 55 | | 338 | 2.01 | 6.70 |
| | 725 | 40 | | 90 | 0.39 | 1.60 | 41 | | 160 | 0.71 | 4.00 | 41 | | 209 | 0.93 | 3.05 | 42 | | 338 | 1.52 | 7.20 |
| | 2900 | 146 | | 84 | 1.33 | 1.00 | 143 | | 145 | 2.26 | 3.15 | 143 | | 177 | 2.76 | 2.30 | 141 | | 315 | 4.81 | 4.60 |
| | 1450 | 73 | 19.861 | 90 | 0.71 | 1.40 | 72 | 20.226 | 160 | 1.24 | 3.95 | 72 | 20.226 | 209 | 1.62 | 2.60 | 70 | 20.605 | 338 | 2.57 | 6.00 |
| 2 0 . | 960 | 48 | | 90 | 0.47 | 1.50 | 47 | | 160 | 0.82 | 4.00 | 47 | | 209 | 1.07 | 2.90 | 47 | | 338 | 1.7 | 7.10 |
| | 725 | 37 | | 90 | 0.35 | 1.60 | 36 | | 160 | 0.62 | 4.00 | 36 | | 209 | 0.81 | 3.10 | 35 | | 338 | 1.28 | 7.20 |
| | 2900 | 125 | | 86 | 1.17 | 1.02 | 132 | | 147 | 2.11 | 3.15 | 132 | | 182 | 2.61 | 2.30 | 132 | | 319 | 4.56 | 4.70 |
| | 1450 | 62 | 23.269 | 90 | 0.61 | 1.45 | 66 | 21.989 | 160 | 1.14 | 4.00 | 66 | 21.989 | 209 | 1.49 | 2.75 | 66 | 22 | 338 | 2.41 | 6.40 |
| 2 2 . | 960 | 41 | | 90 | 0.4 | 1.55 | 44 | | 160 | 0.76 | 4.00 | 44 | | 209 | 0.99 | 3.05 | 44 | | 338 | 1.59 | 7.10 |
| | 725 | 31 | | 90 | 0.3 | 1.90 | 33 | | 160 | 0.57 | 4.00 | 33 | | 209 | 0.75 | 3.10 | 33 | | 338 | 1.2 | 7.20 |
| | 2900 | 104 | | 90 | 1.01 | 1.05 | 110 | | 153 | 1.83 | 3.20 | 110 | | 193 | 2.3 | 2.35 | 106 | | 331 | 3.82 | 4.80 |
| | 1450 | 52 | 27.917 | 90 | 0.51 | 1.48 | 55 | 26.397 | 160 | 0.95 | 4.00 | 55 | 26.397 | 209 | 1.25 | 2.80 | 53 | 27.3 | 338 | 1.94 | 6.70 |
| 2 8 . | 960 | 34 | | 90 | 0.34 | 1.60 | 36 | | 160 | 0.63 | 4.00 | 36 | | 209 | 0.82 | 3.10 | 35 | | 338 | 1.29 | 7.20 |
| | 725 | 26 | | 90 | 0.25 | 1.90 | 27 | | 160 | 0.48 | 4.00 | 27 | | 209 | 0.62 | 3.15 | 27 | | 338 | 0.97 | 7.20 |
| | 2900 | 89 | | 90 | 0.87 | 1.18 | 92 | | 160 | 1.59 | 3.50 | 92 | | 205 | 2.04 | 2.40 | 90 | | 338 | 3.31 | 5.10 |
| | 1450 | 45 | 32.542 | 90 | 0.44 | 1.50 | 46 | 31.677 | 160 | 0.8 | 4.00 | 46 | 31.677 | 209 | 1.04 | 2.90 | 45 | 32.192 | 338 | 1.65 | 7.10 |
| 3 2 . | 960 | 30 | | 90 | 0.29 | 1.90 | 30 | | 160 | 0.53 | 4.00 | 30 | | 209 | 0.69 | 3.10 | 30 | | 338 | 1.09 | 7.20 |
| | 725 | 22 | | 90 | 0.22 | 1.90 | 23 | | 160 | 0.4 | 4.00 | 23 | | 209 | 0.52 | 3.15 | 23 | | 338 | 0.82 | 7.20 |
| | 2900 | 80 | | 90 | 0.79 | 1.35 | 81 | | 160 | 1.42 | 3.90 | 81 | | 209 | 1.85 | 2.45 | 82 | | 338 | 3.02 | 8.55 |
| | 1450 | 40 | 36.157 | 90 | 0.39 | 1.60 | 41 | 35.692 | 160 | 0.71 | 4.00 | 41 | 35.692 | 209 | 0.92 | 3.05 | 41 | 35.25 | 338 | 1.51 | 7.20 |
| 3 6 . | 960 | 27 | | 90 | 0.26 | 1.90 | 27 | | 160 | 0.47 | 4.00 | 27 | | 209 | 0.61 | 3.15 | 27 | | 338 | 1 | 7.20 |
| | 725 | 20 | | 90 | 0.2 | 1.90 | 20 | | 160 | 0.35 | 4.00 | 20 | | 209 | 0.46 | 3.15 | 21 | | 338 | 0.75 | 7.20 |
| | 2900 | 67 | | 84 | 0.61 | 1.45 | 70 | | 160 | 1.22 | 4.00 | 70 | | 188 | 1.43 | 2.60 | 67 | | 338 | 2.47 | 6.40 |
| | 1450 | 33 | 43.542 | 84 | 0.3 | 1.90 | 35 | 41.492 | 160 | 0.61 | 4.00 | 35 | 41.492 | 199 | 0.75 | 3.10 | 34 | 43.2 | 338 | 1.23 | 7.20 |
| 4 5 . | 960 | 22 | | 84 | 0.2 | 1.90 | 23 | | 160 | 0.4 | 4.00 | 23 | | 206 | 0.52 | 3.15 | 22 | | 338 | 0.82 | 7.20 |
| | 725 | 17 | | 84 | 0.15 | 1.90 | 17 | | 160 | 0.3 | 4.00 | 17 | | 209 | 0.4 | 3.15 | 17 | | 338 | 0.62 | 7.20 |
| | 2900 | 58 | | 72 | 0.46 | 1.48 | 62 | | 160 | 1.07 | 4.00 | 62 | | 192 | 1.29 | 2.75 | 60 | | 338 | 2.22 | 6.50 |
| | 1450 | 29 | 49.907 | 72 | 0.23 | 1.90 | 31 | 47.094 | 160 | 0.54 | 4.00 | 31 | 47.094 | 203 | 0.68 | 3.10 | 30 | 48.15 | 338 | 1.11 | 7.20 |
| 5 0 . | 960 | 19 | | 72 | 0.15 | 1.90 | 20 | | 160 | 0.35 | 4.00 | 20 | | 208 | 0.46 | 3.15 | 20 | | 338 | 0.73 | 7.20 |
| | 725 | 15 | | 72 | 0.11 | 1.90 | 15 | | 160 | 0.27 | 4.00 | 15 | | 208 | 0.35 | 3.15 | 15 | | 338 | 0.55 | 7.20 |
| | 2900 | 51 | | 71 | 0.4 | 1.50 | 54 | | 160 | 0.95 | 4.00 | 54 | | 205 | 1.21 | 2.80 | 54 | | 269 | 1.58 | 6.70 |
| | 1450 | 26 | 56.719 | 71 | 0.2 | 1.90 | 27 | 53.538 | 160 | 0.47 | 4.00 | 27 | 53.538 | 206 | 0.61 | 3.15 | 27 | 54 | 270 | 0.79 | 7.20 |
| 5 6 . | 960 | 17 | | 71 | 0.13 | 1.90 | 18 | | 160 | 0.31 | 4.00 | 18 | | 206 | 0.4 | 3.15 | 18 | | 270 | 0.52 | 7.20 |
| | 725 | 13 | | 71 | 0.1 | 1.90 | 14 | | 160 | 0.24 | 4.00 | 14 | | 206 | 0.3 | 3.15 | 13 | | 270 | 0.4 | 7.20 |

# DOUBLE REDUCTION RATINGS
# SIZES M05 - M08

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**DOUBLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0522 | | | | | M0622 | | | | | M0722 | | | | | M0822 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 809 | | 263 | 23.1 | 2.80 | | | | | | 789 | | 304 | 26.1 | 3.50 | 788 | | 479 | 41.3 | 5.50 |
| | 1450 | 404 | 3.585 | 292 | 12.8 | 2.80 | | | | | | 394 | 3.678 | 306 | 13.1 | 3.50 | 394 | 3.678 | 483 | 20.7 | 6.20 |
| 3 . 6 | 960 | 268 | | 293 | 8.44 | 2.80 | | | | | | 261 | | 307 | 8.65 | 3.50 | 261 | | 484 | 13.7 | 6.25 |
| | 725 | 202 | | 293 | 6.38 | 2.80 | | | | | | 197 | | 307 | 6.53 | 3.50 | 197 | | 485 | 10.3 | 6.36 |
| | 2900 | 575 | | 317 | 19.7 | 2.80 | 653 | | 326 | 23.1 | 4.00 | 569 | | 423 | 26.1 | 3.50 | 556 | | 683 | 41.3 | 5.60 |
| | 1450 | 288 | 5.04 | 382 | 11.8 | 2.80 | 327 | 4.438 | 362 | 12.8 | 4.35 | 285 | 5.094 | 425 | 13.1 | 3.50 | 278 | 5.214 | 686 | 20.7 | 6.20 |
| 5 . 0 | 960 | 190 | | 383 | 7.84 | 2.80 | 216 | | 363 | 8.44 | 4.45 | 188 | | 425 | 8.65 | 3.50 | 184 | | 688 | 13.7 | 6.35 |
| | 725 | 144 | | 383 | 5.92 | 2.85 | 163 | | 363 | 6.38 | 4.50 | 142 | | 426 | 6.53 | 3.50 | 139 | | 688 | 10.3 | 6.50 |
| | 2900 | 513 | | 336 | 18.6 | 2.80 | 465 | | 393 | 19.7 | 4.10 | 507 | | 447 | 24.5 | 3.50 | 501 | | 760 | 41.3 | 5.80 |
| | 1450 | 257 | 5.649 | 409 | 11.3 | 2.80 | 232 | 6.24 | 473 | 11.8 | 4.45 | 253 | 5.722 | 477 | 13.1 | 3.50 | 250 | 5.792 | 763 | 20.7 | 6.25 |
| 5 . 6 | 960 | 170 | | 412 | 7.54 | 2.80 | 154 | | 474 | 7.84 | 4.50 | 168 | | 478 | 8.65 | 3.50 | 166 | | 764 | 13.7 | 6.40 |
| | 725 | 128 | | 413 | 5.69 | 2.85 | 116 | | 474 | 5.92 | 5.00 | 127 | | 478 | 6.53 | 3.50 | 125 | | 765 | 10.3 | 6.60 |
| | 2900 | 457 | | 354 | 17.5 | 2.80 | 415 | | 416 | 18.6 | 4.20 | 461 | | 464 | 23.2 | 3.50 | 450 | | 832 | 40.6 | 6.00 |
| | 1450 | 229 | 6.341 | 413 | 10.2 | 2.85 | 207 | 6.994 | 510 | 11.4 | 4.45 | 230 | 6.292 | 525 | 13.1 | 3.50 | 225 | 6.442 | 849 | 20.7 | 6.30 |
| 6 . 3 | 960 | 151 | | 413 | 6.74 | 2.90 | 137 | | 511 | 7.54 | 4.60 | 153 | | 526 | 8.65 | 3.50 | 149 | | 851 | 13.7 | 6.50 |
| | 725 | 114 | | 414 | 5.09 | 2.90 | 104 | | 511 | 5.69 | 5.20 | 115 | | 526 | 6.53 | 3.50 | 113 | | 851 | 10.3 | 6.70 |
| | 2900 | 360 | | 381 | 14.8 | 2.80 | 369 | | 438 | 17.5 | 4.30 | 353 | | 519 | 19.9 | 3.50 | 348 | | 926 | 34.9 | 6.20 |
| | 1450 | 180 | 8.053 | 441 | 8.55 | 2.85 | 185 | 7.851 | 512 | 10.2 | 4.45 | 176 | 8.218 | 655 | 12.5 | 3.50 | 174 | 8.33 | 1100 | 20.7 | 6.35 |
| 8 . 0 | 960 | 119 | | 450 | 5.77 | 2.90 | 122 | | 512 | 6.74 | 4.70 | 117 | | 687 | 8.65 | 3.50 | 115 | | 1100 | 13.7 | 6.70 |
| | 725 | 90 | | 450 | 4.36 | 2.95 | 92 | | 512 | 5.09 | 5.20 | 88 | | 687 | 6.53 | 3.60 | 87 | | 1100 | 10.3 | 7.25 |
| | 2900 | 318 | | 391 | 13.4 | 2.80 | 291 | | 484 | 15.2 | 4.35 | 310 | | 547 | 18.4 | 3.50 | 310 | | 967 | 32.5 | 6.20 |
| | 1450 | 159 | 9.129 | 450 | 7.69 | 2.90 | 145 | 9.97 | 594 | 9.3 | 4.50 | 155 | 9.344 | 689 | 11.5 | 3.50 | 155 | 9.352 | 1220 | 20.5 | 6.50 |
| 9 . 0 | 960 | 105 | | 450 | 5.09 | 2.95 | 96 | | 594 | 6.15 | 5.20 | 103 | | 743 | 8.24 | 3.50 | 103 | | 1240 | 13.7 | 7.10 |
| | 725 | 79 | | 450 | 3.84 | 3.00 | 73 | | 594 | 4.64 | 6.50 | 78 | | 780 | 6.52 | 3.70 | 78 | | 1240 | 10.3 | 8.00 |
| | 2900 | 266 | | 406 | 11.7 | 2.80 | 257 | | 507 | 14 | 4.45 | 256 | | 589 | 16.3 | 3.50 | 253 | | 1040 | 28.4 | 6.20 |
| | 1450 | 133 | 10.887 | 450 | 6.45 | 2.90 | 128 | 11.302 | 604 | 8.34 | 4.70 | 128 | 11.346 | 726 | 10 | 3.50 | 126 | 11.469 | 1310 | 17.9 | 6.60 |
| 1 1 . | 960 | 88 | | 450 | 4.27 | 2.95 | 85 | | 607 | 5.55 | 5.85 | 85 | | 773 | 7.06 | 3.60 | 84 | | 1500 | 13.6 | 7.50 |
| | 725 | 67 | | 450 | 3.22 | 4.00 | 64 | | 607 | 4.19 | 7.20 | 64 | | 811 | 5.59 | 4.25 | 63 | | 1520 | 10.3 | 9.00 |
| | 2900 | 231 | | 418 | 10.5 | 2.85 | 215 | | 538 | 12.5 | 4.45 | 232 | | 611 | 15.4 | 3.50 | 224 | | 1060 | 25.8 | 6.30 |
| | 1450 | 116 | 12.536 | 426 | 5.31 | 2.90 | 108 | 13.479 | 613 | 7.11 | 5.20 | 116 | 12.481 | 740 | 9.28 | 3.60 | 112 | 12.923 | 1340 | 16.3 | 6.90 |
| 1 2 . | 960 | 77 | | 427 | 3.52 | 3.25 | 71 | | 625 | 4.79 | 6.50 | 77 | | 793 | 6.58 | 3.70 | 74 | | 1540 | 12.4 | 8.50 |
| | 725 | 58 | | 427 | 2.66 | 4.20 | 54 | | 625 | 3.62 | 7.20 | 58 | | 819 | 5.13 | 4.20 | 56 | | 1690 | 10.2 | 9.00 |
| | 2900 | 199 | | 432 | 9.28 | 2.85 | 187 | | 527 | 10.6 | 4.45 | 202 | | 644 | 14.1 | 3.50 | 193 | | 1120 | 23.3 | 6.30 |
| | 1450 | 99 | 14.58 | 450 | 4.82 | 2.95 | 93 | 15.52 | 528 | 5.31 | 5.20 | 101 | 14.342 | 761 | 8.31 | 3.60 | 96 | 15.043 | 1410 | 14.7 | 6.90 |
| 1 4 . | 960 | 66 | | 450 | 3.19 | 4.00 | 62 | | 528 | 3.52 | 7.20 | 67 | | 808 | 5.84 | 4.00 | 64 | | 1620 | 11.2 | 9.00 |
| | 725 | 50 | | 450 | 2.41 | 4.25 | 47 | | 528 | 2.66 | 7.20 | 51 | | 830 | 4.53 | 4.50 | 48 | | 1700 | 8.82 | 9.50 |
| | 2900 | 178 | | 442 | 8.5 | 2.85 | 161 | | 584 | 10.1 | 4.50 | 178 | | 684 | 13.2 | 3.50 | 174 | | 1150 | 21.7 | 6.38 |
| | 1450 | 89 | 16.312 | 450 | 4.32 | 2.95 | 80 | 18.051 | 596 | 5.16 | 5.85 | 89 | 16.263 | 786 | 7.58 | 3.50 | 87 | 16.686 | 1420 | 13.4 | 7.25 |
| 1 6 . | 960 | 59 | | 450 | 2.86 | 4.10 | 53 | | 597 | 3.42 | 7.20 | 59 | | 818 | 5.22 | 4.20 | 58 | | 1420 | 8.85 | 9.00 |
| | 725 | 44 | | 450 | 2.16 | 4.50 | 40 | | 597 | 2.58 | 7.20 | 45 | | 841 | 4.05 | 4.65 | 43 | | 1420 | 6.68 | 9.50 |
| | 2900 | 167 | | 448 | 8.08 | 2.90 | 144 | | 598 | 9.28 | 4.50 | 162 | | 700 | 12.3 | 3.50 | 159 | | 1160 | 19.9 | 6.50 |
| | 1450 | 83 | 17.386 | 450 | 4.05 | 3.00 | 72 | 20.196 | 626 | 4.85 | 6.50 | 81 | 17.938 | 794 | 6.93 | 3.60 | 79 | 18.261 | 1360 | 11.7 | 8.00 |
| 1 8 . | 960 | 55 | | 450 | 2.68 | 4.20 | 48 | | 626 | 3.21 | 7.20 | 54 | | 826 | 4.77 | 4.50 | 53 | | 1360 | 7.74 | 9.25 |
| | 725 | 42 | | 450 | 2.02 | 4.50 | 36 | | 626 | 2.42 | 7.20 | 40 | | 849 | 3.71 | 5.10 | 40 | | 1360 | 5.85 | 10.00 |
| | 2900 | 141 | | 450 | 6.85 | 2.90 | 135 | | 601 | 8.75 | 4.60 | 141 | | 731 | 11.2 | 3.50 | 140 | | 1200 | 18.3 | 6.50 |
| | 1450 | 70 | 20.605 | 450 | 3.42 | 3.50 | 67 | 21.526 | 626 | 4.55 | 7.20 | 71 | 20.543 | 804 | 6.14 | 3.90 | 70 | 20.659 | 1460 | 11.1 | 8.50 |
| 2 0 . | 960 | 47 | | 450 | 2.26 | 4.50 | 45 | | 626 | 3.01 | 7.20 | 47 | | 837 | 4.23 | 4.60 | 46 | | 1460 | 7.34 | 9.50 |
| | 725 | 35 | | 450 | 1.71 | 5.60 | 34 | | 626 | 2.27 | 7.20 | 35 | | 861 | 3.28 | 6.25 | 35 | | 1460 | 5.54 | 12.30 |
| | 2900 | 132 | | 450 | 6.41 | 2.90 | 114 | | 610 | 7.5 | 4.90 | 125 | | 748 | 10.1 | 3.50 | 124 | | 1230 | 16.6 | 6.60 |
| | 1450 | 66 | 22 | 450 | 3.2 | 4.00 | 57 | 25.511 | 626 | 3.84 | 7.20 | 62 | 23.226 | 813 | 5.5 | 4.20 | 62 | 23.32 | 1540 | 10.3 | 9.00 |
| 2 2 . | 960 | 44 | | 450 | 2.12 | 4.50 | 38 | | 626 | 2.54 | 7.20 | 41 | | 847 | 3.79 | 5.10 | 41 | | 1540 | 6.84 | 10.00 |
| | 725 | 33 | | 450 | 1.6 | 6.30 | 28 | | 626 | 1.92 | 7.20 | 31 | | 867 | 2.93 | 7.40 | 31 | | 1540 | 5.16 | 12.30 |
| | 2900 | 106 | | 450 | 5.17 | 2.90 | 106 | | 614 | 7.07 | 5.20 | 108 | | 768 | 8.97 | 3.50 | 103 | | 1260 | 14 | 6.90 |
| | 1450 | 53 | 27.3 | 450 | 2.58 | 4.25 | 53 | 27.238 | 626 | 3.6 | 7.20 | 54 | 26.928 | 825 | 4.81 | 4.50 | 51 | 28.269 | 1580 | 8.8 | 9.25 |
| 2 8 . | 960 | 35 | | 450 | 1.71 | 5.60 | 35 | | 626 | 2.38 | 7.20 | 36 | | 860 | 3.32 | 6.25 | 34 | | 1670 | 6.13 | 12.30 |
| | 725 | 27 | | 450 | 1.29 | 7.20 | 27 | | 626 | 1.8 | 7.20 | 27 | | 867 | 2.53 | 8.00 | 26 | | 1670 | 4.63 | 14.00 |
| | 2900 | 90 | | 450 | 4.39 | 2.95 | 86 | | 626 | 5.81 | 5.80 | 90 | | 786 | 7.7 | 3.50 | 88 | | 1280 | 12.2 | 7.25 |
| | 1450 | 45 | 32.192 | 450 | 2.19 | 4.50 | 43 | 33.8 | 626 | 2.9 | 7.20 | 45 | 32.118 | 840 | 4.11 | 4.65 | 44 | 32.967 | 1620 | 7.72 | 9.50 |
| 3 2 . | 960 | 30 | | 450 | 1.45 | 6.30 | 28 | | 626 | 1.92 | 7.20 | 30 | | 867 | 2.81 | 7.40 | 29 | | 1700 | 5.36 | 13.50 |
| | 725 | 23 | | 450 | 1.1 | 7.20 | 21 | | 626 | 1.45 | 7.20 | 23 | | 868 | 2.12 | 9.20 | 22 | | 1700 | 4.04 | 16.20 |
| | 2900 | 82 | | 450 | 4.02 | 3.00 | 73 | | 626 | 4.93 | 6.50 | 82 | | 792 | 7.1 | 3.60 | 80 | | 1310 | 11.4 | 8.00 |
| | 1450 | 41 | 35.25 | 450 | 2.01 | 5.00 | 36 | 39.857 | 626 | 2.47 | 7.20 | 41 | 35.173 | 847 | 3.79 | 5.10 | 40 | 36.213 | 1650 | 7.18 | 10.00 |
| 3 6 . | 960 | 27 | | 450 | 1.33 | 7.20 | 24 | | 626 | 1.63 | 7.20 | 27 | | 867 | 2.57 | 8.00 | 27 | | 1700 | 4.88 | 14.00 |
| | 725 | 21 | | 450 | 1 | 7.20 | 18 | | 626 | 1.23 | 7.20 | 21 | | 868 | 1.94 | 9.20 | 20 | | 1700 | 3.69 | 16.20 |
| | 2900 | 67 | | 415 | 3.03 | 4.00 | 66 | | 626 | 4.51 | 7.20 | 69 | | 806 | 6.03 | 3.90 | 65 | | 1340 | 9.51 | 9.00 |
| | 1450 | 34 | 43.2 | 424 | 1.55 | 5.60 | 33 | 43.643 | 626 | 2.25 | 7.20 | 34 | 42.208 | 863 | 3.23 | 6.25 | 33 | 44.379 | 1690 | 5.99 | 12.30 |
| 4 5 . | 960 | 22 | | 439 | 1.06 | 7.20 | 22 | | 626 | 1.49 | 7.20 | 23 | | 868 | 2.15 | 9.20 | 22 | | 1700 | 3.98 | 16.20 |
| | 725 | 17 | | 450 | 0.82 | 7.20 | 17 | | 626 | 1.13 | 7.20 | 17 | | 868 | 1.62 | 9.20 | 16 | | 1700 | 3.01 | 16.20 |
| | 2900 | 60 | | 379 | 2.48 | 4.00 | 54 | | 514 | 3.03 | 7.20 | 60 | | 700 | 4.56 | 4.20 | 60 | | 1350 | 8.79 | 9.20 |
| | 1450 | 30 | 48.15 | 379 | 1.24 | 6.30 | 27 | 53.486 | 526 | 1.55 | 7.20 | 30 | 48.562 | 700 | 2.28 | 7.40 | 30 | 48.462 | 1690 | 5.48 | 13.50 |
| 5 0 . | 960 | 20 | | 379 | 0.82 | 7.20 | 18 | | 544 | 1.06 | 7.20 | 20 | | 701 | 1.51 | 9.20 | 20 | | 1700 | 3.65 | 16.20 |
| | 725 | 15 | | 379 | 0.62 | 7.20 | 14 | | 557 | 0.82 | 7.20 | 15 | | 701 | 1.14 | 9.20 | 15 | | 1700 | 2.76 | 16.20 |
| | 2900 | 54 | | 269 | 1.58 | 4.25 | 49 | | 469 | 2.48 | 7.20 | 54 | | 595 | 3.49 | 4.50 | 52 | | 1360 | 7.72 | 9.25 |
| | 1450 | 27 | 54 | 270 | 0.79 | 7.20 | 24 | 59.614 | 470 | 1.24 | 7.20 | 27 | 53.957 | 596 | 1.75 | 9.20 | 26 | 55.804 | 1540 | 4.36 | 16.20 |
| 5 6 . | 960 | 18 | | 270 | 0.52 | 7.20 | 16 | | 470 | 0.82 | 7.20 | 18 | | 596 | 1.16 | 9.20 | 17 | | 1550 | 2.91 | 16.20 |
| | 725 | 13 | | 270 | 0.4 | 7.20 | 12 | | 470 | 0.62 | 7.20 | 13 | | 596 | 0.87 | 9.20 | 13 | | 1550 | 2.19 | 16.20 |
| | 2900 | | | | | | 43 | | 334 | 1.58 | 7.20 | | | | | | | | | | |
| | 1450 | | | | | | 22 | 66.857 | 334 | 0.79 | 7.20 | | | | | | | | | | |
| 6 3 . | 960 | | | | | | 14 | | 334 | 0.52 | 7.20 | | | | | | | | | | |
| | 725 | | | | | | 11 | | 334 | 0.4 | 7.20 | | | | | | | | | | |

