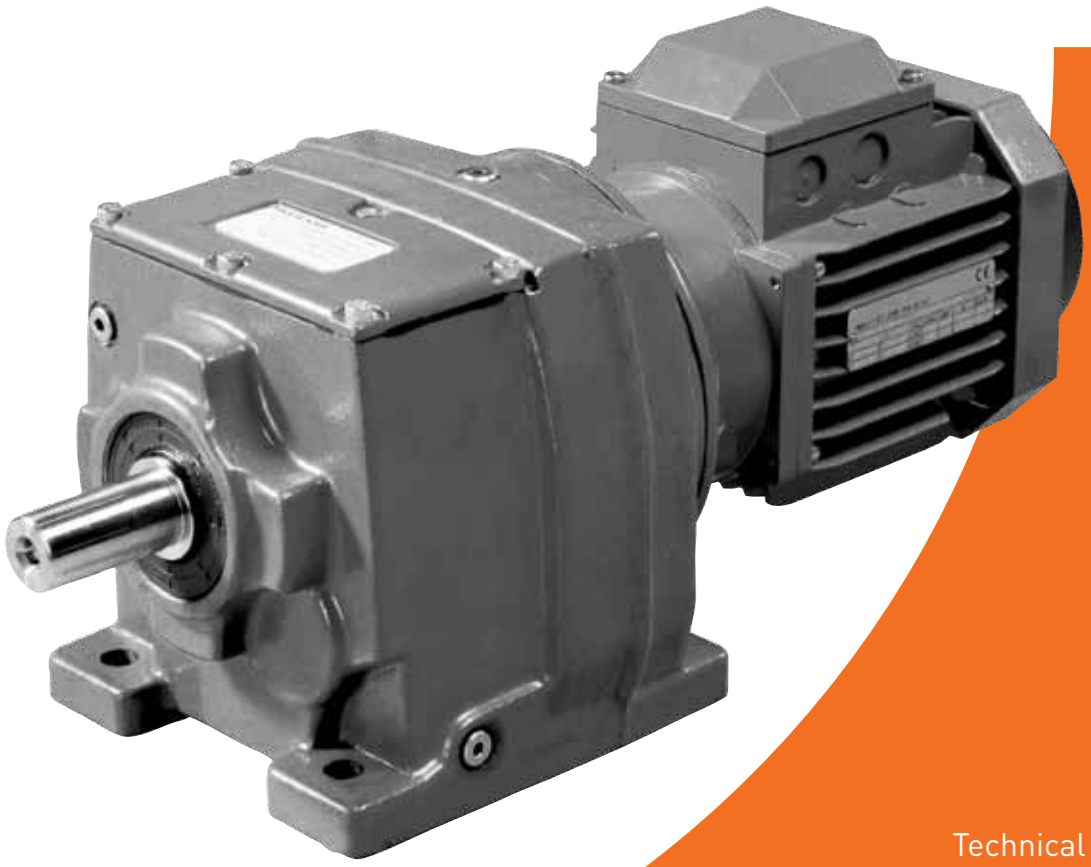
radicon

with you at every turn

# Series M Helical In-Line

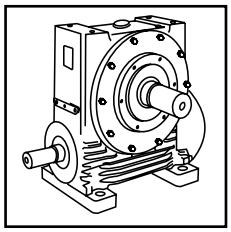


Technical
Up to - 90kW / 11,000 Nm

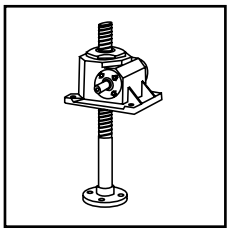
Geared Motors
CM-2.00GB1211

# PRODUCTS IN THE RANGE

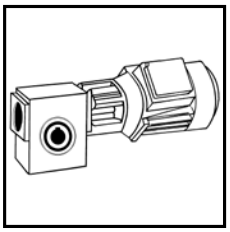
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



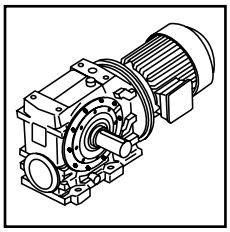
**Series A**
Worm Gear units and geared motors in single & double reduction types



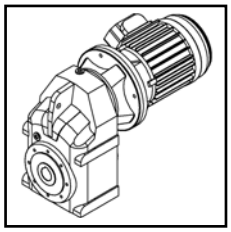
**Series BD**
Screwjack worm gear unit



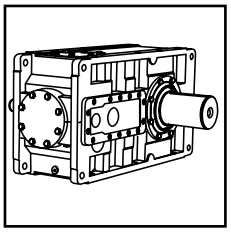
**Series BS**
Worm gear unit



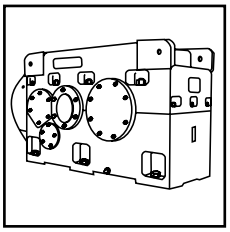
**Series C**
Right angle drive helical worm geared motors & reducers



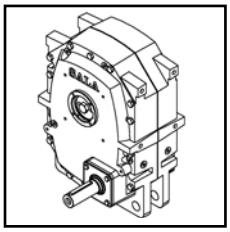
**Series F**
Parallel angle helical bevel helical geared motors & reducers



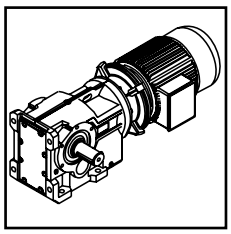
**Series G**
Helical parallel shaft & bevel helical right angle drive gear units



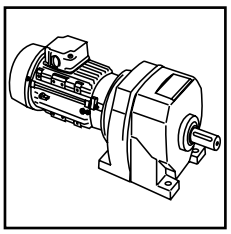
**Series H**
Large helical parallel shaft & bevel helical right angle drive units



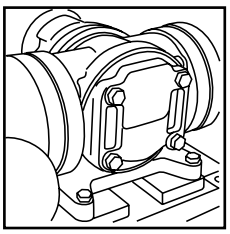
**Series J**
Shaft mounted helical speed reducers



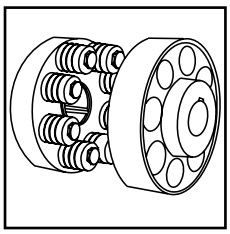
**Series K**
Right angle helical bevel helical geared motors & reducers



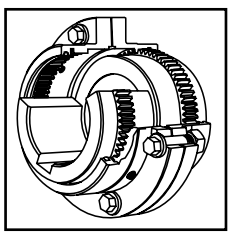
**Series M**
In-line helical geared motors & reducers



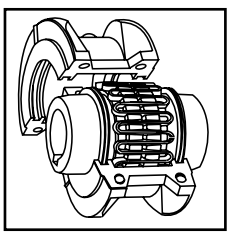
**Roloid Gear Pump**
Lubrication and fluid transportation pump



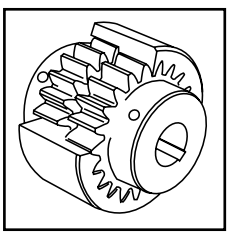
**Series X**
**Cone Ring**
Pin and bush elastomer coupling



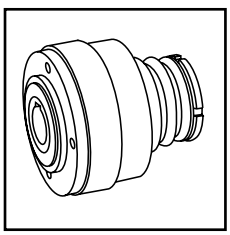
**Series X**
**Gear**
Torsionally rigid, high torque coupling



**Series X**
**Grid**
Double flexing steel grid coupling



**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.

# ATEX
# Compliance Assured

Total compliance with the ATEX Directive safeguarding the use of industrial equipment in potentially explosive atmospheres is assured for users of our geared products.

Certification is available for standard gearboxes and geared motors with badging displaying the CE Mark and the Ex mark, name and location of the manufacturer, designation of series or type, serial number, year of manufacture, Ex symbol and equipment group/category.

ATEX directive 94/9/EC (also known as ATEX 95 or ATEX 100A) and the CE Marking Directive are enforced in all EC member states. Compliance is compulsory for designers, manufacturers or suppliers of electrical and non-electrical equipment for use in potentially explosive atmospheres created by the presence of flammable gases, vapours, mists or dusts.

Ex compliant standard gearboxes can be supplied against Groups 2 or 3 for surface industries in designated hazardous location Zones 1 and 2 for gases, vapours and mists; and in Zones 21 and 22 for dusts.

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# GENERAL DESCRIPTION

Series M inline geared motors and reducers provide a very efficient and compact drive solution to meet most requirements up to 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.

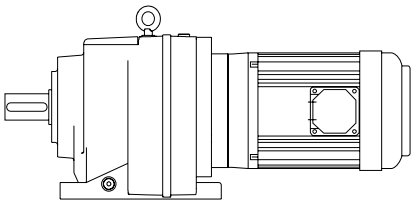
Brake geared motors are available as standard.

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.

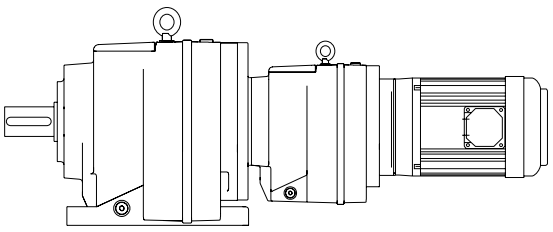
Motorised units can be fitted with a backstop module and reducer units can be fitted with a backstop and fan.

