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Series F Shaft Mounted Helical



Technical
Up to - 110 kW / 16,500 Nm
Geared Motors
CF-2.01GB0114

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.

SERIES F

NOTES

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GENERAL DESCRIPTION

Series F

Series F shaft mounted geared motors offer ratios from 5 to 100/1 in double reduction, from 100 to 360 in triple and up to 5600/1 in combined reductions. Motors are available up to 110 kW giving a maximum output torque of 16500 Nm.

The series F geared motor is primarily designed as a shaft mounted unit incorporating an integral torque reaction bracket. The units are also available with rubber torque bushes, output flanges, output shafts and KIBO sleeves to allow for trouble free maintenance.

All variants can be fitted with IEC motors of your preference or with our standard own brand motor. Input shaft assemblies are available up to and including F10.

The Range Includes

Ten sizes of units
F02, F03, F04, F05 F06, F07, F08, F09, F10, F11 and F12.

Version T - Standard unit with torque bush
Version W - Standard unit without torque bush
Version F - Standard unit with output flange

Unit type M - Motorised
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 type S - Reducer unit fitted with a fan
Unit type X - Reducer unit fitted with a backstop
Unit type Y - Reducer unit with a fan & backstop

Design Features Include

Patented standard motor connection (IEC or NEMA).

Ability to fit double oil seals on output shaft as required.

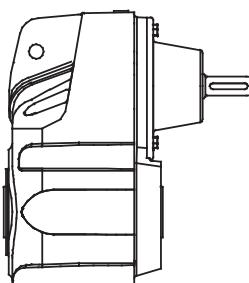
All units are dimensionally interchangeable with other major European manufacturers.

Brake geared motors are available as standard.

Units are manufactured and assembled from a family of modular kits for distributor friendliness maximising availability and flexibility.

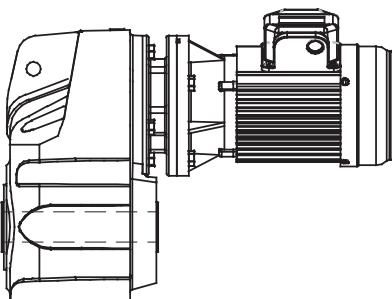
Motorised units can be fitted with a backstop module and reducer units can be fitted with a backstop and fan.

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.
Drawings and 3D-models are available at <http://www.swift-gears.com>



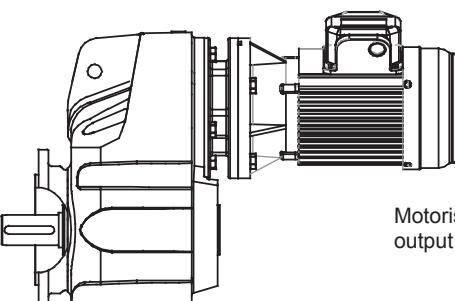
Double reduction/triple shaft mounted reducer

* F 0 4 2 2 5 0 . T R H - 1 - - - - - - - - -



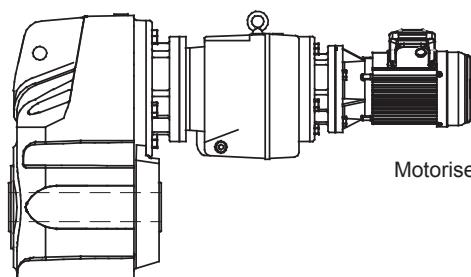
Motorised double/triple reduction shaft mount

* F 0 4 2 2 5 0 . T M H - 1 A . 7 5 A - -



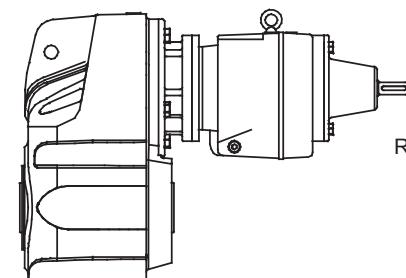
Motorised double/triple reduction with output shaft and flange

* F 0 4 2 2 5 0 . F M C - 1 A . 7 5 A - -



Motorised quadruple shaft mount

* F 0 6 4 2 5 0 0 T M H - 1 A . 1 2 A - -

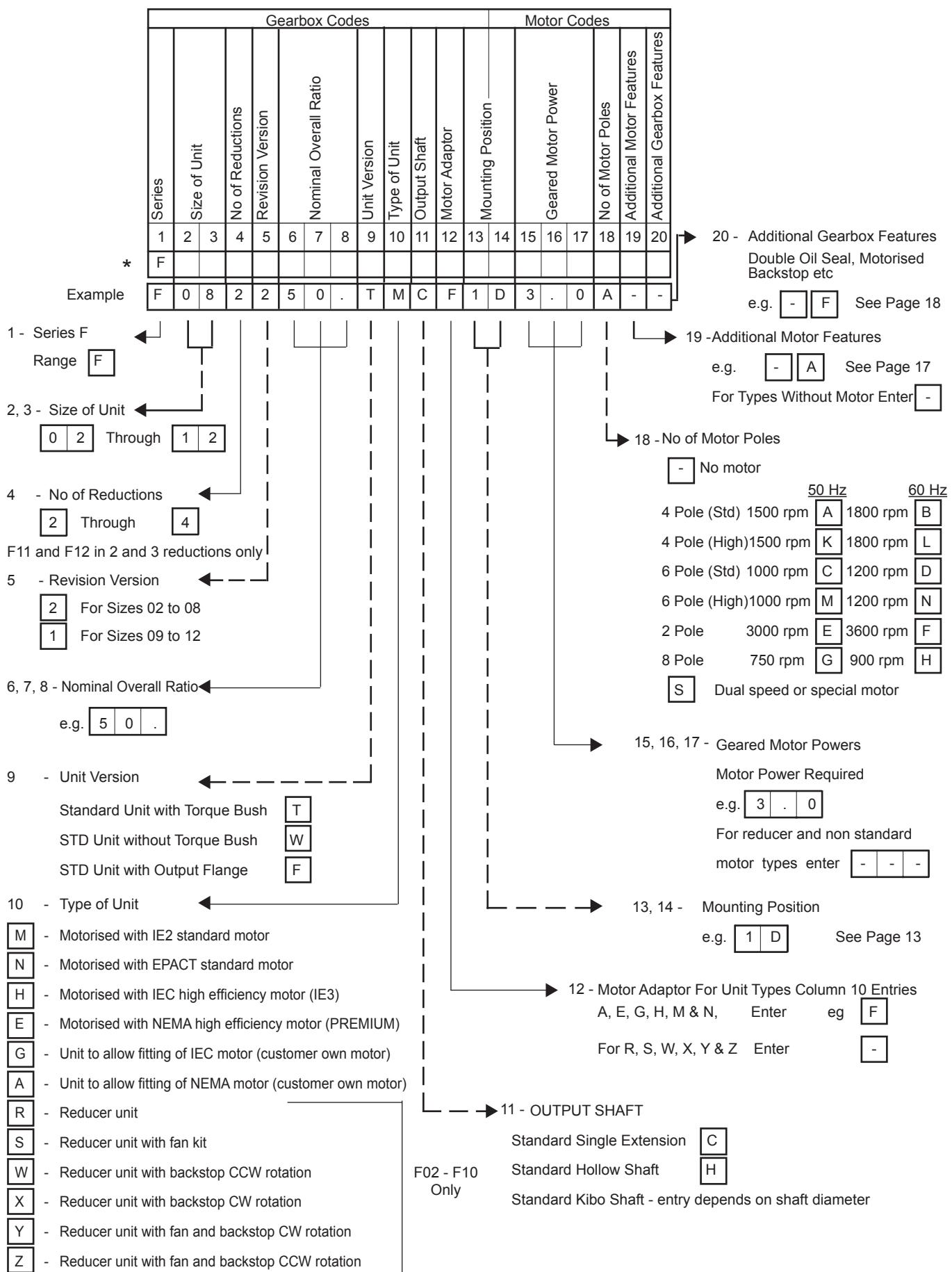


Reducer quadruple shaft mount

* F 0 6 4 2 5 0 0 T R H - 1 - - - - - - - - -

* Typical Unit Designations

UNIT DESIGNATIONS



*This Page May Be Photocopied Allowing The Customer To Enter Their Order
To access the on line configurator please visit www.radicon.com

SERIES F

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 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

SERIES F

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 | Driven Machine | type of load | Driven Machine | type of load |
|--|--------------|---|--------------|---|--------------|
| Cranes main hoists bridge travel trolley travel | † | log haul-incline log haul-well type log turning device | H | log haul presses | H |
| Crusher ore stone sugar | H | main log conveyor off bearing rolls planer feed chains | H | pulp machine reel stock chest | M |
| Dredges cable reels conveyors cutter head drives jig drives manoeuvring winches pumps screen drive stackers utility winches | M | planer floor chains planer tilting hoist re-saw merry-go-round conveyor roll cases slab conveyor small waste conveyor-belt | M | suction roll washers and thickeners | M |
| Dry dock cranes main hoist auxiliary hoist boom, luffing rotating, swing or slew tracking, drive wheels | † | small waste conveyor-chain sorting table | H | winders | M |
| Agitators pure liquids liquids and solids liquids-variable density | U | tipple hoist conveyor | U | Printing presses | † |
| Blowers centrifugal lobe vane | M | tipple hoist drive | H | Pullers barge haul | H |
| Brewing and distilling bottling machinery brew kettles-continuous duty cookers-continuous duty mash tubs-continuous duty scale hopper-frequent starts | M | transfer conveyors | U | Pumps centrifugal proportioning reciprocating | U |
| Can filling machines | M | transfer rolls tray drive trimmer feed waste conveyor | M | single acting; 3 or more cylinders | M |
| Cane knives | M | | M | double acting; 2 or more cylinders | M |
| Car dumpers | H | | M | single acting; 1 or 2 cylinders | M |
| Car pullers | M | | M | double acting; single cylinder | † |
| Clarifiers | U | | M | rotary | † |
| Classifiers | M | | H | gear type | U |
| Clay working machinery brick press briquette machine clay working machinery pug mill | H | | H | lobe, vane | U |
| Compressors centrifugal lobe reciprocating multi-cylinder single cylinder | U | Machine tools bending roll punch press-gear driven notching press- belt driven | M | Rubber and plastics industries | H |
| Conveyors-uniformly loaded or fed apron assembly belt bucket chain flight oven screw | U | plate planers tapping machine other machine tools | H | crackers | M |
| Conveyors-heavy duty not uniformly fed apron assembly belt bucket chain flight live roll oven reciprocating screw shaker | M | main drives auxiliary drives | U | laboratory equipment | H |
| | H | | M | mixed mills | M |
| | M | | H | refiners | M |
| | M | | M | rubber calenders | M |
| | M | | H | rubber mill-2 on line | M |
| | M | | M | rubber mill-3 on line | M |
| | M | | M | sheeter | M |
| | M | | H | tire building machines | † |
| | M | | M | tire and tube press | † |
| | M | | M | openers | M |
| | M | | H | tubers and strainers | M |
| | M | | M | warming mills | M |
| | M | | | Sand muller | M |
| | M | | | Sewage disposal equipment | |
| | M | | | bar screens | U |
| | M | | | chemical feeders | U |
| | M | | | collectors | U |
| | M | | | dewatering screws | M |
| | M | | | scum breakers | M |
| | M | | | slow or rapid mixers | M |
| | M | | | thickeners | M |
| | M | | | vacuum filters | M |
| | M | | | Screens | |
| | M | | | air washing | U |
| | M | | | rotary-stone or gravel | U |
| | M | | | travelling water intake | U |
| | M | | | Slab pushers | M |
| | M | | | Steering gear | † |
| | M | | | Stokers | U |
| | M | | | Sugar industry | |
| | M | | | cane knives | M |
| | M | | | crushers | M |
| | M | | | mills | M |
| | M | | | Textile industry | |
| | M | | | batchers | M |
| | M | | | calenders | M |
| | M | | | cards | M |
| | M | | | dry cans | M |
| | M | | | dryers | M |
| | M | | | dyeing machinery | M |
| | M | | | knitting machines | † |
| | M | | | looms | M |
| | M | | | mangles | M |
| | M | | | nappers | M |
| | M | | | pads | M |
| | M | | | range drives | † |
| | M | | | slashers | M |
| | M | | | soapers | M |
| | M | | | spinners | M |
| | M | | | tenter frames | M |
| | M | | | washers | M |
| | M | | | winders | M |
| | M | | | Windlass | † |

SERIES F

SELECTION PROCEDURE FOR MOTORISED UNITS

EXAMPLE APPLICATION DETAILS

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

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 assembly
belt
bucket
chain

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

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

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

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.

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 | | 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 of Base Mount Unit | Motor Frame Size | | |
| | | | | | F 0 3 2 2 2 0 . _ M _ _ _ _ . 7 5 A - - | | | | | | | |
| 4 POLE | | | | | 2 2 . | 2 5 . | 2 8 . | 3 2 . | 3 6 . | 4 0 . | | |
| 72 | 19.46 | 95 | 3.72 | 4921 | | | | | | | | |
| 65 | 21.59 | 106 | 3.41 | 5037 | | | | | | | | |
| 57 | 24.53 | 120 | 3.06 | 5165 | | | | | | | | |
| 51 | 27.86 | 137 | 2.74 | 5302 | | | | | | | | |
| 46 | 30.68 | 151 | 2.48 | 5394 | | | | | | | | |
| 40 | 35.30 | 173 | 2.26 | 5518 | | | | | | | | |
| 37 | 38.37 | 188 | 1.97 | 5586 | | | | | | | | |
| 31 | 46.07 | 225 | 1.74 | 5718 | | | | | | | | |
| 26 | 55.28 | 271 | 1.43 | 5814 | | | | | | | | |

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 | | 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 of Base Mount Unit | Motor Frame Size | | |
| | | | | | F 0 3 2 2 2 0 . _ M _ _ _ _ . 7 5 A - - | | | | | | | |
| 4 POLE | | | | | 2 2 . | 2 5 . | 2 8 . | 3 2 . | 3 6 . | 4 0 . | | |
| 72 | 19.46 | 95 | 3.72 | 4921 | | | | | | | | |
| 65 | 21.59 | 106 | 3.41 | 5037 | | | | | | | | |
| 57 | 24.53 | 120 | 3.06 | 5165 | | | | | | | | |
| 51 | 27.86 | 137 | 2.74 | 5302 | | | | | | | | |
| 46 | 30.68 | 151 | 2.48 | 5394 | | | | | | | | |
| 40 | 35.30 | 173 | 2.26 | 5518 | | | | | | | | |
| 37 | 38.37 | 188 | 1.97 | 5586 | | | | | | | | |
| 31 | 46.07 | 225 | 1.74 | 5718 | | | | | | | | |
| 26 | 55.28 | 271 | 1.43 | 5814 | | | | | | | | |

Selected unit's output torque (M2) = 106 Nm, therefore unit is acceptable

Go to point 5

SERIES F

SELECTION PROCEDURE FOR MOTORISED UNITS

5 CHECK SERVICE FACTOR

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

Required service factor of gearbox = 1.25

| 0.75 kW | | 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 of Base Mount Unit | Motor Frame Size |
| 4 POLE | | 72 | 19.46 | 95 | 3.72 | 4921 | F 0 3 2 2 2 0 . _ M _ _ _ _ . 7 5 A - - | 29.5 | 80A |
| | | 65 | 21.59 | 106 | 3.41 | 5037 | 2 2 . | | |
| | | 57 | 24.53 | 120 | 3.06 | 5165 | 2 5 . | | |
| | | 51 | 27.86 | 137 | 2.74 | 5302 | 2 8 . | | |
| | | 46 | 30.68 | 151 | 2.48 | 5394 | 3 2 . | | |
| | | 40 | 35.30 | 173 | 2.26 | 5518 | 3 6 . | | |
| | | 37 | 38.37 | 188 | 1.97 | 5586 | 4 0 . | | |
| | | 31 | 46.07 | 225 | 1.74 | 5718 | 5 0 . | | |
| | | 26 | 55.28 | 271 | 1.43 | 5814 | 5 6 . | | |

Selected unit's service factor (Fm) = 3.41, therefore unit is acceptable.

Alternatively a F04 unit could be selected which has a larger diameter output bore

| 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] Spaces to be filled when entering order | Weight of Base Mount Unit | Motor Frame Size |
| 4 POLE | | 72 | 19.46 | 95 | 3.72 | 4921 | F 0 4 2 2 2 0 . _ M _ _ _ _ . 7 5 A - - | 29.5 | 80A |
| | | 65 | 21.59 | 106 | 3.41 | 5037 | 2 2 . | | |
| | | 57 | 24.53 | 120 | 3.06 | 5165 | 2 5 . | | |
| | | 51 | 27.86 | 137 | 2.74 | 5302 | 2 8 . | | |
| | | 46 | 30.68 | 151 | 2.48 | 5394 | 3 2 . | | |
| | | 40 | 35.30 | 173 | 2.26 | 5518 | 3 6 . | | |
| | | 37 | 38.37 | 188 | 1.97 | 5586 | 4 0 . | | |
| | | 31 | 46.07 | 225 | 1.74 | 5718 | 5 0 . | | |
| | | 26 | 55.28 | 271 | 1.43 | 5814 | 5 6 . | | |

Selected unit's service factor (Fm) = 3.41, therefore unit is acceptable.