# DOUBLE REDUCTION RATINGS
# SIZES M09 - M14

Note: Input Power, Pm may exceed thermal limit, Check thermal power page 107

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**DOUBLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0921 | | | | | M1021 | | | | | M1321 | | | | | M1421 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 1961 | | 452 | 96.1 | 10.0 | 2011 | | 719 | 156 | 12.0 | | | | | | | | | | |
| | 1450 | 980 | 1.479 | 574 | 60.6 | 10.0 | 1005 | 1.442 | 722 | 78.2 | 12.0 | | | | | | | | | | |
| 1 . 4 | 960 | 649 | | 661 | 46 | 10.1 | 666 | | 722 | 51.8 | 12.2 | | | | | | | | | | |
| | 725 | 490 | | 727 | 38.2 | 10.1 | 503 | | 723 | 39.1 | 12.2 | | | | | | | | | | |
| | 2900 | 1424 | | 534 | 82.2 | 10.0 | 1439 | | 1010 | 156 | 12.0 | | | | | | | | | | |
| | 1450 | 712 | 2.036 | 677 | 51.8 | 10.1 | 720 | 2.015 | 1010 | 78.2 | 12.2 | | | | | | | | | | |
| 1 . 8 | 960 | 471 | | 779 | 39.3 | 10.1 | 476 | | 1010 | 51.8 | 12.2 | | | | | | | | | | |
| | 725 | 356 | | 856 | 32.6 | 10.2 | 360 | | 1010 | 39.1 | 12.3 | | | | | | | | | | |
| | 2900 | 1271 | | 565 | 77.5 | 10.0 | 1323 | | 1100 | 156 | 12.0 | | | | | | | | | | |
| | 1450 | 635 | 2.282 | 716 | 48.8 | 10.1 | 662 | 2.191 | 1100 | 78.2 | 12.2 | | | | | | | | | | |
| 2 . 2 | 960 | 421 | | 824 | 37.1 | 10.2 | 438 | | 1100 | 51.8 | 12.3 | | | | | | | | | | |
| | 725 | 318 | | 906 | 30.8 | 10.2 | 331 | | 1100 | 39.1 | 12.3 | | | | | | | | | | |
| | 2900 | 1132 | | 596 | 72.9 | 10.0 | 1165 | | 1170 | 147 | 12.0 | | | | | | | | | | |
| | 1450 | 566 | 2.562 | 756 | 45.9 | 10.1 | 583 | 2.489 | 1250 | 78.2 | 12.2 | | | | | | | | | | |
| 2 . 5 | 960 | 375 | | 869 | 34.9 | 10.2 | 386 | | 1250 | 51.8 | 12.3 | | | | | | | | | | |
| | 725 | 283 | | 956 | 28.9 | 10.4 | 291 | | 1250 | 39.1 | 12.4 | | | | | | | | | | |
| | 2900 | 977 | | 909 | 96.1 | 10.0 | 969 | | 1490 | 156 | 12.0 | 999 | | 1810 | 195 | 28.0 | 1004 | | 2520 | 274 | 35.0 |
| | 1450 | 488 | 2.969 | 1150 | 60.6 | 10.1 | 485 | 2.992 | 1490 | 78.2 | 12.2 | 499 | 2.904 | 1810 | 97.4 | 28.7 | 502 | 2.888 | 2520 | 137 | 36.0 |
| 2 . 8 | 960 | 323 | | 1320 | 46 | 10.2 | 321 | | 1500 | 51.8 | 12.3 | 331 | | 1810 | 64.5 | 29.5 | 332 | | 2520 | 90.6 | 37.5 |
| | 725 | 244 | | 1460 | 38.2 | 10.4 | 242 | | 1500 | 39.1 | 12.4 | 250 | | 1810 | 48.7 | 30.0 | 251 | | 2520 | 68.5 | 38.0 |
| | 2900 | 878 | | 671 | 63.6 | 10.1 | 895 | | 1310 | 126 | 12.2 | 909 | | 1980 | 195 | 28.3 | 893 | | 2840 | 274 | 35.5 |
| | 1450 | 439 | 3.301 | 850 | 40 | 10.2 | 447 | 3.242 | 1570 | 75.2 | 12.3 | 455 | 3.189 | 1990 | 97.4 | 29.2 | 447 | 3.247 | 2840 | 137 | 37.0 |
| 3 . 2 | 960 | 291 | | 978 | 30.4 | 10.4 | 296 | | 1570 | 49.8 | 12.4 | 301 | | 1990 | 64.5 | 30.0 | 296 | | 2840 | 90.6 | 38.0 |
| | 725 | 220 | | 1070 | 25.2 | 10.6 | 224 | | 1570 | 37.6 | 12.4 | 227 | | 1990 | 48.7 | 31.0 | 223 | | 2840 | 68.5 | 39.0 |
| | 2900 | 786 | | 692 | 58.6 | 10.1 | 829 | | 1330 | 118 | 12.2 | 797 | | 2250 | 195 | 28.3 | 759 | | 3320 | 274 | 35.5 |
| | 1450 | 393 | 3.688 | 876 | 36.9 | 10.2 | 414 | 3.5 | 1570 | 69.7 | 12.3 | 399 | 3.638 | 2260 | 97.4 | 29.2 | 379 | 3.822 | 3330 | 137 | 37.0 |
| 3 . 6 | 960 | 260 | | 1010 | 28.1 | 10.4 | 274 | | 1570 | 46.1 | 12.4 | 264 | | 2260 | 64.5 | 30.0 | 251 | | 3330 | 90.6 | 38.0 |
| | 725 | 197 | | 1090 | 22.8 | 10.6 | 207 | | 1570 | 34.8 | 12.4 | 199 | | 2260 | 48.7 | 31.0 | 190 | | 3330 | 68.5 | 39.0 |
| | 2900 | 709 | | 1070 | 82.2 | 10.1 | 694 | | 2090 | 156 | 12.2 | 720 | | 2510 | 195 | 28.3 | 720 | | 3520 | 274 | 35.5 |
| | 1450 | 355 | 4.088 | 1360 | 51.8 | 10.2 | 347 | 4.179 | 2090 | 78.2 | 12.3 | 360 | 4.025 | 2510 | 97.4 | 29.5 | 360 | 4.029 | 3530 | 137 | 37.5 |
| 4 . 0 | 960 | 235 | | 1560 | 39.3 | 10.6 | 230 | | 2090 | 51.8 | 12.4 | 239 | | 2510 | 64.5 | 31.0 | 238 | | 3530 | 90.6 | 39.0 |
| | 725 | 177 | | 1710 | 32.6 | 10.8 | 173 | | 2100 | 39.1 | 12.5 | 180 | | 2510 | 48.7 | 32.5 | 180 | | 3530 | 68.5 | 40.0 |
| | 2900 | 633 | | 1130 | 77.5 | 10.1 | 638 | | 2200 | 152 | 12.2 | 656 | | 2760 | 195 | 28.3 | 639 | | 3970 | 274 | 35.5 |
| | 1450 | 316 | 4.582 | 1440 | 48.8 | 10.2 | 319 | 4.545 | 2280 | 78.2 | 12.3 | 328 | 4.421 | 2760 | 97.4 | 29.5 | 320 | 4.537 | 3970 | 137 | 37.5 |
| 4 . 5 | 960 | 210 | | 1650 | 37.1 | 10.6 | 211 | | 2280 | 51.8 | 12.4 | 217 | | 2760 | 64.5 | 31.0 | 212 | | 3970 | 90.6 | 39.0 |
| | 725 | 158 | | 1810 | 30.8 | 10.8 | 160 | | 2280 | 39.1 | 12.5 | 164 | | 2760 | 48.7 | 32.5 | 160 | | 3970 | 68.5 | 40.0 |
| | 2900 | 572 | | 1330 | 82.2 | 10.1 | 587 | | 2260 | 144 | 12.2 | 575 | | 3130 | 195 | 28.7 | 544 | | 4650 | 274 | 36.0 |
| | 1450 | 286 | 5.073 | 1680 | 51.8 | 10.4 | 294 | 4.938 | 2470 | 78.2 | 12.4 | 288 | 5.042 | 3140 | 97.4 | 30.0 | 272 | 5.333 | 4660 | 137 | 38.0 |
| 5 . 0 | 960 | 189 | | 1930 | 39.3 | 10.8 | 194 | | 2470 | 51.8 | 12.5 | 190 | | 3140 | 64.5 | 32.5 | 180 | | 4660 | 90.6 | 40.0 |
| | 725 | 143 | | 2120 | 32.6 | 11.0 | 147 | | 2470 | 39.1 | 12.5 | 144 | | 3140 | 48.7 | 35.0 | 136 | | 4660 | 68.5 | 41.0 |
| | 2900 | 510 | | 1410 | 77.5 | 10.1 | 540 | | 2340 | 137 | 12.2 | 524 | | 3440 | 195 | 28.7 | 483 | | 5240 | 274 | 36.0 |
| | 1450 | 255 | 5.686 | 1780 | 48.8 | 10.4 | 270 | 5.37 | 2690 | 78.2 | 12.4 | 262 | 5.538 | 3450 | 97.4 | 30.0 | 241 | 6.005 | 5240 | 137 | 38.0 |
| 5 . 6 | 960 | 169 | | 2040 | 37.1 | 10.8 | 179 | | 2690 | 51.8 | 12.5 | 173 | | 3450 | 64.5 | 32.5 | 160 | | 5240 | 90.6 | 40.0 |
| | 725 | 128 | | 2250 | 30.7 | 11.0 | 135 | | 2690 | 39.1 | 12.5 | 131 | | 3450 | 48.7 | 35.0 | 121 | | 5240 | 68.5 | 41.0 |
| | 2900 | 438 | | 1350 | 63.6 | 10.2 | 431 | | 2550 | 119 | 12.3 | 467 | | 3880 | 195 | 29.2 | 443 | | 5730 | 274 | 37.0 |
| | 1450 | 219 | 6.628 | 1700 | 40 | 10.6 | 216 | 6.724 | 3140 | 72.9 | 12.4 | 234 | 6.21 | 3880 | 97.4 | 31.0 | 221 | 6.548 | 5730 | 137 | 39.0 |
| 6 . 3 | 960 | 145 | | 1960 | 30.4 | 11.0 | 143 | | 3370 | 51.8 | 12.5 | 155 | | 3880 | 64.5 | 35.0 | 147 | | 5730 | 90.6 | 41.0 |
| | 725 | 109 | | 2150 | 25.2 | 11.4 | 108 | | 3370 | 39.1 | 13.0 | 117 | | 3880 | 48.7 | 38.0 | 111 | | 5730 | 68.5 | 43.0 |
| | 2900 | 392 | | 1390 | 58.6 | 10.2 | 399 | | 2620 | 113 | 12.3 | 422 | | 4300 | 195 | 29.2 | 399 | | 6370 | 274 | 37.0 |
| | 1450 | 196 | 7.404 | 1760 | 36.9 | 10.6 | 200 | 7.26 | 3230 | 69.5 | 12.4 | 211 | 6.879 | 4300 | 97.4 | 31.0 | 199 | 7.27 | 6360 | 137 | 39.0 |
| 7 . 1 | 960 | 130 | | 2020 | 28.1 | 11.0 | 132 | | 3640 | 51.8 | 12.5 | 140 | | 4300 | 64.5 | 35.0 | 132 | | 6360 | 90.6 | 41.0 |
| | 725 | 98 | | 2220 | 23.3 | 11.4 | 100 | | 3640 | 39.1 | 13.0 | 105 | | 4300 | 48.7 | 38.0 | 100 | | 6370 | 68.5 | 43.0 |
| | 2900 | 353 | | 1670 | 63.6 | 10.2 | 365 | | 2700 | 107 | 12.3 | 373 | | 4840 | 195 | 29.5 | 335 | | 7570 | 274 | 37.5 |
| | 1450 | 176 | 8.224 | 2080 | 39.5 | 10.8 | 182 | 7.945 | 3330 | 65.5 | 12.5 | 186 | 7.779 | 4840 | 97.4 | 32.5 | 167 | 8.667 | 7570 | 137 | 40.0 |
| 8 . 0 | 960 | 117 | | 2360 | 29.6 | 11.4 | 121 | | 3760 | 49 | 13.0 | 123 | | 4840 | 64.5 | 38.0 | 111 | | 7570 | 90.6 | 43.0 |
| | 725 | 88 | | 2560 | 24.3 | 13.0 | 91 | | 3980 | 39.1 | 15.0 | 93 | | 4850 | 48.7 | 42.0 | 84 | | 7570 | 68.5 | 46.0 |
| | 2900 | 316 | | 1720 | 58.6 | 10.2 | 338 | | 2780 | 102 | 12.3 | 337 | | 5110 | 186 | 29.5 | 301 | | 8410 | 274 | 37.5 |
| | 1450 | 158 | 9.188 | 2170 | 36.8 | 10.8 | 169 | 8.578 | 3420 | 62.4 | 12.5 | 168 | 8.618 | 5360 | 97.4 | 32.5 | 151 | 9.623 | 8400 | 137 | 40.0 |
| 9 . 0 | 960 | 104 | | 2450 | 27.5 | 11.4 | 112 | | 3870 | 46.7 | 13.0 | 111 | | 5370 | 64.5 | 38.0 | 100 | | 8400 | 90.6 | 43.0 |
| | 725 | 79 | | 2670 | 22.6 | 13.0 | 85 | | 4210 | 38.3 | 15.0 | 84 | | 5370 | 48.7 | 42.0 | 75 | | 8410 | 68.5 | 46.0 |
| | 2900 | 282 | | 1560 | 47.4 | 10.4 | 274 | | 2990 | 88.3 | 12.4 | 293 | | 5470 | 173 | 30.0 | 288 | | 7980 | 248 | 38.0 |
| | 1450 | 141 | 10.266 | 1970 | 29.8 | 11.0 | 137 | 10.587 | 3680 | 54.2 | 12.5 | 147 | 9.891 | 6170 | 97.4 | 35.0 | 144 | 10.065 | 8800 | 137 | 41.0 |
| 1 0 . | 960 | 94 | | 2260 | 22.7 | 13.0 | 91 | | 3770 | 36.8 | 15.0 | 97 | | 6180 | 64.5 | 42.0 | 95 | | 8810 | 90.6 | 46.0 |
| | 725 | 71 | | 2480 | 18.8 | 15.7 | 68 | | 3770 | 27.8 | 15.9 | 73 | | 6180 | 48.7 | 45.0 | 72 | | 8810 | 68.5 | 52.0 |
| | 2900 | 248 | | 1610 | 43.1 | 10.4 | 242 | | 3120 | 81.4 | 12.4 | 259 | | 5900 | 165 | 30.0 | 254 | | 8270 | 227 | 38.0 |
| | 1450 | 124 | 11.705 | 2040 | 27.1 | 11.0 | 121 | 11.984 | 3770 | 49.1 | 12.5 | 129 | 11.2 | 5940 | 82.7 | 35.0 | 127 | 11.429 | 9980 | 137 | 41.0 |
| 1 1 . | 960 | 82 | | 2340 | 20.6 | 13.0 | 80 | | 3770 | 32.5 | 15.0 | 86 | | 5940 | 54.7 | 42.0 | 84 | | 9990 | 90.6 | 46.0 |
| | 725 | 62 | | 2570 | 17.1 | 15.7 | 60 | | 3770 | 24.5 | 15.9 | 65 | | 5940 | 41.3 | 45.0 | 63 | | 9990 | 68.4 | 52.0 |

# DOUBLE REDUCTION RATINGS
# SIZES M09 - M14

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**DOUBLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0921 | | | | | M1021 | | | | | M1321 | | | | | M1421 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 228 | | 1930 | 47.4 | 10.6 | 232 | | 3160 | 79.1 | 12.4 | 234 | | 5370 | 136 | 31.0 | 218 | | 10200 | 241 | 39.0 |
| | 1450 | 114 | 12.739 | 2420 | 29.6 | 11.4 | 116 | 12.509 | 3890 | 48.6 | 13.0 | 117 | 12.391 | 6350 | 80.3 | 38.0 | 109 | 13.322 | 10200 | 121 | 43.0 |
| 1 2 . | 960 | 75 | | 2740 | 22.2 | 13.0 | 77 | | 4400 | 36.4 | 15.0 | 77 | | 6350 | 53.2 | 42.0 | 72 | | 10200 | 79.8 | 46.0 |
| | 725 | 57 | | 2860 | 17.5 | 17.0 | 58 | | 4410 | 27.5 | 23.0 | 59 | | 6350 | 40.1 | 51.0 | 54 | | 10200 | 60.2 | 60.0 |
| | 2900 | 200 | | 2000 | 43.1 | 10.6 | 205 | | 3290 | 72.9 | 12.4 | 207 | | 5880 | 131 | 31.0 | 192 | | 10400 | 215 | 39.0 |
| | 1450 | 100 | 14.525 | 2530 | 27.1 | 11.4 | 102 | 14.161 | 4050 | 44.8 | 13.0 | 103 | 14.031 | 6290 | 70.3 | 38.0 | 96 | 15.127 | 10400 | 108 | 43.0 |
| 1 4 . | 960 | 66 | | 2860 | 20.3 | 15.7 | 68 | | 4410 | 32.2 | 15.9 | 68 | | 6290 | 46.5 | 45.0 | 63 | | 10400 | 71.3 | 52.0 |
| | 725 | 50 | | 2860 | 15.3 | 17.0 | 51 | | 4410 | 24.3 | 23.0 | 52 | | 6290 | 35.1 | 51.0 | 48 | | 10400 | 53.8 | 60.0 |
| | 2900 | 175 | | 1750 | 32.9 | 10.8 | 177 | | 3460 | 65.9 | 12.5 | 182 | | 6070 | 119 | 32.5 | 177 | | 8970 | 172 | 40.0 |
| | 1450 | 87 | 16.591 | 2210 | 20.7 | 13.0 | 88 | 16.426 | 3770 | 35.9 | 15.0 | 91 | 15.969 | 6200 | 60.8 | 42.0 | 88 | 16.429 | 11100 | 106 | 46.0 |
| 1 6 . | 960 | 58 | | 2530 | 15.7 | 17.0 | 58 | | 3770 | 23.7 | 23.0 | 60 | | 6200 | 40.2 | 51.0 | 58 | | 11100 | 70.2 | 60.0 |
| | 725 | 44 | | 2640 | 12.4 | 22.4 | 44 | | 3770 | 17.9 | 28.0 | 45 | | 6200 | 30.4 | 56.0 | 44 | | 11100 | 53 | 70.0 |
| | 2900 | 157 | | 1760 | 29.9 | 10.8 | 159 | | 3520 | 60.4 | 12.5 | 161 | | 6200 | 108 | 32.5 | 160 | | 9260 | 161 | 40.0 |
| | 1450 | 79 | 18.433 | 2230 | 18.9 | 13.0 | 79 | 18.253 | 3770 | 32.3 | 15.0 | 81 | 18 | 6200 | 53.9 | 42.0 | 80 | 18.112 | 11100 | 96.2 | 46.0 |
| 1 8 . | 960 | 52 | | 2560 | 14.3 | 17.0 | 53 | | 3770 | 21.4 | 23.0 | 53 | | 6200 | 35.7 | 51.0 | 53 | | 11100 | 63.7 | 60.0 |
| | 725 | 39 | | 2640 | 11.2 | 22.4 | 40 | | 3770 | 16.1 | 28.0 | 40 | | 6200 | 26.9 | 56.0 | 40 | | 11100 | 48.1 | 70.0 |
| | 2900 | 141 | | 2160 | 32.9 | 11.0 | 149 | | 3650 | 58.9 | 12.5 | 145 | | 5980 | 94.1 | 35.0 | 133 | | 10600 | 153 | 41.0 |
| | 1450 | 70 | 20.588 | 2730 | 20.7 | 15.7 | 75 | 19.409 | 4410 | 35.6 | 15.9 | 72 | 20.005 | 6350 | 49.9 | 45.0 | 67 | 21.745 | 10600 | 76.7 | 52.0 |
| 2 0 . | 960 | 47 | | 2860 | 14.3 | 22.4 | 49 | | 4410 | 23.5 | 28.0 | 48 | | 6350 | 33 | 56.0 | 44 | | 10600 | 50.7 | 70.0 |
| | 725 | 35 | | 2860 | 10.8 | 26.2 | 37 | | 4410 | 17.8 | 34.0 | 36 | | 6350 | 24.9 | 60.0 | 33 | | 10600 | 38.3 | 79.0 |
| | 2900 | 127 | | 2190 | 29.9 | 11.0 | 134 | | 3770 | 54.9 | 12.5 | 129 | | 6350 | 88.6 | 35.0 | 121 | | 10800 | 142 | 41.0 |
| | 1450 | 63 | 22.874 | 2760 | 18.9 | 15.7 | 67 | 21.568 | 4410 | 32 | 15.9 | 64 | 22.549 | 6350 | 44.3 | 45.0 | 60 | 23.974 | 10800 | 70.7 | 52.0 |
| 2 2 . | 960 | 42 | | 2860 | 12.9 | 22.4 | 45 | | 4410 | 21.2 | 28.0 | 43 | | 6350 | 29.3 | 56.0 | 40 | | 10800 | 46.8 | 70.0 |
| | 725 | 32 | | 2860 | 9.75 | 26.2 | 34 | | 4410 | 16 | 34.0 | 32 | | 6350 | 22.1 | 60.0 | 30 | | 10800 | 35.4 | 79.0 |
| | 2900 | 111 | | 1880 | 22.6 | 11.4 | 111 | | 3760 | 45.2 | 13.0 | 114 | | 6200 | 76.7 | 38.0 | 111 | | 9530 | 115 | 43.0 |
| | 1450 | 56 | 26.037 | 2370 | 14.2 | 17.0 | 56 | 26.029 | 3770 | 22.7 | 23.0 | 57 | 25.455 | 6200 | 38.3 | 51.0 | 56 | 26.071 | 10600 | 63.8 | 60.0 |
| 2 5 . | 960 | 37 | | 2640 | 10.5 | 26.2 | 37 | | 3770 | 15 | 34.0 | 38 | | 6200 | 25.4 | 60.0 | 37 | | 10600 | 42.2 | 79.0 |
| | 725 | 28 | | 2640 | 7.93 | 28.0 | 28 | | 3770 | 11.3 | 40.0 | 28 | | 6200 | 19.1 | 64.0 | 28 | | 10600 | 31.9 | 79.0 |
| | 2900 | 101 | | 1900 | 20.7 | 11.4 | 97 | | 3770 | 39.5 | 13.0 | 102 | | 6200 | 68.9 | 38.0 | 103 | | 9770 | 109 | 43.0 |
| | 1450 | 50 | 28.744 | 2400 | 13 | 17.0 | 48 | 29.992 | 3770 | 19.7 | 23.0 | 51 | 28.35 | 6200 | 34.4 | 51.0 | 51 | 28.247 | 9970 | 55.6 | 60.0 |
| 2 8 . | 960 | 33 | | 2640 | 9.51 | 26.2 | 32 | | 3770 | 13 | 34.0 | 34 | | 6200 | 22.8 | 60.0 | 34 | | 9980 | 36.8 | 79.0 |
| | 725 | 25 | | 2640 | 7.18 | 28.0 | 24 | | 3770 | 9.85 | 40.0 | 26 | | 6200 | 17.2 | 64.0 | 26 | | 9980 | 27.8 | 79.0 |
| | 2900 | 90 | | 2330 | 22.6 | 13.0 | 94 | | 4220 | 43.1 | 15.0 | 91 | | 6350 | 62.9 | 42.0 | 84 | | 10700 | 97.6 | 46.0 |
| | 1450 | 45 | 32.31 | 2860 | 13.8 | 22.4 | 47 | 30.756 | 4410 | 22.5 | 28.0 | 45 | 31.888 | 6350 | 31.4 | 56.0 | 42 | 34.509 | 10700 | 48.8 | 70.0 |
| 3 2 . | 960 | 30 | | 2860 | 9.16 | 28.0 | 31 | | 4410 | 14.9 | 40.0 | 30 | | 6350 | 20.8 | 64.0 | 28 | | 10700 | 32.3 | 79.0 |
| | 725 | 22 | | 2860 | 6.92 | 28.0 | 24 | | 4410 | 11.2 | 40.0 | 23 | | 6350 | 15.7 | 64.0 | 21 | | 10700 | 24.4 | 79.0 |
| | 2900 | 81 | | 2350 | 20.7 | 13.0 | 82 | | 4410 | 39.1 | 15.0 | 82 | | 6350 | 56.6 | 42.0 | 78 | | 10800 | 91.3 | 46.0 |
| | 1450 | 41 | 35.669 | 2860 | 12.5 | 22.4 | 41 | 35.438 | 4410 | 19.5 | 28.0 | 41 | 35.515 | 6350 | 28.3 | 56.0 | 39 | 37.388 | 10800 | 45.6 | 70.0 |
| 3 6 . | 960 | 27 | | 2860 | 8.3 | 28.0 | 27 | | 4410 | 12.9 | 40.0 | 27 | | 6350 | 18.7 | 64.0 | 26 | | 10800 | 30.2 | 79.0 |
| | 725 | 20 | | 2860 | 6.26 | 28.0 | 20 | | 4410 | 9.76 | 40.0 | 20 | | 6350 | 14.1 | 64.0 | 19 | | 10800 | 22.8 | 79.0 |
| | 2900 | 72 | | 2460 | 19.3 | 15.7 | 78 | | 4160 | 35.3 | 15.9 | 74 | | 6090 | 49.4 | 45.0 | 74 | | 9400 | 75.7 | 52.0 |
| | 1450 | 36 | 40.252 | 2470 | 9.62 | 26.2 | 39 | 37.059 | 4160 | 17.6 | 34.0 | 37 | 39.008 | 6460 | 26.2 | 60.0 | 37 | 39.42 | 9940 | 39.9 | 79.0 |
| 4 0 . | 960 | 24 | | 2470 | 6.37 | 28.0 | 26 | | 4160 | 11.7 | 40.0 | 25 | | 6460 | 17.4 | 64.0 | 24 | | 10100 | 26.9 | 79.0 |
| | 725 | 18 | | 2470 | 4.81 | 28.0 | 20 | | 4160 | 8.82 | 40.0 | 19 | | 6460 | 13.1 | 64.0 | 18 | | 10100 | 20.3 | 79.0 |
| | 2900 | 65 | | 2470 | 17.4 | 15.7 | 68 | | 4160 | 30.7 | 15.9 | 67 | | 6160 | 45 | 45.0 | 68 | | 9460 | 70.2 | 52.0 |
| | 1450 | 33 | 44.438 | 2470 | 8.71 | 26.2 | 34 | 42.7 | 4160 | 15.3 | 34.0 | 33 | 43.445 | 6460 | 23.6 | 60.0 | 34 | 42.709 | 10000 | 37.1 | 79.0 |
| 4 5 . | 960 | 22 | | 2470 | 5.77 | 28.0 | 22 | | 4160 | 10.1 | 40.0 | 22 | | 6460 | 15.6 | 64.0 | 22 | | 10100 | 24.8 | 79.0 |
| | 725 | 16 | | 2470 | 4.35 | 28.0 | 17 | | 4160 | 7.66 | 40.0 | 17 | | 6460 | 11.8 | 64.0 | 17 | | 10100 | 18.7 | 79.0 |
| | 2900 | 59 | | 2430 | 15.6 | 17.0 | 61 | | 4250 | 27.9 | 23.0 | 60 | | 5660 | 36.7 | 51.0 | 57 | | 8130 | 50.1 | 60.0 |
| | 1450 | 30 | 49.069 | 2860 | 9.14 | 28.0 | 30 | 47.929 | 4260 | 14 | 40.0 | 30 | 48.629 | 5660 | 18.4 | 64.0 | 28 | 51.273 | 8140 | 25.1 | 79.0 |
| 5 0 . | 960 | 20 | | 2860 | 6.05 | 28.0 | 20 | | 4260 | 9.25 | 40.0 | 20 | | 5660 | 12.2 | 64.0 | 19 | | 8140 | 16.6 | 79.0 |
| | 725 | 15 | | 2860 | 4.57 | 28.0 | 15 | | 4260 | 6.98 | 40.0 | 15 | | 5660 | 9.19 | 64.0 | 14 | | 8140 | 12.5 | 79.0 |
| | 2900 | 53 | | 2120 | 12.1 | 17.0 | 56 | | 3870 | 23.7 | 23.0 | 56 | | 6020 | 36.7 | 51.0 | 50 | | 8440 | 46.5 | 60.0 |
| | 1450 | 26 | 55.176 | 2000 | 5.71 | 28.0 | 28 | 51.494 | 3870 | 11.8 | 40.0 | 28 | 51.738 | 6030 | 18.4 | 64.0 | 25 | 57.515 | 8450 | 23.2 | 79.0 |
| 5 6 . | 960 | 17 | | 1940 | 3.67 | 28.0 | 19 | | 3870 | 7.84 | 40.0 | 19 | | 6030 | 12.2 | 64.0 | 17 | | 8450 | 15.4 | 79.0 |
| | 725 | 13 | | 1910 | 2.72 | 28.0 | 14 | | 3870 | 5.92 | 40.0 | 14 | | 6030 | 9.19 | 64.0 | 13 | | 8450 | 11.6 | 79.0 |
| | 2900 | 47 | | 2470 | 12.7 | 22.4 | 50 | | 4160 | 22.7 | 28.0 | 49 | | 6360 | 33.8 | 56.0 | 50 | | 9270 | 50.1 | 70.0 |
| | 1450 | 24 | 61.131 | 2470 | 6.35 | 28.0 | 25 | 57.75 | 4160 | 11.4 | 40.0 | 24 | 59.488 | 6460 | 17.2 | 64.0 | 25 | 58.569 | 9270 | 25.1 | 79.0 |
| 6 3 . | 960 | 16 | | 2470 | 4.21 | 28.0 | 17 | | 4160 | 7.52 | 40.0 | 16 | | 6460 | 11.4 | 64.0 | 16 | | 9280 | 16.6 | 79.0 |
| | 725 | 12 | | 2470 | 3.18 | 28.0 | 13 | | 4160 | 5.68 | 40.0 | 12 | | 6460 | 8.59 | 64.0 | 12 | | 9280 | 12.5 | 79.0 |
| | 2900 | 42 | | 2470 | 11.3 | 22.4 | 47 | | 4160 | 21.2 | 28.0 | 46 | | 6400 | 32 | 56.0 | 44 | | 9620 | 46.5 | 70.0 |
| | 1450 | 21 | 68.74 | 2470 | 5.66 | 28.0 | 23 | 62.045 | 4160 | 10.6 | 40.0 | 23 | 63.291 | 6460 | 16.1 | 64.0 | 22 | 65.7 | 9630 | 23.2 | 79.0 |
| 7 1 . | 960 | 14 | | 2420 | 3.67 | 28.0 | 15 | | 4160 | 7.02 | 40.0 | 15 | | 6460 | 10.7 | 64.0 | 15 | | 9630 | 15.4 | 79.0 |
| | 725 | 11 | | 2380 | 2.72 | 28.0 | 12 | | 4160 | 5.3 | 40.0 | 11 | | 6460 | 8.07 | 64.0 | 11 | | 9630 | 11.6 | 79.0 |