*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.*



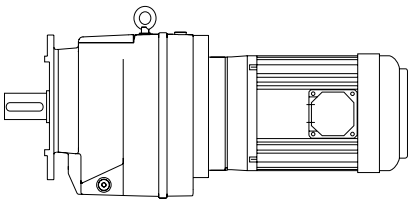
Two stage base mounted motorised

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



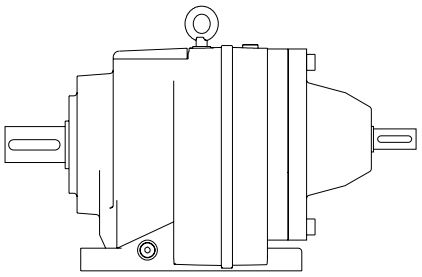
Four stage base mounted motorised

* 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 - -

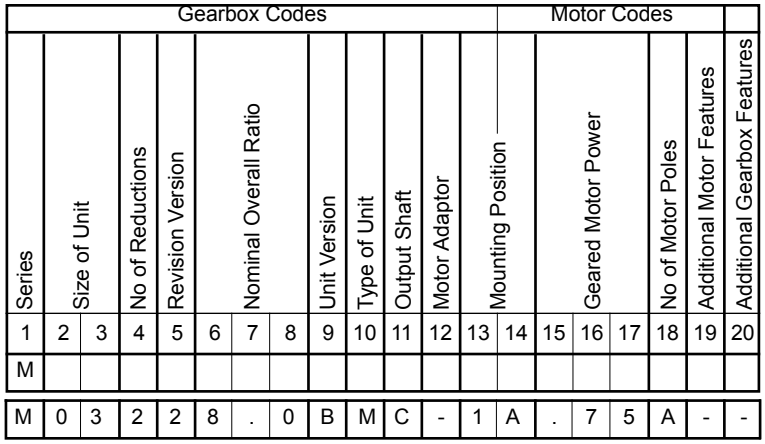


Two stage base mounted reducer

* 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 6]

**4 - No of Reductions**

[2] Through [5]

**5 - Revision Version**

[2]

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

eg [8 . 0]

**9 - Unit Version**

[B] - Base Mounted

B5 (D) Flange Mounted

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

**20 - Additional Gearbox Features**

Double Oil Seal, Motorised Backstop Etc

eg [-] [F]

**19 - Additional Motor Features**

eg [-] [A]

For Types Without Motor

Enter [-]

**18 - No of Motor Poles**

[-] No motor

| | 50 Hz | | 60 Hz | |
|---|---|---|---|---|
| 4 Pole (Std) | 1500 rpm | 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

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

Motor Power Required

eg [. 7 5]

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

**13, 14 - Mounting Position**

eg [2 B]

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

For All Other Types Enter [-]

**11 - Output Shaft**

[C] - Standard

[N] - Inch

* 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 |

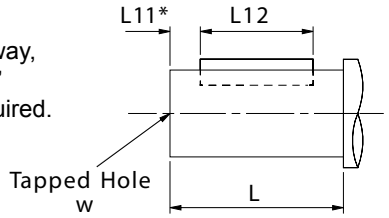
| Flange Diameter | Column 9 Entry |
|---|---|
| 300 | P |
| 350 | R |
| 450 | F |
| 550 | G |

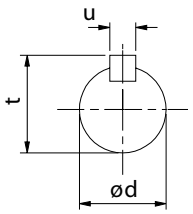
| Unit Size | | | | Flange Dia | Column 9 Entry |
|---|---|---|---|---|---|
| Double | Triple | Quadruple | Quintuple | | |
| M0122 | M0132 | - | - | 120 | H |
| | | | | 140 | J |
| | | | | 160 | K |
| | | | | 200 | L |
| M0222 | M0232 | - | - | 120 | H |
| | | | | 140 | J |
| | | | | 160 | K |
| | | | | 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 |

# OUTPUT SHAFT OPTIONS

## 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. - 25 | 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. - 25 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 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. - 25 | 56. - 200 | 56. - 200 | 56. - 200 | 56. - 200 | 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 |

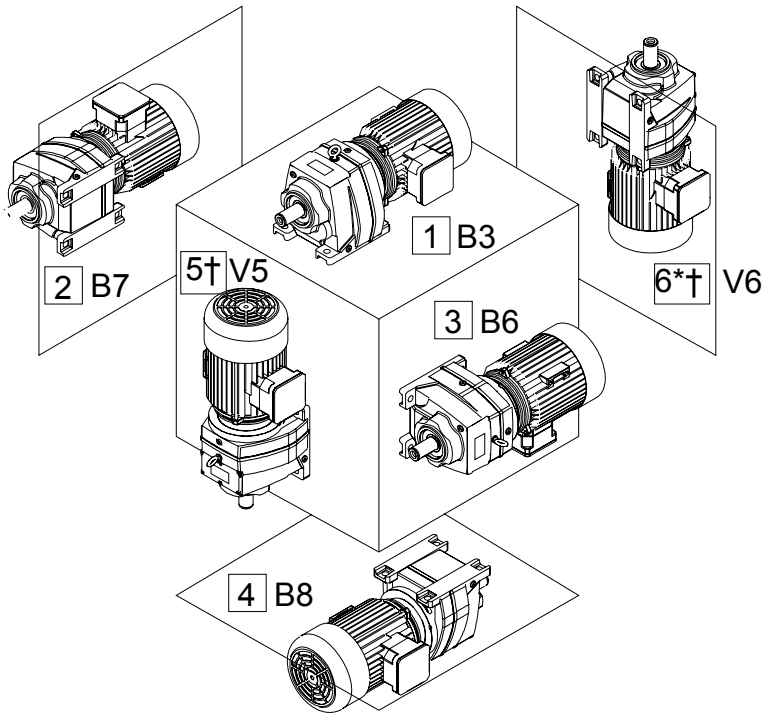
| PRIMARY STAGE QUINTUPLE REDUCTION (Quantities obtained from above double and triple sizes indicated) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit Size | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
| PRIMARY UNIT | M0132 | M0332 | M0332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

# MOUNTING POSITIONS

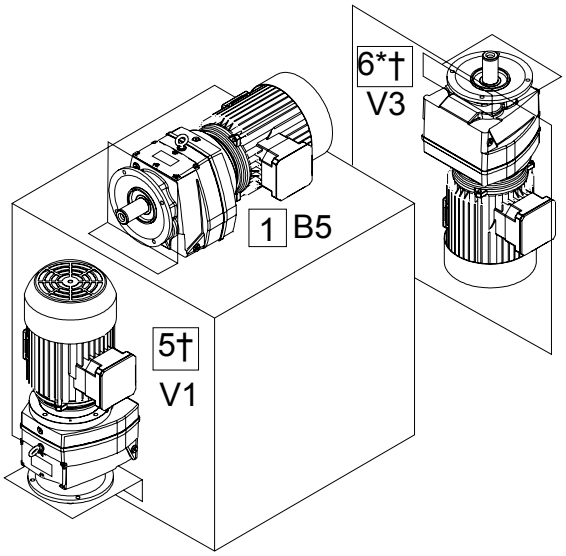
## COLUMN 13 ENTRY

Enter [-] for units with no oil fill

**Base Mounted Units**




**Flange Mounted Units**



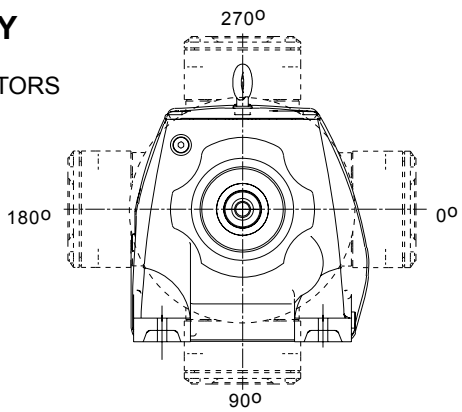

* Mounting Position 6 is not recommended for Geared Motors - Consult Application Engineering
† Gear Units selected for use in mounting positions 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below

| 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

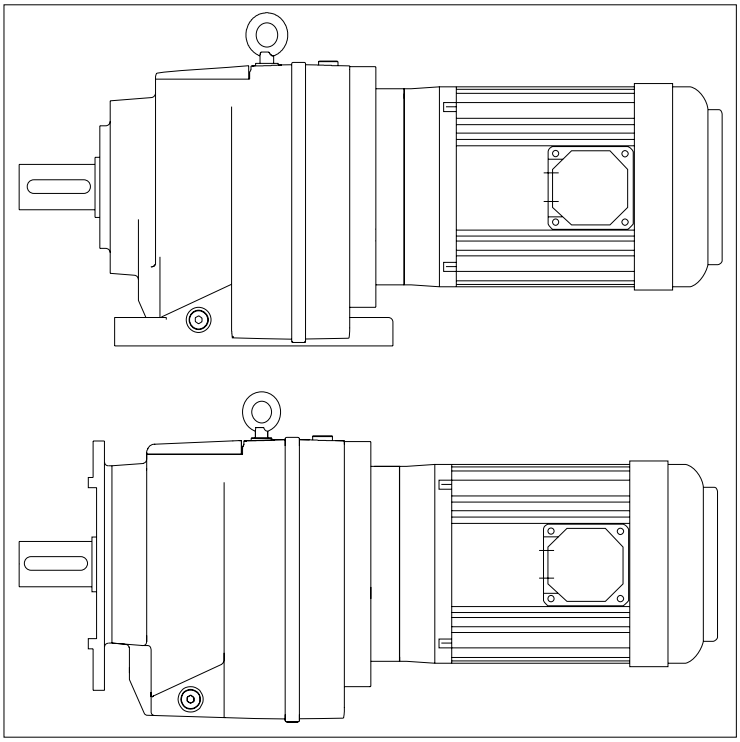
## COLUMN 14 ENTRY

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 | 2.9 | 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 | 225S | 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

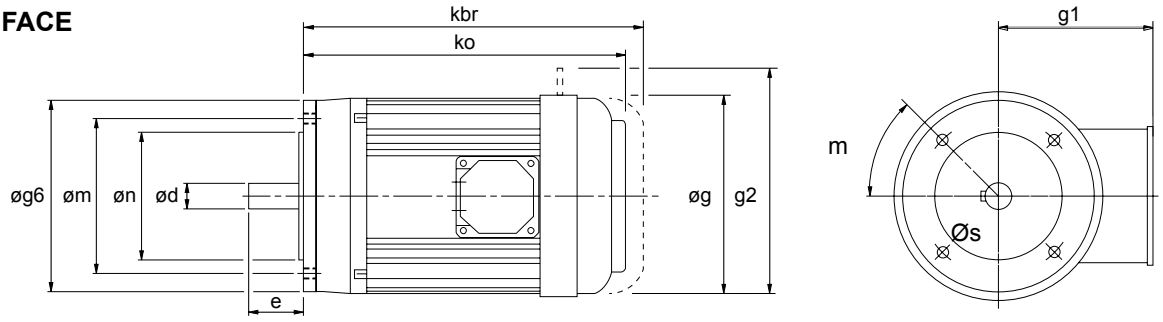
## 60 Hz Operation

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 |

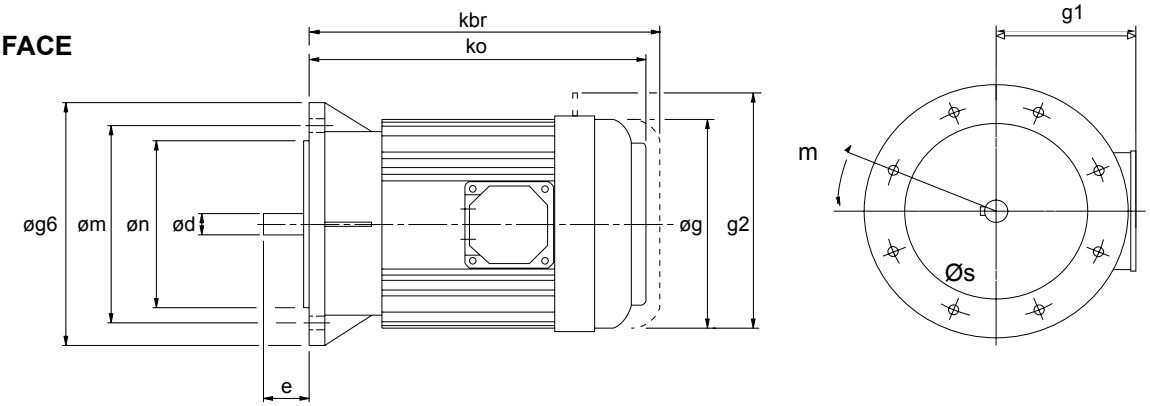
# MOTOR DETAILS

## 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 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 |
|---|---|---|---|---|---|---|---|
| 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