6 CHECK OVERHUNG LOADS

- If sprocket, gear, etc is mounted on the output shaft then refer to Overhung Loads Procedure, 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] Spaces to be filled when entering order | Weight of Base Mount Unit | Motor Frame Size |
| 4 POLE | | 72 | 19.46 | 95 | 3.72 | 4921 | F 0 3 2 2 2 0 . _ M _ _ _ _ . 7 5 A - - | 29.5 | 80A |
| | | 65 | 21.59 | 106 | 3.41 | 5037 | 2 2 . | | |
| | | 57 | 24.53 | 120 | 3.06 | 5165 | 2 5 . | | |
| | | 51 | 27.86 | 137 | 2.74 | 5302 | 2 8 . | | |
| | | 46 | 30.68 | 151 | 2.48 | 5394 | 3 2 . | | |
| | | 40 | 35.30 | 173 | 2.26 | 5518 | 3 6 . | | |
| | | 37 | 38.37 | 188 | 1.97 | 5586 | 4 0 . | | |
| | | 31 | 46.07 | 225 | 1.74 | 5718 | 5 0 . | | |
| | | 26 | 55.28 | 271 | 1.43 | 5814 | 5 6 . | | |

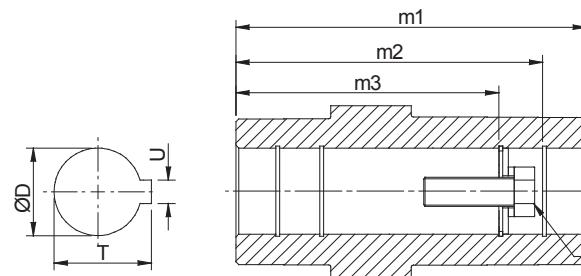
NOTE: If any of the following conditions occur then consult Application Engineering

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

OUTPUT OPTIONS

OUTPUT BORE OPTIONS, COLUMN 11 ENTRY

Standard / Inch Hollow Shaft



Output Shaft Bore

Column 11 Entry

Standard Hollow Shaft

 H

Standard Kibo Shaft *

 *

(* entry depends on shaft diameter see page 118 - 119)

Inch Hollow Shaft

 A

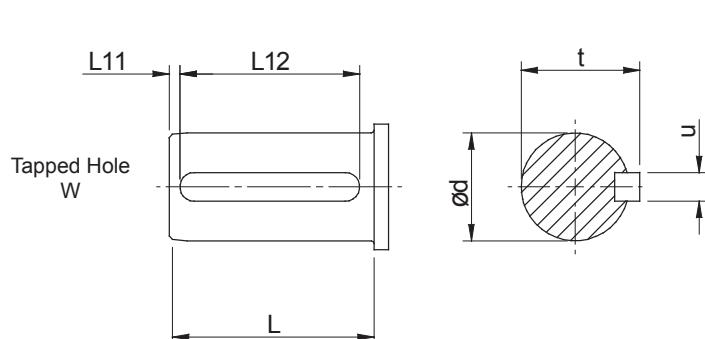
Inch Taper Release †

 †

(† Consult Application Engineering)

| UNIT SIZE | TYPE OF BORE | COL 11 ENTRY | DIMENSIONS | | | | | | |
|-----------|--------------|--------------|-------------------|--------|--------|-------|-------|--------|---------------|
| | | | Ø D | m1 | m2 | m3 | T | U | v3 |
| F02 | Standard | H | 25.021 / 25.000 | 117.5 | 105 | 89 | 28.5 | 8 | M10x50 |
| | Inch | A | 1.001" / 1.000" | 4.63" | 4.13" | 3.5" | 1.11" | 0.250" | 3/8"UNFx2" |
| F03 | Standard | H | 30.025 / 30.000 | 156.5 | 122 | 105 | 33.5 | 8 | M10x50 |
| | Inch | A | 1.251" / 1.250" | 6.16" | 4.8" | 4.13" | 1.37" | 0.250" | 3/8"UNFx2" |
| F04 | Standard | H | 35.021 / 35.000 | 156.5 | 132 | 122 | 38.5 | 10 | M12x55 |
| | Inch | A | 1.376" / 1.375" | 6.16" | 5.20" | 4.80" | 1.53" | 0.313" | 1/2"UNFx2.25" |
| F05 | Standard | H | 40.025 / 40.000 | 179 | 174 | 142 | 43.5 | 12 | M16x70 |
| | Inch | A | 1.501" / 1.500" | 7.05" | 6.85" | 5.59" | 1.67" | 0.375" | 5/8"UNFx2.75" |
| F06 | Standard | H | 40.025 / 40.000 | 205 | 174 | 156 | 43.5 | 12 | M16x70 |
| | Inch | A | 1.501" / 1.500" | 8.07" | 6.85" | 6.14" | 1.67" | 0.375" | 5/8"UNFx2.75" |
| F07 | Standard | H | 50.025 / 50.000 | 233.5 | 198 | 183 | 54 | 14 | M16x70 |
| | Inch | A | 2.001" / 2.000" | 9.19" | 7.80" | 7.20" | 2.23" | 0.500" | 5/8"UNFx2.75" |
| F08 | Standard | H | 60.030 / 60.000 | 270 | 230 | 210 | 64.5 | 18 | M20x80 |
| | Inch | A | 2.376" / 2.375" | 10.63" | 9.06" | 8.27" | 2.66" | 0.625" | 3/4"UNFx3.25" |
| F09 | Standard | H | 70.030 / 70.000 | 330 | 270 | - | 75 | 20 | M20x80 |
| | Inch | A | 2.751" / 2.750" | 12.99" | 10.63" | - | 3.04" | 0.625" | 3/4"UNFx3.25" |
| F10 | Standard | H | 80.030 / 80.000 | 370 | 313 | - | 85.5 | 22 | M20x80 |
| | Inch | A | 3.251" / 3.250" | 14.57" | 12.32" | - | 3.59" | 0.750" | 3/4"UNFx3.25" |
| F11 | Standard | H | 90.035 / 90.000 | 350 | - | - | 95.4 | 25 | - |
| | Inch | - | - | - | - | - | - | - | - |
| F12 | Standard | H | 100.035 / 100.000 | 410 | - | - | 106.4 | 28 | - |
| | Inch | - | - | - | - | - | - | - | - |

OUTPUT OPTIONS

OUTPUT SHAFT OPTIONS COLUMN 11 ENTRYColumn 11 EntryStandard Single Extension CInch Single Extension N

| UNIT SIZE | TYPE OF BORE | COL 11 ENTRY | DIMENSIONS | | | | | | |
|-----------|--------------|--------------|-------------------|-------|-----|-------|-------|---------|----------------|
| | | | $\varnothing D$ | L | L11 | L12 | t | u | w |
| F02 | Standard | C | - | - | - | - | - | - | - |
| | Inch | N | - | - | - | - | - | - | - |
| F03 | Standard | C | 25.015 / 25.002 | 47 | 3 | 40 | 28 | 8 | M10x22 |
| | Inch | N | 1.0000" / 0.9995" | 1.85" | * | 1.57" | 1.11" | 0.250" | 3/8"UNFx 0.75" |
| F04 | Standard | C | 30.015 / 30.002 | 56 | 3 | 50 | 33 | 8 | M12x28 |
| | Inch | N | 1.2500" / 1.2495" | 2.20" | * | 2.00" | 1.36" | 0.250" | 1/2"UNFx 1.13" |
| F05 | Standard | C | 35.018" / 35.002" | 66 | 3 | 60 | 38 | 10 | M16x36 |
| | Inch | N | 1.3750" / 1.3745" | 2.60" | * | 2.38" | 1.51" | 0.3125" | 5/8"UNFx 1.5" |
| F06 | Standard | C | 40.018 / 40.002 | 76 | 3 | 70 | 43 | 12 | M16x36 |
| | Inch | N | 1.625" / 1.624" | 3.00" | * | 2.38" | 1.78" | 0.375" | 5/8"UNFx 1.5" |
| F07 | Standard | C | 50.018 / 50.002 | 95 | 3 | 80 | 53.5 | 14 | M16x36 |
| | Inch | N | 2.002" / 1.999" | 3.74" | * | 2.75" | 2.23" | 0.500" | 5/8"UNFx 1.5" |
| F08 | Standard | C | 60.030 / 60.011 | 114 | 3 | 100 | 64 | 18 | M20x42 |
| | Inch | N | 2.375" / 2.374" | 4.49" | * | 3.69" | 2.65 | .625" | 3/4"UNFx 1.65" |
| F09 | Standard | C | 70.030 / 70.011 | 135 | 3 | 110 | 74.5 | 20 | M20x42 |
| | Inch | N | 2.875" / 2.874" | 5.32" | * | 4.63" | 3.20" | 0.750" | 3/4"UNFx 1.65" |
| F10 | Standard | C | 90.035 / 90.013 | 172 | 5 | 140 | 95 | 25 | M20x42 |
| | Inch | N | 3.625" / 3.624" | 6.77" | * | 5.94" | 4.01" | 0.875" | 3/4"UNFx 1.65" |
| F11 | Standard | C | 90.025 / 90.003 | 170 | 14 | 141 | 95 | 25 | M20x42 |
| | Inch | - | - | - | - | - | - | - | - |
| F12 | Standard | C | 110.025 / 110.003 | 210 | 25 | 160 | 116 | 28 | M24x55 |
| | Inch | - | - | - | - | - | - | - | - |

* - Inch Shaft has an open ended keyway, therefore no "L11" dimensions are required

SERIES F

MOTOR ADAPTERS

DOUBLE REDUCTION UNITS

IEC Flanges B14 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | |
|----------------------|--|----|----------------|-----------|----------------|-----------|-----------|---------|-----------|-----------|-----------|
| | COLUMN 12 ENTRY | | F0222 | | F0322 F0422 | | F0522 | | F0622 | | F0722 |
| | | | RATIO COVERAGE | 6.3 - 14. | 16. - 90. | 7.1 - 25. | 28. - 100 | 5.0 14. | 16. - 71. | 7.1 - 20. | 22. - 100 |
| 71 | *H | *H | - | H | - | - | - | - | - | - | - |
| 80 | *B | *K | B | K | - | G | - | G | - | G | |
| 90 | *D | *R | D | R | Z | J | Z | J | - | J | |
| 100 | *E | *S | E | S | B | L | B | L | B | L | |
| 112 | *E | *S | E | S | B | L | B | L | B | L | |
| 132 | - | - | - | - | - | - | - | - | D | N | |

Motor codes marked with * are not suitable for use with Kibo Bushing

 Limited Availability / Non Preferred

IEC Flanges B5 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | | |
|----------------------|--|----|----------------|-----------|----------------|-----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | COLUMN 12 ENTRY | | F0222 | | F0322 F0422 | | F0522 | | F0622 | | F0722 | F0822 | F0921 | F1021 | F1121 | F1221 | |
| | | | RATIO COVERAGE | 6.3 - 14. | 16. - 90. | 7.1 - 25. | 28. - 100 | 5.0 14. | 16. - 71. | 7.1 - 20. | 22. - 100 | 7.1 - 16. | 20. - 100 | 7.1 - 25. | 28. - 100 | 5.0 - 63. | 5.0 - 63. |
| 63 | *F | *F | - | F | - | V | - | V | - | - | - | - | - | - | - | - | - |
| 71 | *G | *G | - | G | - | D | - | D | - | - | - | - | - | - | - | - | - |
| 80 | *A | *J | *A | *J | W | F | W | F | - | F | - | D | - | E | - | - | - |
| 90 | *C | *Q | *C | *Q | Y | H | Y | H | - | H | - | E | - | F | - | - | - |
| 100 | - | - | - | - | A | K | A | K | A | K | A | F | - | G | - | E | - |
| 112 | - | - | - | - | A | K | A | K | A | K | A | F | - | G | - | E | - |
| 132 | - | - | - | - | N | P | N | P | C | M | B | G | - | H | - | F | - |
| 160 | - | - | - | - | - | - | - | - | E | - | C | H | A | J | A | G | B |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | B | K | B | H | C |
| 200 | - | - | - | - | - | - | - | - | - | - | - | C | - | C | - | D | C |
| 225 | - | - | - | - | - | - | - | - | - | - | - | D | - | D | - | E | D |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | F | E |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | F |

NEMA Flanges C face Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | | | | | | | |
|----------------------|--|----|----------------|-----------|----------------|-----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| | COLUMN 12 ENTRY | | F0222 | | F0322 F0422 | | F0522 | | F0622 | | F0722 | F0822 | F0921 | F1021 | | |
| | | | RATIO COVERAGE | 6.3 - 14. | 16. - 90. | 7.1 - 25. | 28. - 100 | 5.0 14. | 16. - 71. | 7.1 - 20. | 22. - 100 | 7.1 - 16. | 20. - 100 | 7.1 - 25. | 28. - 100 | |
| 56C | *T | *U | T | U | - | Q | - | Q | - | Q | - | M | - | - | - | - |
| 143/145TC | *U | *W | U | W | - | R | - | R | - | R | - | N | - | - | - | - |
| 182/184TC | *X | - | *X | - | S | T | S | T | S | T | J | P | - | S | - | P |
| 213/215TC | - | - | - | - | U | - | U | - | U | V | K | Q | - | T | - | Q |
| 254/256TC | - | - | - | - | - | - | - | - | W | - | L | U | P | U | L | R |
| 284/286TC | - | - | - | - | - | - | - | - | - | - | - | Q | V | M | S | |
| 324/326TC | - | - | - | - | - | - | - | - | - | - | - | R | W | N | T | |

SERIES F

MOTOR ADAPTERS

TRIPLE REDUCTION UNITS

IEC Flanges B14 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | |
|----------------------|--|-----------------|-------|-------|-------|-------|---|
| | F0232 | F0332 F0432 | F0532 | F0632 | F0732 | F0832 | |
| | RATIO COVERAGE | COLUMN 12 ENTRY | | | | | |
| 71 | | | | | | | |
| 80 | | | | | | | |
| 90 | | | | | | | |
| 100 | | | | | | | |
| 112 | | | | | | | |
| 132 | | | | | | | N |

Motor codes marked with * are not suitable for use with Kibo Bushing



Limited Availability / Non Preferred

IEC Flanges B5 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | | |
|----------------------|--|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | F0232 | F0332 F0432 | F0532 | F0632 | F0732 | F0832 | F0931 | F1031 | F1131 | F1231 |
| | RATIO COVERAGE | COLUMN 12 ENTRY | | | | | | | | |
| 63 | | | | | | | | | | |
| 71 | | | | | | | | | | |
| 80 | | | | | | | | | | |
| 90 | | | | | | | | | | |
| 100 | | | | | | | | | | |
| 112 | | | | | | | | | | |
| 132 | | | | | | | | | | |
| 160 | | | | | | | | | | |
| 180 | | | | | | | | | | |
| 200 | | | | | | | | | | |
| 225 | | | | | | | | | | |

NEMA Flanges C face Column 12 entry for units type A (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | | |
|----------------------|--|-----------------|-------|-------|-------|-------|-------|-------|--|
| | F0232 | F0332 F0432 | F0532 | F0632 | F0732 | F0832 | F0931 | F1031 | |
| | RATIO COVERAGE | COLUMN 12 ENTRY | | | | | | | |
| 56C | | | | | | | | | |
| 143/145TC | | | | | | | | | |
| 182/184TC | | | | | | | | | |
| 213/215TC | | | | | | | | | |
| 254/256TC | | | | | | | | | |
| 284/286TC | | | | | | | | | |
| 324/326TC | | | | | | | | | |

MOTOR ADAPTERS

QUADRUPLE REDUCTION UNITS

IEC Flanges B14 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|--|
| | F0342 F0442 | F0542 | F0642 | F0742 | F0842 | F0941 | F1041 | |
| COLUMN 12 ENTRY | RATIO COVERAGE | | | | | | | |
| 71 | H | H | H | H | - | - | - | |
| 80 | K | K | K | K | G | G | G | |
| 90 | R | R | R | R | J | J | J | |
| 100 | - | - | - | - | L | L | L | |
| 112 | - | - | - | - | L | L | L | |
| 132 | - | - | - | - | - | - | N | |

 Limited Availability / Non Preferred
IEC Flanges B5 Column 12 entry for units type G (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|--|
| | F0342 F0442 | F0542 | F0642 | F0742 | F0842 | F0941 | F1041 | |
| COLUMN 12 ENTRY | RATIO COVERAGE | | | | | | | |
| 63 | F | F | F | F | V | V | - | |
| 71 | G | G | G | G | D | D | - | |
| 80 | J | J | J | J | F | F | F | |
| 90 | Q | Q | Q | Q | H | H | H | |
| 100 | - | - | - | - | K | K | K | |
| 112 | - | - | - | - | K | K | K | |
| 132 | - | - | - | - | P | P | M | |

NEMA Flanges C face Column 12 entry for units type A (Column 10)

| MOTOR / FRAME FLANGE | UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER | | | | | | | |
|----------------------|--|-----------|-----------|-------|-----------|-----------|-----------|-----------|
| | F0342 F0442 | F0542 | F0642 | F0742 | F0842 | F0941 | F1041 | |
| COLUMN 12 ENTRY | RATIO COVERAGE | | | | | | | |
| 56C | U | 400 - 50C | 320 - 40C | U | 400 - 50C | 400 - 56C | 400 - 56C | 400 - 56C |
| 143/145TC | W | W | W | W | Q | Q | Q | Q |
| 182/184TC | - | - | - | - | T | T | T | T |
| 213/215TC | - | - | - | - | - | - | - | V |

SERIES F

LUBRICATION

Gear units 02, 03, 04, 05, 06 & 07 will be supplied filled with a quantity of EP mineral oil (Grade 6E) appropriate to the intended mounting position. However if, as requested, the unit is supplied without lubricant then the oil quantity required is obtained from Table 2. Gear units 08, 09, 10 & 12 are supplied without lubricant. Recommended lubricants are listed in the Approved Lubricant scheme booklet.

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) -30°C to 20°C (type H) | 0°C to 35°C |
| EP Mineral Oil (type E) | 5E (VG 220) | 6E (VG 320) |
| Polyalphaolefin based Synthetic (type H) | 5H (VG 220) | 5H (VG 220) |

TABLE 2 Lubrication Quantity (Litres)

| DOUBLE REDUCTION | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Size | F0222 | F0322 | F0422 | F0522 | F0622 | F0722 | F0822 | F0921 | F1021 | F1121 | F1221 |
| MOUNTING POSITION | 1 | 0.8 | 1.3 | 1.3 | 2.1 | 3.5 | 6.3 | 10.7 | 19 | 34 | 28 |
| | 2 | 0.4 | 0.8 | 0.8 | 1.4 | 2.3 | 3.5 | 7.1 | 13 | 22 | 17 |
| | 3 | 0.4 | 1.1 | 1.1 | 1.4 | 2.3 | 3.4 | 8.8 | 17 | 28 | 22 |
| | 4 | 0.5 | 0.8 | 0.8 | 1.8 | 3.0 | 5.0 | 4.7 | 15 | 27 | 24 |
| | 5 | 1.1 | 1.2 | 1.2 | 2.8 | 4.5 | 8.0 | 9.7 | 24 | 43 | 34 |
| | 6 | 1.3 | 2.0 | 2.0 | 3.2 | 5.2 | 9.0 | 17.2 | 25 | 43 | 30 |

| TRIPLE REDUCTION | | | | | | | | | | | |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unit Size | F0232 | F0332 | F0432 | F0532 | F0632 | F0732 | F0832 | F0931 | F1031 | F1131 | F1231 |
| MOUNTING POSITION | 1 | 0.8 | 1.2 | 1.3 | 2.1 | 3.5 | 6.3 | 10.4 | 19 | 34 | 27 |
| | 2 | 0.4 | 0.8 | 0.8 | 1.4 | 2.3 | 3.5 | 7.3 | 15 | 24 | 16 |
| | 3 | 0.4 | 1.1 | 1.1 | 1.4 | 2.3 | 3.4 | 9.2 | 17 | 28 | 21 |
| | 4 | 0.5 | 0.8 | 0.8 | 1.8 | 3.0 | 5.0 | 5.3 | 16 | 27 | 23 |
| | 5 | 1.1 | 1.2 | 1.2 | 2.8 | 4.5 | 8.0 | 9.7 | 24 | 43 | 33 |
| | 6 | 1.3 | 2.0 | 2.0 | 3.2 | 5.2 | 9.0 | 17.4 | 25 | 43 | 29 |

| QUADRUPLE REDUCTION | | | | | | | | | | | |
|---------------------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|-----|
| Unit Size | F0342 | | F0442 | | F0542 | | F0642 | | F0742 | | |
| | Primary | Secondary | |
| | M0122 | F0322 | M0122 | F0422 | M0322 | F0522 | M0322 | F0622 | M0322 | F0722 | |
| MOUNTING POSITION | 1 | 0.5 | 1.3 | 0.5 | 1.3 | 0.8 | 2.1 | 0.8 | 3.5 | 0.8 | 6.3 |
| | 2 | 0.5 | 0.8 | 0.5 | 0.8 | 0.8 | 1.4 | 0.8 | 2.3 | 0.8 | 3.5 |
| | 3 | 0.5 | 1.1 | 0.5 | 1.1 | 0.8 | 1.4 | 0.8 | 2.3 | 0.8 | 3.4 |
| | 4 | 0.5 | 0.8 | 0.5 | 0.8 | 0.8 | 1.8 | 0.8 | 3.0 | 0.8 | 5.0 |
| | 5 | 0.7 | 1.2 | 0.7 | 1.2 | 1.1 | 2.8 | 1.1 | 4.5 | 1.1 | 8.0 |
| | 6 | 1.0 | 2.0 | 1.0 | 2.0 | 1.4 | 3.2 | 1.4 | 5.2 | 1.4 | 9.0 |