# TRIPLE REDUCTION RATINGS
# SIZES M01 - M04

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**TRIPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0132 | | | | | M0232 | | | | | M0332 | | | | | M0432 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 50 | | 90 | 0.5 | 1.50 | 51 | | 159 | 0.89 | 4.00 | 51 | | 209 | 1.17 | 2.80 | 50 | | 287 | 1.57 | 6.70 |
| | 1450 | 25 | 58.461 | 90 | 0.25 | 1.90 | 25 | 57.027 | 160 | 0.45 | 4.00 | 25 | 57.027 | 209 | 0.58 | 3.15 | 25 | 58.382 | 338 | 0.92 | 7.20 |
| 5 6 . | 960 | 16 | | 90 | 0.16 | 1.90 | 17 | | 160 | 0.3 | 4.00 | 17 | | 209 | 0.39 | 3.15 | 16 | | 338 | 0.61 | 7.20 |
| | 725 | 12 | | 90 | 0.12 | 1.90 | 13 | | 160 | 0.22 | 4.00 | 13 | | 209 | 0.29 | 3.15 | 12 | | 338 | 0.46 | 7.20 |
| | 2900 | 45 | | 90 | 0.45 | 1.50 | 46 | | 160 | 0.81 | 4.00 | 46 | | 209 | 1.06 | 2.90 | 45 | | 293 | 1.46 | 7.10 |
| | 1450 | 22 | 64.453 | 90 | 0.22 | 1.90 | 23 | 62.872 | 160 | 0.41 | 4.00 | 23 | 62.872 | 209 | 0.53 | 3.15 | 23 | 64.290 | 338 | 0.84 | 7.20 |
| 6 3 . | 960 | 15 | | 90 | 0.15 | 1.90 | 15 | | 160 | 0.27 | 4.00 | 15 | | 209 | 0.35 | 3.15 | 15 | | 338 | 0.55 | 7.20 |
| | 725 | 11 | | 90 | 0.11 | 1.90 | 12 | | 160 | 0.2 | 4.00 | 12 | | 209 | 0.26 | 3.15 | 11 | | 338 | 0.42 | 7.20 |
| | 2900 | 41 | | 90 | 0.41 | 1.60 | 42 | | 160 | 0.74 | 4.00 | 42 | | 209 | 0.97 | 3.00 | 39 | | 302 | 1.31 | 7.20 |
| | 1450 | 20 | 70.933 | 90 | 0.2 | 1.90 | 21 | 69.193 | 160 | 0.37 | 4.00 | 21 | 69.193 | 209 | 0.48 | 3.15 | 20 | 73.950 | 338 | 0.73 | 7.20 |
| 7 1 . | 960 | 14 | | 90 | 0.13 | 1.90 | 14 | | 160 | 0.24 | 4.00 | 14 | | 209 | 0.32 | 3.15 | 13 | | 338 | 0.48 | 7.20 |
| | 725 | 10 | | 90 | 0.1 | 1.90 | 10 | | 160 | 0.18 | 4.00 | 10 | | 209 | 0.24 | 3.15 | 9.8 | | 338 | 0.36 | 7.20 |
| | 2900 | 35 | | 90 | 0.35 | 1.70 | 36 | | 160 | 0.63 | 4.00 | 36 | | 209 | 0.82 | 3.10 | 36 | | 307 | 1.22 | 7.20 |
| | 1450 | 17 | 83.104 | 90 | 0.17 | 1.90 | 18 | 81.066 | 160 | 0.31 | 4.00 | 18 | 81.066 | 209 | 0.41 | 3.15 | 18 | 80.397 | 338 | 0.67 | 7.20 |
| 8 0 . | 960 | 12 | | 90 | 0.12 | 1.90 | 12 | | 160 | 0.21 | 4.00 | 12 | | 209 | 0.27 | 3.15 | 12 | | 338 | 0.44 | 7.20 |
| | 725 | 8.7 | | 90 | 0.09 | 1.90 | 8.9 | | 160 | 0.16 | 4.00 | 8.9 | | 209 | 0.2 | 3.15 | 9.0 | | 338 | 0.33 | 7.20 |
| | 2900 | 29 | | 90 | 0.29 | 1.90 | 30 | | 160 | 0.53 | 4.00 | 30 | | 209 | 0.69 | 3.15 | 30 | | 324 | 1.07 | 7.20 |
| | 1450 | 15 | 99.702 | 90 | 0.14 | 1.90 | 15 | 97.257 | 160 | 0.26 | 4.00 | 15 | 97.257 | 209 | 0.34 | 3.15 | 15 | 96.516 | 338 | 0.56 | 7.20 |
| 1 0 0 | 960 | 9.6 | | 90 | 0.1 | 1.90 | 9.9 | | 160 | 0.17 | 4.00 | 9.9 | | 209 | 0.23 | 3.15 | 9.9 | | 338 | 0.37 | 7.20 |
| | 725 | 7.3 | | 90 | 0.07 | 1.90 | 7.5 | | 160 | 0.13 | 4.00 | 7.5 | | 209 | 0.17 | 3.15 | 7.5 | | 338 | 0.28 | 7.20 |
| | 2900 | 25 | | 90 | 0.25 | 1.90 | 26 | | 160 | 0.45 | 4.00 | 26 | | 209 | 0.59 | 3.15 | 25 | | 338 | 0.93 | 7.20 |
| | 1450 | 12 | 116.22 | 90 | 0.12 | 1.90 | 13 | 113.37 | 160 | 0.23 | 4.00 | 13 | 113.37 | 209 | 0.29 | 3.15 | 13 | 115.819 | 338 | 0.47 | 7.20 |
| 1 1 2 | 960 | 8.3 | | 90 | 0.08 | 1.90 | 8.5 | | 160 | 0.15 | 4.00 | 8.5 | | 209 | 0.19 | 3.15 | 8.3 | | 338 | 0.31 | 7.20 |
| | 725 | 6.2 | | 90 | 0.06 | 1.90 | 6.4 | | 160 | 0.11 | 4.00 | 6.4 | | 209 | 0.15 | 3.15 | 6.3 | | 338 | 0.23 | 7.20 |
| | 2900 | 22 | | 90 | 0.22 | 1.90 | 23 | | 160 | 0.41 | 4.00 | 23 | | 209 | 0.53 | 3.15 | 22 | | 338 | 0.83 | 7.20 |
| | 1450 | 11 | 129.134 | 90 | 0.11 | 1.90 | 12 | 125.967 | 160 | 0.2 | 4.00 | 12 | 125.967 | 209 | 0.27 | 3.15 | 11 | 130.500 | 338 | 0.41 | 7.20 |
| 1 2 5 | 960 | 7.4 | | 90 | 0.07 | 1.90 | 7.6 | | 160 | 0.14 | 4.00 | 7.6 | | 209 | 0.18 | 3.15 | 7.4 | | 338 | 0.27 | 7.20 |
| | 725 | 5.6 | | 90 | 0.06 | 1.90 | 5.6 | | 160 | 0.1 | 4.00 | 5.6 | | 209 | 0.13 | 3.15 | 5.6 | | 338 | 0.21 | 7.20 |
| | 2900 | 19 | | 90 | 0.19 | 1.90 | 19 | | 160 | 0.34 | 4.00 | 19 | | 209 | 0.44 | 3.15 | 19 | | 338 | 0.71 | 7.20 |
| | 1450 | 9.3 | 155.506 | 90 | 0.09 | 1.90 | 9.6 | 151.692 | 160 | 0.17 | 4.00 | 10 | 151.692 | 209 | 0.22 | 3.15 | 9.6 | 151.706 | 338 | 0.36 | 7.20 |
| 1 6 0 | 960 | 6.2 | | 90 | 0.06 | 1.90 | 6.3 | | 160 | 0.11 | 4.00 | 6.3 | | 209 | 0.15 | 3.15 | 6.3 | | 338 | 0.23 | 7.20 |
| | 725 | 4.7 | | 90 | 0.05 | 1.90 | 4.8 | | 160 | 0.08 | 4.00 | 4.8 | | 209 | 0.11 | 3.15 | 4.8 | | 338 | 0.18 | 7.20 |
| | 2900 | 16 | | 90 | 0.16 | 1.90 | 17 | | 160 | 0.29 | 4.00 | 17 | | 209 | 0.39 | 3.15 | 17 | | 338 | 0.63 | 7.20 |
| | 1450 | 8.1 | 178.241 | 90 | 0.08 | 1.90 | 8.3 | 173.87 | 160 | 0.15 | 4.00 | 8.3 | 173.87 | 209 | 0.19 | 3.15 | 8.4 | 172.188 | 338 | 0.31 | 7.20 |
| 1 8 0 | 960 | 5.4 | | 90 | 0.05 | 1.90 | 5.5 | | 160 | 0.1 | 4.00 | 5.5 | | 209 | 0.13 | 3.15 | 5.6 | | 338 | 0.21 | 7.20 |
| | 725 | 4.1 | | 90 | 0.04 | 1.90 | 4.2 | | 160 | 0.07 | 4.00 | 4.2 | | 209 | 0.1 | 3.15 | 4.2 | | 338 | 0.16 | 7.20 |
| | 2900 | 14 | | 90 | 0.14 | 1.90 | 15 | | 160 | 0.26 | 4.00 | 15 | | 209 | 0.34 | 3.15 | 15 | | 338 | 0.55 | 7.20 |
| | 1450 | 7.2 | 202.567 | 90 | 0.07 | 1.90 | 7.3 | 197.599 | 160 | 0.13 | 4.00 | 7.3 | 197.599 | 209 | 0.17 | 3.15 | 7.7 | 195.75 | 338 | 0.28 | 7.20 |
| 2 0 0 | 960 | 4.7 | | 90 | 0.05 | 1.90 | 4.9 | | 160 | 0.09 | 4.00 | 4.9 | | 209 | 0.11 | 3.15 | 4.9 | | 338 | 0.18 | 7.20 |
| | 725 | 3.6 | | 90 | 0.04 | 1.90 | 3.7 | | 160 | 0.06 | 4.00 | 3.7 | | 209 | 0.09 | 3.15 | 3.7 | | 338 | 0.14 | 7.20 |

# TRIPLE REDUCTION RATINGS
# SIZES M05 - M08

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**TRIPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0532 | | | | | M0632 | | | | | M0732 | | | | | M0832 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 50 | | 443 | 2.42 | 4.20 | | | | | | 49 | | 640 | 3.47 | 4.50 | 48 | | 1300 | 6.94 | 9.25 |
| | 1450 | 25 | 58.382 | 450 | 1.22 | 7.20 | | | | | | 25 | 58.950 | 754 | 2.03 | 8.10 | 24 | 60.330 | 1600 | 4.23 | 16.20 |
| 5 6 . | 960 | 16 | | 450 | 0.81 | 7.20 | | | | | | 16 | | 865 | 1.54 | 9.20 | 16 | | 1700 | 2.96 | 16.20 |
| | 725 | 12 | | 450 | 0.61 | 7.20 | | | | | | 12 | | 868 | 1.17 | 9.20 | 12 | | 1700 | 2.23 | 16.20 |
| | 2900 | 45 | | 431 | 2.14 | 4.50 | 40 | | 549 | 2.42 | 7.20 | 46 | | 649 | 3.3 | 4.65 | 44 | | 1340 | 6.5 | 9.50 |
| | 1450 | 23 | 64.290 | 450 | 1.11 | 7.20 | 20 | 72.282 | 626 | 1.38 | 7.20 | 23 | 62.834 | 770 | 1.95 | 9.20 | 22 | 66.02 | 1650 | 3.97 | 16.20 |
| 6 3 . | 960 | 15 | | 450 | 0.74 | 7.20 | 13 | | 626 | 0.91 | 7.20 | 15 | | 868 | 1.45 | 9.20 | 15 | | 1700 | 2.71 | 16.20 |
| | 725 | 11 | | 450 | 0.56 | 7.20 | 10 | | 626 | 0.69 | 7.20 | 12 | | 868 | 1.09 | 9.20 | 11 | | 1700 | 2.04 | 16.20 |
| | 2900 | 39 | | 443 | 1.91 | 5.00 | 36 | | 534 | 2.14 | 7.20 | 39 | | 673 | 2.88 | 5.10 | 39 | | 1390 | 5.96 | 10.00 |
| | 1450 | 20 | 73.950 | 450 | 0.97 | 7.20 | 18 | 79.598 | 623 | 1.24 | 7.20 | 19 | 74.467 | 815 | 1.74 | 9.20 | 19 | 74.691 | 1700 | 3.62 | 16.20 |
| 7 1 . | 960 | 13 | | 450 | 0.64 | 7.20 | 12 | | 626 | 0.82 | 7.20 | 13 | | 868 | 1.22 | 9.20 | 13 | | 1700 | 2.39 | 16.20 |
| | 725 | 10 | | 450 | 0.48 | 7.20 | 9.1 | | 626 | 0.62 | 7.20 | 10 | | 868 | 0.92 | 9.20 | 10 | | 1700 | 1.8 | 16.20 |
| | 2900 | 36 | | 450 | 1.78 | 5.60 | 32 | | 549 | 1.91 | 7.20 | 36 | | 682 | 2.74 | 6.30 | 34 | | 1440 | 5.47 | 12.30 |
| | 1450 | 18 | 80.397 | 450 | 0.89 | 7.20 | 16 | 91.557 | 626 | 1.09 | 7.20 | 18 | 79.507 | 833 | 1.67 | 9.20 | 17 | 84.31 | 1700 | 3.21 | 16.20 |
| 8 0 . | 960 | 12 | | 450 | 0.59 | 7.20 | 10.4 | | 626 | 0.72 | 7.20 | 12 | | 868 | 1.15 | 9.20 | 11 | | 1700 | 2.12 | 16.20 |
| | 725 | 9.0 | | 450 | 0.44 | 7.20 | 7.8 | | 626 | 0.54 | 7.20 | 9 | | 868 | 0.87 | 9.20 | 9 | | 1700 | 1.6 | 16.20 |
| | 2900 | 30 | | 450 | 1.49 | 6.30 | 29 | | 558 | 1.79 | 7.20 | 29 | | 714 | 2.31 | 7.40 | 28 | | 1520 | 4.78 | 14.00 |
| | 1450 | 15 | 96.516 | 450 | 0.74 | 7.20 | 15 | 99.54 | 626 | 1 | 7.20 | 15 | 98.661 | 868 | 1.4 | 9.20 | 14 | 102.204 | 1700 | 2.65 | 16.20 |
| 1 0 0 | 960 | 9.9 | | 450 | 0.49 | 7.20 | 9.6 | | 626 | 0.66 | 7.20 | 10 | | 868 | 0.93 | 9.20 | 9 | | 1700 | 1.75 | 16.20 |
| | 725 | 7.5 | | 450 | 0.37 | 7.20 | 7.3 | | 626 | 0.5 | 7.20 | 7 | | 868 | 0.7 | 9.20 | 7 | | 1700 | 1.32 | 16.20 |
| | 2900 | 25 | | 450 | 1.24 | 7.20 | 24 | | 585 | 1.56 | 7.20 | 25 | | 751 | 2.06 | 9.20 | 24 | | 1600 | 4.29 | 16.20 |
| | 1450 | 13 | 115.819 | 450 | 0.62 | 7.20 | 12 | 119.496 | 626 | 0.83 | 7.20 | 12 | 116.342 | 868 | 1.19 | 9.20 | 12 | 119.188 | 1700 | 2.27 | 16.20 |
| 1 1 2 | 960 | 8.3 | | 450 | 0.41 | 7.20 | 8.0 | | 626 | 0.55 | 7.20 | 8 | | 868 | 0.79 | 9.20 | 8 | | 1700 | 1.5 | 16.20 |
| | 725 | 6.3 | | 450 | 0.31 | 7.20 | 6.1 | | 626 | 0.42 | 7.20 | 6 | | 874 | 0.6 | 9.20 | 6 | | 1700 | 1.13 | 16.20 |
| | 2900 | 22 | | 450 | 1.1 | 7.20 | 20 | | 613 | 1.37 | 7.20 | 23 | | 774 | 1.94 | 9.20 | 22 | | 1640 | 4.02 | 16.20 |
| | 1450 | 11 | 130.500 | 450 | 0.55 | 7.20 | 10.1 | 143.395 | 626 | 0.7 | 7.20 | 11 | 127.392 | 868 | 1.09 | 9.20 | 11 | 130.924 | 1700 | 2.07 | 16.20 |
| 1 2 5 | 960 | 7.4 | | 450 | 0.36 | 7.20 | 6.7 | | 626 | 0.46 | 7.20 | 8 | | 868 | 0.72 | 9.20 | 7 | | 1700 | 1.37 | 16.20 |
| | 725 | 5.6 | | 450 | 0.28 | 7.20 | 5.1 | | 626 | 0.35 | 7.20 | 6 | | 883 | 0.55 | 9.20 | 6 | | 1700 | 1.03 | 16.20 |
| | 2900 | 19 | | 450 | 0.95 | 7.20 | 18 | | 626 | 1.24 | 7.20 | 19 | | 828 | 1.7 | 9.20 | 18 | | 1700 | 3.39 | 16.20 |
| | 1450 | 9.9 | 151.706 | 450 | 0.47 | 7.20 | 9.0 | 161.571 | 626 | 0.62 | 7.20 | 9 | 156.123 | 868 | 0.89 | 9.20 | 9 | 160.446 | 1700 | 1.69 | 16.20 |
| 1 6 0 | 960 | 6.3 | | 450 | 0.31 | 7.20 | 5.9 | | 626 | 0.41 | 7.20 | 6 | | 875 | 0.59 | 9.20 | 6 | | 1700 | 1.12 | 16.20 |
| | 725 | 4.8 | | 450 | 0.24 | 7.20 | 4.5 | | 626 | 0.31 | 7.20 | 5 | | 888 | 0.45 | 9.20 | 5 | | 1720 | 0.85 | 16.20 |
| | 2900 | 17 | | 450 | 0.83 | 7.20 | 15 | | 626 | 1.06 | 7.20 | 17 | | 858 | 1.58 | 9.20 | 17 | | 1700 | 3.1 | 16.20 |
| | 1450 | 8.4 | 172.188 | 450 | 0.42 | 7.20 | 7.7 | 187.827 | 626 | 0.53 | 7.20 | 8 | 174.012 | 868 | 0.8 | 9.20 | 8 | 175.207 | 1700 | 1.55 | 16.20 |
| 1 8 0 | 960 | 5.6 | | 450 | 0.28 | 7.20 | 5.1 | | 626 | 0.35 | 7.20 | 6 | | 886 | 0.54 | 9.20 | 5 | | 1700 | 1.02 | 16.20 |
| | 725 | 4.2 | | 450 | 0.21 | 7.20 | 3.9 | | 626 | 0.26 | 7.20 | 4 | | 888 | 0.41 | 9.20 | 4 | | 1730 | 0.79 | 16.20 |
| | 2900 | 15 | | 450 | 0.74 | 7.20 | 14 | | 626 | 0.94 | 7.20 | 15 | | 868 | 1.43 | 9.20 | 14 | | 1700 | 2.7 | 16.20 |
| | 1450 | 7.4 | 195.75 | 450 | 0.37 | 7.20 | 6.8 | 213.185 | 626 | 0.47 | 7.20 | 7 | 195.154 | 868 | 0.71 | 9.20 | 7 | 201.754 | 1700 | 1.35 | 16.20 |
| 2 0 0 | 960 | 4.9 | | 450 | 0.24 | 7.20 | 4.5 | | 626 | 0.31 | 7.20 | 5 | | 888 | 0.48 | 9.20 | 5 | | 1710 | 0.9 | 16.20 |
| | 725 | 3.7 | | 450 | 0.18 | 7.20 | 3.4 | | 626 | 0.23 | 7.20 | 4 | | 888 | 0.36 | 9.20 | 4 | | 1750 | 0.69 | 16.20 |
| | 2900 | | | | | | 12 | | 626 | 0.83 | 7.20 | | | | | | | | | | |
| | 1450 | | | | | | 6.0 | 242.36 | 626 | 0.41 | 7.20 | | | | | | | | | | |
| 2 2 5 | 960 | | | | | | 4.0 | | 626 | 0.27 | 7.20 | | | | | | | | | | |
| | 725 | | | | | | 3.0 | | 626 | 0.21 | 7.20 | | | | | | | | | | |

# TRIPLE REDUCTION RATINGS
# SIZES M09 - M14

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**TRIPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0931 | | | | | M1031 | | | | | M1331 | | | | | M1431 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | | | | | | | | | | | 73 | | 4380 | 35 | 45.0 | 70 | | 7520 | 58.1 | 52.0 |
| | 1450 | | | | | | | | | | | 36 | 39.93 | 5530 | 21.9 | 60.0 | 35 | 41.36 | 9740 | 37.5 | 79.0 |
| 4 0 . | 960 | | | | | | | | | | | 24 | | 5940 | 15.6 | 64.0 | 23 | | 10500 | 26.6 | 79.0 |
| | 725 | | | | | | | | | | | 18 | | 6200 | 12.3 | 64.0 | 18 | | 11100 | 21.3 | 79.0 |
| | 2900 | | | | | | | | | | | 66 | | 5360 | 38.9 | 45.0 | 60 | | 9430 | 62.7 | 52.0 |
| | 1450 | | | | | | | | | | | 33 | 44.18 | 6170 | 22.2 | 60.0 | 30 | 48.21 | 11000 | 36.4 | 79.0 |
| 4 5 . | 960 | | | | | | | | | | | 22 | | 6350 | 15.1 | 64.0 | 20 | | 11000 | 24.1 | 79.0 |
| | 725 | | | | | | | | | | | 16 | | 6350 | 11.4 | 64.0 | 15 | | 11000 | 18.2 | 79.0 |
| | 2900 | | | | | | | | | | | 58 | | 5460 | 35 | 51.0 | 53 | | 9930 | 58.1 | 60.0 |
| | 1450 | | | | | | | | | | | 29 | 50.02 | 6310 | 20.1 | 64.0 | 26 | 54.75 | 11000 | 32.1 | 79.0 |
| 5 0 . | 960 | | | | | | | | | | | 19 | | 6350 | 13.4 | 64.0 | 18 | | 11000 | 21.2 | 79.0 |
| | 725 | | | | | | | | | | | 14 | | 6350 | 10.1 | 64.0 | 13 | | 11000 | 16 | 79.0 |
| | 2900 | 48 | | 2100 | 11.2 | 17.0 | 48 | | 3380 | 17.9 | 23.0 | 51 | | 5270 | 29.6 | 51.0 | 49 | | 8680 | 46.7 | 60.0 |
| | 1450 | 24 | 59.846 | 2590 | 6.84 | 28.0 | 24 | 60.229 | 3770 | 9.94 | 40.0 | 25 | 56.932 | 6190 | 17.3 | 64.0 | 24 | 59.456 | 10500 | 28.1 | 79.0 |
| 5 6 . | 960 | 16 | | 2640 | 4.62 | 28.0 | 16 | | 3770 | 6.57 | 40.0 | 17 | | 6200 | 11.4 | 64.0 | 16 | | 11100 | 19.7 | 79.0 |
| | 725 | 12 | | 2640 | 3.49 | 28.0 | 12 | | 3770 | 4.95 | 40.0 | 13 | | 6200 | 8.63 | 64.0 | 12 | | 11100 | 14.8 | 79.0 |
| | 2900 | 44 | | 2170 | 10.4 | 22.4 | 43 | | 3490 | 16.6 | 28.0 | 45 | | 5380 | 26.8 | 56.0 | 44 | | 9020 | 44 | 70.0 |
| | 1450 | 22 | 66.489 | 2640 | 6.29 | 28.0 | 22 | 66.928 | 3770 | 8.95 | 40.0 | 23 | 64.174 | 6200 | 15.3 | 64.0 | 22 | 65.549 | 10700 | 26 | 79.0 |
| 6 3 . | 960 | 14 | | 2640 | 4.16 | 28.0 | 14 | | 3770 | 5.91 | 40.0 | 15 | | 6200 | 10.1 | 64.0 | 15 | | 11100 | 17.8 | 79.0 |
| | 725 | 11 | | 2640 | 3.14 | 28.0 | 11 | | 3770 | 4.46 | 40.0 | 11 | | 6200 | 7.66 | 64.0 | 11 | | 11100 | 13.5 | 79.0 |
| | 2900 | 39 | | 2350 | 10.1 | 22.4 | 41 | | 3640 | 16.4 | 28.0 | 41 | | 5920 | 26.6 | 56.0 | 37 | | 11000 | 44.8 | 70.0 |
| | 1450 | 20 | 74.265 | 2860 | 6.1 | 28.0 | 20 | 71.167 | 4410 | 9.85 | 40.0 | 20 | 71.321 | 6350 | 14.2 | 64.0 | 18 | 78.698 | 11000 | 22.3 | 79.0 |
| 7 1 . | 960 | 13 | | 2860 | 4.03 | 28.0 | 13 | | 4410 | 6.51 | 40.0 | 13 | | 6350 | 9.39 | 64.0 | 12 | | 11000 | 14.8 | 79.0 |
| | 725 | 10 | | 2860 | 3.04 | 28.0 | 10 | | 4410 | 4.91 | 40.0 | 10 | | 6350 | 7.09 | 64.0 | 9 | | 11000 | 11.1 | 79.0 |
| | 2900 | 35 | | 2420 | 9.38 | 26.2 | 37 | | 3760 | 15.2 | 34.0 | 36 | | 6060 | 24.1 | 60.0 | 33 | | 11000 | 40.7 | 79.0 |
| | 1450 | 18 | 82.508 | 2860 | 5.49 | 28.0 | 18 | 79.082 | 4410 | 8.87 | 40.0 | 18 | 80.394 | 6350 | 12.6 | 64.0 | 17 | 86.763 | 11000 | 20.3 | 79.0 |
| 8 0 . | 960 | 12 | | 2860 | 3.63 | 28.0 | 12 | | 4410 | 5.86 | 40.0 | 12 | | 6350 | 8.33 | 64.0 | 11 | | 11000 | 13.4 | 79.0 |
| | 725 | 9 | | 2860 | 2.74 | 28.0 | 9 | | 4410 | 4.42 | 40.0 | 9 | | 6350 | 6.29 | 64.0 | 8 | | 11000 | 10.1 | 79.0 |
| | 2900 | 31 | | 2400 | 8.15 | 26.2 | 30 | | 3770 | 12.6 | 34.0 | 32 | | 5930 | 20.9 | 60.0 | 31 | | 10100 | 34.4 | 79.0 |
| | 1450 | 15 | 93.918 | 2640 | 4.46 | 28.0 | 15 | 95.441 | 3770 | 6.27 | 40.0 | 16 | 90.751 | 6200 | 10.9 | 64.0 | 15 | 94.354 | 11100 | 18.8 | 79.0 |
| 9 0 . | 960 | 10 | | 2640 | 2.95 | 28.0 | 10 | | 3770 | 4.15 | 40.0 | 11 | | 6200 | 7.21 | 64.0 | 10 | | 11100 | 12.4 | 79.0 |
| | 725 | 8 | | 2640 | 2.23 | 28.0 | 8 | | 3770 | 3.13 | 40.0 | 8 | | 6200 | 5.44 | 64.0 | 8 | | 11100 | 9.39 | 79.0 |
| | 2900 | 28 | | 2480 | 7.6 | 28.0 | 26 | | 3770 | 10.9 | 40.0 | 29 | | 6050 | 19.2 | 64.0 | 28 | | 10300 | 32.2 | 79.0 |
| | 1450 | 14 | 103.683 | 2640 | 4.04 | 28.0 | 13 | 109.969 | 3770 | 5.45 | 40.0 | 14 | 101.074 | 6200 | 9.79 | 64.0 | 14 | 102.226 | 11100 | 17.3 | 79.0 |
| 1 0 0 | 960 | 9 | | 2640 | 2.67 | 28.0 | 9 | | 3770 | 3.6 | 40.0 | 9 | | 6200 | 6.48 | 64.0 | 9 | | 11100 | 11.5 | 79.0 |
| | 725 | 7 | | 2640 | 2.02 | 28.0 | 7 | | 3770 | 2.72 | 40.0 | 7 | | 6200 | 4.89 | 64.0 | 7 | | 11100 | 8.66 | 79.0 |
| | 2900 | 25 | | 2690 | 7.36 | 28.0 | 26 | | 4180 | 11.8 | 40.0 | 26 | | 6350 | 18 | 64.0 | 23 | | 11000 | 28.3 | 79.0 |
| | 1450 | 12 | 116.546 | 2860 | 3.89 | 28.0 | 13 | 112.773 | 4410 | 6.22 | 40.0 | 13 | 113.688 | 6350 | 8.95 | 64.0 | 12 | 124.89 | 11000 | 14.1 | 79.0 |
| 1 1 2 | 960 | 8 | | 2860 | 2.57 | 28.0 | 9 | | 4410 | 4.11 | 40.0 | 8 | | 6350 | 5.92 | 64.0 | 8 | | 11000 | 9.34 | 79.0 |
| | 725 | 6 | | 2860 | 1.94 | 28.0 | 6 | | 4410 | 3.1 | 40.0 | 6 | | 6350 | 4.47 | 64.0 | 6 | | 11000 | 7.05 | 79.0 |
| | 2900 | 23 | | 2770 | 6.86 | 28.0 | 22 | | 4360 | 10.7 | 40.0 | 23 | | 6350 | 16.1 | 64.0 | 21 | | 11000 | 26.1 | 79.0 |
| | 1450 | 11 | 128.664 | 2860 | 3.52 | 28.0 | 11 | 129.94 | 4410 | 5.4 | 40.0 | 11 | 126.62 | 6350 | 8.04 | 64.0 | 11 | 135.311 | 11000 | 13 | 79.0 |
| 1 2 5 | 960 | 7 | | 2860 | 2.33 | 28.0 | 7 | | 4410 | 3.57 | 40.0 | 8 | | 6350 | 5.32 | 64.0 | 7 | | 11000 | 8.61 | 79.0 |
| | 725 | 6 | | 2860 | 1.76 | 28.0 | 6 | | 4410 | 2.7 | 40.0 | 6 | | 6350 | 4.02 | 64.0 | 5 | | 11000 | 6.5 | 79.0 |
| | 2900 | 20 | | 2470 | 5.46 | 28.0 | 21 | | 4160 | 9.82 | 40.0 | 21 | | 6460 | 15 | 64.0 | 20 | | 10100 | 22.9 | 79.0 |
| | 1450 | 10 | 145.196 | 2470 | 2.71 | 28.0 | 11 | 135.882 | 4160 | 4.89 | 40.0 | 10 | 139.073 | 6460 | 7.47 | 64.0 | 10 | 142.663 | 10100 | 11.4 | 79.0 |
| 1 4 0 | 960 | 7 | | 2470 | 1.79 | 28.0 | 7 | | 4170 | 3.23 | 40.0 | 7 | | 6460 | 4.94 | 64.0 | 7 | | 10100 | 7.54 | 79.0 |
| | 725 | 5 | | 2470 | 1.35 | 28.0 | 5 | | 4170 | 2.44 | 40.0 | 5 | | 6460 | 3.73 | 64.0 | 5 | | 10100 | 5.69 | 79.0 |
| | 2900 | 18 | | 2470 | 4.94 | 28.0 | 19 | | 4160 | 8.53 | 40.0 | 19 | | 6460 | 13.5 | 64.0 | 19 | | 10100 | 21.1 | 79.0 |
| | 1450 | 9 | 160.292 | 2470 | 2.46 | 28.0 | 9 | 156.567 | 4170 | 4.25 | 40.0 | 9 | 154.892 | 6460 | 6.71 | 64.0 | 9 | 154.566 | 10100 | 10.5 | 79.0 |
| 1 6 0 | 960 | 6 | | 2470 | 1.62 | 28.0 | 6 | | 4170 | 2.81 | 40.0 | 6 | | 6460 | 4.44 | 64.0 | 6 | | 10100 | 6.95 | 79.0 |
| | 725 | 5 | | 2480 | 1.23 | 28.0 | 5 | | 4200 | 2.13 | 40.0 | 5 | | 6460 | 3.35 | 64.0 | 5 | | 10100 | 5.25 | 79.0 |
| | 2900 | 16 | | 2860 | 5.15 | 28.0 | 17 | | 4410 | 8.03 | 40.0 | 17 | | 6350 | 11.7 | 64.0 | 16 | | 11000 | 19 | 79.0 |
| | 1450 | 8 | 176.998 | 2860 | 2.57 | 28.0 | 8 | 175.738 | 4410 | 4 | 40.0 | 8 | 173.374 | 6350 | 5.86 | 64.0 | 8 | 185.558 | 11000 | 9.49 | 79.0 |
| 1 8 0 | 960 | 5 | | 2860 | 1.7 | 28.0 | 5 | | 4410 | 2.65 | 40.0 | 6 | | 6350 | 3.88 | 64.0 | 5 | | 11000 | 6.28 | 79.0 |
| | 725 | 4 | | 2860 | 1.28 | 28.0 | 4 | | 4410 | 2 | 40.0 | 4 | | 6350 | 2.93 | 64.0 | 4 | | 11000 | 4.74 | 79.0 |
| | 2900 | 15 | | 2860 | 4.59 | 28.0 | 15 | | 4410 | 7.48 | 40.0 | 16 | | 6350 | 11 | 64.0 | 14 | | 11000 | 17 | 79.0 |
| | 1450 | 7 | 199.029 | 2860 | 2.29 | 28.0 | 8 | 188.81 | 4410 | 3.73 | 40.0 | 8 | 184.459 | 6350 | 5.5 | 64.0 | 7 | 208.15 | 11000 | 8.48 | 79.0 |
| 2 0 0 | 960 | 5 | | 2860 | 1.51 | 28.0 | 5 | | 4410 | 2.47 | 40.0 | 5 | | 6350 | 3.64 | 64.0 | 5 | | 11000 | 5.61 | 79.0 |
| | 725 | 4 | | 2860 | 1.14 | 28.0 | 4 | | 4410 | 1.86 | 40.0 | 4 | | 6350 | 2.75 | 64.0 | 3 | | 11000 | 4.23 | 79.0 |
| | 2900 | 13 | | 2470 | 3.59 | 28.0 | 14 | | 4160 | 6.31 | 40.0 | 14 | | 6460 | 9.8 | 64.0 | 14 | | 10100 | 15.4 | 79.0 |
| | 1450 | 7 | 220.508 | 2470 | 1.79 | 28.0 | 7 | 211.75 | 4170 | 3.15 | 40.0 | 7 | 212.086 | 6460 | 4.89 | 64.0 | 7 | 211.965 | 10100 | 7.66 | 79.0 |
| 2 2 5 | 960 | 4 | | 2480 | 1.19 | 28.0 | 5 | | 4210 | 2.1 | 40.0 | 5 | | 6460 | 3.23 | 64.0 | 5 | | 10100 | 5.07 | 79.0 |
| | 725 | 3 | | 2480 | 0.89 | 28.0 | 3 | | 4270 | 1.61 | 40.0 | 3 | | 6460 | 2.44 | 64.0 | 3 | | 10100 | 3.83 | 79.0 |
| | 2900 | 12 | | 2470 | 3.2 | 28.0 | 13 | | 4160 | 5.88 | 40.0 | 13 | | 6460 | 9.21 | 64.0 | 12 | | 10100 | 13.7 | 79.0 |
| | 1450 | 6 | 247.956 | 2470 | 1.59 | 28.0 | 6 | 227.5 | 4170 | 2.93 | 40.0 | 6 | 225.646 | 6460 | 4.59 | 64.0 | 6 | 237.771 | 10100 | 6.84 | 79.0 |
| 2 5 0 | 960 | 4 | | 2480 | 1.06 | 28.0 | 4 | | 4240 | 1.97 | 40.0 | 4 | | 6460 | 3.04 | 64.0 | 4 | | 10100 | 4.53 | 79.0 |
| | 725 | 3 | | 2480 | 0.8 | 28.0 | 3 | | 4270 | 1.5 | 40.0 | 3 | | 6460 | 2.29 | 64.0 | 3 | | 10100 | 3.42 | 79.0 |