NOTE

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 . | | |

## 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

| 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 |
|---|---|---|---|---|---|---|---|
| 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 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 | 58.38 | 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 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

| 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 |
|---|---|---|---|---|---|---|---|
| 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 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 |
|---|---|---|---|---|---|---|---|
| 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

| 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 |
|---|---|---|---|---|---|---|---|
| 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] 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 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 |
|---|---|---|---|---|---|---|---|
| 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<br>Column Entry [1] Through [20]<br>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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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<br>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 Spaces to be filled when entering order | Weight | Motor Size |
| 56 | 16.31 | 123 | 3.65 | 6381 | M052216._M_____.75C-- | 36.5 | 90S |
| 53 | 17.39 | 131 | 3.42 | 6708 | 18. | | |
| 45 | 20.61 | 155 | 2.89 | 6755 | 20. | | |
| 42 | 22 | 166 | 2.71 | 6628 | 22. | | |
| 34 | 27.3 | 205 | 2.18 | 6145 | 28. | | |
| 29 | 32.19 | 242 | 1.85 | 5704 | 32. | | |
| 26 | 35.25 | 264 | 1.7 | 5704 | 36. | | |
| 21 | 43.2 | 324 | 1.25 | 5192 | 45. | | |
| 19 | 48.15 | 360 | 1.05 | 4778 | 50. | | |
| 16 | 58.38 | 434 | 1.03 | 3829 | M053256._M_____.75C-- | 37.5 | 90S |
| 14 | 64.29 | 479 | 0.94 | 3050 | 63. | | |
| 12 | 73.95 | 551 | 0.82 | 2739 | 71. | | |
| 36 | 25.51 | 192 | 3.25 | 7200 | M062222._M_____.75C-- | 41.5 | 90S |
| 34 | 27.24 | 205 | 3.04 | 7200 | 28. | | |
| 27 | 33.8 | 255 | 2.45 | 7200 | 32. | | |
| 23 | 39.86 | 300 | 2.08 | 7010 | 36. | | |
| 21 | 43.64 | 328 | 1.9 | 6813 | 45. | | |
| 17 | 53.49 | 401 | 1.35 | 7193 | 50. | | |
| 15 | 59.61 | 447 | 1.05 | 6584 | 56. | | |
| 13 | 72.28 | 538 | 1.16 | 7200 | M063263._M_____.75C-- | 42.5 | 90S |
| 12 | 79.6 | 593 | 1.05 | 6400 | 71. | | |
| 10 | 91.56 | 682 | 0.92 | 4888 | 80. | | |
| 9.2 | 99.54 | 741 | 0.84 | 3882 | 100 | | |
| 29 | 32.12 | 241 | 3.59 | 9420 | M072232._M_____.75C-- | 48.5 | 90S |
| 26 | 35.17 | 264 | 3.28 | 9420 | 36. | | |
| 22 | 42.21 | 315 | 2.75 | 9183 | 45. | | |
| 19 | 48.56 | 363 | 1.93 | 9043 | 50. | | |
| 17 | 53.96 | 402 | 1.48 | 9208 | 56. | | |
| 16 | 58.95 | 439 | 1.97 | 8355 | M073256._M_____.75C-- | 53.5 | 90S |
| 15 | 62.83 | 468 | 1.85 | 8042 | 63. | | |
| 12 | 74.47 | 556 | 1.56 | 7121 | 71. | | |
| 12 | 79.51 | 590 | 1.47 | 6721 | 80. | | |
| 9.3 | 98.66 | 733 | 1.18 | 6637 | 100 | | |
| 7.9 | 116.34 | 864 | 1 | 4794 | 112 | | |
| 7.2 | 127.39 | 946 | 0.92 | 4794 | 125 | | |
| 16 | 55.8 | 416 | 3.72 | 20000 | M082256._M_____.75C-- | 81.5 | 90S |
| 14 | 66.02 | 490 | 3.36 | 20000 | M083263._M_____.75C-- | 81.5 | 90S |
| 12 | 74.69 | 556 | 2.96 | 20000 | 71. | | |
| 11 | 84.31 | 626 | 2.63 | 20000 | 80. | | |
| 9 | 102.2 | 759 | 2.17 | 18367 | 100 | | |
| 7.7 | 119.19 | 884 | 1.87 | 17935 | 112 | | |
| 7 | 130.92 | 970 | 1.7 | 17575 | 125 | | |
| 5.7 | 160.45 | 1195 | 1.38 | 17044 | 160 | | |
| 5.3 | 175.21 | 1299 | 1.27 | 16406 | 180 | | |
| 4.6 | 201.75 | 1491 | 1.11 | 15789 | 200 | | |
| 4 | 228.91 | 1665 | 0.82 | 18916 | M084222._M_____.75C-- | 112.5 | 90S |
| 7.9 | 116.55 | 870 | 3.28 | 29500 | M093112._M_____.75C-- | 131.5 | 90S |
| 7.2 | 128.66 | 960 | 2.98 | 29500 | 125 | | |
| 6.3 | 145.2 | 1079 | 2.29 | 29442 | 140 | | |
| 5.7 | 160.29 | 1193 | 2.07 | 29330 | 160 | | |
| 4 | 231.06 | 1696 | 1.56 | 25710 | M094122._M_____.75C-- | 156.5 | 90S |
| 3.6 | 258.09 | 1892 | 1.51 | 24951 | 250 | | |
| 3.1 | 300.18 | 2200 | 1.3 | 24951 | 280 | | |
| 2.7 | 335.85 | 2457 | 1.16 | 24951 | 300 | | |
| 2.6 | 357.95 | 2621 | 1.09 | 24951 | 360 | | |
| 2.2 | 424.23 | 3103 | 0.92 | 24951 | 400 | | |
| 2 | 471.32 | 3444 | 0.83 | 24951 | 450 | | |
| 4.2 | 220.22 | 1608 | 2.74 | 41580 | M104122._M_____.75C-- | 217.5 | 90S |
| 3.8 | 242.24 | 1768 | 2.49 | 41580 | 250 | | |
| 3.3 | 278.36 | 2031 | 2.17 | 41580 | 280 | | |
| 2.9 | 315.65 | 2300 | 1.92 | 41580 | 300 | | |
| 2.6 | 348.16 | 2538 | 1.74 | 41580 | 360 | | |
| 2.3 | 398.71 | 2904 | 1.52 | 41580 | 400 | | |
| 2.1 | 443.06 | 3224 | 1.37 | 41580 | 450 | | |
| 1.8 | 500.94 | 3642 | 1.21 | 41580 | 500 | | |
| 1.6 | 580.78 | 4217 | 1.05 | 41580 | 650 | | |
| 1.3 | 692.72 | 5022 | 0.88 | 41580 | 730 | | |

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] Spaces to be filled when entering order | 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 | 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 |
| 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 | M094122_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 | M104122_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<br>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<br>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<br>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<br>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 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 |
|---|---|---|---|---|---|---|---|
| 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] 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 | 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 |
| 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 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 |
|---|---|---|---|---|---|---|---|
| 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 | M 1 3 3 1 5 6 . _ M _ _ _ _ 4 . 0 C - - | 294 | 132M |
| 15 | 64.17 | 2455 | 2.53 | 66741 | 6 3 . | | |
| 13 | 71.32 | 2705 | 2.35 | 66616 | 7 1 . | | |
| 12 | 80.39 | 3049 | 2.08 | 66516 | 8 0 . | | |
| 11 | 90.75 | 3439 | 1.8 | 66437 | 9 0 . | | |
| 9.5 | 101.07 | 3827 | 1.62 | 66325 | 1 0 0 | | |
| 8.4 | 113.69 | 4290 | 1.48 | 65988 | 1 1 2 | | |
| 7.6 | 126.62 | 4774 | 1.33 | 65841 | 1 2 5 | | |
| 6.9 | 139.07 | 5230 | 1.24 | 65700 | 1 4 0 | | |
| 6.2 | 154.89 | 5819 | 1.11 | 65533 | 1 6 0 | | |
| 5.5 | 173.37 | 6546 | 0.97 | 65287 | 1 8 0 | | |
| 5.2 | 184.46 | 6978 | 0.91 | 65125 | 2 0 0 | | |
| 4.5 | 212.09 | 8000 | 0.81 | 64837 | 2 2 5 | | |
| 10 | 94.35 | 3580 | 3.1 | 80900 | M 1 4 3 1 9 0 . _ M _ _ _ _ 4 . 0 C - - | 423 | 132M |
| 9.4 | 102.23 | 3860 | 2.88 | 80900 | 1 0 0 | | |
| 7.7 | 124.89 | 4710 | 2.34 | 80900 | 1 1 2 | | |
| 7.1 | 135.31 | 5110 | 2.15 | 80900 | 1 2 5 | | |
| 6.7 | 142.66 | 5358 | 1.88 | 80900 | 1 4 0 | | |
| 6.2 | 154.57 | 5812 | 1.74 | 80900 | 1 6 0 | | |
| 5.2 | 185.56 | 7006 | 1.57 | 80900 | 1 8 0 | | |
| 4.6 | 208.15 | 7843 | 1.4 | 80798 | 2 0 0 | | |
| 4.5 | 211.96 | 7968 | 1.27 | 80775 | 2 2 5 | | |