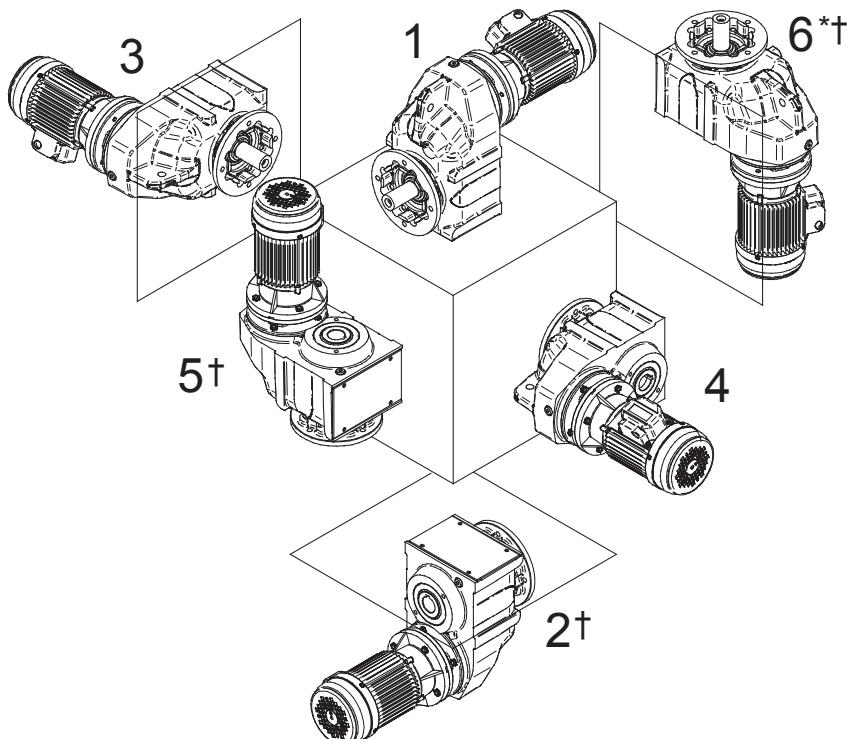
| QUADRUPLE REDUCTION..CONT | | | | | | |
|---------------------------|---------|-----------|---------|-----------|---------|-----------|
| Unit Size | F0842 | | F0941 | | F1041 | |
| | Primary | Secondary | Primary | Secondary | Primary | Secondary |
| | M0522 | F0822 | M0522 | F0921 | M0722 | F1021 |
| MOUNTING POSITION | 1 | 1.5 | 10.7 | 1.5 | 19.0 | 2.6 |
| | 2 | 1.5 | 7.1 | 1.5 | 13.0 | 2.6 |
| | 3 | 1.5 | 8.8 | 1.5 | 17.0 | 2.6 |
| | 4 | 1.5 | 4.7 | 1.5 | 15.0 | 2.6 |
| | 5 | 2.0 | 9.7 | 2.0 | 24.0 | 3.2 |
| | 6 | 2.6 | 17.2 | 2.6 | 25.0 | 4.7 |

NOTE: Primary units filled with Grade 6E lubricant suitable for all ambient temperatures between 0°C and 35°C

MOUNTING POSITIONS

Mounting Positions

Enter - for units with no oil fill

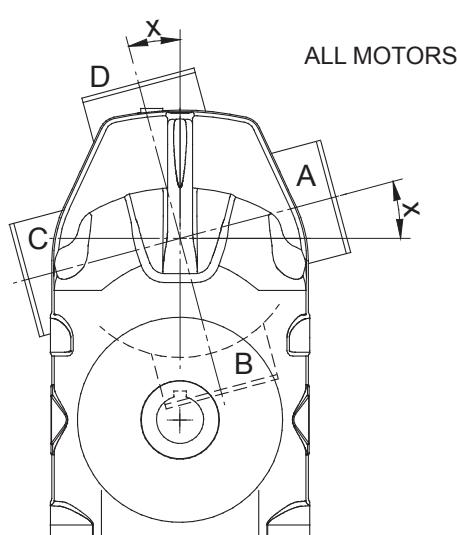
COLUMN 13 ENTRY

* Mounting Position 6 is not recommended for Geared Motors - Consult Application Engineering

† Gear Units selected for use in mounting positions 2, 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below

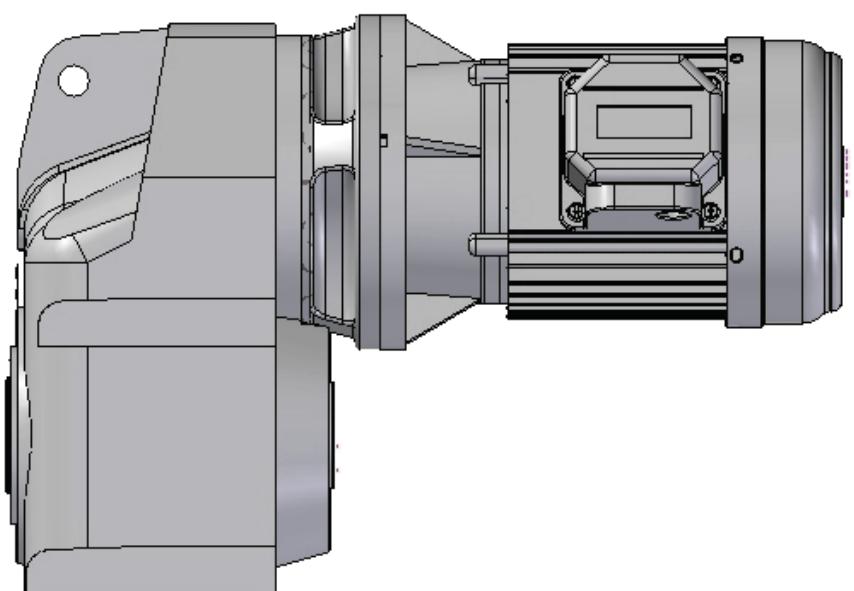
| Unit Size | Input Speed (rpm) | | | |
|-----------|---------------------------------|--------|--------|--------|
| | < 1000 | < 1500 | < 1800 | > 1800 |
| F02 - F07 | All | All | All | |
| F0822 | All | 9.0 | 9.0 | |
| F0921 | 8.0 | 11.0 | 12.0 | |
| F1021 | 11.0 | 16.0 | 18.0 | |
| F1121 | Consult Application Engineering | | | |
| F1221 | | | | |

MOUNTING POSITIONS - SHOWN AS MOTORIZED - APPLIES ALSO FOR REDUCERS

COLUMN 14 ENTRY

| Column 14 Entry | Angle X | | | | |
|-----------------|----------------------------|------|------|--------|--------|
| | F02 | F03 | F04 | F05 | F06 |
| A | 15° | 23° | 23° | 9.5° | 16.5° |
| B | 105° | 113° | 113° | 99.5° | 106.5° |
| C | 195° | 203° | 203° | 189.5° | 196.5° |
| D | 285° | 293° | 293° | 279.5° | 286.5° |
| - | Reducer or no motor fitted | | | | |

| Column 14 Entry | Angle X | | | | |
|-----------------|----------------------------|-------------------------|------|--|--|
| | F07 | F08, F09, F10, F11, F12 | | | |
| A | 28° | | 0° | | |
| B | 118° | | 90° | | |
| C | 208° | | 180° | | |
| D | 298° | | 270° | | |
| - | Reducer or no motor fitted | | | | |



**MOTORISED
SERIES F**

SERIES F

MOTOR

PERFORMANCE DATA

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

 High Power Motor (Non Standard)

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

Recalculation Factors

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

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

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

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

 High Power Motor (Non Standard)

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

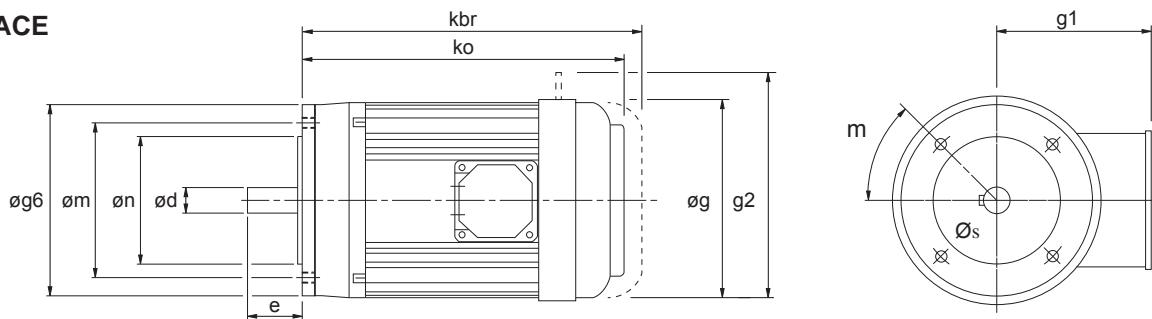
60 Hz Operation

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

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

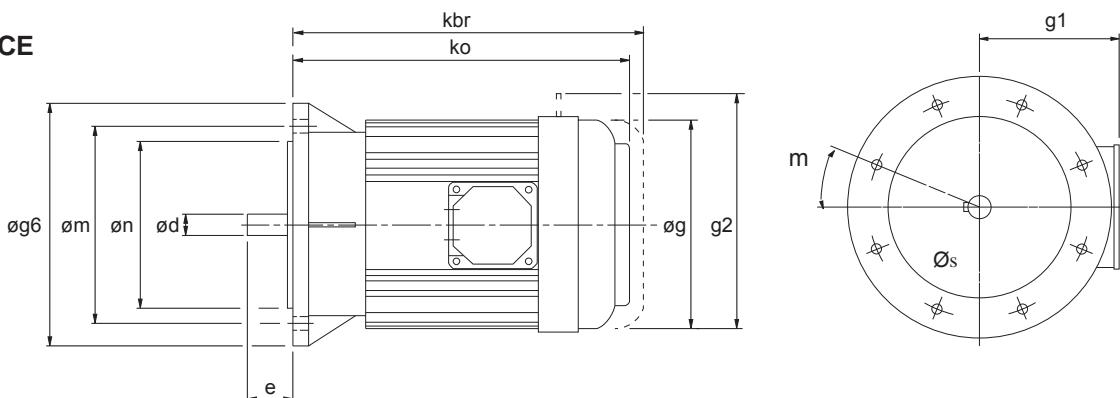
MOTOR DETAILS

B14 'C' FACE



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

B5 'D' FACE



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

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

SERIES F
ADDITIONAL
MOTOR FEATURES

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

SERIES F

ADDITIONAL GEARBOX FEATURES

ADDITIONAL GEARBOX FEATURES - COLUMN 20 ENTRY

| Column 20 Entry | Double Outputshaft Oil Seals ** | Oil Level Glass - F10 | F06 | * 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 special additional gearbox features for example :-

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

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

** Double output seals are not available for sizes F02 & F05.

SERIES F

EXACT RATIOS

EXACT RATIOS - DOUBLE REDUCTION

| Column Entry | | | F0222 | F0322 | F0422 | F0522 | F0622 | F0722 | F0822 | F0921 | F1021 | F1121 | F1221 |
|--------------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|
| 6 | 7 | 8 | | | | | | | | | | | |
| 4 . 5 | - | - | - | - | - | - | - | - | - | - | 4.53 | 4.63 | |
| 5 . 0 | - | - | - | 4.841 | - | - | - | - | 5.085 | 5.107 | 5.16 | 5 | |
| 5 . 6 | - | - | - | - | - | - | - | - | - | - | 5.53 | 5.73 | |
| 6 . 3 | 5.903 | - | - | 6.806 | - | - | - | - | 6.567 | 6.433 | 6.3 | 6.19 | |
| 7 . 1 | 7.974 | 6.262 | 6.262 | 7.628 | 7.494 | 6.772 | 6.959 | 7.000 | 7.133 | 7.2 | 7.31 | | |
| 8 . 0 | - | - | - | - | - | - | - | - | 7.846 | 7.758 | 8.2 | 7.9 | |
| 9 . 0 | 9.069 | 8.784 | 8.784 | 8.563 | 8.750 | 9.380 | 9.865 | 8.807 | 8.812 | 8.75 | 9.19 | | |
| 1 0 . | 10.27 | 9.680 | 9.680 | 10.87 | 9.807 | 10.54 | 10.96 | 10.13 | 9.772 | 9.97 | 9.92 | | |
| 1 1 . | - | - | - | 12.33 | - | - | - | 11.35 | 11.48 | 11.33 | 11.55 | | |
| 1 2 . | 13.14 | 10.99 | 10.99 | - | 11.009 | 11.59 | 12.19 | 12.68 | 12.39 | 12.9 | 12.48 | | |
| 1 4 . | 14.16 | 13.96 | 13.96 | 14.70 | 13.98 | 15.13 | 15.76 | 14.66 | 14.46 | 13.66 | 13.88 | | |
| 1 6 . | 17.88 | 15.86 | 15.86 | 16.93 | 15.85 | 17.21 | 17.70 | 16.37 | 15.61 | 15.56 | 14.99 | | |
| 1 8 . | - | - | - | 19.69 | - | - | - | 17.58 | 18.07 | 17.96 | 17.77 | | |
| 2 0 . | 20.27 | 19.46 | 19.46 | - | 18.90 | 20.89 | 20.77 | 20.04 | 20.46 | 20.46 | 19.19 | | |
| 2 2 . | 23.16 | 21.59 | 21.59 | 22.03 | 21.76 | 22.98 | 23.40 | 22.70 | 22.76 | 22.42 | 22.84 | | |
| 2 5 . | 25.77 | 24.52 | 24.52 | 23.48 | 25.31 | 26.41 | 27.24 | 25.88 | 21.70 | 25.54 | 24.67 | | |
| 2 8 . | 28.41 | 27.86 | 27.86 | 27.83 | 28.32 | 29.95 | 30.21 | 28.41 | 24.45 | 28.4 | 28.92 | | |
| 3 2 . | 31.26 | 30.68 | 30.68 | 29.71 | 30.18 | 33.03 | 33.07 | 31.56 | 28.46 | 32.34 | 31.23 | | |
| 3 6 . | 36.63 | 35.30 | 35.30 | 36.87 | 35.77 | 37.83 | 37.41 | 36.69 | 31.57 | 34.96 | 35.61 | | |
| 4 0 . | 43.94 | 38.37 | 38.37 | 43.47 | 38.19 | 42.77 | 42.23 | 40.76 | 34.55 | 39.83 | 38.46 | | |
| 4 5 . | - | - | - | 47.60 | - | - | - | 44.58 | 39.09 | 44.74 | 43.75 | | |
| 5 0 . | 51.22 | 46.07 | 46.07 | - | 47.40 | 49.59 | 51.19 | 49.22 | 44.13 | 50.96 | 47.26 | | |
| 5 6 . | 56.91 | 55.28 | 55.28 | 58.34 | 55.89 | 59.14 | 59.69 | 57.58 | 53.49 | 51.85 | 54.03 | | |
| 6 3 . | 68.54 | 62.29 | 62.29 | 65.02 | 61.20 | 64.77 | 65.57 | 63.56 | 62.38 | 59.06 | 58.36 | | |
| 7 1 . | 78.56 | 72.41 | 72.41 | 72.92 | 75.00 | 77.72 | 80.36 | 67.71 | 68.52 | - | - | | |
| 8 0 . | - | - | - | - | - | - | - | 76.14 | 83.97 | - | - | | |
| 9 0 . | 89.28 | 82.18 | 82.18 | - | 83.59 | 89.42 | 87.75 | 87.44 | 91.70 | - | - | | |
| 1 0 0 | - | 93.43 | 93.43 | - | 93.75 | 99.36 | 101.05 | 98.32 | 105.60 | - | - | | |

SERIES F

EXACT RATIOS

EXACT RATIOS - TRIPLE REDUCTION

| Column Entry | | | F0232 | F0332 | F0432 | F0532 | F0632 | F0732 | F0832 | F0931 | F1031 | F1131 | F1231 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| 6 | 7 | 8 | | | | | | | | | | | |
| 4 5 . | - | - | - | - | - | - | - | - | - | - | 45.6 | 44.96 | |
| 5 0 . | - | - | - | - | - | - | - | - | - | - | 51.94 | 48.56 | |
| 5 6 . | - | - | - | - | - | - | - | - | - | - | 55.67 | 58.27 | |
| 6 3 . | - | - | - | - | - | - | - | - | - | - | 63.42 | 62.94 | |
| 7 1 . | - | - | - | - | - | - | - | - | - | - | 72.26 | 72.17 | |
| 8 0 . | - | - | - | 78.8 | - | - | - | - | - | - | 82.3 | 77.95 | |
| 9 0 . | 92.02 | - | - | 86.8 | - | - | - | - | - | - | 90.56 | 93.43 | |
| 1 0 0 | 101.5 | 99.52 | 99.52 | 99.86 | 101.4 | 108.6 | 114.2 | 102.5 | 102.8 | 103.15 | 100.91 | | |
| 1 1 2 | 111.6 | 109.7 | 109.7 | 108.6 | 111.6 | 115.7 | 124.9 | 113.9 | 114.2 | 110.94 | 115.39 | | |
| 1 2 5 | 130.8 | 120.7 | 120.7 | 130.3 | 128.4 | 137.1 | 141.3 | 132.3 | 129.5 | 126.37 | 124.63 | | |
| 1 4 0 | - | - | - | - | - | - | - | - | 147.0 | 143.9 | 140.77 | 139.88 | |
| 1 6 0 | 156.9 | 141.5 | 141.5 | 156.4 | 139.6 | 146.4 | 159.5 | 160.8 | 162.9 | 160.35 | 151.08 | | |
| 1 8 0 | 182.9 | 169.7 | 169.7 | 176.2 | 167.6 | 181.7 | 193.4 | 177.5 | 187.7 | 178.07 | 181.27 | | |
| 2 0 0 | 203.3 | 197.8 | 197.8 | 204.9 | 201.1 | 214.2 | 225.5 | 207.7 | 205.2 | 202.84 | 195.79 | | |
| 2 2 5 | 244.8 | 219.8 | 219.8 | 232.5 | 226.6 | 234.6 | 247.7 | 229.3 | 236.4 | 225.49 | 229.54 | | |
| 2 5 0 | - | - | - | - | - | - | - | 244.2 | 253.9 | 256.85 | 247.92 | | |
| 2 8 0 | 280.6 | 264.7 | 264.7 | 264.3 | 263.4 | 287.5 | 303.6 | 274.6 | 272.7 | 277.27 | 285.33 | | |
| 3 1 5 | 318.8 | 303.4 | 303.4 | - | 298.9 | 320.4 | 331.5 | 315.4 | 319.8 | 315.83 | 308.18 | | |
| 3 6 0 | - | 344.8 | 344.8 | - | 339.8 | 359.4 | 381.8 | 354.7 | 343.6 | - | - | | |

EXACT RATIOS - QUAD REDUCTION

| Column Entry | | | F0342 | F0442 | F0542 | F0642 | F0742 | F0842 | F0941 | F1041 |
|--------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6 | 7 | 8 | | | | | | | | |
| 3 2 0 | - | - | 314.4 | - | - | - | - | - | - | - |
| 3 6 0 | - | - | 351.7 | - | - | - | - | - | - | - |
| 4 0 0 | 410.0 | 410.0 | 412.8 | 404.2 | 404.1 | 395.8 | 395.7 | 400.7 | | |
| 4 5 0 | 456.1 | 456.1 | 444.3 | 445.1 | 464.4 | 460.4 | 460.2 | 445.3 | | |
| 5 0 0 | 502.9 | 502.9 | 489.3 | 498.0 | 534.1 | 490.0 | 511.0 | 489.8 | | |
| 5 6 0 | 577.7 | 577.7 | 562.8 | 571.2 | 580.7 | 570.0 | 594.3 | 562.9 | | |
| 6 3 0 | 637.0 | 637.0 | 611.9 | 629.0 | 658.5 | 637.7 | 664.9 | 638.3 | | |
| 7 0 0 | 701.0 | 701.0 | 694.2 | 723.5 | 726.3 | 679.7 | 708.7 | 704.0 | | |
| 8 0 0 | 821.3 | 821.3 | 837.0 | 786.6 | 831.8 | 805.5 | 839.9 | 806.2 | | |
| 9 0 0 | 914.9 | 914.9 | 931.5 | 892.4 | 944.4 | 909.5 | 926.7 | 924.8 | | |
| 1 0 C | 997.6 | 997.6 | 1026 | 983 | 1040 | 1018 | 1037 | 1049 | | |
| 1 1 C | 1097.9 | 1098 | 1148 | 1130 | 1090 | 1085 | 1105 | 1157 | | |
| 1 2 C | 1237.1 | 1237 | 1180 | 1238 | 1196 | 1191 | 1177 | 1325 | | |
| 1 4 C | 1449.3 | 1449 | 1377 | 1346 | 1350 | 1412 | 1395 | 1498 | | |
| 1 6 C | 1543.2 | 1543 | 1552 | 1615 | 1571 | 1594 | 1520 | 1564 | | |
| 1 8 C | 1798.9 | 1799 | 1848 | 1770 | 1770 | 1890 | 1802 | 1792 | | |
| 2 0 C | 2026.9 | 2027 | 2082 | 1995 | 2052 | 2017 | 1924 | 2026 | | |
| 2 2 C | 2252.1 | 2252 | 2242 | 2184 | 2312 | 2293 | 2180 | 2349 | | |
| 2 5 C | 2406.9 | 2407 | 2421 | 2539 | 2454 | 2503 | 2387 | 2523 | | |
| 2 8 C | 2758.8 | 2759 | 2747 | 2882 | 2785 | 2703 | 2815 | 2801 | | |
| 3 2 C | 3152.7 | 3578 | 3123 | 3112 | 3225 | 3232 | 3082 | 3068 | | |
| 3 6 C | 3578.4 | 3578 | 3481 | 3532 | 3660 | 3628 | 3656 | 3681 | | |
| 4 0 C | 4101.5 | 4102 | 3904 | 3937 | 4161 | 3961 | 3777 | 4235 | | |
| 4 5 C | 4662.8 | 4663 | - | 4415 | 4679 | 4415 | 4210 | 4550 | | |
| 5 0 C | 5299.2 | 5299 | - | 5019 | 5319 | 4952 | 4722 | 4706 | | |
| 5 6 C | - | - | - | - | - | 5702 | 5310 | 5056 | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