# QUADRUPLE REDUCTION RATINGS
# SIZES M03 - M07

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**QUADRUPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0342 | | | | | M0442 | | | | | M0542 | | | | | M0642 | | | | | M0742 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 12.34 | | 210 | 0.29 | 3.15 | 12.46 | | 340 | 0.467 | 7.2 | 12.46 | | 450 | 0.62 | 7.2 | | | | | 7.2 | | 12.66 | 865 | 1.21 | 9.2 |
| | 1450 | 6.171 | 235 | 210 | 0.143 | 3.15 | 6.228 | 232.8 | 340 | 0.233 | 7.2 | 6.228 | 232.8 | 450 | 0.309 | 7.2 | | | | | 7.2 | 6.332 | 229 | 865 | 0.604 | 9.2 |
| 2 2 5 | 960 | 4.086 | | 210 | 0.095 | 3.15 | 4.124 | | 340 | 0.155 | 7.2 | 4.124 | | 450 | 0.205 | 7.2 | | | | | 7.2 | 4.192 | | 865 | 0.4 | 9.2 |
| | 725 | 3.064 | | 210 | 0.071 | 3.15 | 3.093 | | 340 | 0.116 | 7.2 | 3.093 | | 450 | 0.15 | 7.2 | | | | | 7.2 | 3.144 | | 865 | 0.30 | 9.2 |
| | 2900 | 11.10 | | 210 | 0.26 | 3.15 | 11.13 | | 340 | 0.417 | 7.2 | 11.13 | | 450 | 0.55 | 7.2 | | | | | 7.2 | 11.17 | | 865 | 0.53 | 9.2 |
| | 1450 | 5.548 | 261.4 | 210 | 0.128 | 3.15 | 5.567 | 260.5 | 340 | 0.209 | 7.2 | 5.567 | 260.5 | 450 | 0.276 | 7.2 | | | | | 7.2 | 5.584 | 259.7 | 865 | 0.532 | 9.2 |
| 2 5 0 | 960 | 3.673 | | 210 | 0.085 | 3.15 | 3.686 | | 340 | 0.138 | 7.2 | 3.686 | | 450 | 0.183 | 7.2 | | | | | 7.2 | 3.697 | | 865 | 0.532 | 9.2 |
| | 725 | 2.755 | | 210 | 0.064 | 3.15 | 2.764 | | 340 | 0.104 | 7.2 | 2.764 | | 450 | 0.14 | 7.2 | | | | | 7.2 | 2.773 | | 865 | 0.53 | 9.2 |
| | 2900 | 10.08 | | 210 | 0.23 | 3.15 | 10.45 | | 340 | 0.391 | 7.2 | 10.45 | | 450 | 0.52 | 7.2 | 10.63 | | 620 | 0.73 | 7.2 | 10.12 | | 865 | 0.97 | 9.2 |
| | 1450 | 5.038 | 287.8 | 210 | 0.117 | 3.15 | 5.223 | 277.6 | 340 | 0.196 | 7.2 | 5.223 | 277.6 | 450 | 0.259 | 7.2 | 5.313 | 272.9 | 620 | 0.363 | 7.2 | 5.062 | 286.4 | 865 | 0.483 | 9.2 |
| 2 8 0 | 960 | 3.335 | | 210 | 0.077 | 3.15 | 3.458 | | 340 | 0.13 | 7.2 | 3.458 | | 450 | 0.172 | 7.2 | 3.518 | | 620 | 0.24 | 7.2 | 3.352 | | 865 | 0.32 | 9.2 |
| | 725 | 2.501 | | 210 | 0.058 | 3.15 | 2.593 | | 340 | 0.097 | 7.2 | 2.593 | | 450 | 0.13 | 7.2 | 2.638 | | 620 | 0.18 | 7.2 | 2.514 | | 865 | 0.24 | 9.2 |
| | 2900 | 9.14 | | 210 | 0.212 | 3.15 | 9.486 | | 340 | 0.355 | 7.2 | 9.486 | | 450 | 0.47 | 7.2 | 9.238 | | 620 | 0.63 | 7.2 | 9.194 | | 865 | 0.88 | 9.2 |
| | 1450 | 4.569 | 317.3 | 210 | 0.106 | 3.15 | 4.743 | 305.7 | 340 | 0.178 | 7.2 | 4.743 | 305.7 | 450 | 0.235 | 7.2 | 4.619 | 313.9 | 620 | 0.316 | 7.2 | 4.597 | 315.4 | 865 | 0.438 | 9.2 |
| 3 0 0 | 960 | 3.025 | | 210 | 0.07 | 3.15 | 3.14 | | 340 | 0.118 | 7.2 | 3.140 | | 450 | 0.156 | 7.2 | 3.058 | | 620 | 0.209 | 7.2 | 3.044 | | 865 | 0.29 | 9.2 |
| | 725 | 2.269 | | 210 | 0.053 | 3.15 | 2.355 | | 340 | 0.088 | 7.2 | 2.355 | | 450 | 0.12 | 7.2 | 2.294 | | 620 | 0.16 | 7.2 | 2.283 | | 865 | 0.22 | 9.2 |
| | 2900 | 7.94 | | 210 | 0.184 | 3.15 | 8.004 | | 340 | 0.3 | 7.2 | 8.004 | | 450 | 0.40 | 7.2 | 7.943 | | 620 | 0.54 | 7.2 | 8.028 | | 865 | 0.77 | 9.2 |
| | 1450 | 3.972 | 365 | 210 | 0.092 | 3.15 | 4.002 | 362.3 | 340 | 0.15 | 7.2 | 4.002 | 362.3 | 450 | 0.199 | 7.2 | 3.971 | 365.1 | 620 | 0.271 | 7.2 | 4.014 | 361.2 | 865 | 0.383 | 9.2 |
| 3 6 0 | 960 | 2.630 | | 210 | 0.061 | 3.15 | 2.65 | | 340 | 0.099 | 7.2 | 2.650 | | 450 | 0.131 | 7.2 | 2.629 | | 620 | 0.18 | 7.2 | 2.658 | | 865 | 0.253 | 9.2 |
| | 725 | 1.973 | | 210 | 0.046 | 3.15 | 1.987 | | 340 | 0.074 | 7.2 | 1.987 | | 450 | 0.10 | 7.2 | 1.972 | | 620 | 0.13 | 7.2 | 1.993 | | 865 | 0.19 | 9.2 |
| | 2900 | 7.22 | | 210 | 0.167 | 3.15 | 6.959 | | 340 | 0.261 | 7.2 | 6.959 | | 450 | 0.35 | 7.2 | 7.306 | | 620 | 0.50 | 7.2 | 6.980 | | 865 | 0.67 | 9.2 |
| | 1450 | 3.610 | 401.7 | 210 | 0.084 | 3.15 | 3.479 | 416.8 | 340 | 0.13 | 7.2 | 3.479 | 416.8 | 450 | 0.173 | 7.2 | 3.653 | 396.9 | 620 | 0.25 | 7.2 | 3.490 | 415.5 | 865 | 0.333 | 9.2 |
| 4 0 0 | 960 | 2.390 | | 210 | 0.055 | 3.15 | 2.304 | | 340 | 0.086 | 7.2 | 2.304 | | 450 | 0.114 | 7.2 | 2.419 | | 620 | 0.165 | 7.2 | 2.311 | | 865 | 0.22 | 9.2 |
| | 725 | 1.792 | | 210 | 0.041 | 3.15 | 1.728 | | 340 | 0.065 | 7.2 | 1.728 | | 450 | 0.086 | 7.2 | 1.814 | | 620 | 0.12 | 7.2 | 1.733 | | 865 | 0.17 | 9.2 |
| | 2900 | 6.64 | | 210 | 0.154 | 3.15 | 6.517 | | 340 | 0.244 | 7.2 | 6.517 | | 450 | 0.32 | 7.2 | 6.530 | | 625 | 0.45 | 7.2 | 6.173 | | 865 | 0.59 | 9.2 |
| | 1450 | 3.320 | 436.7 | 210 | 0.077 | 3.15 | 3.259 | 445 | 340 | 0.122 | 7.2 | 3.259 | 445 | 450 | 0.162 | 7.2 | 3.265 | 444.1 | 625 | 0.225 | 7.2 | 3.087 | 469.8 | 865 | 0.294 | 9.2 |
| 4 5 0 | 960 | 2.198 | | 210 | 0.051 | 3.15 | 2.157 | | 340 | 0.081 | 7.2 | 2.157 | | 450 | 0.107 | 7.2 | 2.162 | | 625 | 0.149 | 7.2 | 2.044 | | 865 | 0.195 | 9.2 |
| | 725 | 1.649 | | 210 | 0.038 | 3.15 | 1.618 | | 340 | 0.061 | 7.2 | 1.618 | | 450 | 0.080 | 7.2 | 1.621 | | 625 | 0.11 | 7.2 | 1.533 | | 865 | 0.15 | 9.2 |
| | 2900 | 5.67 | | 210 | 0.131 | 3.15 | 5.995 | | 340 | 0.225 | 7.2 | 5.995 | | 450 | 0.297 | 7.2 | 5.440 | | 625 | 0.375 | 7.2 | 5.678 | | 865 | 0.541 | 9.2 |
| | 1450 | 2.834 | 511.7 | 210 | 0.066 | 3.15 | 2.997 | 483.8 | 340 | 0.112 | 7.2 | 2.997 | 483.8 | 450 | 0.149 | 7.2 | 2.720 | 533.1 | 625 | 0.187 | 7.2 | 2.839 | 510.7 | 865 | 0.271 | 9.2 |
| 5 0 0 | 960 | 1.876 | | 210 | 0.043 | 3.15 | 1.984 | | 340 | 0.074 | 7.2 | 1.984 | | 450 | 0.098 | 7.2 | 1.801 | | 625 | 0.124 | 7.2 | 1.880 | | 865 | 0.179 | 9.2 |
| | 725 | 1.407 | | 210 | 0.033 | 3.15 | 1.488 | | 340 | 0.056 | 7.2 | 1.488 | | 450 | 0.074 | 7.2 | 1.351 | | 625 | 0.093 | 7.2 | 1.410 | | 865 | 0.13 | 9.2 |
| | 2900 | 4.72 | | 210 | 0.109 | 3.15 | 4.831 | | 340 | 0.181 | 7.2 | 4.831 | | 450 | 0.240 | 7.2 | 5.104 | | 625 | 0.35 | 7.2 | 4.898 | | 865 | 0.47 | 9.2 |
| | 1450 | 2.361 | 614.2 | 210 | 0.055 | 3.15 | 2.415 | 600.3 | 340 | 0.091 | 7.2 | 2.415 | 600.3 | 450 | 0.12 | 7.2 | 2.552 | 568.2 | 625 | 0.176 | 7.2 | 2.449 | 592.1 | 865 | 0.233 | 9.2 |
| 6 5 0 | 960 | 1.563 | | 210 | 0.036 | 3.15 | 1.599 | | 340 | 0.06 | 7.2 | 1.599 | | 450 | 0.079 | 7.2 | 1.689 | | 625 | 0.116 | 7.2 | 1.621 | | 865 | 0.155 | 9.2 |
| | 725 | 1.172 | | 210 | 0.027 | 3.15 | 1.199 | | 340 | 0.045 | 7.2 | 1.199 | | 450 | 0.059 | 7.2 | 1.267 | | 625 | 0.087 | 7.2 | 1.216 | | 865 | 0.12 | 9.2 |
| | 2900 | 3.94 | | 210 | 0.091 | 3.15 | 4.024 | | 340 | 0.151 | 7.2 | 4.024 | | 450 | 0.200 | 7.2 | 4.253 | | 625 | 0.29 | 7.2 | 4.080 | | 865 | 0.39 | 9.2 |
| | 1450 | 1.968 | 736.9 | 210 | 0.046 | 3.15 | 2.012 | 720.7 | 340 | 0.075 | 7.2 | 2.012 | 720.7 | 450 | 0.1 | 7.2 | 2.126 | 681.9 | 625 | 0.146 | 7.2 | 2.040 | 710.8 | 865 | 0.194 | 9.2 |
| 7 3 0 | 960 | 1.303 | | 210 | 0.03 | 3.15 | 1.332 | | 340 | 0.05 | 7.2 | 1.332 | | 450 | 0.066 | 7.2 | 1.408 | | 625 | 0.097 | 7.2 | 1.351 | | 865 | 0.129 | 9.2 |
| | 725 | 0.977 | | 210 | 0.023 | 3.15 | 0.999 | | 340 | 0.037 | 7.2 | 0.999 | | 450 | 0.050 | 7.2 | 1.056 | | 625 | 0.073 | 7.2 | 1.013 | | 865 | 0.097 | 9.2 |
| | 2900 | 3.28 | | 210 | 0.076 | 3.15 | 3.413 | | 340 | 0.128 | 7.2 | 3.413 | | 450 | 0.169 | 7.2 | 3.589 | | 625 | 0.247 | 7.2 | 3.420 | | 865 | 0.33 | 9.2 |
| | 1450 | 1.640 | 884.3 | 210 | 0.038 | 3.15 | 1.706 | 849.8 | 340 | 0.064 | 7.2 | 1.706 | 849.8 | 450 | 0.085 | 7.2 | 1.794 | 808.1 | 625 | 0.124 | 7.2 | 1.710 | 847.8 | 865 | 0.163 | 9.2 |
| 8 6 0 | 960 | 1.086 | | 210 | 0.025 | 3.15 | 1.13 | | 340 | 0.042 | 7.2 | 1.130 | | 450 | 0.056 | 7.2 | 1.188 | | 625 | 0.082 | 7.2 | 1.132 | | 865 | 0.108 | 9.2 |
| | 725 | 0.814 | | 210 | 0.019 | 3.15 | 0.847 | | 340 | 0.032 | 7.2 | 0.847 | | 450 | 0.042 | 7.2 | 0.891 | | 625 | 0.061 | 7.2 | 0.849 | | 865 | 0.081 | 9.2 |
| | 2900 | 2.81 | | 210 | 0.065 | 3.15 | 2.844 | | 340 | 0.107 | 7.2 | 2.844 | | 450 | 0.141 | 7.2 | 2.983 | | 625 | 0.205 | 7.2 | 2.850 | | 865 | 0.27 | 9.2 |
| | 1450 | 1.407 | 1031 | 210 | 0.033 | 3.15 | 1.422 | 1020 | 340 | 0.053 | 7.2 | 1.422 | 1020 | 450 | 0.071 | 7.2 | 1.491 | 972.2 | 625 | 0.103 | 7.2 | 1.425 | 1017 | 865 | 0.136 | 9.2 |
| 1 0 C | 960 | 0.931 | | 210 | 0.022 | 3.15 | 0.941 | | 340 | 0.035 | 7.2 | 0.941 | | 450 | 0.047 | 7.2 | 0.987 | | 625 | 0.068 | 7.2 | 0.944 | | 865 | 0.09 | 9.2 |
| | 725 | 0.698 | | 210 | 0.016 | 3.15 | 0.706 | | 340 | 0.026 | 7.2 | 0.706 | | 450 | 0.035 | 7.2 | 0.741 | | 625 | 0.051 | 7.2 | 0.708 | | 865 | 0.067 | 9.2 |
| | 2900 | 2.50 | | 210 | 0.058 | 3.15 | 2.597 | | 340 | 0.097 | 7.2 | 2.597 | | 450 | 0.129 | 7.2 | 2.566 | | 625 | 0.177 | 7.2 | 2.603 | | 865 | 0.248 | 9.2 |
| | 1450 | 1.248 | 1161 | 210 | 0.029 | 3.15 | 1.299 | 1117 | 340 | 0.049 | 7.2 | 1.299 | 1117 | 450 | 0.064 | 7.2 | 1.283 | 1130 | 625 | 0.088 | 7.2 | 1.301 | 1114 | 865 | 0.124 | 9.2 |
| 1 1 C | 960 | 0.827 | | 210 | 0.019 | 3.15 | 0.86 | | 340 | 0.032 | 7.2 | 0.860 | | 450 | 0.043 | 7.2 | 0.849 | | 625 | 0.059 | 7.2 | 0.862 | | 865 | 0.082 | 9.2 |
| | 725 | 0.620 | | 210 | 0.014 | 3.15 | 0.645 | | 340 | 0.024 | 7.2 | 0.645 | | 450 | 0.032 | 7.2 | 0.637 | | 625 | 0.044 | 7.2 | 0.646 | | 865 | 0.062 | 9.2 |
| | 2900 | 2.25 | | 210 | 0.052 | 3.15 | 2.305 | | 340 | 0.086 | 7.2 | 2.305 | | 450 | 0.114 | 7.2 | 2.068 | | 625 | 0.142 | 7.2 | 2.310 | | 865 | 0.22 | 9.2 |
| | 1450 | 1.124 | 1291 | 210 | 0.026 | 3.15 | 1.152 | 1258 | 340 | 0.043 | 7.2 | 1.152 | 1258 | 450 | 0.057 | 7.2 | 1.034 | 1402 | 625 | 0.071 | 7.2 | 1.155 | 1255 | 865 | 0.11 | 9.2 |
| 1 3 C | 960 | 0.744 | | 210 | 0.017 | 3.15 | 0.763 | | 340 | 0.029 | 7.2 | 0.763 | | 450 | 0.038 | 7.2 | 0.685 | | 625 | 0.047 | 7.2 | 0.765 | | 865 | 0.073 | 9.2 |
| | 725 | 0.558 | | 210 | 0.013 | 3.15 | 0.572 | | 340 | 0.021 | 7.2 | 0.572 | | 450 | 0.028 | 7.2 | 0.513 | | 625 | 0.035 | 7.2 | 0.574 | | 865 | 0.055 | 9.2 |
| | 2900 | 1.93 | | 203 | 0.043 | 3.15 | 1.881 | | 340 | 0.07 | 7.2 | 1.881 | | 450 | 0.093 | 7.2 | 1.822 | | 625 | 0.126 | 7.2 | 1.925 | | 865 | 0.184 | 9.2 |
| | 1450 | 0.967 | 1500 | 203 | 0.022 | 3.15 | 0.94 | 1542 | 340 | 0.035 | 7.2 | 0.940 | 1542 | 450 | 0.047 | 7.2 | 0.911 | 1592 | 625 | 0.063 | 7.2 | 0.963 | 1506 | 865 | 0.092 | 9.2 |
| 1 5 C | 960 | 0.640 | | 203 | 0.014 | 3.15 | 0.623 | | 340 | 0.023 | 7.2 | 0.623 | | 450 | 0.031 | 7.2 | 0.603 | | 625 | 0.042 | 7.2 | 0.637 | | 865 | 0.061 | 9.2 |
| | 725 | 0.480 | | 203 | 0.011 | 3.15 | 0.467 | | 340 | 0.017 | 7.2 | 0.467 | | 450 | 0.023 | 7.2 | 0.452 | | 625 | 0.031 | 7.2 | 0.478 | | 865 | 0.046 | 9.2 |
| | 2900 | 1.61 | | 203 | 0.036 | 3.15 | 1.618 | | 340 | 0.061 | 7.2 | 1.618 | | 450 | 0.08 | 7.2 | 1.545 | | 625 | 0.106 | 7.2 | 1.656 | | 865 | 0.158 | 9.2 |
| | 1450 | 0.803 | 1807 | 203 | 0.018 | 3.15 | 0.809 | 1792 | 340 | 0.03 | 7.2 | 0.809 | 1792 | 450 | 0.04 | 7.2 | 0.772 | 1877 | 625 | 0.053 | 7.2 | 0.828 | 1751 | 865 | 0.079 | 9.2 |
| 1 8 C | 960 | 0.531 | | 203 | 0.012 | 3.15 | 0.536 | | 340 | 0.02 | 7.2 | 0.536 | | 450 | 0.027 | 7.2 | 0.511 | | 625 | 0.035 | 7.2 | 0.548 | | 865 | 0.052 | 9.2 |
| | 725 | 0.399 | | 203 | 0.009 | 3.15 | 0.402 | | 340 | 0.015 | 7.2 | 0.402 | | 450 | 0.020 | 7.2 | 0.384 | | 625 | 0.026 | 7.2 | 0.411 | | 865 | 0.039 | 9.2 |
| | 2900 | 1.41 | | 203 | 0.032 | 3.15 | 1.452 | | 340 | 0.054 | 7.2 | 1.452 | | 380 | 0.061 | 7.2 | 1.411 | | 625 | 0.097 | 7.2 | 1.439 | | 725 | 0.115 | 9.2 |
| | 1450 | 0.707 | 2051 | 203 | 0.016 | 3.15 | 0.726 | 1998 | 340 | 0.027 | 7.2 | 0.726 | 1998 | 380 | 0.03 | 7.2 | 0.705 | 2055 | 625 | 0.049 | 7.2 | 0.720 | 2015 | 725 | 0.058 | 9.2 |
| 2 0 C | 960 | 0.468 | | 203 | 0.01 | 3.15 | 0.481 | | 340 | 0.018 | 7.2 | 0.481 | | 380 | 0.02 | 7.2 | 0.467 | | 625 | 0.032 | 7.2 | 0.476 | | 725 | 0.038 | 9.2 |
| | 725 | 0.351 | | 203 | 0.008 | 3.15 | 0.36 | | 340 | 0.014 | 7.2 | 0.360 | | 380 | 0.015 | 7.2 | 0.350 | | 625 | 0.024 | 7.2 | 0.357 | | 725 | 0.029 | 9.2 |
| | 2900 | 1.23 | | 203 | 0.028 | 3.15 | 1.279 | | 340 | 0.048 | 7.2 | 1.279 | | 380 | 0.054 | 7.2 | 1.241 | | 625 | 0.086 | 7.2 | 1.268 | | 725 | 0.101 | 9.2 |
| | 1450 | 0.617 | 2350 | 203 | 0.014 | 3.15 | 0.639 | 2268 | 340 | 0.024 | 7.2 | 0.639 | 2268 | 380 | 0.027 | 7.2 | 0.621 | 2337 | 625 | 0.043 | 7.2 | 0.634 | 2287 | 725 | 0.051 | 9.2 |
| 2 4 C | 960 | 0.408 | | 203 | 0.009 | 3.15 | 0.423 | | 340 | 0.016 | 7.2 | 0.423 | | 380 | 0.018 | 7.2 | 0.411 | | 625 | 0.028 | 7.2 | 0.420 | | 725 | 0.034 | 9.2 |
| | 725 | 0.306 | | 203 | 0.007 | 3.15 | 0.318 | | 340 | 0.012 | 7.2 | 0.318 | | 380 | 0.013 | 7.2 | 0.308 | | 625 | 0.021 | 7.2 | 0.315 | | 725 | 0.025 | 9.2 |
| | 2900 | 1.09 | | 203 | 0.024 | 3.15 | 1.125 | | 340 | 0.042 | 7.2 | 1.125 | | 380 | 0.047 | 7.2 | 1.151 | | 620 | 0.079 | 7.2 | 1.115 | | 725 | 0.089 | 9.2 |
| | 1450 | 0.543 | 2671 | 203 | 0.012 | 3.15 | 0.562 | 2578 | 340 | 0.021 | 7.2 | 0.562 | 2578 | 380 | 0.024 | 7.2 | 0.576 | 2519 | 620 | 0.039 | 7.2 | 0.558 | 2600 | 725 | 0.045 | 9.2 |
| 2 7 C | 960 | 0.359 | | 203 | 0.008 | 3.15 | 0.372 | | 340 | 0.014 | 7.2 | 0.372 | | 380 | 0.016 | 7.2 | 0.381 | | 620 | 0.026 | 7.2 | 0.369 | | 725 | 0.03 | 9.2 |
| | 725 | 0.270 | | 203 | 0.006 | 3.15 | 0.279 | | 340 | 0.01 | 7.2 | 0.279 | | 380 | 0.012 | 7.2 | 0.286 | | 620 | 0.020 | 7.2 | 0.277 | | 725 | 0.022 | 9.2 |