## 5.5 kW

4 POLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 399 | 3.58 | 127 | 1.59 | 4320 | M 0 4 2 2 3 . 6 _ M _ _ _ _ 5 . 5 A - - | 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 | M 0 5 2 2 3 . 6 _ M _ _ _ _ 5 . 5 A - - | 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 | 1 1 . | | |
| 114 | 12.54 | 447 | 0.95 | 4350 | 1 2 . | | |
| 98 | 14.58 | 520 | 0.86 | 3970 | 1 4 . | | |
| 322 | 4.44 | 157 | 2.3 | 7200 | M 0 6 2 2 5 . 0 _ M _ _ _ _ 5 . 5 A - - | 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 | 1 1 . | | |
| 106 | 13.48 | 480 | 1.27 | 7200 | 1 2 . | | |
| 92 | 15.52 | 554 | 0.95 | 7200 | 1 4 . | | |
| 79 | 18.05 | 644 | 0.93 | 7200 | 1 6 . | | |
| 71 | 20.2 | 719 | 0.87 | 7200 | 1 8 . | | |
| 66 | 21.53 | 767 | 0.82 | 7200 | 2 0 . | | |
| 392 | 3.68 | 129 | 2.37 | 7393 | M 0 7 2 2 3 . 6 _ M _ _ _ _ 5 . 5 A - - | 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 | 1 1 . | | |
| 115 | 12.48 | 441 | 1.67 | 5948 | 1 2 . | | |
| 100 | 14.34 | 507 | 1.49 | 5604 | 1 4 . | | |
| 89 | 16.26 | 574 | 1.37 | 5840 | 1 6 . | | |
| 80 | 17.94 | 634 | 1.25 | 6791 | 1 8 . | | |
| 70 | 20.54 | 725 | 1.11 | 6178 | 2 0 . | | |
| 62 | 23.23 | 818 | 0.99 | 3751 | 2 2 . | | |
| 53 | 26.93 | 949 | 0.87 | 2400 | 2 8 . | | |
| 173 | 8.33 | 295 | 3.95 | 15336 | M 0 8 2 2 8 . 0 _ M _ _ _ _ 5 . 5 A - - | 121 | 132S |
| 154 | 9.35 | 331 | 3.68 | 15648 | 9 . 0 | | |
| 126 | 11.47 | 405 | 3.23 | 16175 | 1 1 . | | |
| 111 | 12.92 | 455 | 2.94 | 16393 | 1 2 . | | |
| 96 | 15.04 | 534 | 2.65 | 16821 | 1 4 . | | |
| 86 | 16.69 | 586 | 2.42 | 15526 | 1 6 . | | |
| 79 | 18.26 | 643 | 2.11 | 15166 | 1 8 . | | |
| 70 | 20.66 | 728 | 2 | 15150 | 2 0 . | | |
| 62 | 23.32 | 828 | 1.86 | 15130 | 2 2 . | | |
| 51 | 28.27 | 994 | 1.6 | 14463 | 2 8 . | | |
| 44 | 32.97 | 1161 | 1.4 | 13907 | 3 2 . | | |
| 40 | 36.21 | 1274 | 1.29 | 13107 | 3 6 . | | |
| 32 | 44.38 | 1562 | 1.06 | 13268 | 4 5 . | | |
| 30 | 48.46 | 1704 | 0.97 | 12097 | 5 0 . | | |

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<br>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 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 |
|---|---|---|---|---|---|---|---|
| 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 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 | 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 | 3.68 | 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 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<br>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 | 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 | 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 | 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 |
| 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] 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] 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 Column Entry 1 Through 20 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

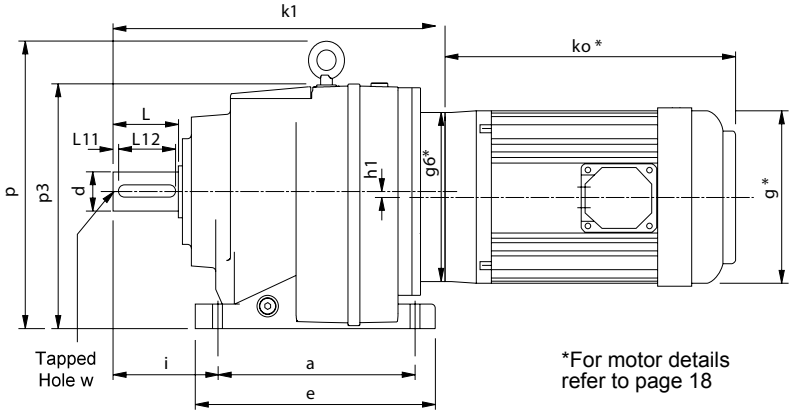
4 POLE

| N2 R/MIN Output Speed | i Ratio | M2 Nm Output Torque | Fm Service Factor | N Overhung Load | Unit Designation Column Entry 1 Through 20 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 . | | |

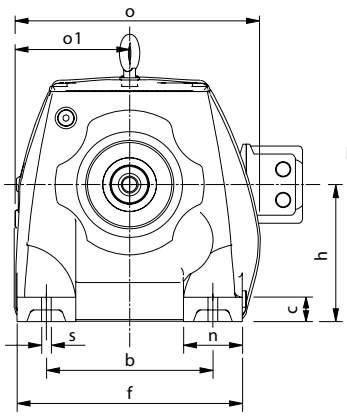
NOTE

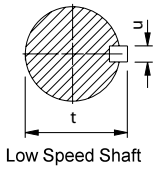
Other output speeds are available using 2 and 8 pole motors - Consult Application Engineering

# DIMENSIONS - DOUBLE REDUCTION BASE MOUNT




*For motor details refer to page 18



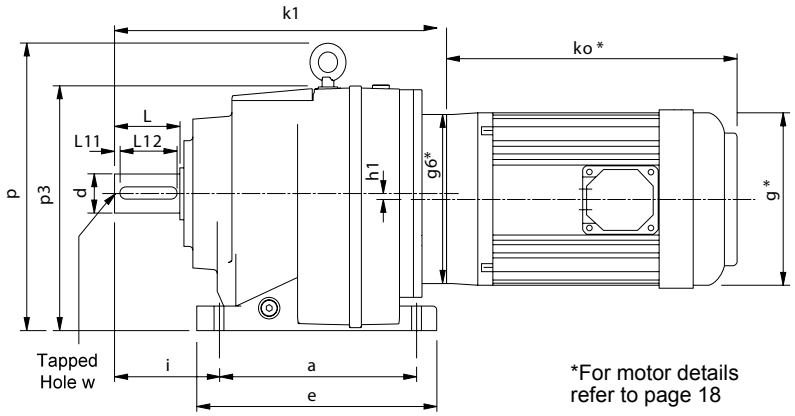




all parallel keys are to DIN 6885

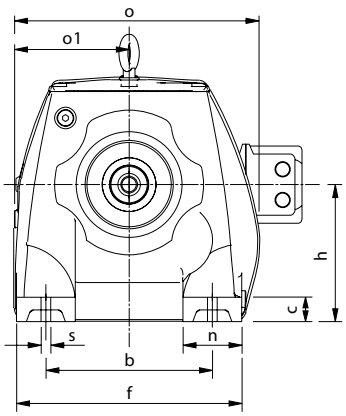
| Size | a | b | c | e | f | h | h1 | i | n | o | o1 | p | p3 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0122 | 110 | 110 | 12 | 131 | 135 | 75 | - | 58 | 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 |

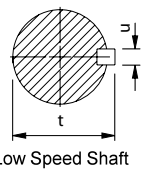
| MOTOR FRAME SIZE | M0122 | M0222 | M0322 | M0422 | M0522 | M0622 | M0722 | M0822 | M0921 | M1021 | M1321 | M1421 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 209 | 240 | 240 | 270 | 280 | 301 | - | - | - | - | - | - |
| 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 | 564 | 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 BASE MOUNT




*For motor details refer to page 18



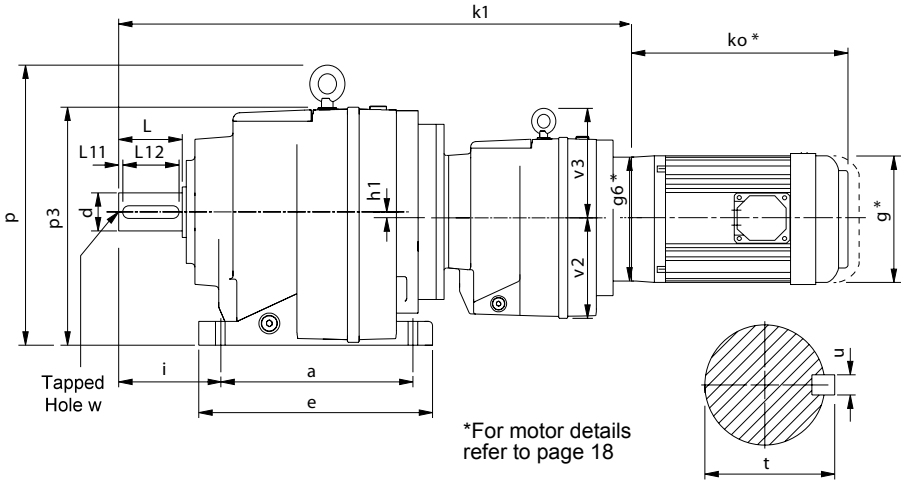




all parallel keys are to DIN 6885

| 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 |

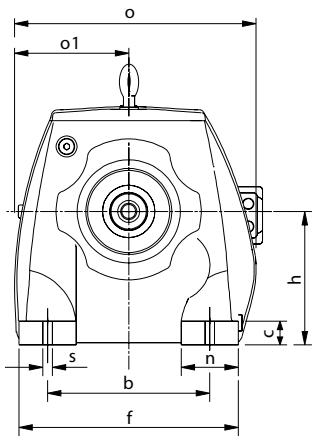
| MOTOR FRAME SIZE | M0132 | M0232 | M0332 | M0432 | M0532 | M0632 | M0732 | M0832 | M0931 | M1031 | M1331 | M1431 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 224 | 253 | 253 | 300 | 310 | 331 | 353 | - | - | - | - | - |
| 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