0.12 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 Spaces to be filled when entering order | | | | | | | | | | Weight of base mount unit | Motor Sizes | | |
| 237 | 5.90 | 4 | 15.23 | 1393 | F | 0 | 2 | 2 | 2 | 6 | . | 3 | - | M | - | - | 16 | 63 |
| 176 | 7.97 | 6 | 11.88 | 1553 | | | | | | 7 | . | 1 | | | | | | |
| 154 | 9.07 | 7 | 10.87 | 1630 | | | | | | 9 | . | 0 | | | | | | |
| 136 | 10.27 | 8 | 10.09 | 1706 | | | | | | 1 | 0 | . | | | | | | |
| 107 | 13.14 | 10 | 8.91 | 1862 | | | | | | 1 | 2 | . | | | | | | |
| 99 | 14.16 | 11 | 8.32 | 1916 | | | | | | 1 | 4 | . | | | | | | |
| 78 | 17.88 | 14 | 7.09 | 2090 | | | | | | 1 | 6 | . | | | | | | |
| 69 | 20.27 | 15 | 6.87 | 2185 | | | | | | 2 | 0 | . | | | | | | |
| 60 | 23.16 | 18 | 6.00 | 2300 | | | | | | 2 | 2 | . | | | | | | |
| 54 | 25.77 | 20 | 5.60 | 2390 | | | | | | 2 | 5 | . | | | | | | |
| 49 | 28.41 | 22 | 5.32 | 2476 | | | | | | 2 | 8 | . | | | | | | |
| 45 | 31.26 | 24 | 5.04 | 2554 | | | | | | 3 | 2 | . | | | | | | |
| 38 | 36.63 | 28 | 4.61 | 2717 | | | | | | 3 | 6 | . | | | | | | |
| 32 | 43.94 | 34 | 3.79 | 2893 | | | | | | 4 | 0 | . | | | | | | |
| 27 | 51.22 | 40 | 3.23 | 3078 | | | | | | 5 | 0 | . | | | | | | |
| 25 | 56.91 | 44 | 2.93 | 3166 | | | | | | 5 | 6 | . | | | | | | |
| 20 | 68.54 | 53 | 2.43 | 3434 | | | | | | 6 | 3 | . | | | | | | |
| 18 | 78.56 | 61 | 2.08 | 3569 | | | | | | 7 | 1 | . | | | | | | |
| 16 | 89.28 | 73 | 1.44 | 3753 | | | | | | 9 | 0 | . | | | | | | |
| 15 | 92.02 | 70 | 1.84 | 3860 | F | 0 | 2 | 3 | 2 | 9 | 0 | - | M | - | - | 17 | 63 | |
| 14 | 101.45 | 78 | 1.65 | 3860 | | | | | | 1 | 0 | 0 | | | | | | |
| 13 | 111.65 | 85 | 1.53 | 3860 | | | | | | 1 | 1 | 2 | | | | | | |
| 11 | 130.81 | 101 | 1.32 | 3860 | | | | | | 1 | 2 | 5 | | | | | | |
| 8.9 | 156.90 | 128 | 1.07 | 3860 | | | | | | 1 | 6 | 0 | | | | | | |
| 7.7 | 182.90 | 150 | 0.94 | 3860 | | | | | | 1 | 8 | 0 | | | | | | |
| 6.9 | 203.30 | 166 | 0.87 | 3860 | | | | | | 2 | 2 | 5 | | | | | | |
| 15 | 93.43 | 73 | 3.44 | 7100 | F | 0 | 3 | 2 | 2 | 1 | 0 | 0 | - | M | - | - | 23 | 63 |
| 10 | 141.47 | 110 | 3.74 | 7100 | F | 0 | 3 | 3 | 2 | 1 | 6 | 0 | - | M | - | - | 24 | 63 |
| 8.2 | 169.72 | 132 | 3.22 | 7100 | | | | | | 1 | 8 | 0 | | | | | | |
| 7.1 | 197.84 | 153 | 2.83 | 7100 | | | | | | 2 | 0 | 0 | | | | | | |
| 6.4 | 219.82 | 170 | 2.58 | 7100 | | | | | | 2 | 2 | 5 | | | | | | |
| 5.3 | 264.71 | 205 | 2.15 | 7100 | | | | | | 2 | 8 | 0 | | | | | | |
| 4.6 | 303.42 | 235 | 1.83 | 7100 | | | | | | 3 | 1 | 5 | | | | | | |
| 4.1 | 344.83 | 268 | 1.59 | 7100 | | | | | | 3 | 6 | 0 | | | | | | |
| 3.4 | 410.03 | 334 | 1.12 | 7100 | F | 0 | 3 | 4 | 2 | 4 | 0 | 0 | - | M | - | - | 33 | 63 |
| 3.1 | 456.12 | 372 | 1.01 | 7100 | | | | | | 4 | 5 | 0 | | | | | | |
| 2.8 | 502.87 | 410 | 0.91 | 7100 | | | | | | 5 | 0 | 0 | | | | | | |
| 2.4 | 577.75 | 471 | 0.83 | 7100 | | | | | | 5 | 6 | 0 | | | | | | |
| 15 | 93.43 | 73 | 3.44 | 7100 | F | 0 | 4 | 2 | 2 | 1 | 0 | 0 | - | M | - | - | 23 | 63 |
| 10 | 141.47 | 110 | 3.74 | 7100 | F | 0 | 4 | 3 | 2 | 1 | 6 | 0 | - | M | - | - | 24 | 63 |
| 8.2 | 169.72 | 132 | 3.22 | 7100 | | | | | | 1 | 8 | 0 | | | | | | |
| 7.1 | 197.84 | 153 | 2.83 | 7100 | | | | | | 2 | 0 | 0 | | | | | | |
| 6.4 | 219.82 | 170 | 2.58 | 7100 | | | | | | 2 | 2 | 5 | | | | | | |
| 5.3 | 264.71 | 205 | 2.15 | 7100 | | | | | | 2 | 8 | 0 | | | | | | |
| 4.6 | 303.42 | 235 | 1.83 | 7100 | | | | | | 3 | 1 | 5 | | | | | | |
| 4.1 | 344.83 | 268 | 1.59 | 7100 | | | | | | 3 | 6 | 0 | | | | | | |
| 3.4 | 410.03 | 334 | 1.12 | 7100 | F | 0 | 4 | 4 | 2 | 0 | 0 | - | M | - | - | 33 | 63 | |
| 3.1 | 456.12 | 372 | 1.01 | 7100 | | | | | | 4 | 5 | 0 | | | | | | |
| 2.8 | 502.87 | 410 | 0.91 | 7100 | | | | | | 5 | 0 | 0 | | | | | | |
| 2.4 | 577.75 | 471 | 0.83 | 7100 | | | | | | 5 | 6 | 0 | | | | | | |
| 5.3 | 264.35 | 205 | 3.17 | 9200 | F | 0 | 5 | 3 | 2 | 2 | 8 | 0 | - | M | - | - | 32 | 63 |
| 4.5 | 314.39 | 244 | 2.67 | 9200 | F | 0 | 5 | 4 | 2 | 3 | 2 | 0 | - | M | - | - | 44 | 63 |
| 4.0 | 351.75 | 273 | 2.49 | 9200 | | | | | | 3 | 6 | 0 | | | | | | |
| 3.4 | 412.85 | 320 | 2.12 | 9200 | | | | | | 4 | 0 | 0 | | | | | | |
| 3.2 | 444.31 | 344 | 1.97 | 9200 | | | | | | 4 | 5 | 0 | | | | | | |
| 2.9 | 489.28 | 379 | 1.79 | 9200 | | | | | | 5 | 0 | 0 | | | | | | |
| 2.5 | 562.80 | 436 | 1.56 | 9200 | | | | | | 5 | 6 | 0 | | | | | | |
| 2.3 | 611.86 | 474 | 1.43 | 9200 | | | | | | 6 | 3 | 0 | | | | | | |
| 2.0 | 694.17 | 538 | 1.26 | 9200 | | | | | | 7 | 0 | 0 | | | | | | |
| 1.7 | 837.03 | 649 | 1.05 | 9200 | | | | | | 8 | 0 | 0 | | | | | | |
| 1.5 | 931.53 | 722 | 0.94 | 9200 | | | | | | 9 | 0 | 0 | | | | | | |
| 1.4 | 1025.81 | 795 | 0.85 | 9200 | | | | | | 1 | 0 | C | | | | | | |
| 4.1 | 339.84 | 264 | 3.17 | 11300 | F | 0 | 6 | 3 | 2 | 3 | 6 | 0 | - | M | - | - | 47 | 63 |
| 3.5 | 404.18 | 313 | 2.68 | 11300 | F | 0 | 6 | 4 | 2 | 4 | 0 | 0 | - | M | - | - | 58 | 63 |
| 3.2 | 445.09 | 345 | 2.43 | 11300 | | | | | | 4 | 5 | 0 | | | | | | |
| 2.8 | 497.98 | 386 | 2.28 | 11300 | | | | | | 5 | 0 | 0 | | | | | | |
| 2.5 | 571.21 | 443 | 2.02 | 11300 | | | | | | 5 | 6 | 0 | | | | | | |
| 2.2 | 629.02 | 487 | 1.83 | 11300 | | | | | | 6 | 3 | 0 | | | | | | |
| 1.9 | 723.53 | 561 | 1.59 | 11300 | | | | | | 7 | 0 | 0 | | | | | | |
| 1.8 | 786.61 | 610 | 1.47 | 11300 | | | | | | 8 | 0 | 0 | | | | | | |
| 1.6 | 892.42 | 692 | 1.31 | 11300 | | | | | | 9 | 0 | 0 | | | | | | |
| 1.4 | 982.74 | 762 | 1.19 | 11300 | | | | | | 1 | 0 | C | | | | | | |
| 1.2 | 1130.40 | 876 | 1.04 | 11300 | | | | | | 1 | 1 | C | | | | | | |
| 1.1 | 1237.77 | 959 | 0.95 | 11300 | | | | | | 1 | 2 | C | | | | | | |
| 1.0 | 1345.68 | 1043 | 0.87 | 11300 | | | | | | 1 | 4 | C | | | | | | |