# QUADRUPLE REDUCTION RATINGS
# SIZES M08 - M14

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**QUADRUPLE REDUCTION**

| Column Entry | Input Speed | M0842 | | | | | M0941 | | | | | M1041 | | | | | M1341 | | | | | M1441 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 7 8 | N1 (rpm) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 12.67 | | 1400 | 1.955 | 16.20 | 12.55 | | 2640 | 3.65 | 28.0 | 13.16 | | 4410 | 6.40 | 40.0 | 12.78 | | 6350 | 8.94 | 64.0 | 11.75 | | 10600 | 13.73 | 79.0 |
| | 1450 | 6.334 | 228.9 | 1400 | 0.977 | 16.20 | 6.274 | 231.1 | 2640 | 1.826 | 28.0 | 6.582 | 220.3 | 4410 | 3.199 | 40.0 | 6.388 | 227 | 6350 | 4.471 | 64.0 | 5.874 | 246.9 | 10600 | 6.863 | 79.0 |
| 2 2 5 | 960 | 4.194 | | 1400 | 0.647 | 16.20 | 4.154 | | 2640 | 1.209 | 28.0 | 4.358 | | 4410 | 2.118 | 40.0 | 4.229 | | 6350 | 2.96 | 64.0 | 3.889 | | 10600 | 4.544 | 79.0 |
| | 725 | 3.145 | | 1400 | 0.485 | 16.20 | 3.115 | | 2640 | 0.907 | 28.0 | 3.268 | | 4410 | 1.589 | 40.0 | 3.172 | | 6350 | 2.22 | 64.0 | 2.917 | | 10600 | 3.408 | 79.0 |
| | 2900 | 11.20 | | 1500 | 1.85 | 16.20 | 11.23 | | 2860 | 3.54 | 28.0 | 11.97 | | 4410 | 5.82 | 40.0 | 11.62 | | 6350 | 8.13 | 64.0 | 10.68 | | 10600 | 12.48 | 79.0 |
| | 1450 | 5.599 | 259 | 1500 | 0.926 | 16.20 | 5.616 | 258.2 | 2860 | 1.77 | 28.0 | 5.986 | 242.2 | 4410 | 2.91 | 40.0 | 5.809 | 249.6 | 6350 | 4.066 | 64.0 | 5.342 | 271.4 | 10600 | 6.241 | 79.0 |
| 2 5 0 | 960 | 3.707 | | 1500 | 0.613 | 16.20 | 3.718 | | 2860 | 1.172 | 28.0 | 3.963 | | 4410 | 1.926 | 40.0 | 3.846 | | 6350 | 2.692 | 64.0 | 3.537 | | 10600 | 4.132 | 79.0 |
| | 725 | 2.780 | | 1500 | 0.46 | 16.20 | 2.789 | | 2860 | 0.879 | 28.0 | 2.972 | | 4410 | 1.445 | 40.0 | 2.885 | | 6350 | 2.019 | 64.0 | 2.653 | | 10600 | 3.099 | 79.0 |
| | 2900 | 9.63 | | 1500 | 1.59 | 16.20 | 9.66 | | 2860 | 3.05 | 28.0 | 10.42 | | 4410 | 5.06 | 40.0 | 10.11 | | 6350 | 7.08 | 64.0 | 9.30 | | 10600 | 10.86 | 79.0 |
| | 1450 | 4.814 | 301.2 | 1500 | 0.796 | 16.20 | 4.83 | 300.2 | 2860 | 1.523 | 28.0 | 5.209 | 278.3 | 4410 | 2.532 | 40.0 | 5.056 | 286.8 | 6350 | 3.539 | 64.0 | 4.649 | 311.9 | 10600 | 5.432 | 79.0 |
| 2 8 0 | 960 | 3.187 | | 1500 | 0.527 | 16.20 | 3.198 | | 2860 | 1.008 | 28.0 | 3.449 | | 4410 | 1.677 | 40.0 | 3.347 | | 6350 | 2.343 | 64.0 | 3.078 | | 10600 | 3.596 | 79.0 |
| | 725 | 2.390 | | 1500 | 0.395 | 16.20 | 2.398 | | 2860 | 0.756 | 28.0 | 2.587 | | 4410 | 1.257 | 40.0 | 2.51 | | 6350 | 1.757 | 64.0 | 2.308 | | 10600 | 2.697 | 79.0 |
| | 2900 | 8.61 | | 1500 | 1.42 | 16.20 | 8.64 | | 2860 | 2.72 | 28.0 | 9.19 | | 4410 | 4.47 | 40.0 | 8.92 | | 6350 | 6.24 | 64.0 | 8.20 | | 10600 | 9.58 | 79.0 |
| | 1450 | 4.303 | 337 | 1500 | 0.711 | 16.20 | 4.318 | 335.8 | 2860 | 1.361 | 28.0 | 4.594 | 315.6 | 4410 | 2.233 | 40.0 | 4.459 | 325.2 | 6350 | 3.121 | 64.0 | 4.1 | 353.7 | 10600 | 4.79 | 79.0 |
| 3 0 0 | 960 | 2.849 | | 1500 | 0.471 | 16.20 | 2.859 | | 2860 | 0.901 | 28.0 | 3.042 | | 4410 | 1.479 | 40.0 | 2.952 | | 6350 | 2.066 | 64.0 | 2.715 | | 10600 | 3.172 | 79.0 |
| | 725 | 2.136 | | 1500 | 0.353 | 16.20 | 2.144 | | 2860 | 0.676 | 28.0 | 2.281 | | 4410 | 1.109 | 40.0 | 2.214 | | 6350 | 1.55 | 64.0 | 2.036 | | 10600 | 2.379 | 79.0 |
| | 2900 | 8.07 | | 1500 | 1.33 | 16.20 | 8.10 | | 2860 | 2.55 | 28.0 | 8.33 | | 4410 | 4.05 | 40.0 | 8.08 | | 6350 | 5.66 | 64.0 | 7.43 | | 10600 | 8.68 | 79.0 |
| | 1450 | 4.037 | 359.2 | 1500 | 0.667 | 16.20 | 4.05 | 358.1 | 2860 | 1.277 | 28.0 | 4.164 | 348.2 | 4410 | 2.024 | 40.0 | 4.041 | 358.8 | 6350 | 2.829 | 64.0 | 3.716 | 390.2 | 10600 | 4.342 | 79.0 |
| 3 6 0 | 960 | 2.673 | | 1500 | 0.442 | 16.20 | 2.681 | | 2860 | 0.845 | 28.0 | 2.757 | | 4410 | 1.34 | 40.0 | 2.676 | | 6350 | 1.873 | 64.0 | 2.46 | | 10600 | 2.875 | 79.0 |
| | 725 | 2.005 | | 1500 | 0.331 | 16.20 | 2.011 | | 2860 | 0.634 | 28.0 | 2.068 | | 4410 | 1.005 | 40.0 | 2.007 | | 6350 | 1.405 | 64.0 | 1.845 | | 10600 | 2.156 | 79.0 |
| | 2900 | 6.81 | | 1500 | 1.13 | 16.20 | 6.83 | | 0.535 | 2.15 | 28.0 | 7.27 | | 4410 | 3.54 | 40.0 | 7.06 | | 6350 | 4.94 | 64.0 | 6.49 | | 10600 | 7.58 | 79.0 |
| | 1450 | 3.406 | 425.7 | 1500 | 0.563 | 16.20 | 3.417 | 424.4 | 2860 | 1.077 | 28.0 | 3.637 | 398.7 | 4410 | 1.768 | 40.0 | 3.53 | 410.8 | 6350 | 2.47 | 64.0 | 3.246 | 446.7 | 10600 | 3.792 | 79.0 |
| 4 0 0 | 960 | 2.255 | | 1500 | 0.373 | 16.20 | 2.262 | | 1.077 | 0.713 | 28.0 | 2.408 | | 4410 | 1.17 | 40.0 | 2.337 | | 6350 | 1.636 | 64.0 | 2.149 | | 10600 | 2.511 | 79.0 |
| | 725 | 1.691 | | 1500 | 0.28 | 16.20 | 1.697 | | 0.713 | 0.535 | 28.0 | 1.806 | | 4410 | 0.878 | 40.0 | 1.753 | | 6350 | 1.227 | 64.0 | 1.612 | | 10600 | 1.883 | 79.0 |
| | 2900 | 6.04 | | 1540 | 1.02 | 16.20 | 6.15 | | 2860 | 1.94 | 28.0 | 6.55 | | 4410 | 3.18 | 40.0 | 8.08 | | 6350 | 5.66 | 64.0 | 5.89 | | 10800 | 7.01 | 79.0 |
| | 1450 | 3.018 | 480.5 | 1540 | 0.512 | 16.20 | 3.076 | 471.4 | 2860 | 0.97 | 28.0 | 3.273 | 443 | 4410 | 1.591 | 40.0 | 4.041 | 358.8 | 6350 | 2.829 | 64.0 | 2.945 | 492.3 | 10800 | 3.506 | 79.0 |
| 4 5 0 | 960 | 1.998 | | 1540 | 0.339 | 16.20 | 2.037 | | 2860 | 0.642 | 28.0 | 2.167 | | 4410 | 1.053 | 40.0 | 2.676 | | 6350 | 1.873 | 64.0 | 1.95 | | 10800 | 2.321 | 79.0 |
| | 725 | 1.498 | | 1540 | 0.254 | 16.20 | 1.528 | | 2860 | 0.482 | 28.0 | 1.625 | | 4410 | 0.79 | 40.0 | 2.007 | | 6350 | 1.405 | 64.0 | 1.462 | | 10800 | 1.741 | 79.0 |
| | 2900 | 5.65 | | 1540 | 0.96 | 16.20 | 5.76 | | 2860 | 1.82 | 28.0 | 5.79 | | 4410 | 2.81 | 40.0 | 5.54 | | 6350 | 3.87 | 64.0 | 5.21 | | 10800 | 6.20 | 79.0 |
| | 1450 | 2.826 | 513 | 1540 | 0.48 | 16.20 | 2.882 | 503.1 | 2860 | 0.908 | 28.0 | 2.894 | 501.1 | 4410 | 1.407 | 40.0 | 2.768 | 523.8 | 6350 | 1.937 | 64.0 | 2.604 | 556.8 | 10800 | 3.1 | 79.0 |
| 5 0 0 | 960 | 1.871 | | 1540 | 0.318 | 16.20 | 1.908 | | 2860 | 0.601 | 28.0 | 1.916 | | 4410 | 0.931 | 40.0 | 1.833 | | 6350 | 1.283 | 64.0 | 1.724 | | 10800 | 2.052 | 79.0 |
| | 725 | 1.403 | | 1540 | 0.238 | 16.20 | 1.431 | | 2860 | 0.451 | 28.0 | 1.437 | | 4410 | 0.698 | 40.0 | 1.374 | | 6350 | 0.962 | 64.0 | 1.293 | | 10800 | 1.539 | 79.0 |
| | 2900 | 4.66 | | 1700 | 0.87 | 16.20 | 4.64 | | 2860 | 1.46 | 28.0 | 4.99 | | 4410 | 2.43 | 40.0 | 4.78 | | 6350 | 3.34 | 64.0 | 4.49 | | 10800 | 6.20 | 79.0 |
| | 1450 | 2.331 | 621.9 | 1700 | 0.437 | 16.20 | 2.322 | 624.4 | 2860 | 0.732 | 28.0 | 2.496 | 580.9 | 4410 | 1.213 | 40.0 | 2.388 | 607.3 | 6350 | 1.671 | 64.0 | 2.246 | 645.5 | 10800 | 3.1 | 79.0 |
| 6 5 0 | 960 | 1.544 | | 1700 | 0.289 | 16.20 | 1.538 | | 2860 | 0.485 | 28.0 | 1.653 | | 4410 | 0.803 | 40.0 | 1.581 | | 6350 | 1.106 | 64.0 | 1.487 | | 10800 | 2.052 | 79.0 |
| | 725 | 1.158 | | 1700 | 0.217 | 16.20 | 1.153 | | 2860 | 0.364 | 28.0 | 1.239 | | 4410 | 0.603 | 40.0 | 1.186 | | 6350 | 0.83 | 64.0 | 1.115 | | 10800 | 1.539 | 79.0 |
| | 2900 | 3.76 | | 1700 | 0.70 | 16.20 | 3.94 | | 2860 | 1.24 | 28.0 | 4.19 | | 4410 | 2.03 | 40.0 | 4.00 | | 6350 | 2.80 | 64.0 | 3.77 | | 10800 | 4.48 | 79.0 |
| | 1450 | 1.879 | 771.8 | 1700 | 0.352 | 16.20 | 1.97 | 736.2 | 2860 | 0.621 | 28.0 | 2.093 | 692.8 | 4410 | 1.017 | 40.0 | 2.002 | 724.3 | 6350 | 1.401 | 64.0 | 1.883 | 769.9 | 10800 | 2.242 | 79.0 |
| 7 3 0 | 960 | 1.244 | | 1700 | 0.233 | 16.20 | 1.304 | | 2860 | 0.411 | 28.0 | 1.386 | | 4410 | 0.674 | 40.0 | 1.325 | | 6350 | 0.928 | 64.0 | 1.247 | | 10800 | 1.484 | 79.0 |
| | 725 | 0.933 | | 1700 | 0.175 | 16.20 | 0.978 | | 2860 | 0.308 | 28.0 | 1.039 | | 4410 | 0.505 | 40.0 | 0.994 | | 6350 | 0.696 | 64.0 | 0.935 | | 10800 | 1.113 | 79.0 |
| | 2900 | 3.22 | | 1700 | 0.60 | 16.20 | 3.29 | | 2860 | 1.04 | 28.0 | 3.50 | | 4410 | 1.70 | 40.0 | 3.38 | | 6350 | 2.36 | 64.0 | 3.62 | | 10700 | 4.27 | 79.0 |
| | 1450 | 1.611 | 900 | 1700 | 0.302 | 16.20 | 1.644 | 882.1 | 2860 | 0.518 | 28.0 | 1.75 | 828.4 | 4410 | 0.851 | 40.0 | 1.688 | 858.8 | 6350 | 1.182 | 64.0 | 1.809 | 801.7 | 10700 | 2.133 | 79.0 |
| 8 6 0 | 960 | 1.067 | | 1700 | 0.2 | 16.20 | 1.088 | | 2860 | 0.343 | 28.0 | 1.159 | | 4410 | 0.563 | 40.0 | 1.118 | | 6350 | 0.782 | 64.0 | 1.198 | | 10700 | 1.412 | 79.0 |
| | 725 | 0.8 | | 1700 | 0.15 | 16.20 | 0.816 | | 2860 | 0.257 | 28.0 | 0.869 | | 4410 | 0.422 | 40.0 | 0.838 | | 6350 | 0.587 | 64.0 | 0.898 | | 10700 | 1.059 | 79.0 |
| | 2900 | 2.73 | | 1700 | 0.51 | 16.20 | 2.79 | | 2860 | 0.88 | 28.0 | 2.94 | | 4410 | 1.43 | 40.0 | 2.83 | | 6350 | 1.98 | 64.0 | 3.12 | | 10700 | 3.68 | 79.0 |
| | 1450 | 1.366 | 1061 | 1700 | 0.256 | 16.20 | 1.394 | 1040 | 2860 | 0.439 | 28.0 | 1.468 | 988 | 4410 | 0.713 | 40.0 | 1.416 | 1024 | 6350 | 0.991 | 64.0 | 1.56 | 929.4 | 10700 | 1.84 | 79.0 |
| 1 0 C | 960 | 0.905 | | 1700 | 0.169 | 16.20 | 0.923 | | 2860 | 0.291 | 28.0 | 0.972 | | 4410 | 0.472 | 40.0 | 0.937 | | 6350 | 0.656 | 64.0 | 1.033 | | 10700 | 1.218 | 79.0 |
| | 725 | 0.678 | | 1700 | 0.127 | 16.20 | 0.692 | | 2860 | 0.218 | 28.0 | 0.729 | | 4410 | 0.354 | 40.0 | 0.703 | | 6350 | 0.492 | 64.0 | 0.775 | | 10700 | 0.914 | 79.0 |
| | 2900 | 2.49 | | 1700 | 0.47 | 16.20 | 2.53 | | 2860 | 0.80 | 28.0 | 2.55 | | 4410 | 1.24 | 40.0 | 2.54 | | 6350 | 1.78 | 64.0 | 2.62 | | 10700 | 3.09 | 79.0 |
| | 1450 | 1.244 | 1166 | 1700 | 0.233 | 16.20 | 1.263 | 1148 | 2860 | 0.398 | 28.0 | 1.274 | 1138 | 4410 | 0.619 | 40.0 | 1.271 | 1141 | 6350 | 0.89 | 64.0 | 1.308 | 1108 | 10700 | 1.543 | 79.0 |
| 1 1 C | 960 | 0.823 | | 1700 | 0.154 | 16.20 | 0.836 | | 2860 | 0.264 | 28.0 | 0.843 | | 4410 | 0.41 | 40.0 | 0.841 | | 6350 | 0.589 | 64.0 | 0.866 | | 10700 | 1.021 | 79.0 |
| | 725 | 0.618 | | 1700 | 0.116 | 16.20 | 0.627 | | 2860 | 0.198 | 28.0 | 0.633 | | 4410 | 0.307 | 40.0 | 0.631 | | 6350 | 0.442 | 64.0 | 0.65 | | 10700 | 0.766 | 79.0 |
| | 2900 | 2.27 | | 1700 | 0.43 | 16.20 | 2.16 | | 2860 | 0.68 | 28.0 | 2.33 | | 4410 | 1.13 | 40.0 | 2.32 | | 6350 | 1.62 | 64.0 | 2.39 | | 10700 | 2.82 | 79.0 |
| | 1450 | 1.136 | 1277 | 1700 | 0.213 | 16.20 | 1.082 | 1340 | 2860 | 0.341 | 28.0 | 1.163 | 1246 | 4410 | 0.565 | 40.0 | 1.161 | 1249 | 6350 | 0.812 | 64.0 | 1.195 | 1214 | 10700 | 1.409 | 79.0 |
| 1 3 C | 960 | 0.752 | | 1700 | 0.141 | 16.20 | 0.717 | | 2860 | 0.226 | 28.0 | 0.77 | | 4410 | 0.374 | 40.0 | 0.768 | | 6350 | 0.538 | 64.0 | 0.791 | | 10700 | 0.933 | 79.0 |
| | 725 | 0.564 | | 1700 | 0.106 | 16.20 | 0.537 | | 2860 | 0.169 | 28.0 | 0.578 | | 4410 | 0.281 | 40.0 | 0.576 | | 6350 | 0.403 | 64.0 | 0.593 | | 10700 | 0.7 | 79.0 |
| | 2900 | 1.85 | | 1700 | 0.35 | 16.20 | 1.84 | | 2860 | 0.58 | 28.0 | 1.88 | | 4260 | 0.88 | 40.0 | 1.90 | | 6350 | 1.33 | 64.0 | 1.93 | | 10100 | 2.15 | 79.0 |
| | 1450 | 0.927 | 1564 | 1700 | 0.174 | 16.20 | 0.918 | 1580 | 2860 | 0.289 | 28.0 | 0.942 | 1540 | 4260 | 0.442 | 40.0 | 0.949 | 1528 | 6350 | 0.664 | 64.0 | 0.965 | 1502 | 10100 | 1.075 | 79.0 |
| 1 5 C | 960 | 0.614 | | 1700 | 0.115 | 16.20 | 0.608 | | 2860 | 0.192 | 28.0 | 0.624 | | 4260 | 0.293 | 40.0 | 0.628 | | 6350 | 0.44 | 64.0 | 0.639 | | 10100 | 0.711 | 79.0 |
| | 725 | 0.460 | | 1700 | 0.086 | 16.20 | 0.456 | | 2860 | 0.144 | 28.0 | 0.468 | | 4260 | 0.22 | 40.0 | 0.471 | | 6350 | 0.33 | 64.0 | 0.479 | | 10100 | 0.534 | 79.0 |
| | 2900 | 1.51 | | 1700 | 0.28 | 16.20 | 1.68 | | 2860 | 0.53 | 28.0 | 1.72 | | 4260 | 0.81 | 40.0 | 1.58 | | 6350 | 1.11 | 64.0 | 1.61 | | 10100 | 1.79 | 79.0 |
| | 1450 | 0.756 | 1917 | 1700 | 0.142 | 16.20 | 0.838 | 1730 | 2860 | 0.264 | 28.0 | 0.86 | 1686 | 4260 | 0.404 | 40.0 | 0.791 | 1834 | 6350 | 0.553 | 64.0 | 0.804 | 1803 | 10100 | 0.895 | 79.0 |
| 1 8 C | 960 | 0.501 | | 1700 | 0.094 | 16.20 | 0.555 | | 2860 | 0.175 | 28.0 | 0.569 | | 4260 | 0.267 | 40.0 | 0.523 | | 6350 | 0.366 | 64.0 | 0.533 | | 10100 | 0.593 | 79.0 |
| | 725 | 0.376 | | 1700 | 0.07 | 16.20 | 0.416 | | 2860 | 0.131 | 28.0 | 0.427 | | 4260 | 0.201 | 40.0 | 0.393 | | 6350 | 0.275 | 64.0 | 0.399 | | 10100 | 0.445 | 79.0 |
| | 2900 | 1.39 | | 1700 | 0.26 | 16.20 | 1.37 | | 2860 | 0.43 | 28.0 | 1.43 | | 4260 | 0.67 | 40.0 | 1.37 | | 6350 | 0.96 | 64.0 | 1.40 | | 10100 | 1.56 | 79.0 |
| | 1450 | 0.693 | 2094 | 1700 | 0.13 | 16.20 | 0.684 | 2120 | 2860 | 0.216 | 28.0 | 0.717 | 2023 | 4260 | 0.337 | 40.0 | 0.687 | 2110 | 6350 | 0.481 | 64.0 | 0.699 | 2074 | 10100 | 0.778 | 79.0 |
| 2 0 C | 960 | 0.459 | | 1700 | 0.086 | 16.20 | 0.453 | | 2860 | 0.143 | 28.0 | 0.475 | | 4260 | 0.223 | 40.0 | 0.455 | | 6350 | 0.318 | 64.0 | 0.463 | | 10100 | 0.515 | 79.0 |
| | 725 | 0.344 | | 1700 | 0.064 | 16.20 | 0.34 | | 2860 | 0.107 | 28.0 | 0.356 | | 4260 | 0.167 | 40.0 | 0.341 | | 6350 | 0.239 | 64.0 | 0.347 | | 10100 | 0.386 | 79.0 |
| | 2900 | 1.24 | | 1700 | 0.23 | 16.20 | 1.23 | | 2860 | 0.39 | 28.0 | 1.25 | | 4260 | 0.59 | 40.0 | 1.24 | | 6350 | 0.87 | 64.0 | 1.26 | | 10100 | 1.40 | 79.0 |
| | 1450 | 0.621 | 2333 | 1700 | 0.116 | 16.20 | 0.614 | 2363 | 2860 | 0.193 | 28.0 | 0.623 | 2327 | 4260 | 0.293 | 40.0 | 0.618 | 2345 | 6350 | 0.433 | 64.0 | 0.629 | 2305 | 10100 | 0.7 | 79.0 |
| 2 4 C | 960 | 0.411 | | 1700 | 0.077 | 16.20 | 0.406 | | 2860 | 0.128 | 28.0 | 0.412 | | 4260 | 0.194 | 40.0 | 0.409 | | 6350 | 0.287 | 64.0 | 0.417 | | 10100 | 0.464 | 79.0 |
| | 725 | 0.309 | | 1700 | 0.058 | 16.20 | 0.305 | | 2860 | 0.096 | 28.0 | 0.309 | | 4260 | 0.145 | 40.0 | 0.307 | | 6350 | 0.215 | 64.0 | 0.312 | | 10100 | 0.348 | 79.0 |
| | 2900 | 1.11 | | 1700 | 0.21 | 16.20 | 1.09 | | 2860 | 0.35 | 28.0 | 1.12 | | 4260 | 0.53 | 40.0 | 1.00 | | 6350 | 0.70 | 64.0 | 1.02 | | 9280 | 1.04 | 79.0 |
| | 1450 | 0.554 | 2617 | 1700 | 0.104 | 16.20 | 0.547 | 2650 | 2860 | 0.173 | 28.0 | 0.561 | 2586 | 4260 | 0.263 | 40.0 | 0.502 | 2889 | 6350 | 0.351 | 64.0 | 0.51 | 2844 | 9280 | 0.521 | 79.0 |
| 2 7 C | 960 | 0.367 | | 1700 | 0.069 | 16.20 | 0.362 | | 2860 | 0.114 | 28.0 | 0.371 | | 4260 | 0.174 | 40.0 | 0.332 | | 6350 | 0.233 | 64.0 | 0.338 | | 9280 | 0.345 | 79.0 |
| | 725 | 0.275 | | 1700 | 0.052 | 16.20 | 0.272 | | 2860 | 0.086 | 28.0 | 0.278 | | 4260 | 0.131 | 40.0 | 0.249 | | 6350 | 0.174 | 64.0 | 0.253 | | 9280 | 0.259 | 79.0 |