*For motor details refer to page 18

Low Speed Shaft

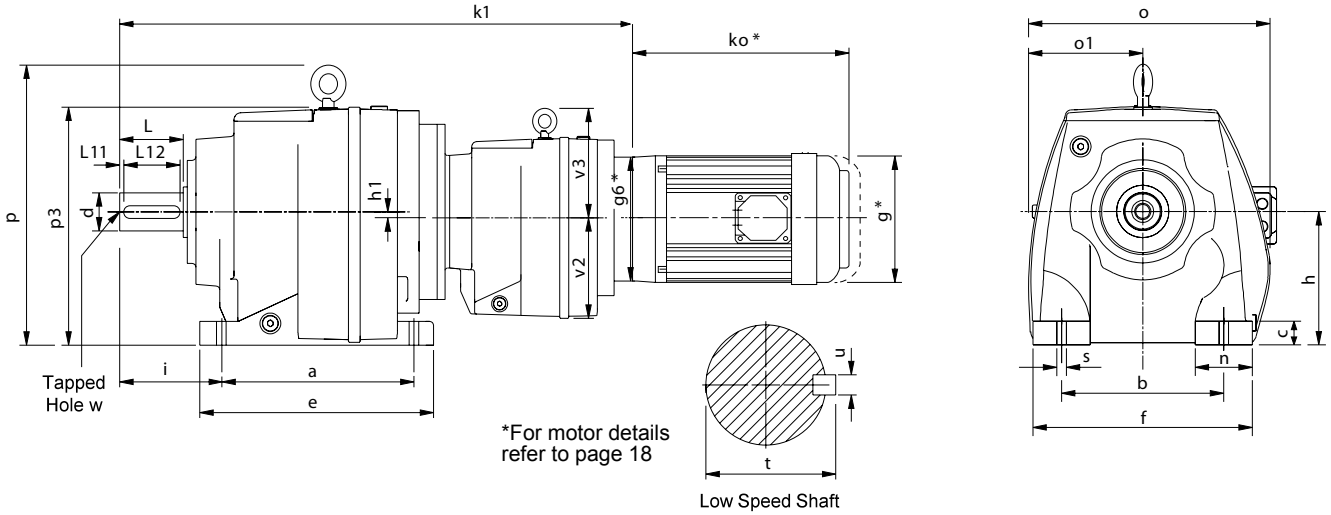



all parallel keys are to DIN 6885

| 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 |
| 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



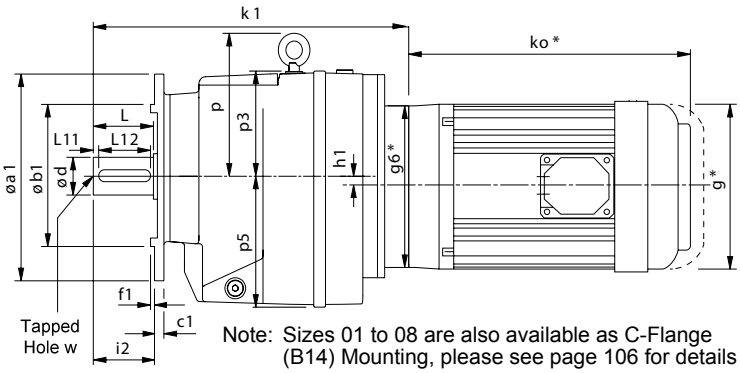

all parallel keys are to DIN 6885

| 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 |

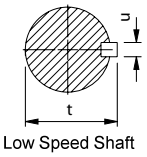
| MOTOR FRAME SIZE | M0352 | M0452 | M0552 | M0652 | M0752 | M0852 | M0951 | M1051 | M1351 | M1451 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 441 | 507 | 517 | 538 | 575 | 682 | 763 | 869 | 990 | 1105 |
| 71 | 445 | 511 | 521 | 542 | 579 | 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

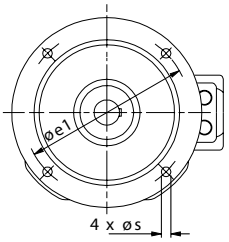
## DIMENSIONS - DOUBLE REDUCTION FLANGE MOUNT



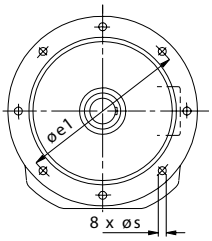

Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details




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




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



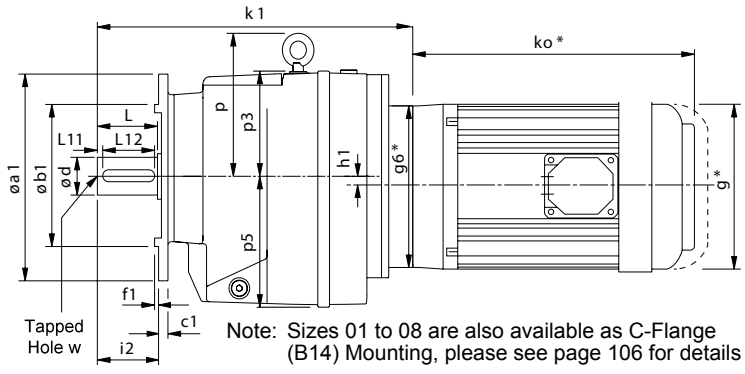

*For motor details refer to page 18

all parallel keys are to DIN 6885

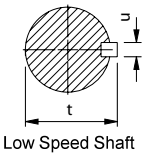
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0122 | 120 | 80 | 9 | 100 | 3 | - | 40 | - | 74 | 76 | 9 | 20 k6 | 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 | 60 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 | 564 | 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

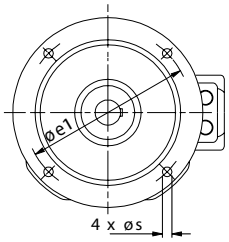



Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

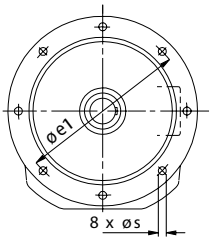



Low Speed Shaft

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




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




*For motor details refer to page 18

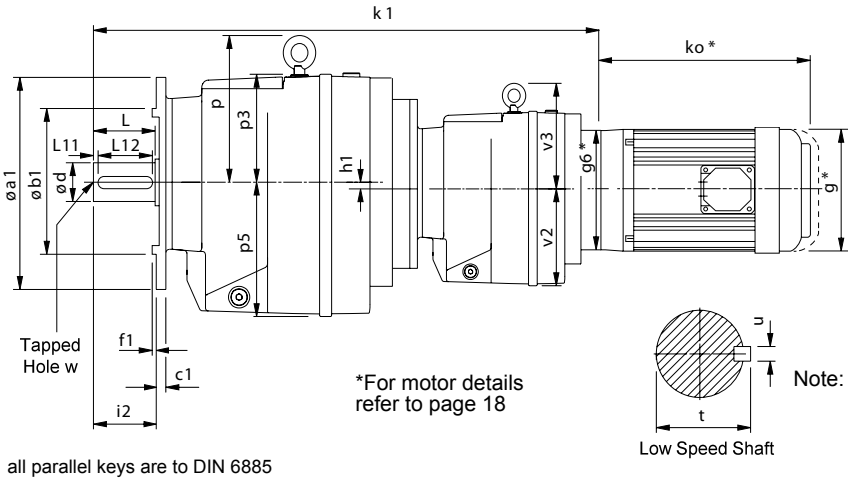
all parallel keys are to DIN 6885

| 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 |

# SERIES M

## DIMENSIONS - QUADRUPLE REDUCTION FLANGE MOUNT

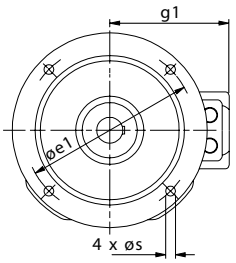



*For motor details refer to page 18

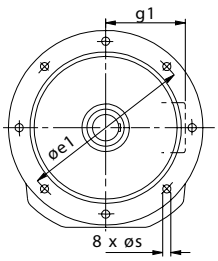



Low Speed Shaft

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




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



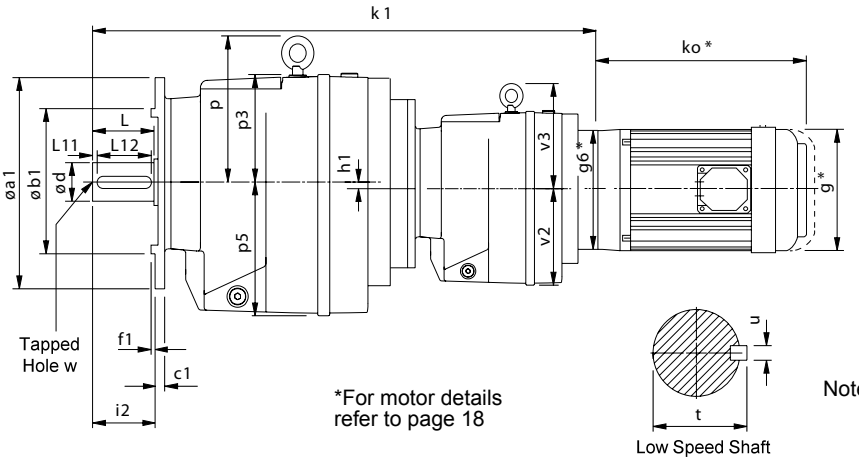

Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

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 |

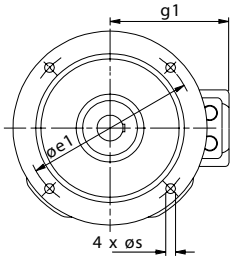
| MOTOR FRAME SIZE | M0342 | M0442 | M0542 | M0642 | M0742 | M0842 | M0941 | M1041 | M1341 | M1441 |
|---|---|---|---|---|---|---|---|---|---|---|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 426 | 494 | 504 | 525 | 562 | 652 | 733 | - | - | - |
| 71 | 430 | 498 | 508 | 529 | 566 | 658 | 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

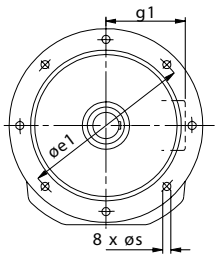



*For motor details refer to page 18

**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

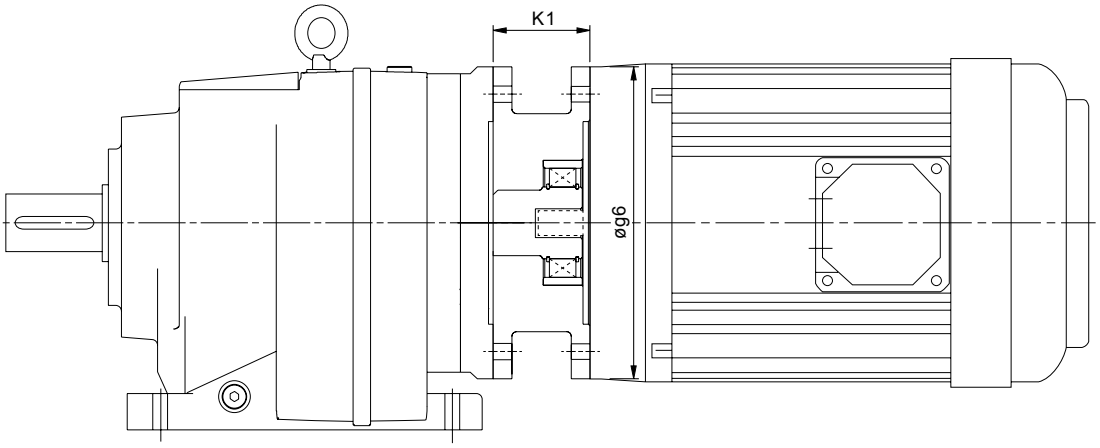
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | h1 | i2 | p | p3 | p5 | s | v2 | v3 | Low Speed Shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | d | L | L11 | L12 | t | u | w |
| M0352 | 120 | 80 | 10 | 100 | 3 | - | 50 | - | 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 |