NOTE
 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.12 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 Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 2.4 | 580.70 | 450 | 3.82 | 17000 | F 0 7 4 2 5 6 0 | - M - - - - . 1 2 A - - | 78 | 63 |
| 2.1 | 658.49 | 510 | 3.65 | 17000 | 6 3 0 | | | |
| 1.9 | 726.31 | 563 | 3.36 | 17000 | 7 1 0 | | | |
| 1.7 | 831.78 | 645 | 2.93 | 17000 | 8 0 0 | | | |
| 1.5 | 944.37 | 732 | 2.58 | 17000 | 9 0 0 | | | |
| 1.4 | 1039.95 | 806 | 2.35 | 17000 | 1 0 C | | | |
| 1.3 | 1090.34 | 845 | 2.24 | 17000 | 1 1 C | | | |
| 1.2 | 1196.20 | 927 | 2.04 | 17000 | 1 2 C | | | |
| 1.0 | 1350.14 | 1046 | 1.81 | 17000 | 1 4 C | | | |
| 0.89 | 1570.72 | 1217 | 1.55 | 17000 | 1 6 C | | | |
| 0.79 | 1769.83 | 1371 | 1.38 | 17000 | 1 8 C | | | |
| 0.68 | 2051.65 | 1590 | 1.19 | 17000 | 2 0 C | | | |
| 0.61 | 2311.71 | 1791 | 1.06 | 17000 | 2 2 C | | | |
| 0.57 | 2453.97 | 1902 | 0.99 | 17000 | 2 5 C | | | |
| 0.50 | 2785.27 | 2158 | 0.88 | 17000 | 2 8 C | | | |
| 1.3 | 1084.58 | 840 | 3.81 | 19700 | F 0 8 4 2 1 1 C | - M - - - - . 1 2 A - - | 140 | 63 |
| 1.2 | 1191.37 | 923 | 3.47 | 19700 | 1 2 C | | | |
| 1.0 | 1411.94 | 1094 | 2.92 | 19700 | 1 4 C | | | |
| 0.88 | 1594.33 | 1235 | 2.59 | 19700 | 1 6 C | | | |
| 0.74 | 1889.50 | 1464 | 2.19 | 19700 | 1 8 C | | | |
| 0.70 | 2017.40 | 1563 | 2.05 | 19700 | 2 0 C | | | |
| 0.61 | 2292.50 | 1776 | 1.80 | 19700 | 2 2 C | | | |
| 0.56 | 2503.41 | 1940 | 1.65 | 19700 | 2 5 C | | | |
| 0.52 | 2703.33 | 2095 | 1.53 | 19700 | 2 8 C | | | |
| 0.43 | 3232.43 | 2505 | 1.28 | 19700 | 3 2 C | | | |
| 0.39 | 3627.69 | 2811 | 1.14 | 19700 | 3 6 C | | | |
| 0.35 | 3961.44 | 3070 | 1.04 | 19700 | 4 0 C | | | |
| 0.32 | 4415.36 | 3421 | 0.94 | 19700 | 4 5 C | | | |
| 0.28 | 4951.80 | 3837 | 0.83 | 19700 | 5 0 C | | | |
| 1.0 | 1395.15 | 1081 | 3.91 | 32000 | F 0 9 4 1 1 4 C | - M - - - - . 1 2 A - - | 205 | 63 |
| 0.9 | 1520.27 | 1178 | 3.59 | 32000 | 1 6 C | | | |
| 0.8 | 1801.73 | 1396 | 3.03 | 32000 | 1 8 C | | | |
| 0.7 | 1923.69 | 1491 | 2.84 | 32000 | 2 0 C | | | |
| 0.6 | 2179.69 | 1689 | 2.50 | 32000 | 2 2 C | | | |
| 0.6 | 2387.13 | 1850 | 2.29 | 32000 | 2 5 C | | | |
| 0.5 | 2814.91 | 2181 | 1.94 | 32000 | 2 8 C | | | |
| 0.5 | 3082.28 | 2388 | 1.77 | 32000 | 3 2 C | | | |
| 0.4 | 3656.25 | 2833 | 1.49 | 32000 | 3 6 C | | | |
| 0.4 | 3777.43 | 2927 | 1.45 | 32000 | 4 0 C | | | |
| 0.3 | 4210.26 | 3262 | 1.30 | 32000 | 4 5 C | | | |
| 0.3 | 4721.79 | 3659 | 1.16 | 32000 | 5 0 C | | | |
| 0.3 | 5309.53 | 4114 | 1.03 | 32000 | 5 6 C | | | |
| 0.12 kW | | | | | | | | |
| 154 | 5.90 | 7 | 9.42 | 1630 | F 0 2 2 2 6 . 3 | - M - - - - . 1 2 C - - | 16 | 63 |
| 114 | 7.97 | 10 | 8.10 | 1820 | 7 . 1 | | | |
| 100 | 9.07 | 11 | 7.56 | 1909 | 9 . 0 | | | |
| 89 | 10.27 | 12 | 7.05 | 1992 | 1 0 . | | | |
| 69 | 13.14 | 16 | 6.02 | 2185 | 1 2 . | | | |
| 64 | 14.16 | 17 | 5.76 | 2246 | 1 4 . | | | |
| 51 | 17.88 | 22 | 5.05 | 2440 | 1 6 . | | | |
| 45 | 20.27 | 25 | 4.70 | 2554 | 2 0 . | | | |
| 39 | 23.16 | 29 | 4.32 | 2691 | 2 2 . | | | |
| 35 | 25.77 | 32 | 4.06 | 2800 | 2 5 . | | | |
| 32 | 28.41 | 35 | 3.71 | 2893 | 2 8 . | | | |
| 29 | 31.26 | 38 | 3.37 | 2999 | 3 2 . | | | |
| 25 | 36.63 | 44 | 2.90 | 3166 | 3 6 . | | | |
| 21 | 43.94 | 53 | 2.44 | 3374 | 4 0 . | | | |
| 18 | 51.22 | 62 | 2.09 | 3569 | 5 0 . | | | |
| 16.1 | 56.91 | 69 | 1.87 | 3719 | 5 6 . | | | |
| 13.3 | 68.54 | 83 | 1.55 | 3860 | 6 3 . | | | |
| 11.6 | 78.56 | 95 | 1.18 | 3860 | 7 1 . | | | |
| 10.2 | 89.28 | 108 | 1.03 | 3860 | 9 0 . | | | |
| 10 | 92.02 | 109 | 1.23 | 3860 | F 0 2 3 2 9 0 . | - M - - - - . 1 2 C - - | 17 | 63 |
| 9.0 | 101.45 | 121 | 1.15 | 3860 | 1 0 0 | | | |
| 8.2 | 111.65 | 133 | 1.05 | 3860 | 1 1 2 | | | |
| 7.0 | 130.81 | 156 | 0.92 | 3860 | 1 2 5 | | | |
| 11 | 82.18 | 99 | 2.96 | 7100 | F 0 3 2 2 9 0 . | - M - - - - . 1 2 C - - | 23 | 63 |
| 10 | 93.43 | 112 | 2.33 | 7100 | 1 0 0 | | | |
| 9.1 | 99.52 | 119 | 3.49 | 7100 | F 0 3 3 2 1 0 0 | - M - - - - . 1 2 C - - | 24 | 63 |
| 8.3 | 109.72 | 131 | 3.22 | 7100 | 1 1 2 | | | |
| 7.5 | 120.75 | 144 | 2.96 | 7100 | 1 2 5 | | | |
| 6.4 | 141.47 | 169 | 2.54 | 7100 | 1 6 0 | | | |
| 5.4 | 169.72 | 203 | 2.13 | 7100 | 1 8 0 | | | |
| 4.6 | 197.84 | 236 | 1.86 | 7100 | 2 0 0 | | | |
| 4.1 | 219.82 | 262 | 1.68 | 7100 | 2 2 5 | | | |
| 3.4 | 264.71 | 316 | 1.40 | 7100 | 2 8 0 | | | |
| 3.0 | 303.42 | 362 | 1.19 | 7100 | 3 1 5 | | | |
| 2.6 | 344.83 | 410 | 1.03 | 7100 | 3 6 0 | | | |
| 11 | 82.18 | 99 | 2.96 | 7100 | F 0 4 2 2 9 0 . | - M - - - - . 1 2 C - - | 23 | 63 |
| 10 | 93.43 | 112 | 2.33 | 7100 | 1 0 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors
- Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.12 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 of base mount unit | Motor Sizes | | |
| 9.1 | 99.52 | 119 | 3.49 | 7100 | F | 0 | 4 | 3 | 2 | 1 | 0 | 0 | _ | M | - - - - . | 1 2 C - - | 24 | 63 |
| 8.3 | 109.72 | 131 | 3.22 | 7100 | | | | | | | | | | 1 | 1 | 2 | | |
| 7.5 | 120.75 | 144 | 2.96 | 7100 | | | | | | | | | | 1 | 2 | 5 | | |
| 6.4 | 141.47 | 169 | 2.54 | 7100 | | | | | | | | | | 1 | 6 | 0 | | |
| 5.4 | 169.72 | 203 | 2.13 | 7100 | | | | | | | | | | 1 | 8 | 0 | | |
| 4.6 | 197.84 | 236 | 1.86 | 7100 | | | | | | | | | | 2 | 0 | 0 | | |
| 4.1 | 219.82 | 262 | 1.68 | 7100 | | | | | | | | | | 2 | 2 | 5 | | |
| 3.4 | 264.71 | 316 | 1.40 | 7100 | | | | | | | | | | 2 | 8 | 0 | | |
| 3.0 | 303.42 | 362 | 1.19 | 7100 | | | | | | | | | | 3 | 1 | 5 | | |
| 2.6 | 344.83 | 410 | 1.03 | 7100 | | | | | | | | | | 3 | 6 | 0 | | |
| 5.2 | 176.23 | 210 | 3.66 | 9200 | F | 0 | 5 | 3 | 2 | 1 | 8 | 0 | _ | M | - - - - . | 1 2 C - - | 32 | 63 |
| 4.4 | 204.87 | 245 | 3.14 | 9200 | | | | | | | | | | 2 | 0 | 0 | | |
| 3.9 | 232.53 | 278 | 2.73 | 9200 | | | | | | | | | | 2 | 2 | 5 | | |
| 3.4 | 264.35 | 316 | 2.15 | 9200 | | | | | | | | | | 2 | 8 | 0 | | |
| 2.9 | 314.39 | 378 | 1.72 | 9200 | F | 0 | 5 | 4 | 2 | 3 | 2 | 0 | _ | M | - - - - . | 1 2 C - - | 44 | 63 |
| 2.6 | 351.75 | 423 | 1.60 | 9200 | | | | | | | | | | 3 | 6 | 0 | | |
| 2.2 | 412.85 | 497 | 1.37 | 9200 | | | | | | | | | | 4 | 0 | 0 | | |
| 2.0 | 444.31 | 535 | 1.27 | 9200 | | | | | | | | | | 4 | 5 | 0 | | |
| 1.8 | 489.28 | 589 | 1.15 | 9200 | | | | | | | | | | 5 | 0 | 0 | | |
| 1.6 | 562.80 | 677 | 1.00 | 9200 | | | | | | | | | | 5 | 6 | 0 | | |
| 1.5 | 611.86 | 736 | 0.92 | 9200 | | | | | | | | | | 6 | 3 | 0 | | |
| 1.3 | 694.17 | 835 | 0.81 | 9200 | | | | | | | | | | 7 | 0 | 0 | | |
| 4.5 | 201.07 | 241 | 3.91 | 11300 | F | 0 | 6 | 3 | 2 | 2 | 0 | 0 | _ | M | - - - - . | 1 2 C - - | 47 | 63 |
| 4.0 | 226.56 | 271 | 3.54 | 11300 | | | | | | | | | | 2 | 2 | 5 | | |
| 3.5 | 263.38 | 316 | 3.11 | 11300 | | | | | | | | | | 2 | 8 | 0 | | |
| 3.0 | 298.94 | 358 | 2.73 | 11300 | | | | | | | | | | 3 | 1 | 5 | | |
| 2.7 | 339.84 | 407 | 2.15 | 11300 | | | | | | | | | | 3 | 6 | 0 | | |
| 2.2 | 404.18 | 486 | 1.72 | 11300 | F | 0 | 6 | 4 | 2 | 4 | 0 | 0 | _ | M | - - - - . | 1 2 C - - | 58 | 63 |
| 2.0 | 445.09 | 535 | 1.57 | 11300 | | | | | | | | | | 4 | 5 | 0 | | |
| 1.8 | 497.98 | 599 | 1.47 | 11300 | | | | | | | | | | 5 | 0 | 0 | | |
| 1.6 | 571.21 | 687 | 1.30 | 11300 | | | | | | | | | | 5 | 6 | 0 | | |
| 1.4 | 629.02 | 757 | 1.18 | 11300 | | | | | | | | | | 6 | 3 | 0 | | |
| 1.3 | 723.53 | 870 | 1.03 | 11300 | | | | | | | | | | 7 | 0 | 0 | | |
| 1.2 | 786.61 | 946 | 0.94 | 11300 | | | | | | | | | | 8 | 0 | 0 | | |
| 1.0 | 892.42 | 1074 | 0.84 | 11300 | | | | | | | | | | 9 | 0 | 0 | | |
| 2.2 | 404.11 | 486 | 3.27 | 17000 | F | 0 | 7 | 4 | 2 | 4 | 0 | 0 | _ | M | - - - - . | 1 2 C - - | 78 | 63 |
| 1.9 | 464.36 | 559 | 3.08 | 17000 | | | | | | | | | | 4 | 5 | 0 | | |
| 1.7 | 534.13 | 643 | 2.68 | 17000 | | | | | | | | | | 5 | 0 | 0 | | |
| 1.6 | 580.70 | 699 | 2.46 | 17000 | | | | | | | | | | 5 | 6 | 0 | | |
| 1.4 | 658.49 | 792 | 2.35 | 17000 | | | | | | | | | | 6 | 3 | 0 | | |
| 1.2 | 726.31 | 874 | 2.16 | 17000 | | | | | | | | | | 7 | 0 | 0 | | |
| 1.1 | 831.78 | 1001 | 1.89 | 17000 | | | | | | | | | | 8 | 0 | 0 | | |
| 1.0 | 944.37 | 1136 | 1.66 | 17000 | | | | | | | | | | 9 | 0 | 0 | | |
| 0.87 | 1039.95 | 1251 | 1.51 | 17000 | | | | | | | | | | 1 | 0 | C | | |
| 0.83 | 1090.34 | 1312 | 1.44 | 17000 | | | | | | | | | | 1 | 1 | C | | |
| 0.76 | 1196.20 | 1439 | 1.31 | 17000 | | | | | | | | | | 1 | 2 | C | | |
| 0.67 | 1350.14 | 1624 | 1.16 | 17000 | | | | | | | | | | 1 | 4 | C | | |
| 0.58 | 1570.72 | 1890 | 1.00 | 17000 | | | | | | | | | | 1 | 6 | C | | |
| 0.51 | 1769.83 | 2129 | 0.89 | 17000 | | | | | | | | | | 1 | 8 | C | | |
| 1.4 | 637.69 | 767 | 3.61 | 19700 | F | 0 | 8 | 4 | 2 | 6 | 3 | 0 | _ | M | - - - - . | 1 2 C - - | 140 | 63 |
| 1.3 | 679.67 | 818 | 3.39 | 19700 | | | | | | | | | | 7 | 0 | 0 | | |
| 1.1 | 805.50 | 969 | 2.86 | 19700 | | | | | | | | | | 8 | 0 | 0 | | |
| 1.0 | 909.51 | 1094 | 2.92 | 19700 | | | | | | | | | | 9 | 0 | 0 | | |
| 0.89 | 1017.59 | 1224 | 2.61 | 19700 | | | | | | | | | | 1 | 0 | C | | |
| 0.83 | 1084.58 | 1305 | 2.45 | 19700 | | | | | | | | | | 1 | 1 | C | | |
| 0.76 | 1191.37 | 1433 | 2.23 | 19700 | | | | | | | | | | 1 | 2 | C | | |
| 0.64 | 1411.94 | 1699 | 1.88 | 19700 | | | | | | | | | | 1 | 4 | C | | |
| 0.57 | 1594.33 | 1918 | 1.67 | 19700 | | | | | | | | | | 1 | 6 | C | | |
| 0.48 | 1889.50 | 2273 | 1.41 | 19700 | | | | | | | | | | 1 | 8 | C | | |
| 0.45 | 2017.40 | 2427 | 1.32 | 19700 | | | | | | | | | | 2 | 0 | C | | |
| 0.39 | 2292.50 | 2758 | 1.16 | 19700 | | | | | | | | | | 2 | 2 | C | | |
| 0.36 | 2503.41 | 3012 | 1.06 | 19700 | | | | | | | | | | 2 | 5 | C | | |
| 0.33 | 2703.33 | 3252 | 0.98 | 19700 | | | | | | | | | | 2 | 8 | C | | |
| 0.28 | 3232.43 | 3889 | 0.82 | 19700 | | | | | | | | | | 3 | 2 | C | | |
| 0.98 | 926.74 | 1115 | 3.79 | 32000 | F | 0 | 9 | 4 | 1 | 9 | 0 | 0 | _ | M | - - - - . | 1 2 C - - | 205 | 63 |
| 0.87 | 1036.86 | 1247 | 3.39 | 32000 | | | | | | | | | | 1 | 0 | C | | |
| 0.82 | 1105.12 | 1329 | 3.18 | 32000 | | | | | | | | | | 1 | 1 | C | | |
| 0.77 | 1177.20 | 1416 | 2.99 | 32000 | | | | | | | | | | 1 | 2 | C | | |
| 0.65 | 1395.15 | 1678 | 2.52 | 32000 | | | | | | | | | | 1 | 4 | C | | |
| 0.60 | 1520.27 | 1829 | 2.31 | 32000 | | | | | | | | | | 1 | 6 | C | | |
| 0.50 | 1801.73 | 2167 | 1.95 | 32000 | | | | | | | | | | 1 | 8 | C | | |
| 0.47 | 1923.69 | 2314 | 1.83 | 32000 | | | | | | | | | | 2 | 0 | C | | |
| 0.42 | 2179.69 | 2622 | 1.61 | 32000 | | | | | | | | | | 2 | 2 | C | | |
| 0.38 | 2387.13 | 2872 | 1.47 | 32000 | | | | | | | | | | 2 | 5 | C | | |
| 0.32 | 2814.91 | 3386 | 1.25 | 32000 | | | | | | | | | | 2 | 8 | C | | |
| 0.29 | 3082.28 | 3708 | 1.14 | 32000 | | | | | | | | | | 3 | 2 | C | | |
| 0.25 | 3656.25 | 4398 | 0.96 | 32000 | | | | | | | | | | 3 | 6 | C | | |
| 0.24 | 3777.43 | 4544 | 0.93 | 32000 | | | | | | | | | | 4 | 0 | C | | |
| 0.21 | 4210.26 | 5065 | 0.84 | 32000 | | | | | | | | | | 4 | 5 | C | | |