# QUINTUPLE REDUCTION RATINGS
# SIZES M03 - M07

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**QUINTUPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0352 | | | | | M0452 | | | | | M0552 | | | | | M0652 | | | | | M0752 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 1.102 | | 210 | 0.026 | 3.15 | 1.092 | | 340 | 0.041 | 7.20 | 1.092 | | 450 | 0.054 | 7.20 | 1.095 | | 625 | 0.075 | 7.20 | 1.107 | | 865 | 0.106 | 9.20 |
| | 1450 | 0.551 | 2632 | 210 | 0.013 | 3.15 | 0.546 | 2655 | 340 | 0.021 | 7.20 | 0.546 | 2655 | 450 | 0.027 | 7.20 | 0.547 | 2649 | 625 | 0.038 | 7.20 | 0.554 | 2619 | 865 | 0.053 | 9.20 |
| 2 7 C | 960 | 0.365 | | 210 | 0.009 | 3.15 | 0.362 | | 340 | 0.014 | 7.20 | 0.362 | | 450 | 0.018 | 7.20 | 0.362 | | 625 | 0.025 | 7.20 | 0.367 | | 865 | 0.035 | 9.20 |
| | 725 | 0.274 | | 210 | 0.006 | 3.15 | 0.271 | | 340 | 0.010 | 7.20 | 0.271 | | 450 | 0.014 | 7.20 | 0.272 | | 625 | 0.019 | 7.20 | 0.275 | | 865 | 0.026 | 9.20 |
| | 2900 | 0.945 | | 210 | 0.022 | 3.15 | 0.937 | | 340 | 0.035 | 7.20 | 0.937 | | 450 | 0.046 | 7.20 | 0.939 | | 625 | 0.065 | 7.20 | 0.95 | | 865 | 0.046 | 9.20 |
| | 1450 | 0.473 | 3068 | 210 | 0.011 | 3.15 | 0.468 | 3095 | 340 | 0.018 | 7.20 | 0.468 | 3095 | 450 | 0.023 | 7.20 | 0.47 | 3088 | 625 | 0.033 | 7.20 | 0.475 | 3053 | 865 | 0.046 | 9.20 |
| 3 2 C | 960 | 0.313 | | 210 | 0.007 | 3.15 | 0.310 | | 340 | 0.012 | 7.20 | 0.31 | | 450 | 0.016 | 7.20 | 0.311 | | 625 | 0.022 | 7.20 | 0.314 | | 865 | 0.046 | 9.20 |
| | 725 | 0.235 | | 210 | 0.005 | 3.15 | 0.233 | | 340 | 0.009 | 7.20 | 0.233 | | 450 | 0.012 | 7.20 | 0.233 | | 625 | 0.016 | 7.20 | 0.236 | | 865 | 0.046 | 9.20 |
| | 2900 | 0.788 | | 210 | 0.018 | 3.15 | 0.795 | | 340 | 0.030 | 7.20 | 0.795 | | 450 | 0.039 | 7.20 | 0.757 | | 625 | 0.052 | 7.20 | 0.796 | | 865 | 0.076 | 9.20 |
| | 1450 | 0.394 | 3681 | 210 | 0.009 | 3.15 | 0.397 | 3650 | 340 | 0.015 | 7.20 | 0.397 | 3650 | 450 | 0.02 | 7.20 | 0.378 | 3832 | 625 | 0.026 | 7.20 | 0.398 | 3641 | 865 | 0.038 | 9.20 |
| 3 6 C | 960 | 0.261 | | 210 | 0.006 | 3.15 | 0.263 | | 340 | 0.010 | 7.20 | 0.263 | | 450 | 0.013 | 7.20 | 0.251 | | 625 | 0.017 | 7.20 | 0.264 | | 865 | 0.025 | 9.20 |
| | 725 | 0.196 | | 210 | 0.005 | 3.15 | 0.197 | | 340 | 0.007 | 7.20 | 0.197 | | 450 | 0.01 | 7.20 | 0.188 | | 625 | 0.013 | 7.20 | 0.198 | | 865 | 0.019 | 9.20 |
| | 2900 | 0.709 | | 210 | 0.016 | 3.15 | 0.715 | | 340 | 0.027 | 7.20 | 0.715 | | 450 | 0.035 | 7.20 | 0.681 | | 625 | 0.047 | 7.20 | 0.717 | | 865 | 0.068 | 9.20 |
| | 1450 | 0.354 | 4091 | 210 | 0.008 | 3.15 | 0.358 | 4055 | 340 | 0.014 | 7.20 | 0.358 | 4055 | 450 | 0.018 | 7.20 | 0.341 | 4258 | 625 | 0.024 | 7.20 | 0.358 | 4046 | 865 | 0.035 | 9.20 |
| 4 0 C | 960 | 0.235 | | 210 | 0.005 | 3.15 | 0.237 | | 340 | 0.009 | 7.20 | 0.237 | | 450 | 0.012 | 7.20 | 0.225 | | 625 | 0.016 | 7.20 | 0.237 | | 865 | 0.023 | 9.20 |
| | 725 | 0.176 | | 210 | 0.004 | 3.15 | 0.178 | | 340 | 0.007 | 7.20 | 0.178 | | 450 | 0.009 | 7.20 | 0.169 | | 625 | 0.012 | 7.20 | 0.178 | | 865 | 0.017 | 9.20 |
| | 2900 | 0.629 | | 210 | 0.015 | 3.15 | 0.653 | | 340 | 0.024 | 7.20 | 0.653 | | 450 | 0.032 | 7.20 | 0.578 | | 625 | 0.04 | 7.20 | 0.655 | | 865 | 0.062 | 9.20 |
| | 1450 | 0.315 | 4609 | 210 | 0.007 | 3.15 | 0.327 | 4440 | 340 | 0.012 | 7.20 | 0.327 | 4440 | 450 | 0.016 | 7.20 | 0.289 | 5021 | 625 | 0.02 | 7.20 | 0.327 | 4431 | 865 | 0.032 | 9.20 |
| 4 6 C | 960 | 0.208 | | 210 | 0.005 | 3.15 | 0.216 | | 340 | 0.008 | 7.20 | 0.216 | | 450 | 0.011 | 7.20 | 0.191 | | 625 | 0.013 | 7.20 | 0.217 | | 865 | 0.021 | 9.20 |
| | 725 | 0.156 | | 210 | 0.004 | 3.15 | 0.162 | | 340 | 0.006 | 7.20 | 0.162 | | 450 | 0.008 | 7.20 | 0.143 | | 625 | 0.01 | 7.20 | 0.163 | | 865 | 0.016 | 9.20 |
| | 2900 | 0.522 | | 210 | 0.012 | 3.15 | 0.542 | | 340 | 0.020 | 7.20 | 0.542 | | 450 | 0.027 | 7.20 | 0.48 | | 625 | 0.033 | 7.20 | 0.544 | | 865 | 0.052 | 9.20 |
| | 1450 | 0.261 | 5550 | 210 | 0.006 | 3.15 | 0.271 | 5347 | 340 | 0.010 | 7.20 | 0.271 | 5347 | 450 | 0.014 | 7.20 | 0.24 | 6046 | 625 | 0.017 | 7.20 | 0.272 | 5335 | 865 | 0.026 | 9.20 |
| 5 5 C | 960 | 0.173 | | 210 | 0.004 | 3.15 | 0.180 | | 340 | 0.007 | 7.20 | 0.18 | | 450 | 0.009 | 7.20 | 0.159 | | 625 | 0.011 | 7.20 | 0.18 | | 865 | 0.017 | 9.20 |
| | 725 | 0.13 | | 210 | 0.003 | 3.15 | 0.135 | | 340 | 0.005 | 7.20 | 0.135 | | 450 | 0.007 | 7.20 | 0.119 | | 625 | 0.008 | 7.20 | 0.135 | | 865 | 0.013 | 9.20 |
| | 2900 | 0.449 | | 203 | 0.01 | 3.15 | 0.443 | | 340 | 0.017 | 7.20 | 0.443 | | 450 | 0.022 | 7.20 | 0.438 | | 625 | 0.03 | 7.20 | 0.453 | | 865 | 0.043 | 9.20 |
| | 1450 | 0.225 | 6452 | 203 | 0.005 | 3.15 | 0.221 | 6553 | 340 | 0.008 | 7.20 | 0.221 | 6553 | 450 | 0.011 | 7.20 | 0.219 | 6620 | 625 | 0.015 | 7.20 | 0.226 | 6403 | 865 | 0.022 | 9.20 |
| 6 5 C | 960 | 0.149 | | 203 | 0.003 | 3.15 | 0.146 | | 340 | 0.006 | 7.20 | 0.146 | | 450 | 0.007 | 7.20 | 0.145 | | 625 | 0.01 | 7.20 | 0.15 | | 865 | 0.014 | 9.20 |
| | 725 | 0.112 | | 203 | 0.003 | 3.15 | 0.110 | | 340 | 0.004 | 7.20 | 0.11 | | 450 | 0.006 | 7.20 | 0.109 | | 625 | 0.008 | 7.20 | 0.112 | | 865 | 0.011 | 9.20 |
| | 2900 | 0.392 | | 203 | 0.009 | 3.15 | 0.386 | | 340 | 0.014 | 7.20 | 0.386 | | 450 | 0.019 | 7.20 | 0.382 | | 625 | 0.026 | 7.20 | 0.395 | | 865 | 0.038 | 9.20 |
| | 1450 | 0.196 | 7396 | 203 | 0.004 | 3.15 | 0.193 | 7511 | 340 | 0.007 | 7.20 | 0.193 | 7511 | 450 | 0.01 | 7.20 | 0.191 | 7588 | 625 | 0.013 | 7.20 | 0.198 | 7339 | 865 | 0.019 | 9.20 |
| 7 4 C | 960 | 0.13 | | 203 | 0.003 | 3.15 | 0.128 | | 340 | 0.005 | 7.20 | 0.128 | | 450 | 0.006 | 7.20 | 0.127 | | 625 | 0.009 | 7.20 | 0.131 | | 865 | 0.013 | 9.20 |
| | 725 | 0.097 | | 203 | 0.002 | 3.15 | 0.096 | | 340 | 0.004 | 7.20 | 0.096 | | 450 | 0.005 | 7.20 | 0.095 | | 625 | 0.007 | 7.20 | 0.098 | | 865 | 0.009 | 9.20 |
| | 2900 | 0.345 | | 203 | 0.008 | 3.15 | 0.346 | | 340 | 0.013 | 7.20 | 0.346 | | 380 | 0.015 | 7.20 | 0.336 | | 625 | 0.023 | 7.20 | 0.343 | | 725 | 0.027 | 9.20 |
| | 1450 | 0.173 | 8394 | 203 | 0.004 | 3.15 | 0.173 | 8372 | 340 | 0.007 | 7.20 | 0.173 | 8372 | 380 | 0.007 | 7.20 | 0.168 | 8624 | 625 | 0.012 | 7.20 | 0.172 | 8443 | 725 | 0.014 | 9.20 |
| 8 4 C | 960 | 0.114 | | 203 | 0.003 | 3.15 | 0.115 | | 340 | 0.004 | 7.20 | 0.115 | | 380 | 0.005 | 7.20 | 0.111 | | 625 | 0.008 | 7.20 | 0.114 | | 725 | 0.009 | 9.20 |
| | 725 | 0.086 | | 203 | 0.002 | 3.15 | 0.086 | | 340 | 0.003 | 7.20 | 0.086 | | 380 | 0.004 | 7.20 | 0.083 | | 625 | 0.006 | 7.20 | 0.085 | | 725 | 0.007 | 9.20 |
| | 2900 | 0.304 | | 203 | 0.007 | 3.15 | 0.305 | | 340 | 0.011 | 7.20 | 0.305 | | 380 | 0.013 | 7.20 | 0.312 | | 620 | 0.021 | 7.20 | 0.302 | | 725 | 0.024 | 9.20 |
| | 1450 | 0.152 | 9540 | 203 | 0.003 | 3.15 | 0.152 | 9514 | 340 | 0.006 | 7.20 | 0.152 | 9514 | 380 | 0.006 | 7.20 | 0.156 | 9300 | 620 | 0.011 | 7.20 | 0.151 | 9596 | 725 | 0.012 | 9.20 |
| 9 5 C | 960 | 0.101 | | 203 | 0.002 | 3.15 | 0.101 | | 340 | 0.004 | 7.20 | 0.101 | | 380 | 0.004 | 7.20 | 0.103 | | 620 | 0.007 | 7.20 | 0.1 | | 725 | 0.008 | 9.20 |
| | 725 | 0.075 | | 203 | 0.002 | 3.15 | 0.076 | | 340 | 0.003 | 7.20 | 0.076 | | 380 | 0.003 | 7.20 | 0.077 | | 620 | 0.005 | 7.20 | 0.075 | | 725 | 0.006 | 9.20 |
| | 2900 | 0.267 | | 203 | 0.006 | 3.15 | 0.272 | | 270 | 0.008 | 7.20 | 0.272 | | 270 | 0.008 | 7.20 | 0.274 | | 620 | 0.019 | 7.20 | 0.272 | | 725 | 0.022 | 9.20 |
| | 1450 | 0.134 | 10845 | 203 | 0.003 | 3.15 | 0.136 | 10670 | 270 | 0.004 | 7.20 | 0.136 | 10670 | 270 | 0.004 | 7.20 | 0.137 | 10569 | 620 | 0.009 | 7.20 | 0.136 | 10662 | 725 | 0.011 | 9.20 |
| 1 0 K | 960 | 0.089 | | 203 | 0.002 | 3.15 | 0.090 | | 270 | 0.003 | 7.20 | 0.09 | | 270 | 0.003 | 7.20 | 0.091 | | 620 | 0.006 | 7.20 | 0.09 | | 725 | 0.007 | 9.20 |
| | 725 | 0.066 | | 203 | 0.002 | 3.15 | 0.067 | | 270 | 0.002 | 7.20 | 0.067 | | 270 | 0.002 | 7.20 | 0.068 | | 620 | 0.005 | 7.20 | 0.068 | | 725 | 0.005 | 9.20 |

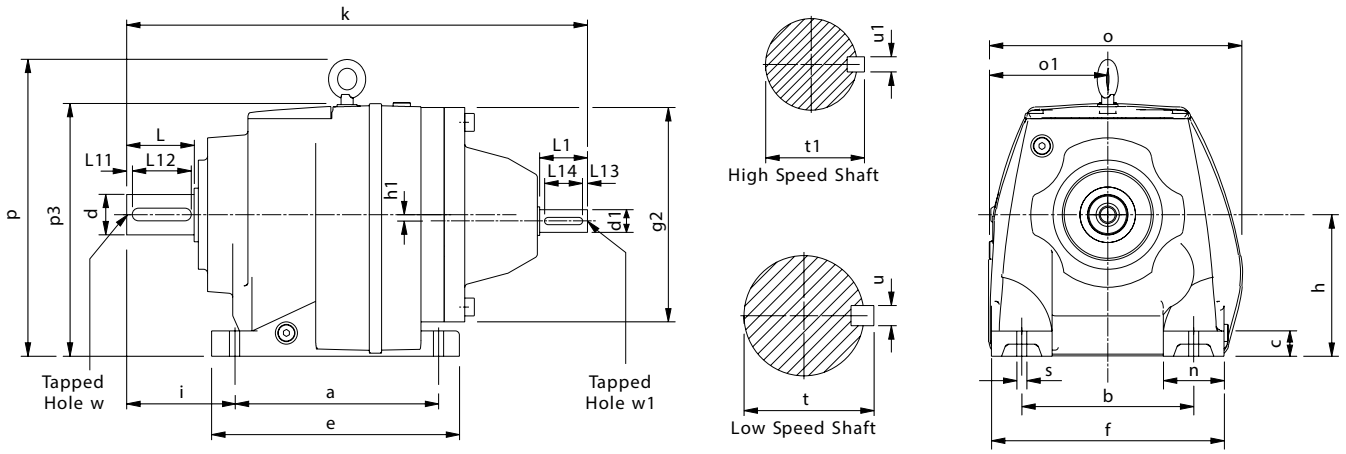
# QUINTUPLE REDUCTION RATINGS
## SIZES M08 - M14

*Pm* - Input Power (kW) *N2* - Output Speed (rpm)
*M2* - Output Torque (Nm) fra - Overhung Load (kN)
*i* - Exact Ratio (:1)

**QUINTUPLE REDUCTION**

| Column Entry 6 7 8 | Input Speed N1 (rpm) | M0852 | | | | | M0951 | | | | | M1051 | | | | | M1351 | | | | | M1451 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (:1) | M2 (Nm) | Pm (kW) | fra (kN) |
| | 2900 | 1.063 | | 1700 | 0.199 | 16.20 | 1.116 | | 2860 | 0.352 | 28.0 | 1.186 | | 4410 | 0.576 | 40.0 | 1.144 | | 6350 | 0.801 | 64.0 | 1.057 | | 10700 | 1.246 | 79.0 |
| | 1450 | 0.531 | 2728 | 1700 | 0.101 | 16.20 | 0.558 | 2598 | 2860 | 0.178 | 28.0 | 0.593 | 2446 | 4410 | 0.291 | 40.0 | 0.572 | 2536 | 6350 | 0.405 | 64.0 | 0.528 | 2744 | 10700 | 0.63 | 79.0 |
| 2 7 C | 960 | 0.352 | | 1700 | 0.07 | 16.20 | 0.370 | | 2860 | 0.12 | 28.0 | 0.393 | | 4410 | 0.19 | 40.0 | 0.379 | | 6350 | 0.27 | 64.0 | 0.350 | | 10700 | 0.42 | 79.0 |
| | 725 | 0.264 | | 1700 | 0.05 | 16.20 | 0.277 | | 2860 | 0.088 | 28.0 | 0.294 | | 4410 | 0.145 | 40.0 | 0.284 | | 6350 | 0.201 | 64.0 | 0.262 | | 10700 | 0.313 | 79.0 |
| | 2900 | 0.886 | | 1700 | 0.166 | 16.20 | 0.93 | | 2860 | 0.293 | 28.0 | 0.956 | | 4410 | 0.464 | 40.0 | 0.922 | | 6350 | 0.645 | 64.0 | 0.852 | | 10700 | 1.005 | 79.0 |
| | 1450 | 0.443 | 3274 | 1700 | 0.084 | 16.20 | 0.465 | 3119 | 2860 | 0.148 | 28.0 | 0.478 | 3035 | 4410 | 0.235 | 40.0 | 0.461 | 3146 | 6350 | 0.326 | 64.0 | 0.426 | 3405 | 10700 | 0.508 | 79.0 |
| 3 2 C | 960 | 0.293 | | 1700 | 0.056 | 16.20 | 0.308 | | 2860 | 0.10 | 28.0 | 0.316 | | 4410 | 0.16 | 40.0 | 0.305 | | 6350 | 0.22 | 64.0 | 0.282 | | 10700 | 0.34 | 79.0 |
| | 725 | 0.22 | | 1700 | 0.042 | 16.20 | 0.231 | | 2860 | 0.074 | 28.0 | 0.237 | | 4410 | 0.117 | 40.0 | 0.229 | | 6350 | 0.162 | 64.0 | 0.211 | | 10700 | 0.252 | 79.0 |
| | 2900 | 0.76 | | 1700 | 0.142 | 16.20 | 0.775 | | 2860 | 0.244 | 28.0 | 0.81 | | 4410 | 0.394 | 40.0 | 0.782 | | 6350 | 0.547 | 64.0 | 0.722 | | 10700 | 0.852 | 79.0 |
| | 1450 | 0.38 | 3818 | 1700 | 0.072 | 16.20 | 0.387 | 3742 | 2860 | 0.123 | 28.0 | 0.405 | 3579 | 4410 | 0.199 | 40.0 | 0.391 | 3710 | 6350 | 0.276 | 64.0 | 0.361 | 4015 | 10700 | 0.43 | 79.0 |
| 3 6 C | 960 | 0.251 | | 1700 | 0.048 | 16.20 | 0.257 | | 2860 | 0.082 | 28.0 | 0.268 | | 4410 | 0.13 | 40.0 | 0.259 | | 6350 | 0.18 | 64.0 | 0.239 | | 10700 | 0.29 | 79.0 |
| | 725 | 0.189 | | 1700 | 0.036 | 16.20 | 0.192 | | 2860 | 0.061 | 28.0 | 0.201 | | 4410 | 0.099 | 40.0 | 0.194 | | 6350 | 0.137 | 64.0 | 0.179 | | 10700 | 0.214 | 79.0 |
| | 2900 | 0.674 | | 1700 | 0.126 | 16.20 | 0.688 | | 2860 | 0.217 | 28.0 | 0.74 | | 4410 | 0.36 | 40.0 | 0.714 | | 6350 | 0.5 | 64.0 | 0.66 | | 10700 | 0.778 | 79.0 |
| | 1450 | 0.337 | 4302 | 1700 | 0.064 | 16.20 | 0.344 | 4216 | 2860 | 0.11 | 28.0 | 0.37 | 3919 | 4410 | 0.182 | 40.0 | 0.357 | 4062 | 6350 | 0.252 | 64.0 | 0.33 | 4396 | 10700 | 0.393 | 79.0 |
| 4 0 C | 960 | 0.223 | | 1700 | 0.042 | 16.20 | 0.228 | | 2860 | 0.073 | 28.0 | 0.245 | | 4410 | 0.12 | 40.0 | 0.236 | | 6350 | 0.17 | 64.0 | 0.218 | | 10700 | 0.26 | 79.0 |
| | 725 | 0.167 | | 1700 | 0.032 | 16.20 | 0.171 | | 2860 | 0.054 | 28.0 | 0.184 | | 4410 | 0.09 | 40.0 | 0.177 | | 6350 | 0.125 | 64.0 | 0.164 | | 10700 | 0.195 | 79.0 |
| | 2900 | 0.614 | | 1700 | 0.115 | 16.20 | 0.623 | | 2860 | 0.196 | 28.0 | 0.642 | | 4410 | 0.312 | 40.0 | 0.641 | | 6350 | 0.449 | 64.0 | 0.584 | | 10100 | 0.65 | 79.0 |
| | 1450 | 0.307 | 4726 | 1700 | 0.058 | 16.20 | 0.311 | 4655 | 2860 | 0.099 | 28.0 | 0.321 | 4515 | 4410 | 0.158 | 40.0 | 0.32 | 4525 | 6350 | 0.227 | 64.0 | 0.292 | 4969 | 10100 | 0.328 | 79.0 |
| 4 6 C | 960 | 0.203 | | 1700 | 0.038 | 16.20 | 0.206 | | 2860 | 0.066 | 28.0 | 0.213 | | 4410 | 0.10 | 40.0 | 0.212 | | 6350 | 0.15 | 64.0 | 0.193 | | 10100 | 0.22 | 79.0 |
| | 725 | 0.152 | | 1700 | 0.029 | 16.20 | 0.155 | | 2860 | 0.049 | 28.0 | 0.159 | | 4410 | 0.078 | 40.0 | 0.159 | | 6350 | 0.113 | 64.0 | 0.145 | | 10100 | 0.163 | 79.0 |
| | 2900 | 0.528 | | 1700 | 0.099 | 16.20 | 0.536 | | 2860 | 0.169 | 28.0 | 0.524 | | 4410 | 0.255 | 40.0 | 0.523 | | 6350 | 0.366 | 64.0 | 0.533 | | 10100 | 0.593 | 79.0 |
| | 1450 | 0.264 | 5494 | 1700 | 0.05 | 16.20 | 0.268 | 5411 | 2860 | 0.085 | 28.0 | 0.262 | 5533 | 4410 | 0.129 | 40.0 | 0.261 | 5545 | 6350 | 0.185 | 64.0 | 0.267 | 5441 | 10100 | 0.3 | 79.0 |
| 5 5 C | 960 | 0.175 | | 1700 | 0.033 | 16.20 | 0.177 | | 2860 | 0.057 | 28.0 | 0.174 | | 4410 | 0.085 | 40.0 | 0.173 | | 6350 | 0.12 | 64.0 | 0.176 | | 10100 | 0.20 | 79.0 |
| | 725 | 0.131 | | 1700 | 0.025 | 16.20 | 0.133 | | 2860 | 0.042 | 28.0 | 0.13 | | 4410 | 0.064 | 40.0 | 0.13 | | 6350 | 0.092 | 64.0 | 0.132 | | 10100 | 0.149 | 79.0 |
| | 2900 | 0.431 | | 1700 | 0.081 | 16.20 | 0.43 | | 2480 | 0.118 | 28.0 | 0.475 | | 4260 | 0.223 | 40.0 | 0.428 | | 6350 | 0.299 | 64.0 | 0.435 | | 10100 | 0.484 | 79.0 |
| | 1450 | 0.215 | 6733 | 1700 | 0.041 | 16.20 | 0.215 | 6742 | 2480 | 0.059 | 28.0 | 0.237 | 6106 | 4260 | 0.113 | 40.0 | 0.214 | 6783 | 6350 | 0.151 | 64.0 | 0.217 | 6668 | 10100 | 0.245 | 79.0 |
| 6 5 C | 960 | 0.143 | | 1700 | 0.027 | 16.20 | 0.142 | | 2480 | 0.039 | 28.0 | 0.157 | | 4260 | 0.075 | 40.0 | 0.142 | | 6350 | 0.10 | 64.0 | 0.144 | | 10100 | 0.16 | 79.0 |
| | 725 | 0.107 | | 1700 | 0.02 | 16.20 | 0.107 | | 2480 | 0.03 | 28.0 | 0.118 | | 4260 | 0.056 | 40.0 | 0.106 | | 6350 | 0.075 | 64.0 | 0.108 | | 10100 | 0.121 | 79.0 |
| | 2900 | 0.38 | | 1700 | 0.071 | 16.20 | 0.379 | | 2480 | 0.104 | 28.0 | 0.388 | | 4260 | 0.182 | 40.0 | 0.384 | | 6350 | 0.268 | 64.0 | 0.39 | | 10100 | 0.434 | 79.0 |
| | 1450 | 0.19 | 7641 | 1700 | 0.036 | 16.20 | 0.189 | 7652 | 2480 | 0.052 | 28.0 | 0.194 | 7483 | 4260 | 0.092 | 40.0 | 0.192 | 7561 | 6350 | 0.136 | 64.0 | 0.195 | 7432 | 10100 | 0.22 | 79.0 |
| 7 4 C | 960 | 0.126 | | 1700 | 0.024 | 16.20 | 0.125 | | 2480 | 0.035 | 28.0 | 0.128 | | 4260 | 0.061 | 40.0 | 0.127 | | 6350 | 0.090 | 64.0 | 0.129 | | 10100 | 0.15 | 79.0 |
| | 725 | 0.094 | | 1700 | 0.018 | 16.20 | 0.094 | | 2480 | 0.026 | 28.0 | 0.096 | | 4260 | 0.046 | 40.0 | 0.095 | | 6350 | 0.067 | 64.0 | 0.097 | | 10100 | 0.109 | 79.0 |
| | 2900 | 0.348 | | 1700 | 0.065 | 16.20 | 0.343 | | 2860 | 0.108 | 28.0 | 0.348 | | 4260 | 0.163 | 40.0 | 0.342 | | 6350 | 0.239 | 64.0 | 0.348 | | 10100 | 0.387 | 79.0 |
| | 1450 | 0.174 | 8344 | 1700 | 0.033 | 16.20 | 0.172 | 8449 | 2860 | 0.055 | 28.0 | 0.174 | 8340 | 4260 | 0.083 | 40.0 | 0.171 | 8479 | 6350 | 0.121 | 64.0 | 0.174 | 8335 | 10100 | 0.196 | 79.0 |
| 8 4 C | 960 | 0.115 | | 1700 | 0.022 | 16.20 | 0.114 | | 2860 | 0.036 | 28.0 | 0.115 | | 4260 | 0.055 | 40.0 | 0.113 | | 6350 | 0.080 | 64.0 | 0.115 | | 10100 | 0.13 | 79.0 |
| | 725 | 0.086 | | 1700 | 0.016 | 16.20 | 0.085 | | 2860 | 0.027 | 28.0 | 0.086 | | 4260 | 0.041 | 40.0 | 0.085 | | 6350 | 0.06 | 64.0 | 0.086 | | 10100 | 0.097 | 79.0 |
| | 2900 | 0.306 | | 1700 | 0.057 | 16.20 | 0.302 | | 2860 | 0.095 | 28.0 | 0.31 | | 4260 | 0.146 | 40.0 | 0.306 | | 5700 | 0.192 | 64.0 | 0.285 | | 9280 | 0.291 | 79.0 |
| | 1450 | 0.153 | 9486 | 1700 | 0.029 | 16.20 | 0.151 | 9605 | 2860 | 0.048 | 28.0 | 0.155 | 9354 | 4260 | 0.074 | 40.0 | 0.153 | 9490 | 5700 | 0.097 | 64.0 | 0.142 | 10192 | 9280 | 0.147 | 79.0 |
| 9 5 C | 960 | 0.101 | | 1700 | 0.019 | 16.20 | 0.100 | | 2860 | 0.032 | 28.0 | 0.103 | | 4260 | 0.049 | 40.0 | 0.101 | | 5700 | 0.064 | 64.0 | 0.094 | | 9280 | 0.10 | 79.0 |
| | 725 | 0.076 | | 1700 | 0.014 | 16.20 | 0.075 | | 2860 | 0.024 | 28.0 | 0.077 | | 4260 | 0.037 | 40.0 | 0.076 | | 5700 | 0.048 | 64.0 | 0.071 | | 9280 | 0.073 | 79.0 |
| | 2900 | 0.265 | | 1550 | 0.045 | 16.20 | 0.242 | | 2480 | 0.066 | 28.0 | 0.289 | | 4230 | 0.135 | 40.0 | 0.287 | | 6030 | 0.191 | 64.0 | 0.254 | | 9280 | 0.26 | 79.0 |
| | 1450 | 0.133 | 10924 | 1550 | 0.023 | 16.20 | 0.121 | 11966 | 2480 | 0.033 | 28.0 | 0.144 | 10048 | 4230 | 0.068 | 40.0 | 0.144 | 10097 | 6030 | 0.096 | 64.0 | 0.127 | 11430 | 9280 | 0.131 | 79.0 |
| 1 0 K | 960 | 0.088 | | 1550 | 0.015 | 16.20 | 0.080 | | 2480 | 0.022 | 28.0 | 0.096 | | 4230 | 0.045 | 40.0 | 0.095 | | 6030 | 0.064 | 64.0 | 0.084 | | 9280 | 0.087 | 79.0 |
| | 725 | 0.066 | | 1550 | 0.011 | 16.20 | 0.06 | | 2480 | 0.017 | 28.0 | 0.072 | | 4230 | 0.034 | 40.0 | 0.071 | | 6030 | 0.048 | 64.0 | 0.063 | | 9280 | 0.065 | 79.0 |