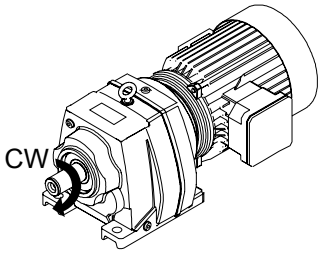
## NEMA C FLANGE

| 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 |

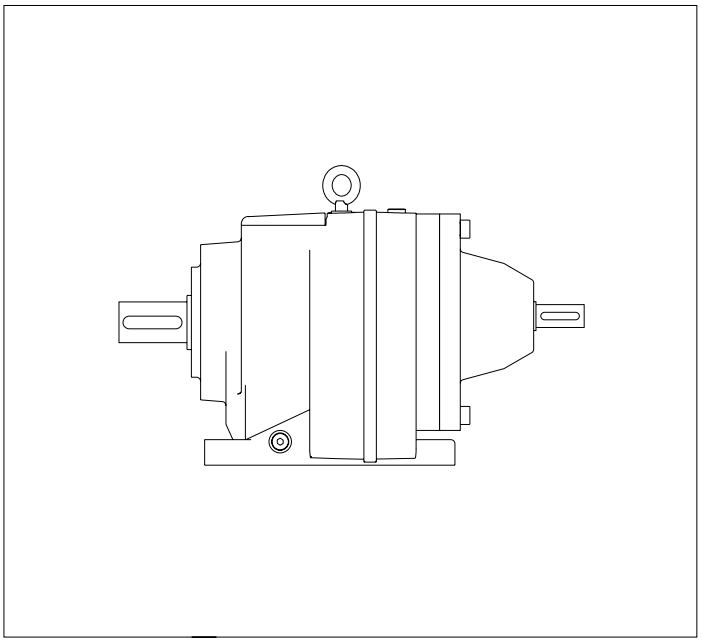
When a backstop module is fitted dimension K1 should be added to the overall length of the geared motor assembly.

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)**

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

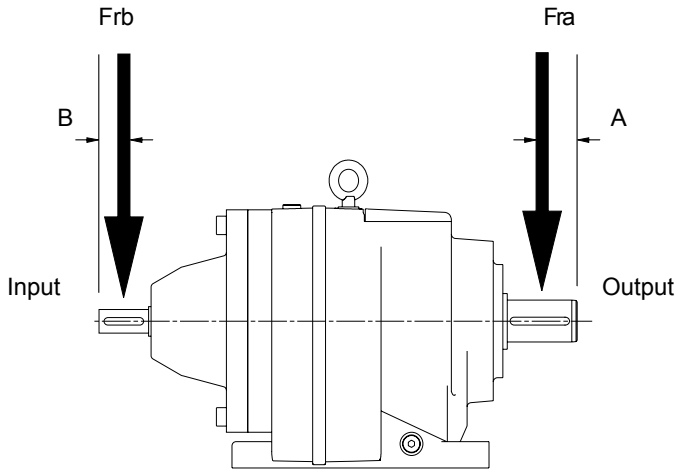
where

| | | |
|---|---|---|
| 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 | | | | | | | | | | |

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 6 7 8 | Input Speed N1 (rpm) | M0842 | | | | | M0941 | | | | | M1041 | | | | | M1341 | | | | | M1441 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 |

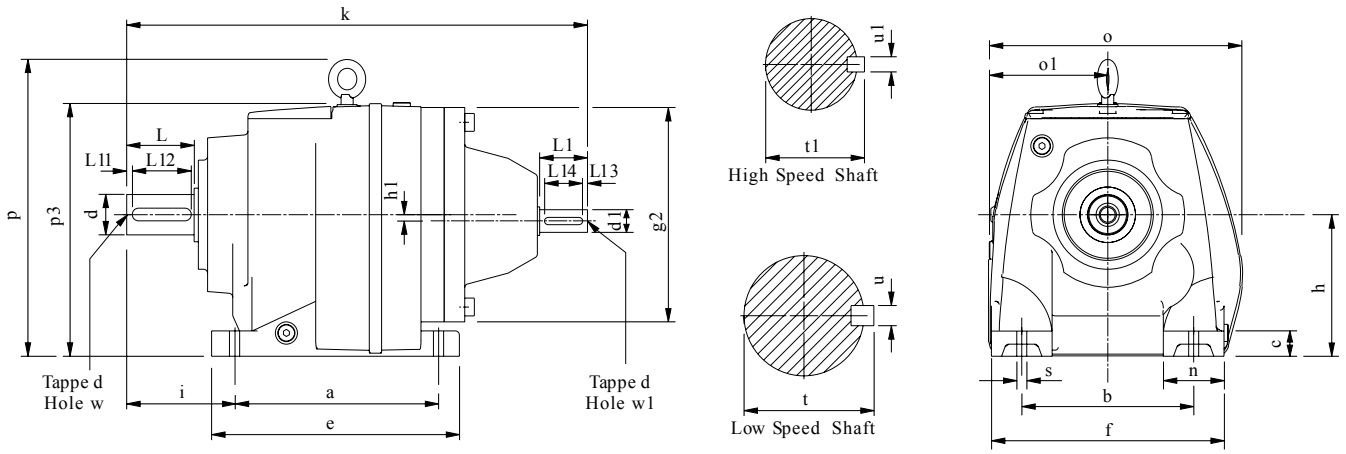
# QUINTUPLE REDUCTION RATINGS
## SIZES M08 - M14

*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

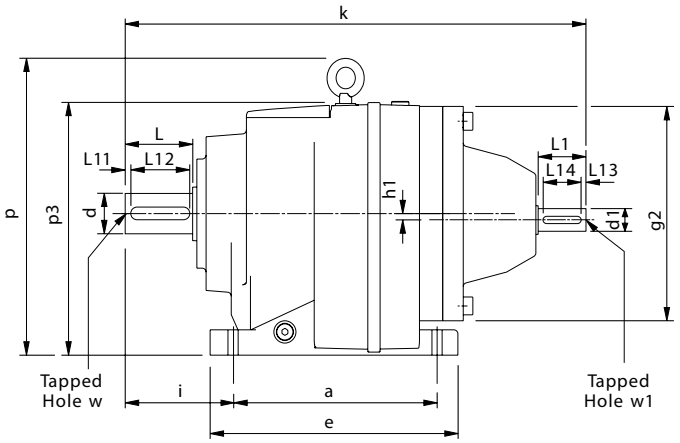


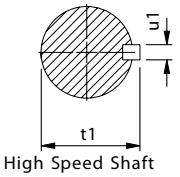

all parallel keys are to DIN 6885

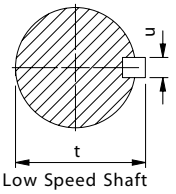
| size | a | b | c | e | f | g2 | h | h1 | i | k | n | o | o1 | p | p3 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0122 | 110 | 110 | 12 | 131 | 135 | 140 | 75 | - | 58 | 286 | 25 | 152 | 76 | - | 149 | 10 |
| M0222 | 130 | 110 | 16 | 152 | 145 | 140 | 90 | - | 75 | 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 |

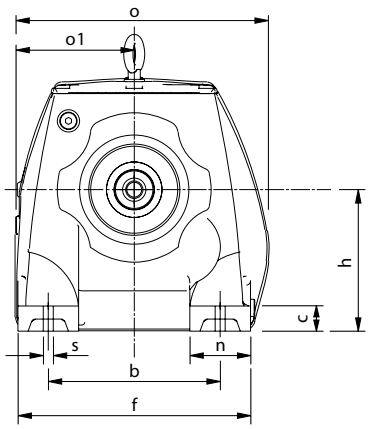
| SIZE | High Speed shaft | | | | | | | Low Speed shaft | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | d | L | L11 | L12 | t | u | w |
| M0122 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5 x 0.8 12 deep | 20 k6 | 40 | 4 | 32 | 22.5 | 6 | M6 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 | 16 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 | 16 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 | 16 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 | 19 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 | 24 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 | 28 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 | 38 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



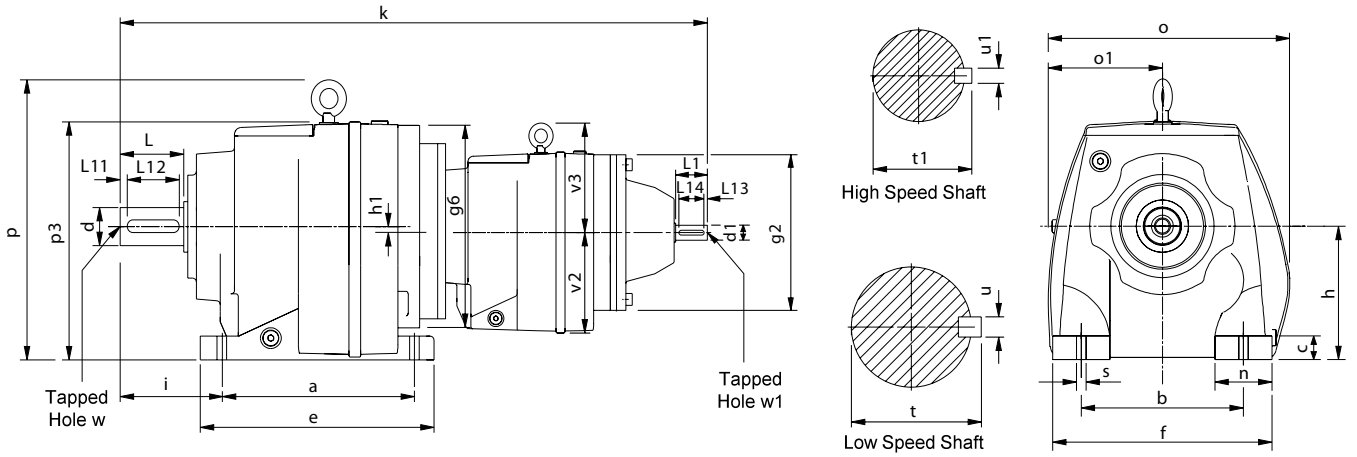




all parallel keys are to DIN 6885

| 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 | 55 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 | 55 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