NOTE
 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.18 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 of base mount unit | Motor Sizes |
| 232 | 5.90 | 7 | 0.00 | 1392 | F 0 2 2 2 6 . 3 | M - - - - . 1 8 A - - | 16 | 63 |
| 173 | 7.97 | 10 | 5.39 | 1563 | | 7 . 1 | | |
| 152 | 9.07 | 11 | 4.73 | 1638 | | 9 . 0 | | |
| 134 | 10.27 | 12 | 4.18 | 1715 | | 1 0 . | | |
| 105 | 13.14 | 16 | 3.27 | 1875 | | 1 2 . | | |
| 97 | 14.16 | 17 | 3.03 | 1930 | | 1 4 . | | |
| 77 | 17.88 | 22 | 2.41 | 2100 | | 1 6 . | | |
| 68 | 20.27 | 25 | 2.12 | 2197 | | 2 0 . | | |
| 60 | 23.16 | 28 | 1.86 | 2300 | | 2 2 . | | |
| 54 | 25.77 | 31 | 1.67 | 2390 | | 2 5 . | | |
| 49 | 28.41 | 34 | 1.52 | 2476 | | 2 8 . | | |
| 44 | 31.26 | 38 | 1.37 | 2576 | | 3 2 . | | |
| 38 | 36.63 | 44 | 1.17 | 2717 | | 3 6 . | | |
| 31 | 43.94 | 54 | 0.98 | 2927 | | 4 0 . | | |
| 27 | 51.22 | 62 | 0.84 | 3078 | | 5 0 . | | |
| 15 | 92.02 | 108 | 1.19 | 3860 | F 0 2 3 2 9 0 . | M - - - - . 1 8 A - - | 17 | 63 |
| 14 | 101.45 | 118 | 1.09 | 3860 | | 1 0 0 | | |
| 13 | 111.65 | 130 | 1.00 | 3860 | | 1 1 2 | | |
| 11 | 130.80 | 153 | 0.87 | 3860 | | 1 2 5 | | |
| 19 | 72.41 | 86 | 3.62 | 7100 | F 0 3 2 2 7 1 . | M - - - - . 1 8 A - - | 23 | 63 |
| 17 | 82.18 | 98 | 2.87 | 7100 | | 9 0 . | | |
| 15 | 93.43 | 111 | 2.26 | 7100 | | 1 0 0 | | |
| 14 | 99.52 | 117 | 3.10 | 7100 | F 0 3 3 2 1 0 0 | M - - - - . 1 8 A - - | 24 | 63 |
| 13 | 109.72 | 130 | 2.91 | 7100 | | 1 1 2 | | |
| 11 | 120.75 | 143 | 2.78 | 7100 | | 1 2 5 | | |
| 10 | 141.47 | 167 | 2.46 | 7100 | | 1 6 0 | | |
| 8.1 | 169.72 | 200 | 2.11 | 7100 | | 1 8 0 | | |
| 7.0 | 197.84 | 234 | 1.86 | 7100 | | 2 0 0 | | |
| 6.3 | 219.82 | 259 | 1.70 | 7100 | | 2 2 5 | | |
| 5.2 | 264.71 | 313 | 1.41 | 7100 | | 2 8 0 | | |
| 4.5 | 303.42 | 358 | 1.21 | 7100 | | 3 1 5 | | |
| 4.0 | 344.83 | 408 | 1.04 | 7100 | | 3 6 0 | | |
| 19 | 72.41 | 86 | 3.62 | 7100 | F 0 4 2 2 7 1 . | M - - - - . 1 8 A - - | 23 | 63 |
| 17 | 82.18 | 98 | 2.87 | 7100 | | 9 0 . | | |
| 15 | 93.43 | 111 | 2.26 | 7100 | | 1 0 0 | | |
| 14 | 99.52 | 117 | 3.10 | 7100 | F 0 4 3 2 1 0 0 | M - - - - . 1 8 A - - | 24 | 63 |
| 13 | 109.72 | 130 | 2.91 | 7100 | | 1 1 2 | | |
| 11 | 120.75 | 143 | 2.78 | 7100 | | 1 2 5 | | |
| 10 | 141.47 | 167 | 2.46 | 7100 | | 1 6 0 | | |
| 8.1 | 169.72 | 200 | 2.11 | 7100 | | 1 8 0 | | |
| 7.0 | 197.84 | 234 | 1.86 | 7100 | | 2 0 0 | | |
| 6.3 | 219.82 | 259 | 1.70 | 7100 | | 2 2 5 | | |
| 5.2 | 264.71 | 313 | 1.41 | 7100 | | 2 8 0 | | |
| 4.5 | 303.42 | 358 | 1.21 | 7100 | | 3 1 5 | | |
| 4.0 | 344.83 | 408 | 1.04 | 7100 | | 3 6 0 | | |
| 11 | 130.34 | 154 | 3.93 | 9200 | F 0 5 3 2 1 2 5 | M - - - - . 1 8 A - - | 32 | 63 |
| 8.8 | 156.40 | 185 | 3.51 | 9200 | | 1 6 0 | | |
| 7.8 | 176.23 | 208 | 3.27 | 9200 | | 1 8 0 | | |
| 6.7 | 204.87 | 242 | 3.00 | 9200 | | 2 0 0 | | |
| 5.9 | 232.53 | 275 | 2.65 | 9200 | | 2 2 5 | | |
| 5.2 | 264.35 | 312 | 2.08 | 9200 | | 2 8 0 | | |
| 4.5 | 314.39 | 365 | 1.78 | 9200 | F 0 5 4 2 3 2 0 | M - - - - . 1 8 A - - | 44 | 63 |
| 4.0 | 351.75 | 409 | 1.66 | 9200 | | 3 6 0 | | |
| 3.4 | 412.85 | 480 | 1.41 | 9200 | | 4 0 0 | | |
| 3.2 | 444.31 | 516 | 1.31 | 9200 | | 4 5 0 | | |
| 2.9 | 489.28 | 569 | 1.19 | 9200 | | 5 0 0 | | |
| 2.5 | 562.80 | 654 | 1.04 | 9200 | | 5 6 0 | | |
| 2.3 | 611.86 | 711 | 0.95 | 9200 | | 6 3 0 | | |
| 2.0 | 694.17 | 807 | 0.84 | 9200 | | 7 0 0 | | |
| 8.2 | 167.56 | 199 | 3.93 | 11300 | F 0 6 3 2 1 8 0 | M - - - - . 1 8 A - - | 47 | 63 |
| 6.9 | 201.07 | 238 | 3.51 | 11300 | | 2 0 0 | | |
| 6.1 | 226.56 | 268 | 3.27 | 11300 | | 2 2 5 | | |
| 5.2 | 263.38 | 312 | 2.95 | 11300 | | 2 8 0 | | |
| 4.6 | 298.94 | 354 | 2.65 | 11300 | | 3 1 5 | | |
| 4.1 | 339.84 | 402 | 2.08 | 11300 | | 3 6 0 | | |
| 3.5 | 404.18 | 470 | 1.78 | 11300 | F 0 6 4 2 4 0 0 | M - - - - . 1 8 A - - | 58 | 63 |
| 3.2 | 445.09 | 517 | 1.62 | 11300 | | 4 5 0 | | |
| 2.8 | 497.98 | 579 | 1.52 | 11300 | | 5 0 0 | | |
| 2.5 | 571.21 | 664 | 1.35 | 11300 | | 5 6 0 | | |
| 2.2 | 629.02 | 731 | 1.22 | 11300 | | 6 3 0 | | |
| 1.9 | 723.53 | 841 | 1.06 | 11300 | | 7 0 0 | | |
| 1.8 | 786.61 | 914 | 0.98 | 11300 | | 8 0 0 | | |
| 1.6 | 892.42 | 1037 | 0.87 | 11300 | | 9 0 0 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.18 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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 3.5 | 404.11 | 470 | 3.39 | 17000 | F 0 7 4 2 4 0 0 _ M - - - - . 1 8 A - - | | 78 | 63 |
| 3.0 | 464.36 | 540 | 3.19 | 17000 | 4 5 0 _ | | | |
| 2.6 | 534.13 | 621 | 2.77 | 17000 | 5 0 0 | | | |
| 2.4 | 580.70 | 675 | 2.55 | 17000 | 5 6 0 | | | |
| 2.1 | 658.49 | 765 | 2.43 | 17000 | 6 3 0 | | | |
| 1.9 | 726.31 | 844 | 2.24 | 17000 | 7 0 0 | | | |
| 1.7 | 831.78 | 967 | 1.95 | 17000 | 8 0 0 | | | |
| 1.5 | 944.37 | 1098 | 1.72 | 17000 | 9 0 0 | | | |
| 1.4 | 1039.95 | 1209 | 1.56 | 17000 | 1 0 C | | | |
| 1.3 | 1090.34 | 1267 | 1.49 | 17000 | 1 1 C | | | |
| 1.2 | 1196.20 | 1390 | 1.36 | 17000 | 1 2 C | | | |
| 1.0 | 1350.14 | 1569 | 1.20 | 17000 | 1 4 C | | | |
| 0.89 | 1570.72 | 1826 | 1.04 | 17000 | 1 6 C | | | |
| 0.79 | 1769.83 | 2057 | 0.92 | 17000 | 1 8 C | | | |
| 2.2 | 637.69 | 741 | 3.74 | 19700 | F 0 8 4 2 6 3 0 _ M - - - - . 1 8 A - - | | 140 | 63 |
| 2.1 | 679.67 | 790 | 3.51 | 19700 | 7 0 0 | | | |
| 1.7 | 805.50 | 936 | 2.96 | 19700 | 8 0 0 | | | |
| 1.5 | 909.51 | 1057 | 3.03 | 19700 | 9 0 0 | | | |
| 1.4 | 1017.59 | 1183 | 2.71 | 19700 | 1 0 C | | | |
| 1.3 | 1084.58 | 1261 | 2.54 | 19700 | 1 1 C | | | |
| 1.2 | 1191.37 | 1385 | 2.31 | 19700 | 1 2 C | | | |
| 1.0 | 1411.94 | 1641 | 1.95 | 19700 | 1 4 C | | | |
| 0.88 | 1594.33 | 1853 | 1.73 | 19700 | 1 6 C | | | |
| 0.74 | 1889.50 | 2196 | 1.46 | 19700 | 1 8 C | | | |
| 0.70 | 2017.40 | 2345 | 1.36 | 19700 | 2 0 C | | | |
| 0.61 | 2292.50 | 2665 | 1.20 | 19700 | 2 2 C | | | |
| 0.56 | 2503.41 | 2910 | 1.10 | 19700 | 2 5 C | | | |
| 0.52 | 2703.33 | 3142 | 1.02 | 19700 | 2 8 C | | | |
| 0.43 | 3232.43 | 3757 | 0.85 | 19700 | 3 2 C | | | |
| 1.5 | 926.74 | 1077 | 3.93 | 32000 | F 0 9 4 1 9 0 0 _ M - - - - . 1 8 A - - | | 205 | 63 |
| 1.4 | 1036.86 | 1205 | 3.51 | 32000 | 1 0 C | | | |
| 1.3 | 1105.12 | 1284 | 3.29 | 32000 | 1 1 C | | | |
| 1.2 | 1177.20 | 1368 | 3.09 | 32000 | 1 2 C | | | |
| 1.0 | 1395.15 | 1622 | 2.61 | 32000 | 1 4 C | | | |
| 0.92 | 1520.27 | 1767 | 2.39 | 32000 | 1 6 C | | | |
| 0.78 | 1801.73 | 2094 | 2.02 | 32000 | 1 8 C | | | |
| 0.73 | 1923.69 | 2236 | 1.89 | 32000 | 2 0 C | | | |
| 0.64 | 2179.69 | 2533 | 1.67 | 32000 | 2 2 C | | | |
| 0.59 | 2387.13 | 2775 | 1.52 | 32000 | 2 5 C | | | |
| 0.50 | 2814.91 | 3272 | 1.29 | 32000 | 2 8 C | | | |
| 0.46 | 3082.28 | 3583 | 1.18 | 32000 | 3 2 C | | | |
| 0.38 | 3656.25 | 4250 | 1.00 | 32000 | 3 6 C | | | |
| 0.37 | 3777.43 | 4391 | 0.96 | 32000 | 4 0 C | | | |
| 0.33 | 4210.26 | 4894 | 0.86 | 32000 | 4 5 C | | | |
| 0.18 kW | | | | | | | | |
| 6 POLE | | | | | | | | |
| 156 | 5.90 | 10 | 6.80 | 1623 | F 0 2 2 2 6 . 3 _ M - - - - . 1 8 C - - | | 17.5 | 71 |
| 115 | 7.97 | 14 | 5.45 | 1814 | 7 . 1 | | | |
| 101 | 9.07 | 17 | 5.09 | 1902 | 9 . 0 | | | |
| 90 | 10.27 | 19 | 4.75 | 1983 | 1 0 . | | | |
| 70 | 13.14 | 24 | 4.07 | 2174 | 1 2 . | | | |
| 65 | 14.16 | 26 | 3.90 | 2234 | 1 4 . | | | |
| 51 | 17.88 | 33 | 3.36 | 2440 | 1 6 . | | | |
| 45 | 20.27 | 37 | 3.13 | 2554 | 2 0 . | | | |
| 40 | 23.16 | 42 | 2.95 | 2667 | 2 2 . | | | |
| 36 | 25.77 | 46 | 2.79 | 2771 | 2 5 . | | | |
| 32 | 28.41 | 52 | 2.48 | 2893 | 2 8 . | | | |
| 29 | 31.26 | 57 | 2.24 | 2999 | 3 2 . | | | |
| 25 | 36.63 | 67 | 1.93 | 3166 | 3 6 . | | | |
| 21 | 43.94 | 79 | 1.62 | 3374 | 4 0 . | | | |
| 18 | 51.22 | 93 | 1.39 | 3569 | 5 0 . | | | |
| 16 | 56.91 | 104 | 1.24 | 3719 | 5 6 . | | | |
| 13 | 68.54 | 125 | 1.03 | 3860 | 6 3 . | | | |
| 12 | 78.56 | 143 | 0.90 | 3860 | 7 1 . | | | |
| 10 | 89.28 | 163 | 0.80 | 3860 | 9 0 . | | | |
| 17 | 55.28 | 99 | 3.88 | 7100 | F 0 3 2 2 5 6 . _ M - - - - . 1 8 C - - | | 24.5 | 71 |
| 15 | 62.29 | 111 | 3.38 | 7100 | 6 3 . | | | |
| 13 | 72.41 | 130 | 2.51 | 7100 | 7 1 . | | | |
| 11 | 82.18 | 147 | 2.00 | 7100 | 9 0 . | | | |
| 10 | 93.43 | 167 | 1.57 | 7100 | 1 0 0 | | | |
| 9.2 | 99.52 | 177 | 2.35 | 7100 | F 0 3 3 2 1 0 0 _ M - - - - . 1 8 C - - | | 25.5 | 71 |
| 8.4 | 109.72 | 195 | 2.17 | 7100 | 1 1 2 | | | |
| 7.6 | 120.75 | 214 | 2.00 | 7100 | 1 2 5 | | | |
| 6.5 | 141.47 | 251 | 1.71 | 7100 | 1 6 0 | | | |
| 5.4 | 169.72 | 301 | 1.44 | 7100 | 1 8 0 | | | |
| 4.7 | 197.84 | 350 | 1.26 | 7100 | 2 0 0 | | | |
| 4.2 | 219.82 | 388 | 1.13 | 7100 | 2 2 5 | | | |
| 3.5 | 264.71 | 469 | 0.94 | 7100 | 2 8 0 | | | |
| 3.0 | 303.42 | 537 | 0.80 | 7100 | 3 1 5 | | | |
| 17 | 55.28 | 99 | 3.88 | 7100 | F 0 4 2 2 5 6 . _ M - - - - . 1 8 C - - | | 24.5 | 71 |
| 15 | 62.29 | 111 | 3.38 | 7100 | 6 3 . | | | |
| 13 | 72.41 | 130 | 2.51 | 7100 | 7 1 . | | | |
| 11 | 82.18 | 147 | 2.00 | 7100 | 9 0 . | | | |
| 10 | 93.43 | 167 | 1.57 | 7100 | 1 0 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors
- Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.18 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] Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes | |
| 6 POLE | 9.2 | 99.52 | 177 | 2.35 | 7100 | F 0 4 3 2 1 0 0 - M - - - . 1 8 C - - | 25.5 | 71 | |
| | 8.4 | 109.72 | 195 | 2.17 | 7100 | 1 1 2 | | | |
| | 7.6 | 120.75 | 214 | 2.00 | 7100 | 1 2 5 | | | |
| | 6.5 | 141.47 | 251 | 1.71 | 7100 | 1 6 0 | | | |
| | 5.4 | 169.72 | 301 | 1.44 | 7100 | 1 8 0 | | | |
| | 4.7 | 197.84 | 350 | 1.26 | 7100 | 2 0 0 | | | |
| | 4.2 | 219.82 | 388 | 1.13 | 7100 | 2 2 5 | | | |
| | 3.5 | 264.71 | 469 | 0.94 | 7100 | 2 8 0 | | | |
| | 3.0 | 303.42 | 537 | 0.80 | 7100 | 3 1 5 | | | |
| | 13 | 72.92 | 130 | 2.78 | 9200 | F 0 5 2 2 7 1 . - M - - - . 1 8 C - - | 32.5 | 71 | |
| | 11 | 86.82 | 155 | 3.90 | 9200 | F 0 5 3 2 9 0 . - M - - - . 1 8 C - - | 33.5 | 71 | |
| | 9.2 | 99.86 | 178 | 3.58 | 9200 | 1 0 0 | | | |
| | 8.5 | 108.57 | 193 | 3.41 | 9200 | 1 1 2 | | | |
| | 7.1 | 130.34 | 232 | 3.07 | 9200 | 1 2 5 | | | |
| | 5.9 | 156.40 | 278 | 2.74 | 9200 | 1 6 0 | | | |
| | 5.2 | 176.23 | 312 | 2.47 | 9200 | 1 8 0 | | | |
| | 4.5 | 204.87 | 364 | 2.11 | 9200 | 2 0 0 | | | |
| | 4.0 | 232.53 | 413 | 1.84 | 9200 | 2 2 5 | | | |
| | 3.5 | 264.35 | 468 | 1.45 | 9200 | 2 8 0 | | | |
| | 2.9 | 314.39 | 567 | 1.15 | 9200 | F 0 5 4 2 3 2 0 - M - - - . 1 8 C - - | 44.5 | 71 | |
| | 2.6 | 351.75 | 635 | 1.07 | 9200 | 3 6 0 | | | |
| | 2.2 | 412.85 | 745 | 0.91 | 9200 | 4 0 0 | | | |
| | 2.0 | 444.31 | 802 | 0.85 | 9200 | 4 5 0 | | | |
| | 10 | 93.75 | 168 | 2.78 | 11300 | F 0 6 2 2 1 0 0 - M - - - . 1 8 C - - | 47.5 | 71 | |
| | 8.2 | 111.62 | 199 | 3.90 | 11300 | F 0 6 3 2 1 1 2 - M - - - . 1 8 C - - | 48.5 | 71 | |
| | 7.2 | 128.39 | 229 | 3.58 | 11300 | 1 2 5 | | | |
| | 6.6 | 139.58 | 249 | 3.41 | 11300 | 1 6 0 | | | |
| | 5.5 | 167.56 | 299 | 3.06 | 11300 | 1 8 0 | | | |
| | 4.6 | 201.07 | 358 | 2.64 | 11300 | 2 0 0 | | | |
| | 4.1 | 226.56 | 403 | 2.39 | 11300 | 2 2 5 | | | |
| | 3.5 | 263.38 | 469 | 2.10 | 11300 | 2 8 0 | | | |
| | 3.1 | 298.94 | 532 | 1.84 | 11300 | 3 1 5 | | | |
| | 2.7 | 339.84 | 604 | 1.45 | 11300 | 3 6 0 | | | |
| | 2.2 | 404.18 | 729 | 1.15 | 11300 | F 0 6 4 2 4 0 0 - M - - - . 1 8 C - - | 59.5 | 71 | |
| | 2.0 | 445.09 | 803 | 1.04 | 11300 | 4 5 0 | | | |
| | 1.8 | 497.98 | 899 | 0.98 | 11300 | 5 0 0 | | | |
| | 1.6 | 571.21 | 1031 | 0.87 | 11300 | 5 6 0 | | | |
| | 2.2 | 404.11 | 729 | 2.18 | 17000 | F 0 7 4 2 4 0 0 - M - - - . 1 8 C - - | 79.5 | 71 | |
| | 1.9 | 464.36 | 838 | 2.05 | 17000 | 4 5 0 | | | |
| | 1.7 | 534.13 | 964 | 1.78 | 17000 | 5 0 0 | | | |
| | 1.6 | 580.70 | 1048 | 1.64 | 17000 | 5 6 0 | | | |
| | 1.4 | 658.49 | 1188 | 1.57 | 17000 | 6 3 0 | | | |
| | 1.2 | 726.31 | 1311 | 1.44 | 17000 | 7 0 0 | | | |
| | 1.1 | 831.78 | 1501 | 1.26 | 17000 | 8 0 0 | | | |
| | 1.0 | 944.37 | 1704 | 1.11 | 17000 | 9 0 0 | | | |
| | 0.87 | 1039.95 | 1877 | 1.01 | 17000 | 1 0 C | | | |
| | 0.83 | 1090.34 | 1967 | 0.96 | 17000 | 1 1 C | | | |
| | 2.3 | 395.81 | 714 | 3.78 | 19000 | F 0 8 4 2 4 0 0 - M - - - . 1 8 C - - | 141 | 71 | |
| | 2.0 | 460.35 | 831 | 3.25 | 19000 | 4 5 0 | | | |
| | 1.8 | 490.05 | 884 | 3.13 | 19000 | 5 0 0 | | | |
| | 1.6 | 569.96 | 1028 | 2.69 | 19000 | 5 6 0 | | | |
| | 1.4 | 637.69 | 1151 | 2.41 | 19000 | 6 3 0 | | | |
| | 1.3 | 679.67 | 1226 | 2.26 | 19000 | 7 0 0 | | | |
| | 1.1 | 805.50 | 1454 | 1.91 | 19000 | 8 0 0 | | | |
| | 1.0 | 909.51 | 1641 | 1.95 | 19000 | 9 0 0 | | | |
| | 0.89 | 1017.59 | 1836 | 1.74 | 19000 | 1 0 C | | | |
| | 0.83 | 1084.58 | 1957 | 1.64 | 19000 | 1 1 C | | | |
| | 0.76 | 1191.37 | 2150 | 1.49 | 19000 | 1 2 C | | | |
| | 0.64 | 1411.94 | 2548 | 1.26 | 19000 | 1 4 C | | | |
| | 0.57 | 1594.33 | 2877 | 1.11 | 19000 | 1 6 C | | | |
| | 0.48 | 1889.50 | 3410 | 0.94 | 19000 | 1 8 C | | | |
| | 0.45 | 2017.40 | 3640 | 0.88 | 19000 | 2 0 C | | | |
| | 1.5 | 594.29 | 1072 | 3.94 | 32000 | F 0 9 4 1 5 6 0 - M - - - . 1 8 C - - | 206 | 71 | |
| | 1.4 | 664.91 | 1200 | 3.53 | 32000 | 6 3 0 | | | |
| | 1.3 | 708.68 | 1279 | 3.31 | 32000 | 7 0 0 | | | |
| | 1.1 | 839.89 | 1516 | 2.79 | 32000 | 8 0 0 | | | |
| | 1.0 | 926.74 | 1672 | 2.53 | 32000 | 9 0 0 | | | |
| | 0.87 | 1036.86 | 1871 | 2.26 | 32000 | 1 0 C | | | |
| | 0.82 | 1105.12 | 1994 | 2.12 | 32000 | 1 1 C | | | |
| | 0.77 | 1177.20 | 2124 | 1.99 | 32000 | 1 2 C | | | |
| | 0.65 | 1395.15 | 2518 | 1.68 | 32000 | 1 4 C | | | |
| | 0.60 | 1520.27 | 2743 | 1.54 | 32000 | 1 6 C | | | |
| | 0.50 | 1801.73 | 3251 | 1.30 | 32000 | 1 8 C | | | |
| | 0.47 | 1923.69 | 3471 | 1.22 | 32000 | 2 0 C | | | |
| | 0.42 | 2179.69 | 3933 | 1.08 | 32000 | 2 2 C | | | |
| | 0.38 | 2387.13 | 4308 | 0.98 | 32000 | 2 5 C | | | |
| | 0.32 | 2814.91 | 5079 | 0.83 | 32000 | 2 8 C | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.25 kW

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-----------------|--------|------------------|-------------------|------------------|---|--------------|---------------------------------|----------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 232 | 5.90 | 10 | 6.10 | 1404 | F 0 2 2 2 6 . 3 _ M - - - - . 2 5 A - - | 7 . 1 | 17.5 | 71 |
| 172 | 7.97 | 13 | 5.30 | 1566 | | 9 . 0 | | |
| 151 | 9.07 | 15 | 4.96 | 1642 | | 1 0 . | | |
| 133 | 10.27 | 17 | 4.63 | 1720 | | 1 2 . | | |
| 104 | 13.14 | 22 | 4.00 | 1882 | | 1 4 . | | |
| 97 | 14.16 | 24 | 3.83 | 1930 | | 1 6 . | | |
| 77 | 17.88 | 30 | 3.30 | 2100 | | 2 0 . | | |
| 68 | 20.27 | 34 | 3.02 | 2197 | | 2 2 . | | |
| 59 | 23.16 | 39 | 2.75 | 2314 | | 2 5 . | | |
| 53 | 25.77 | 44 | 2.56 | 2406 | | 2 8 . | | |
| 48 | 28.41 | 48 | 2.43 | 2495 | | 3 2 . | | |
| 44 | 31.26 | 53 | 2.30 | 2576 | | 3 6 . | | |
| 37 | 36.63 | 63 | 2.06 | 2744 | | 4 0 . | | |
| 31 | 43.94 | 75 | 1.73 | 2927 | | 5 0 . | | |
| 27 | 51.22 | 86 | 1.50 | 3078 | | 5 6 . | | |
| 25 | 56.91 | 94 | 1.37 | 3184 | | 6 3 . | | |
| 20 | 68.54 | 113 | 1.14 | 3408 | | 7 1 . | | |
| 18 | 78.56 | 130 | 0.99 | 3582 | | 9 0 . | | |
| 16 | 89.28 | 148 | 0.87 | 3753 | | | | |
| 22 | 62.29 | 104 | 3.48 | 7100 | F 0 3 2 2 6 3 . _ M - - - - . 2 5 A - - | 7 1 . | 24.5 | 71 |
| 19 | 72.41 | 121 | 2.59 | 7100 | | 9 0 . | | |
| 17 | 82.18 | 137 | 2.05 | 7100 | | 1 0 0 | | |
| 15 | 93.43 | 156 | 1.61 | 7100 | | | | |
| 14 | 99.52 | 164 | 2.22 | 7100 | F 0 3 3 2 1 0 0 _ M - - - - . 2 5 A - - | 1 1 2 | 25.5 | 71 |
| 12 | 109.72 | 182 | 2.08 | 7100 | | 1 2 5 | | |
| 11 | 120.75 | 200 | 1.98 | 7100 | | 1 6 0 | | |
| 10 | 141.47 | 235 | 1.76 | 7100 | | 1 8 0 | | |
| 8.1 | 169.72 | 281 | 1.51 | 7100 | | 2 0 0 | | |
| 6.9 | 197.84 | 327 | 1.33 | 7100 | | 2 2 5 | | |
| 6.2 | 219.82 | 363 | 1.21 | 7100 | | 2 8 0 | | |
| 5.2 | 264.71 | 438 | 1.01 | 7100 | | 3 1 5 | | |
| 4.5 | 303.42 | 501 | 0.86 | 7100 | | | | |
| 22 | 62.29 | 104 | 3.48 | 7100 | F 0 4 2 2 6 3 . _ M - - - - . 2 5 A - - | 7 1 . | 24.5 | 71 |
| 19 | 72.41 | 121 | 2.59 | 7100 | | 9 0 . | | |
| 17 | 82.18 | 137 | 2.05 | 7100 | | 1 0 0 | | |
| 14 | 99.52 | 164 | 2.22 | 7100 | F 0 4 3 2 1 0 0 _ M - - - - . 2 5 A - - | 1 1 2 | 25.5 | 71 |
| 12 | 109.72 | 182 | 2.08 | 7100 | | 1 2 5 | | |
| 11 | 120.75 | 200 | 1.98 | 7100 | | 1 6 0 | | |
| 10 | 141.47 | 235 | 1.76 | 7100 | | 1 8 0 | | |
| 8.1 | 169.72 | 281 | 1.51 | 7100 | | 2 0 0 | | |
| 6.9 | 197.84 | 327 | 1.33 | 7100 | | 2 2 5 | | |
| 6.2 | 219.82 | 363 | 1.21 | 7100 | | 2 8 0 | | |
| 5.2 | 264.71 | 438 | 1.01 | 7100 | | 3 1 5 | | |
| 4.5 | 303.42 | 501 | 0.86 | 7100 | | | | |
| 19 | 72.92 | 121 | 2.99 | 9200 | F 0 5 2 2 7 1 . _ M - - - - . 2 5 A - - | 1 1 2 | 33 | 71 |
| 16 | 86.82 | 144 | 3.59 | 9200 | F 0 5 3 2 9 0 . _ M - - - - . 2 5 A - - | 1 0 0 | 34 | 71 |
| 14 | 99.86 | 166 | 3.29 | 9200 | | 1 1 2 | | |
| 13 | 108.57 | 180 | 3.13 | 9200 | | 1 2 5 | | |
| 11 | 130.34 | 216 | 2.81 | 9200 | | 1 6 0 | | |
| 8.8 | 156.40 | 259 | 2.51 | 9200 | | 1 8 0 | | |
| 7.8 | 176.23 | 292 | 2.34 | 9200 | | 2 0 0 | | |
| 6.7 | 204.87 | 339 | 2.14 | 9200 | | 2 2 5 | | |
| 5.9 | 232.53 | 385 | 1.90 | 9200 | | 2 8 0 | | |
| 5.2 | 264.35 | 437 | 1.49 | 9200 | | 3 1 5 | | |
| 14 | 270.31 | 436 | 1.32 | 9200 | F 0 5 4 2 3 2 0 _ M - - - - . 2 5 A - - | 1 2 5 | 46 | 71 |
| 4.5 | 314.39 | 507 | 1.28 | 9200 | | 3 6 0 | | |
| 4.0 | 351.75 | 567 | 1.20 | 9200 | | 4 0 0 | | |
| 3.4 | 412.85 | 666 | 1.02 | 9200 | | 4 5 0 | | |
| 3.2 | 444.31 | 717 | 0.95 | 9200 | | 5 0 0 | | |
| 2.9 | 489.28 | 789 | 0.86 | 9200 | | 5 6 0 | | |
| 15 | 93.75 | 157 | 2.99 | 11300 | F 0 6 2 2 1 0 0 _ M - - - - . 2 5 A - - | 1 1 2 | 48 | 71 |
| 12 | 111.62 | 186 | 3.59 | 11300 | F 0 6 3 2 1 1 2 _ M - - - - . 2 5 A - - | 1 2 5 | 49 | 71 |
| 11 | 128.39 | 213 | 3.29 | 11300 | | 1 6 0 | | |
| 10 | 139.58 | 232 | 3.13 | 11300 | | 1 8 0 | | |
| 8.2 | 167.56 | 278 | 2.81 | 11300 | | 2 0 0 | | |
| 6.8 | 201.07 | 334 | 2.51 | 11300 | | 2 2 5 | | |
| 6.0 | 226.56 | 375 | 2.34 | 11300 | | 2 8 0 | | |
| 5.2 | 263.38 | 437 | 2.11 | 11300 | | 3 1 5 | | |
| 4.6 | 298.94 | 495 | 1.90 | 11300 | | 3 6 0 | | |
| 4.0 | 339.84 | 563 | 1.49 | 11300 | | | | |
| 3.5 | 404.18 | 652 | 1.29 | 11300 | F 0 6 4 2 4 0 0 _ M - - - - . 2 5 A - - | 3 6 0 | 60 | 71 |
| 3.2 | 445.09 | 718 | 1.17 | 11300 | | 4 0 0 | | |
| 2.8 | 497.98 | 803 | 1.10 | 11300 | | 4 5 0 | | |
| 2.5 | 571.21 | 921 | 0.97 | 11300 | | 5 0 0 | | |
| 2.2 | 629.02 | 1015 | 0.88 | 11300 | | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.25 kW