# DIMENSIONS - DOUBLE REDUCTION BASE MOUNT

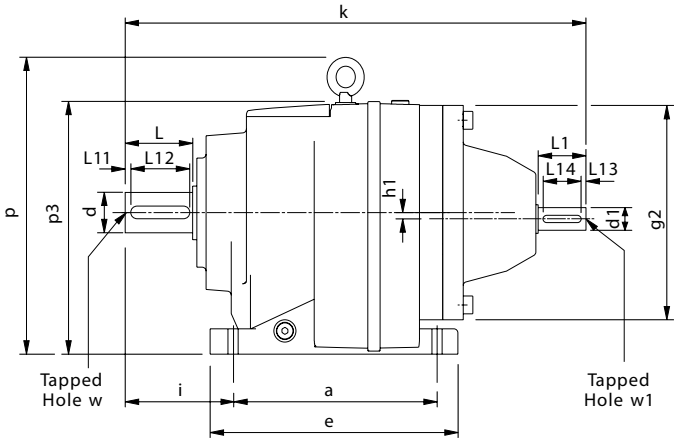


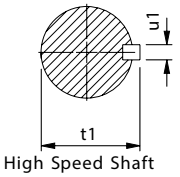

all parallel keys are to DIN 6885

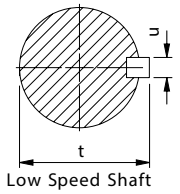
| size | a | b | c | e | f | g2 | h | h1 | i | k | n | o | o1 | p | p3 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0122 | 110 | 110 | 12 | 131 | 135 | 140 | 75 | - | 58 | 286 | 25 | 152 | 76 | - | 149 | 10 |
| M0222 | 130 | 110 | 16 | 152 | 145 | 140 | 90 | - | 75 | 317 | 35 | 170 | 84 | - | 180 | 10 |
| M0322 | 130 | 110 | 16 | 152 | 145 | 140 | 90 | - | 75 | 317 | 35 | 170 | 84 | - | 180 | 10 |
| M0422 | 165 | 135 | 20 | 200 | 190 | 180 | 115 | - | 90 | 369 | 55 | 204 | 97 | - | 208 | 15 |
| M0522 | 165 | 135 | 20 | 200 | 190 | 180 | 115 | - | 100 | 379 | 55 | 204 | 97 | - | 208 | 15 |
| M0622 | 195 | 150 | 24 | 235 | 210 | 180 | 130 | 14.5 | 100 | 400 | 60 | 220 | 110 | 246 | 214 | 15 |
| M0722 | 205 | 170 | 25 | 245 | 230 | 212 | 140 | - | 115 | 440 | 60 | 252 | 119 | 295 | 250 | 19 |
| M0822 | 260 | 215 | 35 | 310 | 290 | 250 | 180 | - | 140 | 555 | 75 | 320 | 167 | 360 | 310 | 19 |
| M0921 | 310 | 250 | 40 | 365 | 340 | 300 | 225 | - | 160 | 660 | 90 | 372 | 200 | 433 | 394 | 23 |
| M1021 | 370 | 290 | 45 | 440 | 400 | 360 | 250 | - | 185 | 782 | 110 | 428 | 225 | 505 | 446 | 27 |
| M1321 | 410 | 340 | 50 | 490 | 450 | 400 | 265 | - | 220 | 907 | 110 | 470 | 242 | 563 | 483 | 34 |
| M1421 | 500 | 380 | 50 | 590 | 530 | 460 | 300 | - | 260 | 1022 | 150 | 546 | 278 | 630 | 551 | 41 |

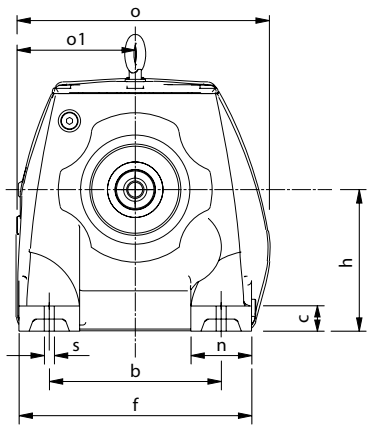
| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w |
| M0122 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0222 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0322 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0422 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0522 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0622 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x1.75 28 deep |
| M0722 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0822 | 28 k6 | 60 | 5 | 50 | 31 | 8 | M10 x 1.5 22 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0921 | 38 k6 | 80 | 5 | 70 | 41 | 10 | M12 x 1.75 28 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1021 | 42 k6 | 110 | 10 | 70 | 45 | 12 | M16 x 2.0 36 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1321 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1421 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

# DIMENSIONS - TRIPLE REDUCTION BASE MOUNT



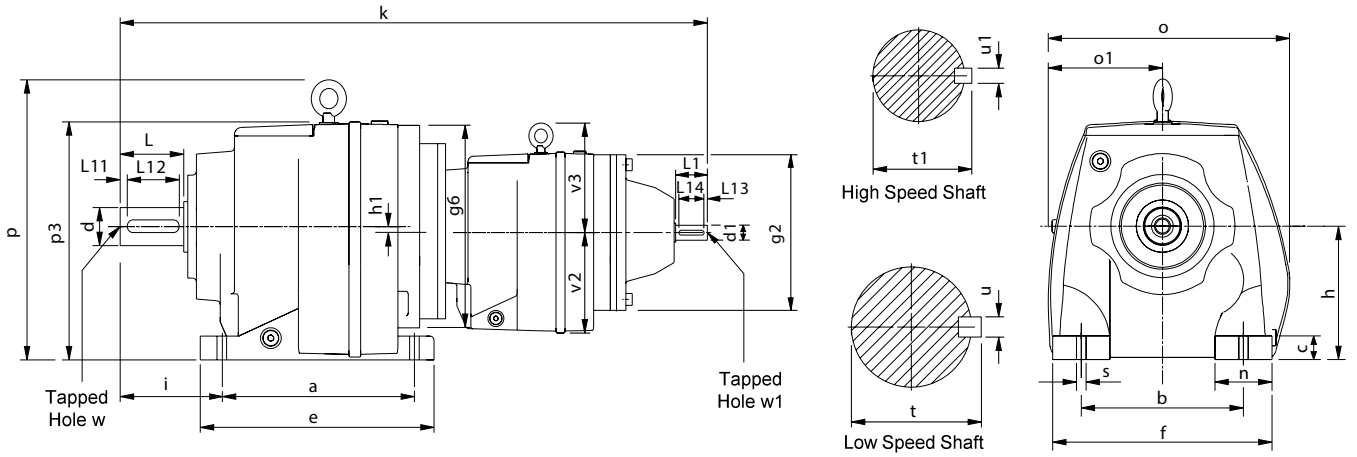




all parallel keys are to DIN 6885

| size | a | b | c | e | f | g2 | h | h1 | i | k | n | o | o1 | p | p3 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0132 | 110 | 110 | 12 | 131 | 135 | 140 | 75 | - | 58 | 301 | 25 | 152 | 76 | - | 149 | 10 |
| M0232 | 130 | 110 | 16 | 152 | 145 | 140 | 90 | - | 75 | 330 | 35 | 170 | 84 | - | 180 | 10 |
| M0332 | 130 | 110 | 16 | 152 | 145 | 140 | 90 | - | 75 | 330 | 35 | 170 | 84 | - | 180 | 10 |
| M0432 | 165 | 135 | 20 | 200 | 190 | 180 | 115 | - | 90 | 377 | 55 | 204 | 97 | - | 208 | 15 |
| M0532 | 165 | 135 | 20 | 200 | 190 | 180 | 115 | - | 100 | 387 | 55 | 204 | 97 | - | 208 | 15 |
| M0632 | 195 | 150 | 24 | 235 | 210 | 180 | 130 | 14.5 | 100 | 408 | 60 | 220 | 110 | 246 | 214 | 15 |
| M0732 | 205 | 170 | 25 | 245 | 230 | 212 | 140 | - | 115 | 452 | 60 | 252 | 119 | 295 | 250 | 19 |
| M0832 | 260 | 215 | 35 | 310 | 290 | 250 | 180 | - | 140 | 540 | 75 | 320 | 167 | 360 | 310 | 19 |
| M0931 | 310 | 250 | 40 | 365 | 340 | 250 | 225 | - | 160 | 662 | 90 | 372 | 200 | 433 | 394 | 23 |
| M1031 | 370 | 290 | 45 | 440 | 400 | 300 | 250 | - | 185 | 784 | 110 | 428 | 225 | 505 | 446 | 27 |
| M1331 | 410 | 340 | 50 | 490 | 450 | 400 | 265 | - | 220 | 969 | 110 | 470 | 242 | 563 | 483 | 34 |
| M1431 | 500 | 380 | 50 | 590 | 530 | 460 | 300 | - | 260 | 1094 | 150 | 546 | 278 | 630 | 551 | 41 |

| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w |
| M0132 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 20 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0232 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0332 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0432 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0532 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0632 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0732 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 40 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0832 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 50 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0931 | 28 k6 | 60 | 5 | 50 | 31 | 8 | M10 x 1.5 22 deep | 60 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1031 | 38 k6 | 80 | 5 | 70 | 41 | 10 | M12 x 1.75 28 deep | 70 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1331 | 42 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 90 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1431 | 42 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 100 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

# DIMENSIONS - QUADRUPLE REDUCTION BASE MOUNT

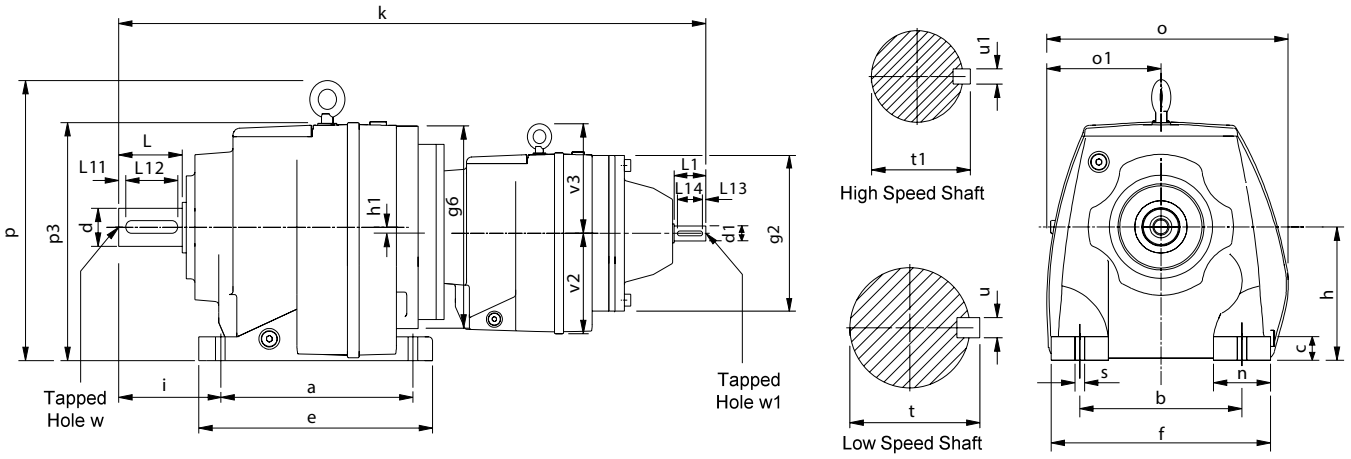



all parallel keys are to DIN 6885

| size | a | b | c | e | f | g2 | g6 | h | h1 | i | k | n | o | o1 | p | p3 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0342 | 130 | 110 | 16 | 152 | 145 | 140 | 140 | 90 | - | 75 | 503 | 35 | 170 | 84 | - | 180 | 10 | 76 | - |
| M0442 | 165 | 135 | 20 | 200 | 190 | 140 | 180 | 115 | - | 90 | 571 | 55 | 204 | 97 | - | 208 | 15 | 91 | - |
| M0542 | 165 | 135 | 20 | 200 | 190 | 140 | 180 | 115 | - | 100 | 581 | 55 | 204 | 97 | - | 208 | 15 | 91 | - |
| M0642 | 195 | 150 | 24 | 235 | 210 | 140 | 180 | 130 | 14.5 | 100 | 602 | 60 | 220 | 110 | 246 | 214 | 15 | 91 | - |
| M0742 | 205 | 170 | 25 | 245 | 230 | 140 | 212 | 140 | - | 115 | 639 | 60 | 252 | 119 | 295 | 250 | 19 | 91 | - |
| M0842 | 260 | 215 | 35 | 310 | 290 | 180 | 250 | 180 | - | 140 | 751 | 75 | 320 | 167 | 360 | 310 | 19 | 115 | - |
| M0941 | 310 | 250 | 40 | 365 | 340 | 180 | 250 | 225 | - | 160 | 832 | 90 | 372 | 200 | 433 | 394 | 23 | 113 | - |
| M1041 | 370 | 290 | 45 | 440 | 400 | 180 | 300 | 250 | - | 185 | 956 | 110 | 428 | 225 | 505 | 446 | 27 | 138 | 155 |
| M1341 | 410 | 340 | 50 | 490 | 450 | 212 | 350 | 265 | - | 220 | 1077 | 110 | 470 | 242 | 563 | 483 | 34 | 187 | 155 |
| M1441 | 500 | 380 | 50 | 590 | 530 | 212 | 350 | 300 | - | 260 | 1192 | 150 | 546 | 278 | 630 | 551 | 41 | 187 | 155 |

| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w |
| M0342 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0442 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0542 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0642 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0742 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0842 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0941 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1041 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1341 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1441 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

# DIMENSIONS - QUINTUPLE REDUCTION BASE MOUNT

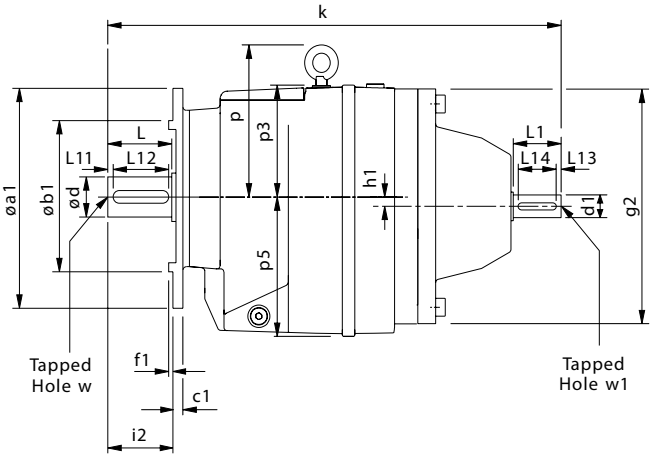


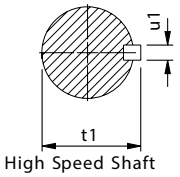

all parallel keys are to DIN 6885

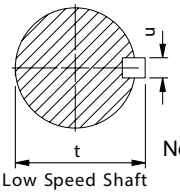
| size | a | b | c | e | f | g2 | g6 | h | h1 | i | k | n | o | o1 | p | p3 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0352 | 130 | 110 | 16 | 152 | 145 | 140 | 140 | 90 | - | 75 | 518 | 35 | 170 | 84 | - | 180 | 10 | 76 | - |
| M0452 | 165 | 135 | 20 | 200 | 190 | 140 | 180 | 115 | - | 90 | 584 | 55 | 204 | 97 | - | 208 | 15 | 91 | - |
| M0552 | 165 | 135 | 20 | 200 | 190 | 140 | 180 | 115 | - | 100 | 594 | 55 | 204 | 97 | - | 208 | 15 | 91 | - |
| M0652 | 195 | 150 | 24 | 235 | 210 | 140 | 180 | 130 | 14.5 | 100 | 615 | 60 | 220 | 110 | 246 | 214 | 15 | 91 | - |
| M0752 | 205 | 170 | 25 | 245 | 230 | 140 | 212 | 140 | - | 115 | 651 | 60 | 252 | 119 | 295 | 250 | 19 | 91 | - |
| M0852 | 260 | 215 | 35 | 310 | 290 | 180 | 250 | 180 | - | 140 | 759 | 75 | 320 | 167 | 360 | 310 | 19 | 115 | - |
| M0951 | 310 | 250 | 40 | 365 | 340 | 180 | 250 | 225 | - | 160 | 840 | 90 | 372 | 200 | 433 | 394 | 23 | 113 | - |
| M1051 | 370 | 290 | 45 | 440 | 400 | 180 | 300 | 250 | - | 185 | 968 | 110 | 428 | 225 | 505 | 446 | 27 | 138 | 155 |
| M1351 | 410 | 340 | 50 | 490 | 450 | 212 | 350 | 265 | - | 220 | 1089 | 110 | 470 | 242 | 563 | 483 | 34 | 187 | 155 |
| M1451 | 500 | 380 | 50 | 590 | 530 | 212 | 350 | 300 | - | 260 | 1204 | 150 | 546 | 278 | 630 | 551 | 41 | 187 | 155 |

| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w |
| M0352 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0452 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0552 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0652 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0752 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0852 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0951 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1051 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1351 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 5 0 deep |
| M1451 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

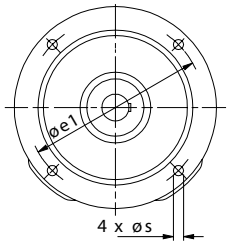
# DIMENSIONS - DOUBLE REDUCTION FLANGE MOUNT



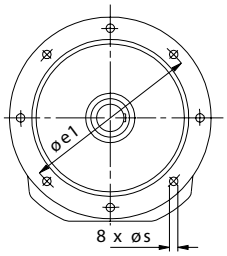




**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**



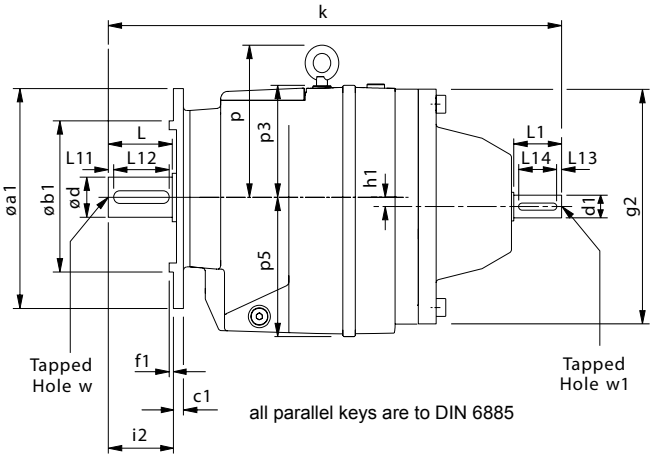

Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

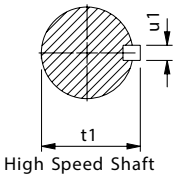
all parallel keys are to DIN 6885

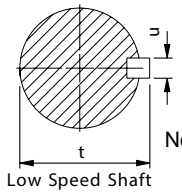
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0122 | 120 | 80 | 9 | 100 | 3 | 140 | - | 40 | 286 | - | 74 | 76 | 7 |
| | 140 | 95 | 9 | 115 | 3 | | | 40 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 40 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 40 | | | | | 11 |
| M0222 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 317 | - | 90 | 91 | 6.6 |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 |
| M0322 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 317 | - | 90 | 91 | 6.6 |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 |
| M0422 | 140 | 95 | 11 | 115 | 3 | 180 | - | 60 | 369 | - | 93 | 115 | 9 |
| | 160 | 110 | 11 | 130 | 3.5 | | | 60 | | | | | 9 |
| | 200 | 130 | 11 | 165 | 3.5 | | | 60 | | | | | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 60 | | | | | 13.5 |
| M0522 | 140 | 95 | 11 | 115 | 3 | 180 | - | 70 | 379 | - | 93 | 115 | 9 |
| | 160 | 110 | 11 | 130 | 3.5 | | | 70 | | | | | 9 |
| | 200 | 130 | 11 | 165 | 3.5 | | | 70 | | | | | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 |
| M0622 | 200 | 130 | 11 | 165 | 4 | 180 | 14.5 | 70 | 400 | 116 | 84 | 130 | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 |
| | 300 | 230 | 11 | 265 | 4 | | | 70 | | | | | 13.5 |
| M0722 | 200 | 130 | 11 | 165 | 3.5 | 212 | - | 80 | 440 | 155 | 110 | 140 | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 80 | | | | | 13.5 |
| | 300 | 230 | 11 | 265 | 4 | | | 80 | | | | | 13.5 |
| M0822 | 300 | 230 | 17 | 265 | 4 | 250 | - | 100 | 55 | 180 | 130 | 182 | 13.5 |
| | 350 | 250 | 17 | 300 | 5 | | | 100 | | | | | 17.5 |
| M0921 | 450 | 350 | 18 | 400 | 5 | 300 | - | 140 | 660 | 198 | - | 230 | 18 |
| M1021 | 450 | 350 | 22 | 400 | 5 | 360 | - | 140 | 782 | 245 | - | 260 | 18 |
| M1321 | 550 | 450 | 25 | 500 | 5 | 400 | - | 170 | 907 | 288 | - | 278 | 18 |
| M1421 | 550 | 450 | 25 | 500 | 5 | 460 | - | 210 | 1022 | 320 | - | 318 | 18 |

| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w1 |
| M0122 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0222 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0322 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0422 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0522 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0622 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0722 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0822 | 28 k6 | 60 | 5 | 50 | 31 | 8 | M10 x 1.5 22 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0921 | 38 k6 | 80 | 5 | 70 | 41 | 10 | M12 x 1.75 28 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1021 | 42 k6 | 110 | 10 | 70 | 45 | 12 | M16 x 2.0 36 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1321 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1421 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

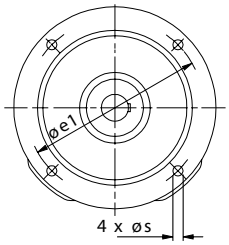
# DIMENSIONS - TRIPLE REDUCTION FLANGE MOUNT



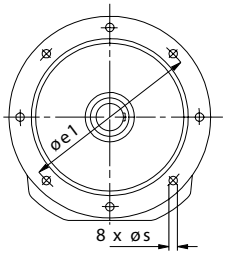




**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**

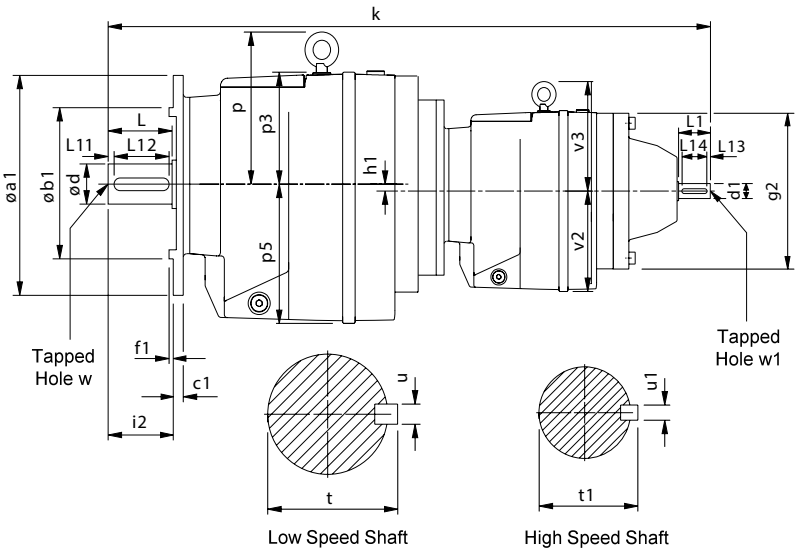



Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

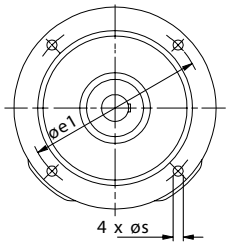
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0132 | 120 | 80 | 9 | 100 | 3 | 140 | - | 40 | 301 | - | 74 | 76 | 7 |
| | 140 | 95 | 9 | 115 | 3 | | | 40 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 40 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 40 | | | | | 11 |
| M0232 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 330 | - | 90 | 91 | 6.6 |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 |
| M0332 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 330 | - | 90 | 91 | 6.6 |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 |
| M0432 | 140 | 95 | 11 | 115 | 3 | 180 | - | 60 | 377 | - | 93 | 115 | 9 |
| | 160 | 110 | 11 | 130 | 3.5 | | | 60 | | | | | 9 |
| | 200 | 130 | 11 | 165 | 3.5 | | | 60 | | | | | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 60 | | | | | 13.5 |
| M0532 | 140 | 95 | 11 | 115 | 3 | 180 | - | 70 | 387 | - | 93 | 115 | 9 |
| | 160 | 110 | 11 | 130 | 3.5 | | | 70 | | | | | 9 |
| | 200 | 130 | 11 | 165 | 3.5 | | | 70 | | | | | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 |
| M0632 | 200 | 130 | 11 | 165 | 4 | 180 | 14.5 | 70 | 408 | 116 | 84 | 130 | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 |
| | 300 | 230 | 11 | 265 | 4 | | | 70 | | | | | 13.5 |
| M0732 | 200 | 130 | 11 | 165 | 3.5 | 212 | - | 80 | 452 | 155 | 110 | 140 | 11 |
| | 250 | 180 | 11 | 215 | 4 | | | 80 | | | | | 13.5 |
| | 300 | 230 | 11 | 265 | 4 | | | 80 | | | | | 13.5 |
| M0832 | 300 | 230 | 17 | 265 | 4 | 250 | - | 100 | 540 | 180 | 130 | 182 | 13.5 |
| | 350 | 250 | 17 | 300 | 5 | | | 100 | | | | | 17.5 |
| M0931 | 450 | 350 | 18 | 400 | 5 | 300 | - | 140 | 662 | 198 | - | 230 | 18 |
| M1031 | 450 | 350 | 22 | 400 | 5 | 360 | - | 140 | 784 | 245 | - | 260 | 18 |
| M1331 | 550 | 450 | 25 | 500 | 5 | 400 | - | 170 | 969 | 288 | - | 278 | 18 |
| M1431 | 550 | 450 | 25 | 500 | 5 | 460 | - | 210 | 1094 | 320 | - | 318 | 18 |

| Size | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w1 |
| M0132 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 x 1 16 deep |
| M0232 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0332 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0432 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0532 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0632 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0732 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 19 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0832 | 24 k6 | 50 | 5 | 40 | 27 | 6 | M8 x 1.25 22 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0931 | 28 k6 | 60 | 5 | 50 | 31 | 8 | M10 x 1.5 28 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1031 | 38 k6 | 80 | 5 | 70 | 41 | 10 | M12 x 1.75 36 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1331 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1431 | 55 m6 | 110 | 10 | 90 | 59 | 16 | M20 x 2.5 42 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