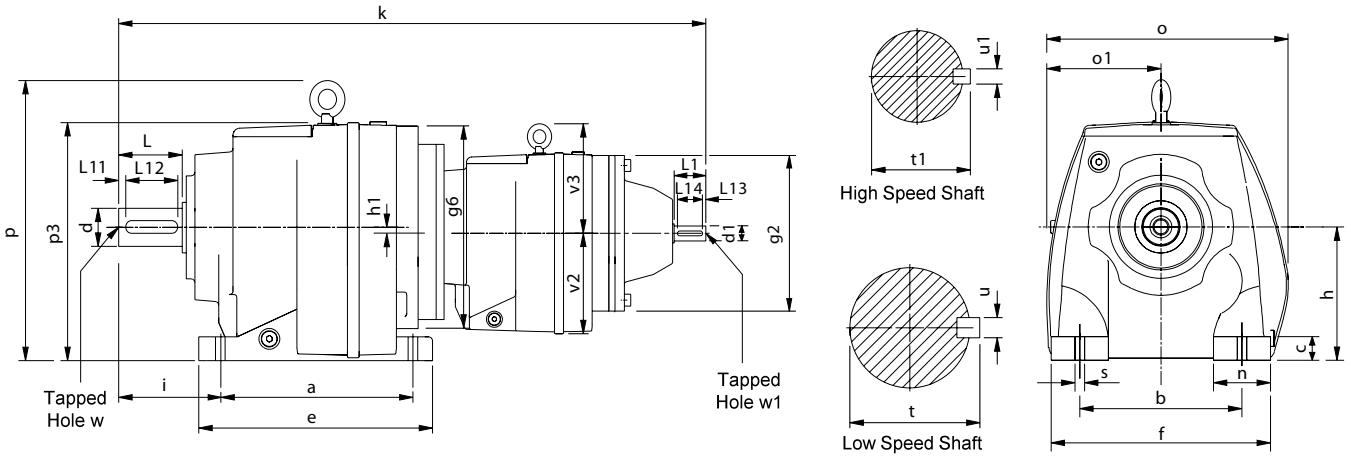



all parallel keys are to DIN 6885

| 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

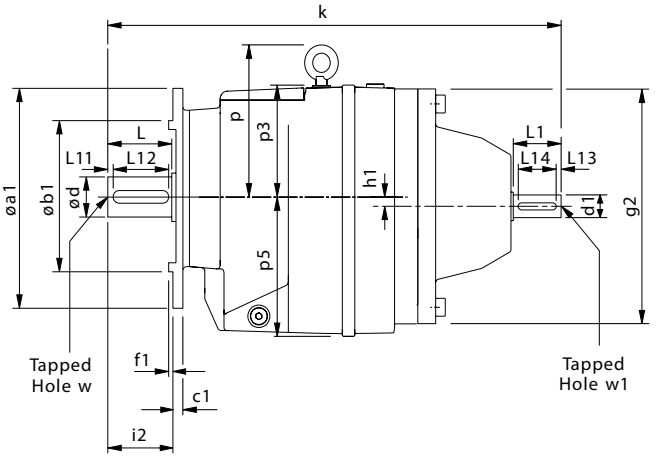


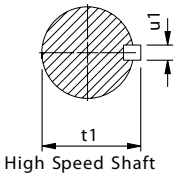

all parallel keys are to DIN 6885

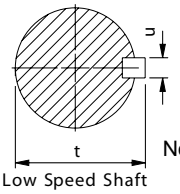
| size | a | b | c | e | f | g2 | g6 | h | h1 | i | k | n | o | o1 | p | p3 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0352 | 130 | 110 | 16 | 152 | 145 | 140 | 140 | 90 | - | 75 | 518 | 35 | 170 | 84 | - | 180 | 10 | 76 | - |
| M0452 | 165 | 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 |

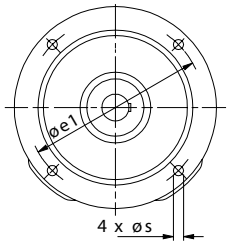
# DIMENSIONS - DOUBLE REDUCTION FLANGE MOUNT



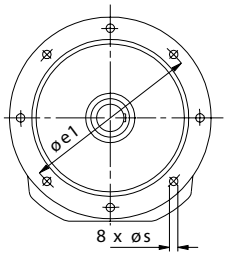




**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




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



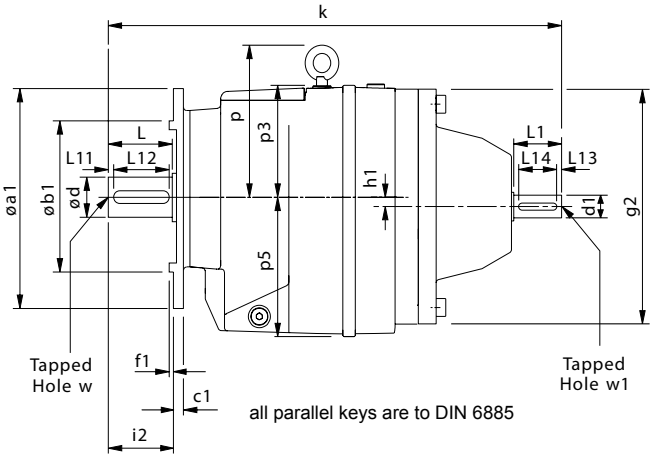

Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

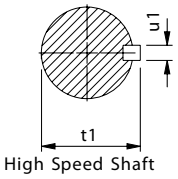
all parallel keys are to DIN 6885

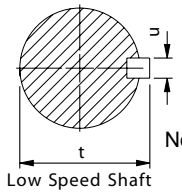
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0122 | 120 | 80 | 9 | 100 | 3 | 140 | - | 40 | 286 | - | 74 | 76 | 7 |
| | 140 | 95 | 9 | 115 | 3 | | | 40 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 40 | | | | | 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 |

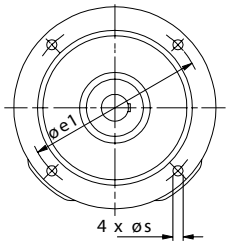
# DIMENSIONS - TRIPLE REDUCTION FLANGE MOUNT



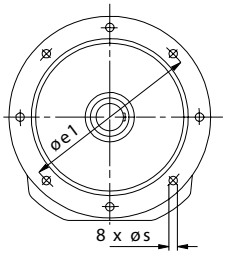




**Sizes 1, 2, 3, 4, 5, 6, 7 and 8**




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

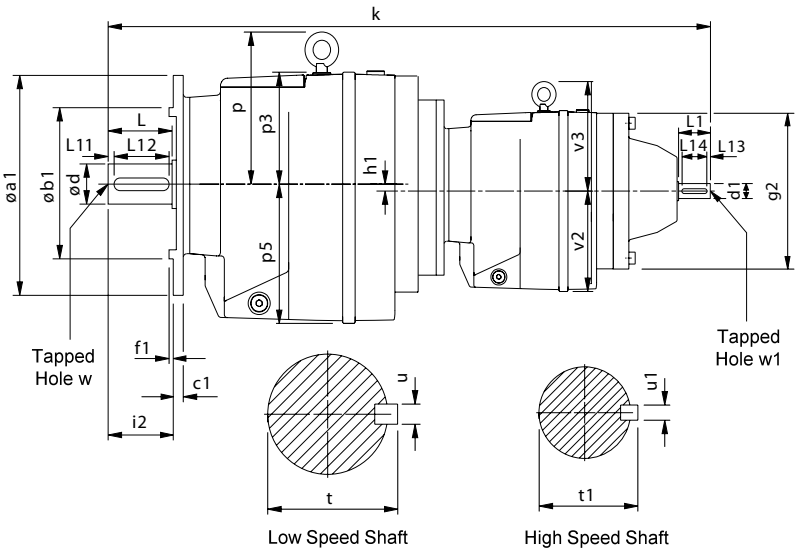



Note: Sizes 01 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

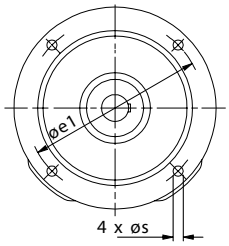
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0132 | 120 | 80 | 9 | 100 | 3 | 140 | - | 40 | 301 | - | 74 | 76 | 7 |
| | 140 | 95 | 9 | 115 | 3 | | | 40 | | | | | 9 |
| | 160 | 110 | 10 | 130 | 3.5 | | | 40 | | | | | 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 |

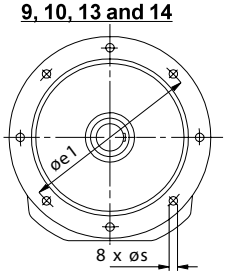
# DIMENSIONS - QUADRUPLE REDUCTION FLANGE MOUNT




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




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



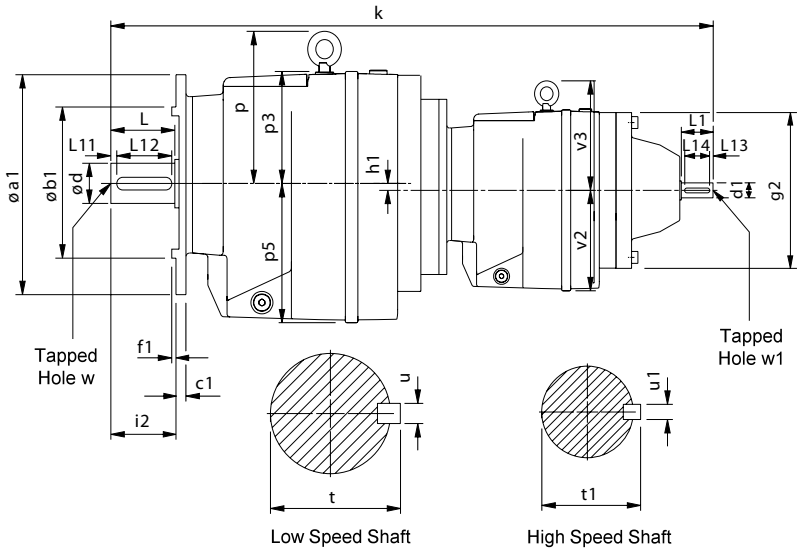

Note: Sizes 03 to 08 are also available as C-Flange (B14) Mounting, please see page 106 for details

all parallel keys are to DIN 6885

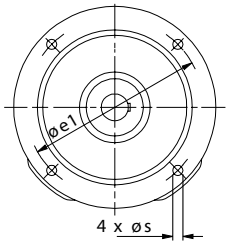
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0342 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 503 | - | 90 | 91 | 6.6 | 76 | - |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 | | |
| | 160 | 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 |