4 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-----------------|---------|------------------|-------------------|------------------|------------------|---|---------------------------------|----------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry | 1 Through 20 Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 3.5 | 404.11 | 652 | 2.44 | 17000 | F 0 7 4 2 4 0 0 | _ M _ _ _ _ . 2 5 A - - | 80 | 71 |
| 3.0 | 464.36 | 750 | 2.29 | 17000 | | 4 5 0 | | |
| 2.6 | 534.13 | 862 | 1.99 | 17000 | | 5 0 0 | | |
| 2.4 | 580.70 | 937 | 1.83 | 17000 | | 5 6 0 | | |
| 2.1 | 658.49 | 1063 | 1.75 | 17000 | | 6 3 0 | | |
| 1.9 | 726.31 | 1173 | 1.61 | 17000 | | 7 0 0 | | |
| 1.7 | 831.78 | 1343 | 1.41 | 17000 | | 8 0 0 | | |
| 1.5 | 944.37 | 1525 | 1.24 | 17000 | | 9 0 0 | | |
| 1.4 | 1039.95 | 1679 | 1.13 | 17000 | | 1 0 C | | |
| 1.3 | 1090.34 | 1760 | 1.07 | 17000 | | 1 1 C | | |
| 1.2 | 1196.20 | 1931 | 0.98 | 17000 | | 1 2 C | | |
| 1.0 | 1350.14 | 2180 | 0.87 | 17000 | | 1 4 C | | |
| 3.5 | 395.81 | 639 | 4.23 | 19700 | F 0 8 4 2 4 0 0 | _ M _ _ _ _ . 2 5 A - - | 141 | 71 |
| 3.1 | 460.35 | 743 | 3.63 | 19700 | | 4 5 0 | | |
| 2.9 | 490.05 | 791 | 3.50 | 19700 | | 5 0 0 | | |
| 2.5 | 569.96 | 920 | 3.01 | 19700 | | 5 6 0 | | |
| 2.2 | 637.69 | 1029 | 2.69 | 19700 | | 6 3 0 | | |
| 2.1 | 679.67 | 1097 | 2.52 | 19700 | | 7 0 0 | | |
| 1.7 | 805.50 | 1300 | 2.13 | 19700 | | 8 0 0 | | |
| 1.5 | 909.51 | 1468 | 2.18 | 19700 | | 9 0 0 | | |
| 1.4 | 1017.59 | 1643 | 1.95 | 19700 | | 1 0 C | | |
| 1.3 | 1084.58 | 1751 | 1.83 | 19700 | | 1 1 C | | |
| 1.2 | 1191.37 | 1923 | 1.66 | 19700 | | 1 2 C | | |
| 1.0 | 1411.94 | 2279 | 1.40 | 19700 | | 1 4 C | | |
| 0.9 | 1594.33 | 2574 | 1.24 | 19700 | | 1 6 C | | |
| 0.7 | 1889.50 | 3050 | 1.05 | 19700 | | 1 8 C | | |
| 0.7 | 2017.40 | 3257 | 0.98 | 19700 | | 2 0 C | | |
| 0.6 | 2292.50 | 3701 | 0.86 | 19700 | | 2 2 C | | |
| 2.1 | 664.91 | 1073 | 3.94 | 32000 | F 0 9 4 1 6 3 0 | _ M _ _ _ _ . 2 5 A - - | 206 | 71 |
| 2.0 | 708.68 | 1144 | 3.70 | 32000 | | 7 0 0 | | |
| 1.7 | 839.89 | 1356 | 3.12 | 32000 | | 8 0 0 | | |
| 1.5 | 926.74 | 1496 | 2.83 | 32000 | | 9 0 0 | | |
| 1.4 | 1036.86 | 1674 | 2.53 | 32000 | | 1 0 C | | |
| 1.3 | 1105.12 | 1784 | 2.37 | 32000 | | 1 1 C | | |
| 1.2 | 1177.20 | 1900 | 2.23 | 32000 | | 1 2 C | | |
| 1.0 | 1395.15 | 2252 | 1.88 | 32000 | | 1 4 C | | |
| 0.9 | 1520.27 | 2454 | 1.72 | 32000 | | 1 6 C | | |
| 0.8 | 1801.73 | 2909 | 1.45 | 32000 | | 1 8 C | | |
| 0.7 | 1923.69 | 3105 | 1.36 | 32000 | | 2 0 C | | |
| 0.6 | 2179.69 | 3519 | 1.20 | 32000 | | 2 2 C | | |
| 0.6 | 2387.13 | 3854 | 1.10 | 32000 | | 2 5 C | | |
| 0.5 | 2814.91 | 4544 | 0.93 | 32000 | | 2 8 C | | |
| 0.5 | 3082.28 | 4976 | 0.85 | 32000 | | 3 2 C | | |