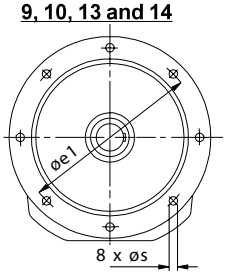
# DIMENSIONS - QUADRUPLE REDUCTION FLANGE MOUNT




**Sizes 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**



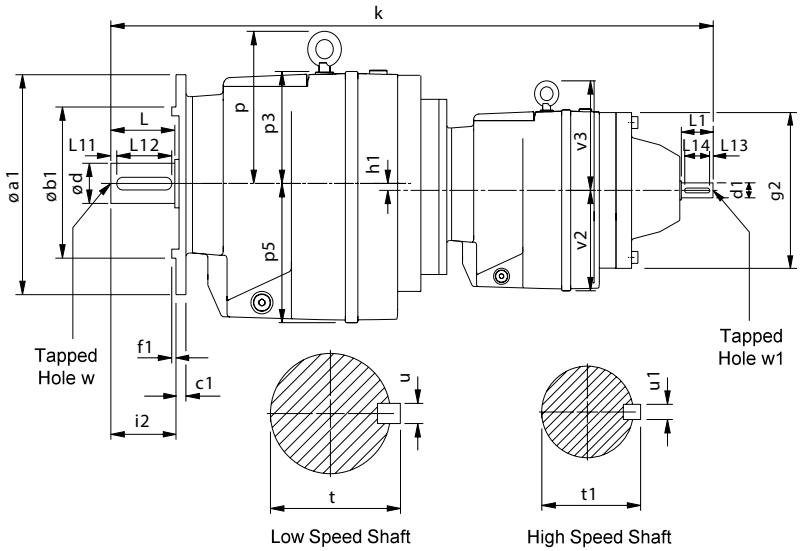

Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

all parallel keys are to DIN 6885

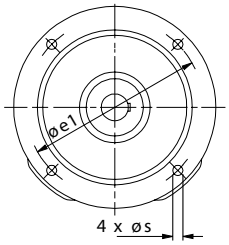
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0342 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 503 | - | 90 | 91 | 6.6 | 76 | - |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 | | |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 | | |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 | | |
| M0442 | 140 | 95 | 11 | 115 | 3 | 140 | - | 60 | 571 | - | 93 | 115 | 9 | 91 | - |
| | 160 | 110 | 11 | 130 | 3.5 | | | 60 | | | | | 9 | | |
| | 200 | 130 | 11 | 165 | 3.5 | | | 60 | | | | | 11 | | |
| | 250 | 180 | 11 | 215 | 4 | | | 60 | | | | | 13.5 | | |
| M0542 | 140 | 95 | 11 | 115 | 3 | 140 | - | 70 | 581 | - | 93 | 115 | 9 | 91 | - |
| | 160 | 110 | 11 | 130 | 3.5 | | | 70 | | | | | 9 | | |
| | 200 | 130 | 11 | 165 | 3.5 | | | 70 | | | | | 11 | | |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 | | |
| M0642 | 200 | 130 | 11 | 165 | 4 | 140 | 14.5 | 70 | 602 | 116 | 84 | 130 | 11 | 91 | - |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 | | |
| | 300 | 230 | 11 | 265 | 4 | | | 70 | | | | | 13.5 | | |
| M0742 | 200 | 130 | 11 | 165 | 3.5 | 140 | - | 80 | 639 | 155 | 110 | 140 | 11 | 91 | - |
| | 250 | 180 | 11 | 215 | 4 | | | 80 | | | | | 13.5 | | |
| | 300 | 230 | 11 | 265 | 4 | | | 80 | | | | | 13.5 | | |
| M0842 | 300 | 230 | 17 | 265 | 4 | 180 | - | 100 | 751 | 180 | 130 | 182 | 13.5 | 115 | - |
| | 350 | 250 | 17 | 300 | 5 | | | 100 | | | | | 17.5 | | |
| M0941 | 450 | 350 | 18 | 400 | 5 | 180 | - | 140 | 832 | 198 | - | 230 | 18 | 115 | - |
| M1041 | 450 | 350 | 22 | 400 | 5 | 212 | - | 140 | 956 | 245 | - | 260 | 18 | 140 | 155 |
| M1341 | 550 | 450 | 25 | 500 | 5 | 212 | - | 170 | 1077 | 288 | - | 278 | 18 | 140 | 155 |
| M1441 | 550 | 450 | 25 | 500 | 5 | 212 | - | 210 | 1192 | 320 | - | 318 | 18 | 140 | 155 |

| Size | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w1 |
| M0342 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0442 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0542 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0642 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0742 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0842 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0941 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1041 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1341 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1441 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8 x 1.25 19 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

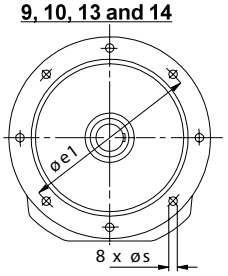
# DIMENSIONS - QUINTUPLE REDUCTION FLANGE MOUNT




**Sizes 3, 4, 5, 6, 7 and 8**




**Sizes 9, 10, 13 and 14**




Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

all parallel keys are to DIN 6885

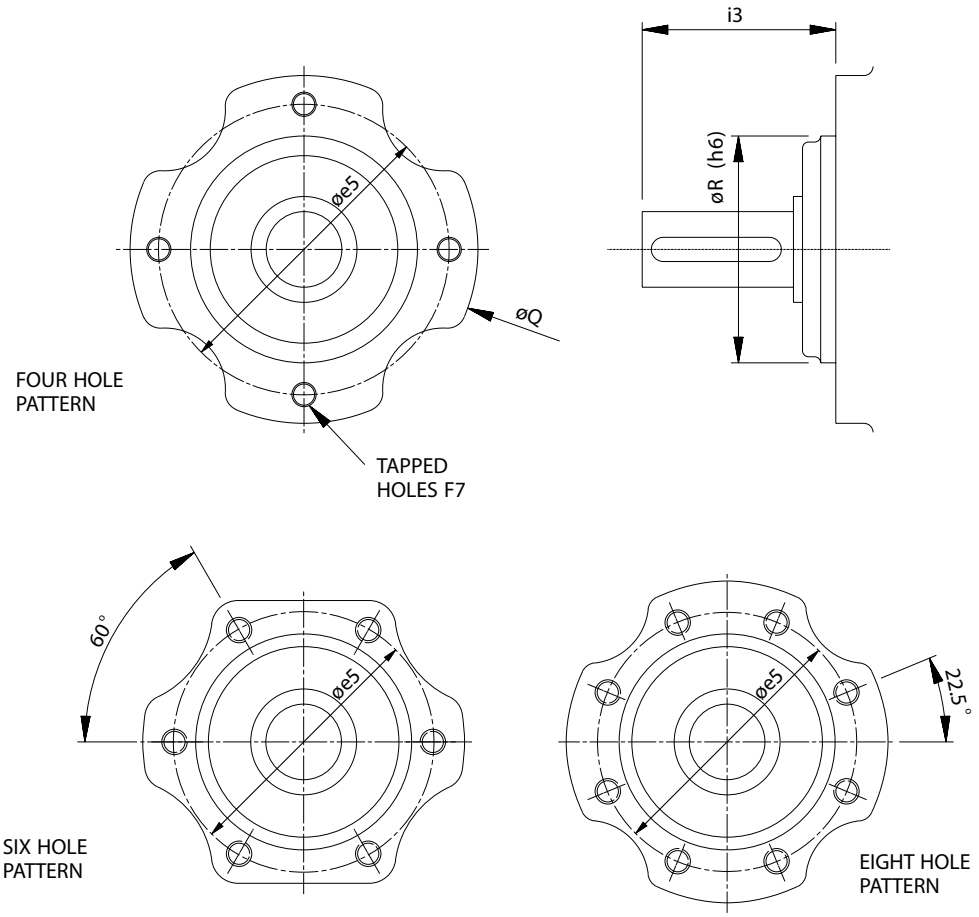
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0352 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 518 | - | 90 | 91 | 6.6 | 76 | - |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 | | |
| | 160 | 110 | 10 | 130 | 3.5 | | | 50 | | | | | 9 | | |
| | 200 | 130 | 10 | 165 | 3.5 | | | 50 | | | | | 11 | | |
| M0452 | 140 | 95 | 11 | 115 | 3 | 140 | - | 60 | 584 | - | 93 | 115 | 9 | 91 | - |
| | 160 | 110 | 11 | 130 | 3.5 | | | 60 | | | | | 9 | | |
| | 200 | 130 | 11 | 165 | 3.5 | | | 60 | | | | | 11 | | |
| | 250 | 180 | 11 | 215 | 4 | | | 60 | | | | | 13.5 | | |
| M0552 | 140 | 95 | 11 | 115 | 3 | 140 | - | 70 | 594 | - | 93 | 115 | 9 | 91 | - |
| | 160 | 110 | 11 | 130 | 3.5 | | | 70 | | | | | 9 | | |
| | 200 | 130 | 11 | 165 | 3.5 | | | 70 | | | | | 11 | | |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 | | |
| M0652 | 200 | 130 | 11 | 165 | 4 | 140 | 14.5 | 70 | 615 | 116 | 84 | 130 | 11 | 91 | - |
| | 250 | 180 | 11 | 215 | 4 | | | 70 | | | | | 13.5 | | |
| | 300 | 230 | 11 | 265 | 4 | | | 70 | | | | | 13.5 | | |
| M0752 | 200 | 130 | 11 | 165 | 3.5 | 140 | - | 80 | 651 | 155 | 110 | 140 | 11 | 91 | - |
| | 250 | 180 | 11 | 215 | 4 | | | 80 | | | | | 13.5 | | |
| | 300 | 230 | 11 | 265 | 4 | | | 80 | | | | | 13.5 | | |
| M0852 | 300 | 230 | 17 | 265 | 4 | 180 | - | 100 | 759 | 180 | 130 | 182 | 13.5 | 115 | - |
| | 350 | 250 | 17 | 300 | 5 | | | 100 | | | | | 17.5 | | |
| M0951 | 450 | 350 | 18 | 400 | 5 | 180 | - | 140 | 840 | 198 | - | 230 | 18 | 115 | - |
| M1051 | 450 | 350 | 22 | 400 | 5 | 212 | - | 140 | 968 | 245 | - | 260 | 18 | 140 | 155 |
| M1351 | 550 | 450 | 25 | 500 | 5 | 212 | - | 170 | 1089 | 288 | - | 278 | 18 | 140 | 155 |
| M1451 | 550 | 450 | 25 | 500 | 5 | 212 | - | 210 | 1204 | 320 | - | 318 | 18 | 140 | 155 |

| Size | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w1 |
| M0352 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 25 k6 | 50 | 4 | 40 | 28 | 8 | M10 x 1.5 22 deep |
| M0452 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 30 k6 | 60 | 4 | 50 | 33 | 8 | M10 x 1.5 22 deep |
| M0552 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0652 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 35 k6 | 70 | 7 | 60 | 38 | 10 | M12 x 1.75 28 deep |
| M0752 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 40 k6 | 80 | 5 | 70 | 43 | 12 | M16 x 2.0 36 deep |
| M0852 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 50 k6 | 100 | 10 | 80 | 53.5 | 14 | M16 x 2.0 36 deep |
| M0951 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 60 m6 | 120 | 10 | 100 | 64 | 18 | M20 x 2.5 42 deep |
| M1051 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 70 m6 | 140 | 15 | 110 | 74.5 | 20 | M20 x 2.5 42 deep |
| M1351 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 90 m6 | 170 | 15 | 140 | 95 | 25 | M24 x 3.0 50 deep |
| M1451 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6 x 1.0 16 deep | 100 m6 | 210 | 15 | 180 | 106 | 28 | M24 x 3.0 50 deep |

# DIMENSIONS - C-FLANGE (B14) MOUNTING

**Column 9 Entry**

| | |
|---|---|
| E | C-Flange (B14) Mounting (For sizes M01 to M08 only) |
| V | Base and C-Flange (B14) Mounting (non standard - special orders only) |




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

| SIZE | Øe5 | F7 | i3 | ØQ | ØR |
|---|---|---|---|---|---|
| M01 | 75 pcd | 4 Holes M8 x 1.25 12 Deep | 54 | 98 | 52 |
| M02 / M03 | 96 pcd | 4 Holes M8 x 1.25 15 Deep | 62 / 62 | 115 | 75 |
| M04 / M05 | 105 pcd | 4 Holes M12 x 1.75 21 Deep | 74 / 84 | 130 | 85 |
| M06 / M07 | 124 pcd | 6 Holes M12 x 1.75 21 Deep | 84 / 94 | 152 | 102 |
| M08 | 170 pcd | 8 Holes M12 x 1.75 21 Deep | 120 | 195 | 145 |

# 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 premature gear failure.

Thermal rating are based on an ambient temperature of 20°C, where units are to operate in other ambient temperatures thermal ratings must be adjusted by the following factors

| Unit Size | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 |
| All Units | 1.57 | 1.43 | 1.29 | 1.14 | 1.00 | 0.86 | 0.71 | 0.5 |

**Thermal Power (kW) - Two Stage Units**

| Overall Ratios | Type Of Cooling | Input rev/min | Unit Size | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | M01 | M02 | M03 | M04 | M05 | M06 | M07 | M08 | M09 | M10 | M13 | M14 |
| 1.4 to 5.6 | Units with no additional cooling | 2900 | Consult Application Engineering | | | | | | | | | | | |
| | | 1450 | 4.1 | 6 | 6 | 9.9 | 9.9 | 11.5 | 14.5 | 22 | 31 | 42 | 54 | 73 |
| | | 960 | 4 | 5.7 | 5.7 | 9.5 | 9.5 | 11 | 13.8 | 21 | 30 | 40 | 51 | 70 |
| | | 725 | 3.9 | 5.6 | 5.6 | 9.2 | 9.2 | 10.6 | 13.4 | 20 | 29 | 39 | 50 | 68 |
| 6.3 & over | Units with no additional cooling | 2900 | 3 | 4.4 | 4.4 | 7.2 | 7.2 | 8.3 | 10.5 | 16 | 23 | 31 | 39 | 53 |
| | | 1450 | 4.1 | 5.8 | 5.8 | 9.8 | 9.8 | 11.3 | 14.2 | 22 | 31 | 42 | 53 | 72 |
| | | 960 | 3.9 | 5.5 | 5.5 | 9.4 | 9.4 | 10.8 | 13.6 | 21 | 29 | 40 | 50 | 69 |
| | | 725 | 3.8 | 5.4 | 5.4 | 9.1 | 9.1 | 10.5 | 13.1 | 20 | 28 | 38 | 49 | 67 |
| 1.4 to 5.6 | Units with Fan cooling | 2900 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 1450 | - | - | - | - | - | - | 29 | 44 | 63 | 85 | 107 | 146 |
| | | 960 | - | - | - | - | - | - | 25 | 39 | 55 | 74 | 94 | 128 |
| | | 725 | - | - | - | - | - | - | 22 | 33 | 47 | 63 | 81 | 110 |
| 6.3 & over | Units with Fan cooling | 2900 | - | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| | | 1450 | - | - | - | - | - | - | 28 | 43 | 62 | 83 | 105 | 144 |
| | | 960 | - | - | - | - | - | - | 25 | 38 | 54 | 73 | 92 | 126 |
| | | 725 | - | - | - | - | - | - | 21 | 33 | 46 | 62 | 79 | 108 |

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

**Column 10 Entry**

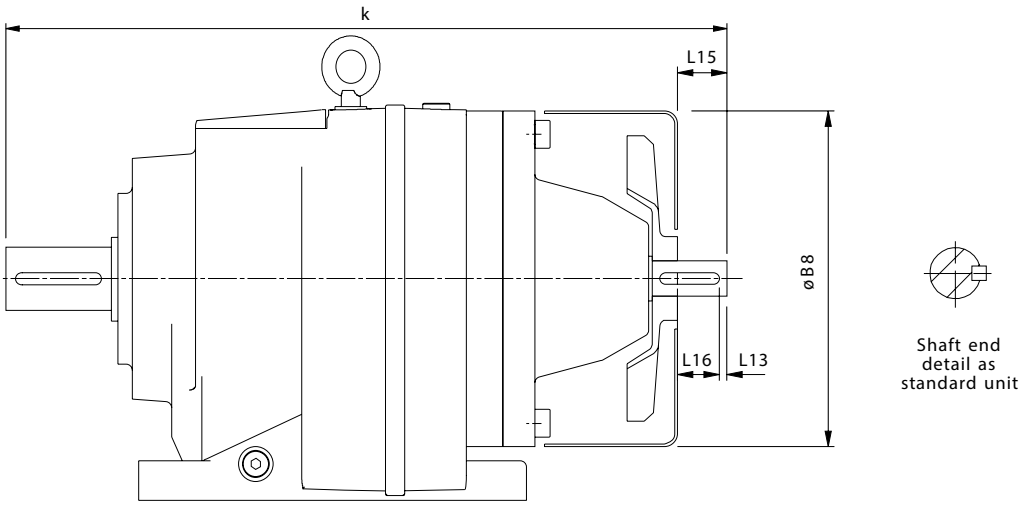
For reducer fan kit modules enter [S] in column 10

or if used in conjunction with a reducer backstop module kit [Y] CW rotation

[Z] CCW rotation

## Dimensions of Fan Cooled Units

## Double Reduction Units




| Unit Size | ØB8 | k | L13 | L15 | L16 |
|---|---|---|---|---|---|
| M0722 | 225 | 440 | 5 | 35 | 30 |
| M0822 | 265 | 555 | 5 | 45 | 40 |
| M0921 | 320 | 660 | 5 | 65 | 60 |
| M1021 | 380 | 782 | 10 | 95 | 85 |
| M1321 | 420 | 907 | 10 | 85 | 75 |
| M1421 | 480 | 1022 | 10 | 85 | 75 |

# REDUCER BACKSTOP MODULE

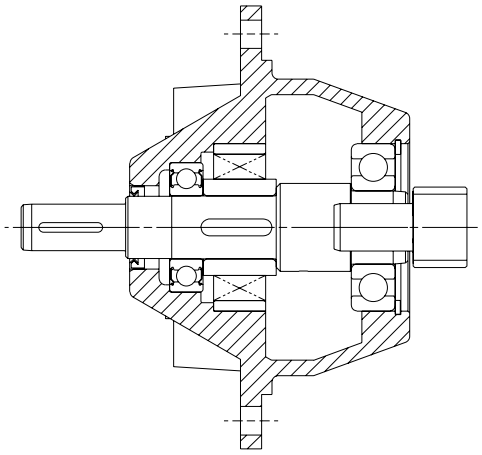
The reducer units listed below can be fitted with an internal backstop, this has no effect of the external unit size. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation input speed must exceed lift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

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

**Column 10 Entry**

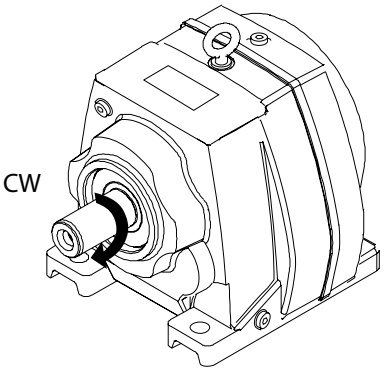
For reducer backstop modules enter [W] for CCW rotation (or [Z] if used in conjunction with a fan kit)
[X] for CW rotation (or [Y] if used in conjunction with a fan kit)

| Unit Size | Lift off Speed ('n' min) (at inputshaft) (rev/min) | Rated Locking Torque ('T max') (at inputshaft) (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 |
| M0921 | 620 | 940 |
| M0931 | 670 | 300 |
| M1021 | 550 | 1260 |
| M1031 | 670 | 300 |
| M1321 | 550 | 2400 |
| M1331 | 550 | 2400 |
| M1421 | 550 | 2400 |
| M1431 | 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

**BASE MOUNT UNITS**

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REDUCER VERSION | | | 8.2 | 8.8 | 12 | 13 | 12 | 13 | 21.1 | 21.7 | 22 | 22 | 33 | 34 | 22 | 22 | 35 | 36 | 27 | 27 | 40 | 41 | 38 |
| MOTORISED | 63 | Without Motor | 8.9 | 11 | 12 | 14 | 12 | 14 | 22 | 23 | | 24 | 36 | 37 | | 24 | 36 | 37 | | 29 | 41 | 43 | |
| | | With Motor | 13 | 15 | 17 | 18 | 17 | 18 | 26 | 28 | | 28 | 40 | 42 | | 28 | 40 | 42 | | 33 | 45 | 47 | |
| | 71 | Without Motor | 8.5 | 10 | 12 | 14 | 12 | 14 | 21 | 23 | | 23 | 35 | 37 | | 23 | 35 | 37 | | 29 | 41 | 42 | |
| | | With Motor | 15 | 17 | 19 | 20 | 19 | 20 | 28 | 29 | | 30 | 42 | 43 | | 30 | 42 | 44 | | 35 | 47 | 49 | |
| | 80A | Without Motor | 9.0 | 12 | 13 | 14 | 13 | 14 | 22 | 23 | 21 | 24 | 36 | 37 | 22 | 24 | 36 | 38 | 27 | 29 | 41 | 43 | 34 |
| | | With Motor | 19 | 21 | 22 | 24 | 22 | 24 | 31 | 33 | 31 | 33 | 45 | 47 | 31 | 33 | 45 | 47 | 36 | 39 | 51 | 52 | 44 |
| | 80B | Without Motor | 9.0 | 12 | 13 | 14 | 13 | 14 | 22 | 23 | 21 | 24 | 36 | 37 | 22 | 24 | 36 | 38 | 27 | 29 | 41 | 43 | 34 |
| | | With Motor | 20 | 23 | 24 | 25 | 24 | 25 | 33 | 34 | 32 | 35 | 47 | 48 | 33 | 35 | 47 | 49 | 38 | 40 | 52 | 54 | 45 |
| | 90S | Without Motor | 10 | 12 | 13 | 16 | 13 | 15 | 23 | 24 | 22 | 24 | 37 | 38 | 23 | 25 | 37 | 38 | 28 | 30 | 42 | 44 | 35 |
| | | With Motor | 23 | 25 | 27 | 30 | 27 | 28 | 36 | 38 | 36 | 38 | 50 | 52 | 36 | 38 | 50 | 52 | 41 | 43 | 55 | 57 | 48 |
| | 90L | Without Motor | 10 | 12 | 13 | 16 | 13 | 15 | 23 | 24 | 22 | 24 | 37 | 38 | 23 | 25 | 37 | 38 | 28 | 30 | 42 | 44 | 35 |
| | | With Motor | 24 | 26 | 28 | 31 | 28 | 29 | 37 | 39 | 37 | 39 | 51 | 53 | 37 | 39 | 51 | 53 | 42 | 44 | 56 | 58 | 49 |
| | 100L | Without Motor | 12 | | 15 | | 15 | | | | 25 | | | | 25 | | | | 31 | | | | 38 |
| | | With Motor | 36 | | 39 | | 39 | | | | 49 | | | | 51 | | | | 54 | | | | 62 |
| | 112M | Without Motor | 12 | | 15 | | 15 | | | | 25 | | | | 25 | | | | 31 | | | | 38 |
| | | With Motor | 43 | | 46 | | 46 | | | | 56 | | | | 56 | | | | 62 | | | | 69 |
| | 132S | Without Motor | | | | | | | | | | | | | | | | | | | | | 40 |
| | | With Motor | | | | | | | | | | | | | | | | | | | | | 88 |
| | 132M | Without Motor | | | | | | | | | | | | | | | | | | | | | 40 |
| | | With Motor | | | | | | | | | | | | | | | | | | | | | 92 |
| | 160M | Without Motor | | | | | | | | | | | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | | | | | | | | | | | |
| | 160L | Without Motor | | | | | | | | | | | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | | | | | | | | | | | |

ALL WEIGHTS IN KG ALL WEIGHTS EXCLUDE LUBRICANT

# SHIPPING SPECIFICATION

**BASE MOUNT UNITS**

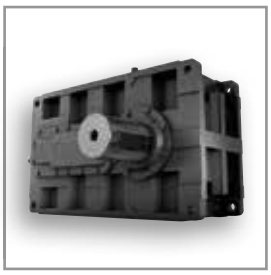
| UNIT SIZE & No OF REDUCTIONS | | | M0732 | M0742 | M0752 | M0822 | M0832 | M0842 | M0852 | M0921 | M0931 | M0941 | M0951 | M1021 | M1031 | M1041 | M1051 | M1321 | M1331 | M1341 | M1351 | M1421 | M1431 | M1441 | M1451 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REDUCER VERSION | | | 39 | 48 | 49 | 67 | 74 | 96 | 96 | 114 | 123 | 140 | 140 | 170 | 179 | 204 | 206 | 248 | 270 | 279 | 280 | 360 | 405 | 395 | 396 |
| MOTORISED | 80A | Without Motor | 39 | 48 | 52 | 73 | 71 | 96 | 99 | 117 | 127 | 145 | 148 | | 182 | 194 | 199 | | | 336 | 342 | | | 446 | 452 |
| | | With Motor | 49 | 57 | 61 | 82 | 81 | 106 | 108 | 127 | 137 | 154 | 157 | | 192 | 203 | 209 | | | 346 | 351 | | | 456 | 461 |
| | 80B | Without Motor | 39 | 48 | 52 | 73 | 71 | 96 | 99 | 117 | 127 | 145 | 148 | | 182 | 194 | 199 | | | 336 | 342 | | | 446 | 452 |
| | | With Motor | 50 | 59 | 63 | 84 | 82 | 107 | 110 | 128 | 138 | 156 | 159 | | 193 | 205 | 210 | | | 347 | 353 | | | 457 | 463 |
| | 90S | Without Motor | 40 | 48 | 52 | 73 | 72 | 97 | 100 | 117 | 127 | 145 | 149 | | 182 | 194 | 200 | | | 337 | 342 | | | 445 | 450 |
| | | With Motor | 53 | 62 | 66 | 86 | 85 | 110 | 113 | 131 | 141 | 159 | 162 | | 196 | 208 | 213 | | | 350 | 356 | | | 458 | 464 |
| | 90L | Without Motor | 40 | 48 | 52 | 73 | 72 | 97 | 100 | 117 | 127 | 145 | 149 | | 182 | 194 | 200 | | | 337 | 342 | | | 445 | 450 |
| | | With Motor | 54 | 63 | 67 | 87 | 86 | 111 | 114 | 132 | 142 | 160 | 163 | | 197 | 209 | 214 | | | 351 | 357 | | | 459 | 465 |
| | 100L | Without Motor | 39 | | | 73 | 75 | 97 | | 117 | 127 | 145 | | 163 | 182 | 197 | 203 | 239 | 271 | 340 | 345 | 344 | 394 | 450 | 455 |
| | | With Motor | 63 | | | 97 | 99 | 121 | | 141 | 151 | 169 | | 187 | 206 | 221 | 227 | 263 | 295 | 364 | 369 | 368 | 418 | 474 | 479 |
| | 112M | Without Motor | 43 | | | 73 | 75 | | | 117 | 127 | | | 163 | 182 | 197 | 203 | 239 | 271 | 340 | 345 | 344 | 394 | 450 | 455 |
| | | With Motor | 74 | | | 104 | 106 | | | 148 | 158 | | | 194 | 213 | 228 | 234 | 270 | 302 | 371 | 376 | 375 | 425 | 481 | 486 |
| | 132S | Without Motor | | | | 72 | | | | 117 | | | | 163 | 182 | 199 | | 239 | 271 | 342 | 347 | 344 | 394 | 452 | |
| | | With Motor | | | | 120 | | | | 165 | | | | 211 | 230 | 247 | | 287 | 319 | 390 | 395 | 392 | 442 | 500 | |
| | 132M | Without Motor | | | | 72 | | | | 117 | | | | 163 | 182 | 199 | | 239 | 271 | 342 | 347 | 344 | 394 | 452 | |
| | | With Motor | | | | 124 | | | | 169 | | | | 215 | 234 | 251 | | 291 | 323 | 394 | 399 | 396 | 446 | 504 | |
| | 160M | Without Motor | | | | 72 | | | | 124 | | | | 172 | 189 | | | 247 | 279 | | | 357 | 402 | | |
| | | With Motor | | | | 153 | | | | 205 | | | | 253 | 270 | | | 328 | 360 | | | 438 | 483 | | |
| | 160L | Without Motor | | | | 72 | | | | 124 | | | | 172 | 189 | | | 247 | 279 | | | 357 | 402 | | |
| | | With Motor | | | | 167 | | | | 219 | | | | 267 | 284 | | | 342 | 374 | | | 452 | 497 | | |
| | 180M | Without Motor | | | | | | | | 124 | | | | 172 | 189 | | | 247 | 279 | | | 357 | 402 | | |
| | | With Motor | | | | | | | | 291 | | | | 339 | 356 | | | 414 | 446 | | | 524 | 569 | | |
| | 180L | Without Motor | | | | | | | | 124 | | | | 172 | 189 | | | 247 | 279 | | | 357 | 402 | | |
| | | With Motor | | | | | | | | 305 | | | | 353 | 370 | | | 428 | 460 | | | 538 | 583 | | |
| | 200L | Without Motor | | | | | | | | 124 | | | | 172 | | | | 247 | 279 | | | 357 | 402 | | |
| | | With Motor | | | | | | | | 356 | | | | 404 | | | | 479 | 511 | | | 589 | 634 | | |
| | 225S | Without Motor | | | | | | | | 138 | | | | 186 | | | | 261 | 293 | | | 371 | 416 | | |
| | | With Motor | | | | | | | | 425 | | | | 473 | | | | 548 | 580 | | | 658 | 703 | | |
| | 225M | Without Motor | | | | | | | | 138 | | | | 186 | | | | 261 | 293 | | | 371 | 416 | | |
| | | With Motor | | | | | | | | 460 | | | | 508 | | | | 583 | 615 | | | 693 | 738 | | |
| | 250M | Without Motor | | | | | | | | | | | | | | | | 310 | | | | 420 | | | |
| | | With Motor | | | | | | | | | | | | | | | | 695 | | | | 805 | | | |
| | 280S | Without Motor | | | | | | | | | | | | | | | | 310 | | | | 420 | | | |
| | | With Motor | | | | | | | | | | | | | | | | 820 | | | | 930 | | | |
| | 280M | Without Motor | | | | | | | | | | | | | | | | 310 | | | | 420 | | | |
| | | With Motor | | | | | | | | | | | | | | | | 910 | | | | 1020 | | | |

ALL WEIGHTS IN KG ALL WEIGHTS EXCLUDE LUBRICANT









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