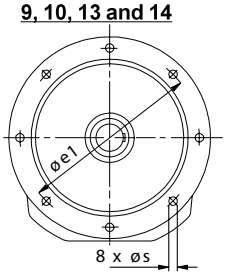
# DIMENSIONS - QUINTUPLE REDUCTION FLANGE MOUNT




**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

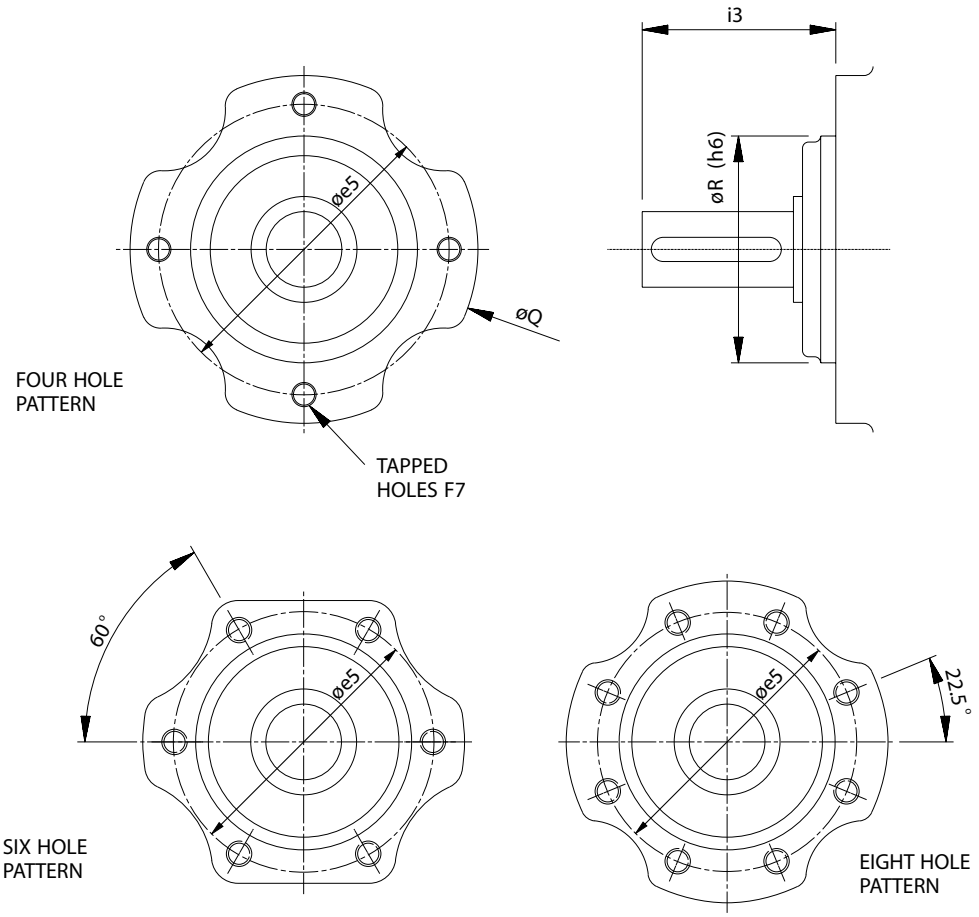
| Size | Øa1 | Øb1 | c1 | Øe1 | f1 | Øg2 | h1 | i2 | k | p | p3 | p5 | s | v2 | v3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M0352 | 120 | 80 | 10 | 100 | 3 | 140 | - | 50 | 518 | - | 90 | 91 | 6.6 | 76 | - |
| | 140 | 95 | 10 | 115 | 3 | | | 50 | | | | | 9 | | |
| | 160 | 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**

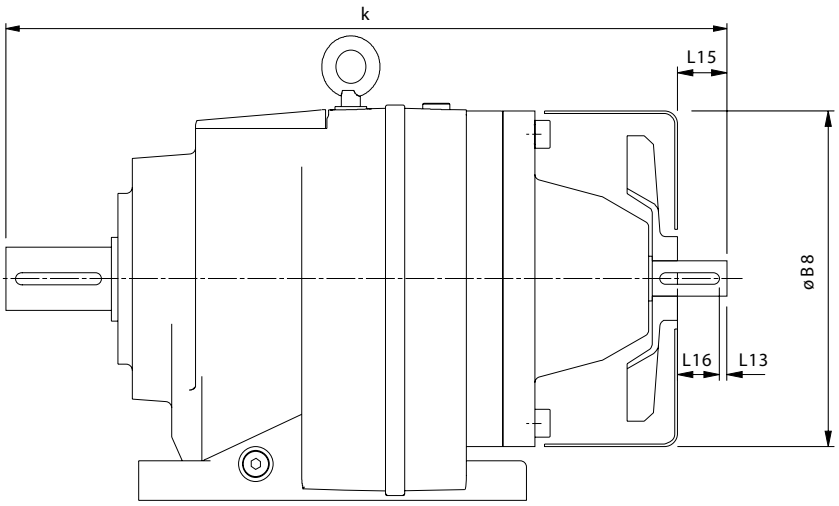
For reducer fan kit modules enter [S] in column 10

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

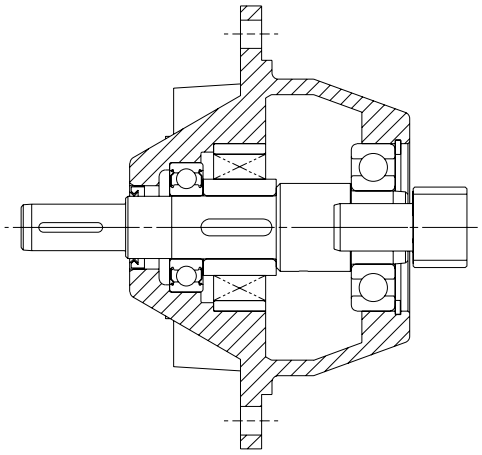
The reducer units listed below can be fitted with an internal backstop, this has no effect of the external unit size. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation input speed must exceed lift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

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

**Column 10 Entry**

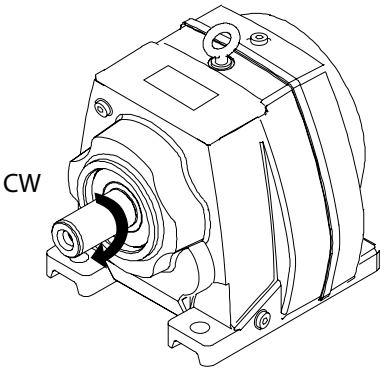
For reducer backstop modules enter W for CCW rotation (or Z if used in conjunction with a fan kit)
X for CW rotation (or Y if used in conjunction with a fan kit)

| 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

# IMPORTANT

## Product Safety Information

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

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

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

1) Fire/Explosion
   (a) Oil mists and vapour are generated within gear units. It is therefore dangerous to use naked lights in the proximity of gearbox openings, due to the risk of fire or explosion.
   (b) In the event of fire or serious overheating (over 300 °C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.

2) Guards - Rotating shafts and couplings must be guarded to eliminate the possibility of physical contact or entanglement of clothing. It should be of rigid construction and firmly secured.

3) Noise - High speed gearboxes and gearbox driven machinery may produce noise levels which are damaging to the hearing with prolonged exposure. Ear defenders should be provided for personnel in these circumstances. Reference should be made to the Department of Employment Code of Practice for reducing exposure of employed persons to noise.

4) Lifting - Where provided (on larger units) only the lifting points or eyebolts must be used for lifting operations (see maintenance manual or general arrangement drawing for lifting point positions). Failure to use the lifting points provided may result in personal injury and/or damage to the product or surrounding equipment. Keep clear of raised equipment.

5) Lubricants and Lubrication
   (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.
   (b) The lubrication status of the equipment must be checked before commissioning. Read and carry out all instructions on the lubricant plate and in the installation and maintenance literature. Heed all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.

6) Electrical Equipment - Observe hazard warnings on electrical equipment and isolate power before working on the gearbox or associated equipment, in order to prevent the machinery being started.

7) Installation, Maintenance and Storage
   (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, application engineering must be consulted regarding special preservation requirements. Unless otherwise agreed, equipment must be stored in a building protected from extremes of temperature and humidity to prevent deterioration.

   The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).
   (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overwrap or wax film preservative. Gloves should be worn when removing these materials. The former can be removed manually, the latter using white spirit as a solvent.

   Preservatives applied to the internal parts of the gear units do not require removal prior to operation.
   (c) Installation must be performed in accordance with the manufacturer's instructions and be undertaken by suitably qualified personnel.
   (d) Before working on a gearbox or associated equipment, ensure that the load has been removed from the system to eliminate the possibility of any movement of the machinery and isolate power supply. Where necessary, provide mechanical means to ensure the machinery cannot move or rotate. Ensure removal of such devices after work is complete.
   (e) Ensure the proper maintenance of gearboxes in operation. Use only the correct tools and approved spare parts for repair and maintenance. Consult the Maintenance Manual before dismantling or performing maintenance work.

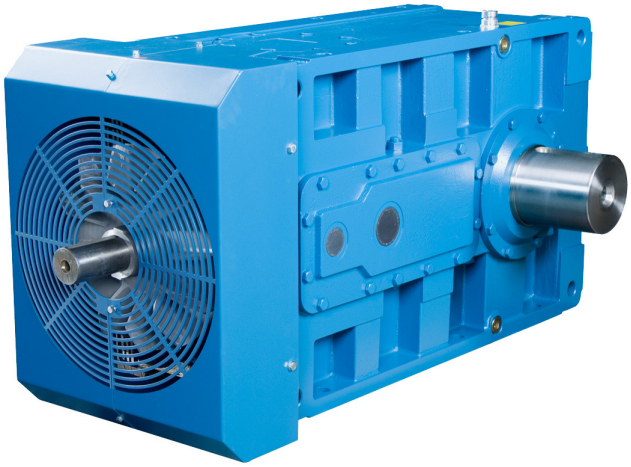
8) Hot Surfaces and Lubricants
   (a) During operation, gear units may become sufficiently hot to cause skin burns. Care must be taken to avoid accidental contact.
   (b) After extended running the lubricant in gear units and lubrication systems may reach temperatures sufficient to cause burns. Allow equipment to cool before servicing or performing adjustments.

9) Selection and Design
   (a) Where gear units provide a backstop facility, ensure that back-up systems are provided if failure of the backstop device would endanger personnel or result in damage.
   (b) The driving and driven equipment must be correctly selected to ensure that the complete machinery installation will perform satisfactorily, avoiding system critical speeds, system torsional vibration, etc.
   (c) The equipment must not be operated in an environment or at speeds, powers, torques or with external loads beyond those for which it was designed.
   (d) As improvements in design are being made continually the contents of this catalogue are not to be regarded as binding in detail, and drawings and capacities are subject to alterations without notice.

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

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

## NOTES



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