0.25 kW

6 POLE

| | | | | | | | | |
|-----|--------|-----|------|------|-------------------|-------------------------|------|----|
| 156 | 5.90 | 15 | 3.48 | 1623 | F 0 2 2 2 6 . 3 | _ M _ _ _ _ . 2 5 C - - | 18.5 | 71 |
| 115 | 7.97 | 20 | 3.92 | 1814 | | 7 . 1 | | |
| 101 | 9.07 | 23 | 3.66 | 1902 | | 9 . 0 | | |
| 90 | 10.27 | 26 | 3.42 | 1983 | | 1 0 . | | |
| 70 | 13.14 | 33 | 2.93 | 2174 | | 1 2 . | | |
| 65 | 14.16 | 36 | 2.81 | 2234 | | 1 4 . | | |
| 51 | 17.88 | 45 | 2.42 | 2440 | | 1 6 . | | |
| 45 | 20.27 | 51 | 2.25 | 2554 | | 2 0 . | | |
| 40 | 23.16 | 58 | 2.12 | 2667 | | 2 2 . | | |
| 36 | 25.77 | 64 | 2.01 | 2771 | | 2 5 . | | |
| 32 | 28.41 | 72 | 1.78 | 2893 | | 2 8 . | | |
| 29 | 31.26 | 80 | 1.62 | 2999 | | 3 2 . | | |
| 25 | 36.63 | 93 | 1.39 | 3166 | | 3 6 . | | |
| 21 | 43.94 | 110 | 1.17 | 3374 | | 4 0 . | | |
| 18 | 51.22 | 129 | 1.00 | 3569 | | 5 0 . | | |
| 16 | 56.91 | 144 | 0.90 | 3719 | | 5 6 . | | |
| 13 | 68.54 | 173 | 0.74 | 3980 | | 6 3 . | | |
| 12 | 78.56 | 199 | 0.65 | 4184 | | 7 1 . | | |
| 10 | 89.28 | 226 | 0.80 | 4384 | | 9 0 . | | |
| 24 | 38.37 | 95 | 3.87 | 7200 | F 0 3 2 2 4 0 . | _ M _ _ _ _ . 2 5 C - - | 25.5 | 71 |
| 20 | 46.07 | 115 | 3.39 | 7200 | | 5 0 . | | |
| 17 | 55.28 | 138 | 2.79 | 7200 | | 5 6 . | | |
| 15 | 62.29 | 155 | 2.43 | 7200 | | 6 3 . | | |
| 13 | 72.41 | 181 | 1.81 | 7200 | | 7 1 . | | |
| 11 | 82.18 | 205 | 1.44 | 7200 | | 9 0 . | | |
| 10 | 93.43 | 232 | 1.13 | 7200 | | 1 0 0 | | |
| 9.2 | 99.52 | 246 | 1.69 | 7200 | F 0 3 3 2 1 0 0 . | _ M _ _ _ _ . 2 5 C - - | 26.5 | 71 |
| 8.4 | 109.72 | 271 | 1.56 | 7200 | | 1 1 2 | | |
| 7.6 | 120.75 | 298 | 1.44 | 7200 | | 1 2 5 | | |
| 6.5 | 141.47 | 349 | 1.23 | 7200 | | 1 6 0 | | |
| 5.4 | 169.72 | 418 | 1.04 | 7200 | | 1 8 0 | | |
| 4.7 | 197.84 | 487 | 0.90 | 7200 | | 2 0 0 | | |
| 4.2 | 219.82 | 540 | 0.82 | 7200 | | 2 2 5 | | |
| 24 | 38.37 | 95 | 3.87 | 7200 | F 0 4 2 2 4 0 . | _ M _ _ _ _ . 2 5 C - - | 25.5 | 71 |
| 20 | 46.07 | 115 | 3.39 | 7200 | | 5 0 . | | |
| 17 | 55.28 | 138 | 2.79 | 7200 | | 5 6 . | | |
| 15 | 62.29 | 155 | 2.43 | 7200 | | 6 3 . | | |
| 13 | 72.41 | 181 | 1.81 | 7200 | | 7 1 . | | |
| 11 | 82.18 | 205 | 1.44 | 7200 | | 9 0 . | | |
| 10 | 93.43 | 232 | 1.13 | 7200 | | 1 0 0 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors
- Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 of base mount unit | Motor Sizes |
| 9.2 | 99.52 | 246 | 1.69 | 7200 | F 0 4 3 2 1 0 0 _ M - - - - . 2 5 C - - | | 26.5 | 71 |
| 8.4 | 109.72 | 271 | 1.56 | 7200 | 1 1 2 | | | |
| 7.6 | 120.75 | 298 | 1.44 | 7200 | 1 2 5 | | | |
| 6.5 | 141.47 | 349 | 1.23 | 7200 | 1 6 0 | | | |
| 5.4 | 169.72 | 418 | 1.04 | 7200 | 1 8 0 | | | |
| 4.7 | 197.84 | 487 | 0.90 | 7200 | 2 0 0 | | | |
| 4.2 | 219.82 | 540 | 0.82 | 7200 | 2 2 5 | | | |
| 14 | 65.02 | 162 | 3.08 | 9200 | F 0 5 2 2 6 3 _ M - - - - . 2 5 C - - | | 33.5 | 71 |
| 13 | 72.92 | 181 | 2.00 | 9200 | 7 1 _ | | | |
| 12 | 78.84 | 195 | 3.15 | 9200 | F 0 5 3 2 8 0 _ M - - - - . 2 5 C - - | | 34.5 | 71 |
| 11 | 86.82 | 215 | 2.81 | 9200 | 9 0 _ | | | |
| 9.2 | 99.86 | 247 | 2.58 | 9200 | 1 0 0 | | | |
| 8.5 | 108.57 | 269 | 2.45 | 9200 | 1 1 2 | | | |
| 7.1 | 130.34 | 322 | 2.21 | 9200 | 1 2 5 | | | |
| 5.9 | 156.40 | 386 | 1.97 | 9200 | 1 6 0 | | | |
| 5.2 | 176.23 | 434 | 1.77 | 9200 | 1 8 0 | | | |
| 4.5 | 204.87 | 506 | 1.52 | 9200 | 2 0 0 | | | |
| 4.0 | 232.53 | 574 | 1.33 | 9200 | 2 2 5 | | | |
| 3.5 | 264.35 | 651 | 1.04 | 9200 | 2 8 0 | | | |
| 2.9 | 314.39 | 788 | 0.83 | 9200 | F 0 5 4 2 3 2 0 _ M - - - - . 2 5 C - - | | 45.5 | 71 |
| 11 | 83.59 | 209 | 3.08 | 11300 | F 0 6 2 2 9 0 _ M - - - - . 2 5 C - - | | 48.5 | 71 |
| 10 | 93.75 | 233 | 2.00 | 11300 | 1 0 0 | | | |
| 9.1 | 101.36 | 251 | 3.15 | 11300 | F 0 6 3 2 1 0 0 _ M - - - - . 2 5 C - - | | 49.5 | 71 |
| 8.2 | 111.62 | 277 | 2.81 | 11300 | 1 1 2 | | | |
| 7.2 | 128.39 | 319 | 2.58 | 11300 | 1 2 5 | | | |
| 6.6 | 139.58 | 346 | 2.45 | 11300 | 1 6 0 | | | |
| 5.5 | 167.56 | 416 | 2.20 | 11300 | 1 8 0 | | | |
| 4.6 | 201.07 | 497 | 1.90 | 11300 | 2 0 0 | | | |
| 4.1 | 226.56 | 560 | 1.72 | 11300 | 2 2 5 | | | |
| 3.5 | 263.38 | 652 | 1.51 | 11300 | 2 8 0 | | | |
| 3.1 | 298.94 | 739 | 1.33 | 11300 | 3 1 5 | | | |
| 2.7 | 339.84 | 839 | 1.04 | 11300 | 3 6 0 | | | |
| 2.2 | 404.18 | 1013 | 0.83 | 11300 | F 0 6 4 2 4 0 0 _ M - - - - . 2 5 C - - | | 60.5 | 71 |
| 2.2 | 404.11 | 1013 | 1.57 | 17000 | F 0 7 4 2 4 0 0 _ M - - - - . 2 5 C - - | | 80.5 | 71 |
| 1.9 | 464.36 | 1164 | 1.48 | 17000 | 4 5 0 | | | |
| 1.7 | 534.13 | 1339 | 1.28 | 17000 | 5 0 0 | | | |
| 1.6 | 580.70 | 1455 | 1.18 | 17000 | 5 6 0 | | | |
| 1.4 | 658.49 | 1650 | 1.13 | 17000 | 6 3 0 | | | |
| 1.2 | 726.31 | 1820 | 1.04 | 17000 | 7 0 0 | | | |
| 1.1 | 831.78 | 2085 | 0.91 | 17000 | 8 0 0 | | | |
| 1.0 | 944.37 | 2367 | 0.80 | 17000 | 9 0 0 | | | |
| 0.87 | 1039.95 | 2606 | 0.73 | 17000 | 1 0 C | | | |
| 0.83 | 1090.34 | 2733 | 0.69 | 17000 | 1 1 C | | | |
| 2.3 | 395.81 | 992 | 2.72 | 19700 | F 0 8 4 2 4 0 0 _ M - - - - . 2 5 C - - | | 142 | 71 |
| 2.0 | 460.35 | 1154 | 2.34 | 19700 | 4 5 0 | | | |
| 1.8 | 490.05 | 1228 | 2.26 | 19700 | 5 0 0 | | | |
| 1.6 | 569.96 | 1428 | 1.94 | 19700 | 5 6 0 | | | |
| 1.4 | 637.69 | 1598 | 1.73 | 19700 | 6 3 0 | | | |
| 1.3 | 679.67 | 1703 | 1.63 | 19700 | 7 0 0 | | | |
| 1.1 | 805.50 | 2019 | 1.37 | 19700 | 8 0 0 | | | |
| 1.0 | 909.51 | 2279 | 1.40 | 19700 | 9 0 0 | | | |
| 0.89 | 1017.59 | 2550 | 1.25 | 19700 | 1 0 C | | | |
| 0.83 | 1084.58 | 2718 | 1.18 | 19700 | 1 1 C | | | |
| 0.76 | 1191.37 | 2986 | 1.07 | 19700 | 1 2 C | | | |
| 0.64 | 1411.94 | 3539 | 0.90 | 19700 | 1 4 C | | | |
| 0.57 | 1594.33 | 3996 | 0.80 | 19700 | 1 6 C | | | |
| 2.0 | 460.18 | 1153 | 3.67 | 32000 | F 0 9 4 1 4 5 0 _ M - - - - . 2 5 C - - | | 207 | 71 |
| 1.8 | 510.96 | 1281 | 3.30 | 32000 | 5 0 0 | | | |
| 1.5 | 594.29 | 1489 | 2.84 | 32000 | 5 6 0 | | | |
| 1.4 | 664.91 | 1666 | 2.54 | 32000 | 6 3 0 | | | |
| 1.3 | 708.68 | 1776 | 2.38 | 32000 | 7 0 0 | | | |
| 1.1 | 839.89 | 2105 | 2.01 | 32000 | 8 0 0 | | | |
| 1.0 | 926.74 | 2323 | 1.82 | 32000 | 9 0 0 | | | |
| 0.87 | 1036.86 | 2599 | 1.63 | 32000 | 1 0 C | | | |
| 0.82 | 1105.12 | 2770 | 1.53 | 32000 | 1 1 C | | | |
| 0.77 | 1177.20 | 2950 | 1.43 | 32000 | 1 2 C | | | |
| 0.65 | 1395.15 | 3497 | 1.21 | 32000 | 1 4 C | | | |
| 0.60 | 1520.27 | 3810 | 1.11 | 32000 | 1 6 C | | | |
| 0.50 | 1801.73 | 4516 | 0.94 | 32000 | 1 8 C | | | |
| 0.47 | 1923.69 | 4821 | 0.88 | 32000 | 2 0 C | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 241 | 5.90 | 14 | 3.65 | 2080 | F 0 2 2 2 6 . 3 | M - - - - . 3 7 A - - | 18.5 | 71 |
| 178 | 7.97 | 19 | 2.70 | 2258 | 7 . 1 | | | |
| 157 | 9.07 | 22 | 3.49 | 2327 | 9 . 0 | | | |
| 138 | 10.27 | 25 | 3.25 | 2403 | 1 0 . | | | |
| 108 | 13.14 | 32 | 2.81 | 2554 | 1 2 . | | | |
| 100 | 14.16 | 34 | 2.67 | 2594 | 1 4 . | | | |
| 79 | 17.88 | 43 | 2.29 | 2730 | 1 6 . | | | |
| 70 | 20.27 | 49 | 2.10 | 2793 | 2 0 . | | | |
| 61 | 23.16 | 56 | 1.92 | 2865 | 2 2 . | | | |
| 55 | 25.77 | 62 | 1.80 | 2914 | 2 5 . | | | |
| 48 | 28.41 | 71 | 1.64 | 2495 | 2 8 . | | | |
| 44 | 31.26 | 78 | 1.55 | 2576 | 3 2 . | | | |
| 37 | 36.63 | 93 | 1.39 | 2744 | 3 6 . | | | |
| 31 | 43.94 | 111 | 1.17 | 2927 | 4 0 . | | | |
| 27 | 51.22 | 127 | 1.02 | 3078 | 5 0 . | | | |
| 25 | 56.91 | 139 | 0.93 | 3184 | 5 6 . | | | |
| 31 | 46.07 | 110 | 3.55 | 6690 | F 0 3 2 2 5 0 . | M - - - - . 3 7 A - - | 25.5 | 71 |
| 26 | 55.28 | 132 | 2.91 | 6981 | 5 6 . | | | |
| 23 | 62.29 | 149 | 2.44 | 7100 | 6 3 . | | | |
| 20 | 72.41 | 173 | 1.81 | 7100 | 7 1 . | | | |
| 17 | 82.18 | 196 | 1.44 | 7100 | 9 0 . | | | |
| 15 | 93.43 | 222 | 1.13 | 7100 | 1 0 0 | | | |
| 14 | 99.52 | 235 | 1.55 | 7100 | F 0 3 3 2 1 0 0 . | M - - - - . 3 7 A - - | 26.5 | 71 |
| 13 | 109.72 | 260 | 1.46 | 7100 | 1 1 2 | | | |
| 12 | 120.75 | 286 | 1.39 | 7100 | 1 2 5 | | | |
| 10 | 141.47 | 335 | 1.23 | 7100 | 1 6 0 | | | |
| 8.4 | 169.72 | 401 | 1.06 | 7100 | 1 8 0 | | | |
| 7.2 | 197.84 | 467 | 0.93 | 7100 | 2 0 0 | | | |
| 6.5 | 219.82 | 519 | 0.85 | 7100 | 2 2 5 | | | |
| 31 | 46.07 | 110 | 3.55 | 6690 | F 0 4 2 2 5 0 . | M - - - - . 3 7 A - - | 25.5 | 71 |
| 26 | 55.28 | 132 | 2.91 | 6981 | 5 6 . | | | |
| 23 | 62.29 | 149 | 2.44 | 7100 | 6 3 . | | | |
| 20 | 72.41 | 173 | 1.81 | 7100 | 7 1 . | | | |
| 17 | 82.18 | 196 | 1.44 | 7100 | 9 0 . | | | |
| 15 | 93.43 | 222 | 1.13 | 7100 | 1 0 0 | | | |
| 14 | 99.52 | 235 | 1.55 | 7100 | F 0 4 3 2 1 0 0 . | M - - - - . 3 7 A - - | 26.5 | 71 |
| 13 | 109.72 | 260 | 1.46 | 7100 | 1 1 2 | | | |
| 12 | 120.75 | 286 | 1.39 | 7100 | 1 2 5 | | | |
| 10 | 141.47 | 335 | 1.23 | 7100 | 1 6 0 | | | |
| 8.4 | 169.72 | 401 | 1.06 | 7100 | 1 8 0 | | | |
| 7.2 | 197.84 | 467 | 0.93 | 7100 | 2 0 0 | | | |
| 6.5 | 219.82 | 519 | 0.85 | 7100 | 2 2 5 | | | |
| 24 | 58.34 | 139 | 3.89 | 9200 | F 0 5 2 2 5 6 . | M - - - - . 3 7 A - - | 33.5 | 71 |
| 22 | 65.02 | 155 | 3.10 | 9200 | 6 3 . | | | |
| 19 | 72.92 | 174 | 2.09 | 9200 | 7 1 . | | | |
| 18 | 78.84 | 187 | 2.83 | 9200 | F 0 5 3 2 8 0 . | M - - - - . 3 7 A - - | 34.5 | 71 |
| 16 | 86.82 | 206 | 2.51 | 9200 | 9 0 . | | | |
| 14 | 99.86 | 237 | 2.31 | 9200 | 1 0 0 | | | |
| 13 | 108.57 | 257 | 2.19 | 9200 | 1 1 2 | | | |
| 11 | 130.34 | 309 | 1.97 | 9200 | 1 2 5 | | | |
| 9.1 | 156.40 | 370 | 1.75 | 9200 | 1 6 0 | | | |
| 8.1 | 176.23 | 416 | 1.64 | 9200 | 1 8 0 | | | |
| 6.9 | 204.87 | 485 | 1.50 | 9200 | 2 0 0 | | | |
| 6.1 | 232.53 | 550 | 1.33 | 9200 | 2 2 5 | | | |
| 5.4 | 264.35 | 624 | 1.04 | 9200 | 2 8 0 | | | |
| 4.5 | 314.39 | 751 | 0.87 | 9200 | F 0 5 4 2 3 2 0 . | M - - - - . 3 7 A - - | 45.5 | 71 |
| 4.0 | 351.75 | 840 | 0.81 | 9200 | 3 6 0 | | | |
| 19 | 75.00 | 179 | 3.89 | 11300 | F 0 6 2 2 7 1 . | M - - - - . 3 7 A - - | 48.5 | 71 |
| 17 | 83.59 | 199 | 3.10 | 11300 | 9 0 . | | | |
| 15 | 93.75 | 224 | 2.09 | 11300 | 1 0 0 | | | |
| 14 | 101.36 | 240 | 2.83 | 11300 | F 0 6 3 2 1 0 0 . | M - - - - . 3 7 A - - | 49.5 | 71 |
| 13 | 111.62 | 265 | 2.51 | 11300 | 1 1 2 | | | |
| 11 | 128.39 | 305 | 2.31 | 11300 | 1 2 5 | | | |
| 10 | 139.58 | 332 | 2.19 | 11300 | 1 6 0 | | | |
| 8.5 | 167.56 | 398 | 1.97 | 11300 | 1 8 0 | | | |
| 7.1 | 201.07 | 476 | 1.75 | 11300 | 2 0 0 | | | |
| 6.3 | 226.56 | 536 | 1.64 | 11300 | 2 2 5 | | | |
| 5.4 | 263.38 | 624 | 1.48 | 11300 | 2 8 0 | | | |
| 4.8 | 298.94 | 708 | 1.33 | 11300 | 3 1 5 | | | |
| 4.2 | 339.84 | 804 | 1.04 | 11300 | 3 6 0 | | | |
| 3.5 | 404.18 | 966 | 0.87 | 11300 | F 0 6 4 2 4 0 0 . | M - - - - . 3 7 A - - | 60.5 | 71 |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.37 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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 3.5 | 404.11 | 966 | 1.65 | 17000 | F 0 7 4 2 4 0 0 _ M - - - - . 3 7 A - - | | 80.5 | 71 |
| 3.0 | 464.36 | 1109 | 1.55 | 17000 | 4 5 0 _ | | | |
| 2.6 | 534.13 | 1276 | 1.35 | 17000 | 5 0 0 | | | |
| 2.4 | 580.70 | 1387 | 1.24 | 17000 | 5 6 0 | | | |
| 2.1 | 658.49 | 1573 | 1.18 | 17000 | 6 3 0 | | | |
| 1.9 | 726.31 | 1735 | 1.09 | 17000 | 7 0 0 | | | |
| 1.7 | 831.78 | 1987 | 0.95 | 17000 | 8 0 0 | | | |
| 1.5 | 944.37 | 2256 | 0.84 | 17000 | 9 0 0 | | | |
| 3.5 | 395.81 | 946 | 2.86 | 19700 | F 0 8 4 2 4 0 0 _ M - - - - . 3 7 A - - | | 142 | 71 |
| 3.1 | 460.35 | 1100 | 2.45 | 19700 | 4 5 0 | | | |
| 2.9 | 490.05 | 1171 | 2.37 | 19700 | 5 0 0 | | | |
| 2.5 | 569.96 | 1362 | 2.03 | 19700 | 5 6 0 | | | |
| 2.2 | 637.69 | 1524 | 1.82 | 19700 | 6 3 0 | | | |
| 2.1 | 679.67 | 1624 | 1.71 | 19700 | 7 0 0 | | | |
| 1.7 | 805.50 | 1925 | 1.44 | 19700 | 8 0 0 | | | |
| 1.5 | 909.51 | 2173 | 1.47 | 19700 | 9 0 0 | | | |
| 1.4 | 1017.59 | 2431 | 1.32 | 19700 | 1 0 C | | | |
| 1.3 | 1084.58 | 2591 | 1.23 | 19700 | 1 1 C | | | |
| 1.2 | 1191.37 | 2846 | 1.12 | 19700 | 1 2 C | | | |
| 1.0 | 1411.94 | 3373 | 0.95 | 19700 | 1 4 C | | | |
| 0.9 | 1594.33 | 3809 | 0.84 | 19700 | 1 6 C | | | |
| 3.1 | 460.18 | 1099 | 3.85 | 32000 | F 0 9 4 1 4 5 0 _ M - - - - . 3 7 A - - | | 207 | 71 |
| 2.7 | 510.96 | 1221 | 3.46 | 32000 | 5 0 0 | | | |
| 2.4 | 594.29 | 1420 | 2.98 | 32000 | 5 6 0 | | | |
| 2.1 | 664.91 | 1589 | 2.66 | 32000 | 6 3 0 | | | |
| 2.0 | 708.68 | 1693 | 2.50 | 32000 | 7 0 0 | | | |
| 1.7 | 839.89 | 2007 | 2.11 | 32000 | 8 0 0 | | | |
| 1.5 | 926.74 | 2214 | 1.91 | 32000 | 9 0 0 | | | |
| 1.4 | 1036.86 | 2477 | 1.71 | 32000 | 1 0 C | | | |
| 1.3 | 1105.12 | 2640 | 1.60 | 32000 | 1 1 C | | | |
| 1.2 | 1177.20 | 2813 | 1.50 | 32000 | 1 2 C | | | |
| 1.0 | 1395.15 | 3333 | 1.27 | 32000 | 1 4 C | | | |
| 0.9 | 1520.27 | 3632 | 1.16 | 32000 | 1 6 C | | | |
| 0.8 | 1801.73 | 4305 | 0.98 | 32000 | 1 8 C | | | |
| 0.7 | 1923.69 | 4596 | 0.92 | 32000 | 2 0 C | | | |
| 0.6 | 2179.69 | 5208 | 0.81 | 32000 | 2 2 C | | | |
| 0.37 kW | | | | | | | | |
| 6 POLE | | | | | | | | |
| 157 | 5.90 | 22 | 581 | 1619 | F 0 2 2 2 6 . 3 _ M - - - - . 3 7 C - - | | 21 | 80A |
| 116 | 7.97 | 30 | 430 | 1808 | 7 . 1 | | | |
| 102 | 9.07 | 34 | 378 | 1895 | 9 . 0 | | | |
| 90 | 10.27 | 38 | 334 | 1983 | 1 0 . | | | |
| 70 | 13.14 | 49 | 261 | 2174 | 1 2 . | | | |
| 65 | 14.16 | 53 | 242 | 2234 | 1 4 . | | | |
| 51 | 17.88 | 67 | 192 | 2440 | 1 6 . | | | |
| 45 | 20.27 | 76 | 1.52 | 2554 | 2 0 . | | | |
| 40 | 23.16 | 86 | 1.44 | 2667 | 2 2 . | | | |
| 36 | 25.77 | 95 | 1.35 | 2771 | 2 5 . | | | |
| 32 | 28.41 | 107 | 1.20 | 2893 | 2 8 . | | | |
| 29 | 31.26 | 118 | 1.09 | 2999 | 3 2 . | | | |
| 25 | 36.63 | 137 | 0.82 | 3166 | 3 6 . | | | |
| 33 | 27.86 | 102 | 3.65 | 6550 | F 0 3 2 2 2 8 . _ M - - - - . 3 7 C - - | | 28 | 80A |
| 30 | 30.68 | 113 | 3.31 | 6700 | 3 2 . | | | |
| 26 | 35.30 | 130 | 3.02 | 6923 | 3 6 . | | | |
| 24 | 38.37 | 141 | 2.63 | 7053 | 4 0 . | | | |
| 20 | 46.07 | 170 | 2.30 | 7100 | 5 0 . | | | |
| 17 | 55.28 | 203 | 1.90 | 7100 | 5 6 . | | | |
| 15 | 62.29 | 228 | 1.65 | 7100 | 6 3 . | | | |
| 13 | 72.41 | 266 | 1.23 | 7100 | 7 1 . | | | |
| 11 | 82.18 | 302 | 0.98 | 7100 | 9 0 . | | | |
| 9.3 | 99.52 | 362 | 1.15 | 7100 | F 0 3 3 2 1 0 0 _ M - - - - . 3 7 C - - | | 29 | 80A |
| 8.4 | 109.72 | 399 | 1.06 | 7100 | 1 1 2 | | | |
| 7.7 | 120.75 | 439 | 0.98 | 7100 | 1 2 5 | | | |
| 6.5 | 141.47 | 513 | 0.84 | 7100 | 1 6 0 | | | |
| 33 | 27.86 | 102 | 3.65 | 6550 | F 0 4 2 2 2 8 . _ M - - - - . 3 7 C - - | | 28 | 80A |
| 30 | 30.68 | 113 | 3.31 | 6700 | 3 2 . | | | |
| 26 | 35.30 | 130 | 3.02 | 6923 | 3 6 . | | | |
| 24 | 38.37 | 141 | 2.63 | 7053 | 4 0 . | | | |
| 20 | 46.07 | 170 | 2.30 | 7100 | 5 0 . | | | |
| 17 | 55.28 | 203 | 1.90 | 7100 | 5 6 . | | | |
| 15 | 62.29 | 228 | 1.65 | 7100 | 6 3 . | | | |
| 13 | 72.41 | 266 | 1.23 | 7100 | 7 1 . | | | |
| 11 | 82.18 | 302 | 0.98 | 7100 | 9 0 . | | | |
| 9.3 | 99.52 | 362 | 1.15 | 7100 | F 0 4 3 2 1 0 0 _ M - - - - . 3 7 C - - | | 29 | 80A |
| 8.4 | 109.72 | 399 | 1.06 | 7100 | 1 1 2 | | | |
| 7.7 | 120.75 | 439 | 0.98 | 7100 | 1 2 5 | | | |
| 6.5 | 141.47 | 513 | 0.84 | 7100 | 1 6 0 | | | |
| 16 | 58.34 | 215 | 2.63 | 9200 | F 0 5 2 2 5 6 . _ M - - - - . 3 7 C - - | | 36 | 80A |
| 14 | 65.02 | 239 | 2.09 | 9200 | 6 3 . | | | |
| 13 | 72.92 | 267 | 1.36 | 9200 | 7 1 . | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.37 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 6 POLE | 12 | 78.84 | 287 | 2.14 | 9200 | F 0 5 3 2 8 0 . _ M _ _ _ _ . 3 7 C - - | 37 | 80A |
| | 11 | 86.82 | 317 | 1.91 | 9200 | 9 0 . | | |
| | 9.3 | 99.86 | 364 | 1.75 | 9200 | 1 0 0 | | |
| | 8.5 | 108.57 | 396 | 1.67 | 9200 | 1 1 2 | | |
| | 7.1 | 130.34 | 474 | 1.50 | 9200 | 1 2 5 | | |
| | 5.9 | 156.40 | 568 | 1.34 | 9200 | 1 6 0 | | |
| | 5.2 | 176.23 | 639 | 1.21 | 9200 | 1 8 0 | | |
| | 4.5 | 204.87 | 745 | 1.03 | 9200 | 2 0 0 | | |
| | 4.0 | 232.53 | 845 | 0.90 | 9200 | 2 2 5 | | |
| | 15 | 61.20 | 225 | 3.96 | 11300 | F 0 6 2 2 6 3 . _ M _ _ _ _ . 3 7 C - - | 51 | 80A |
| | 12 | 75.00 | 277 | 2.63 | 11300 | 7 1 . | | |
| | 11 | 83.59 | 308 | 2.09 | 11300 | 9 0 . | | |
| | 10 | 93.75 | 344 | 1.36 | 11300 | 1 0 0 | | |
| | 9.1 | 101.36 | 370 | 2.14 | 11300 | F 0 6 3 2 1 0 0 - M _ _ _ _ . 3 7 C - - | 52 | 80A |
| | 8.3 | 111.62 | 408 | 1.91 | 11300 | 1 1 2 | | |
| | 7.2 | 128.39 | 469 | 1.75 | 11300 | 1 2 5 | | |
| | 6.6 | 139.58 | 510 | 1.67 | 11300 | 1 6 0 | | |
| | 5.5 | 167.56 | 612 | 1.50 | 11300 | 1 8 0 | | |
| | 4.6 | 201.07 | 732 | 1.29 | 11300 | 2 0 0 | | |
| | 4.1 | 226.56 | 824 | 1.17 | 11300 | 2 2 5 | | |
| | 3.5 | 263.38 | 960 | 1.03 | 11300 | 2 8 0 | | |
| | 3.1 | 298.94 | 1088 | 0.90 | 11300 | 3 1 5 | | |
| | 10 | 89.42 | 328 | 3.93 | 17000 | F 0 7 2 2 9 0 . - M _ _ _ _ . 3 7 C - - | 72 | 80A |
| | 9.3 | 99.36 | 364 | 3.02 | 17000 | 1 0 0 | | |
| | 8.5 | 108.56 | 397 | 3.59 | 17000 | F 0 7 3 2 1 0 0 - M _ _ _ _ . 3 7 C - - | 77 | 80A |
| | 8.0 | 115.70 | 423 | 3.26 | 17000 | 1 1 2 | | |
| | 6.7 | 137.12 | 499 | 2.94 | 17000 | 1 2 5 | | |
| | 6.3 | 146.40 | 531 | 2.84 | 17000 | 1 6 0 | | |
| | 5.1 | 181.67 | 662 | 2.49 | 17000 | 1 8 0 | | |
| | 4.3 | 214.23 | 783 | 2.26 | 17000 | 2 0 0 | | |
| | 3.9 | 234.58 | 854 | 2.14 | 17000 | 2 2 5 | | |
| | 3.2 | 287.49 | 1048 | 1.90 | 17000 | 2 8 0 | | |
| | 2.9 | 320.43 | 1167 | 1.80 | 17000 | 3 1 5 | | |
| | 2.6 | 359.36 | 1306 | 1.36 | 17000 | 3 6 0 | | |
| | 2.2 | 404.11 | 1499 | 1.06 | 17000 | F 0 7 4 2 4 0 0 - M _ _ _ _ . 3 7 C - - | 83 | 80A |
| | 1.9 | 464.36 | 1722 | 1.00 | 17000 | 4 5 0 | | |
| | 1.7 | 534.13 | 1981 | 0.87 | 17000 | 5 0 0 | | |
| | 1.6 | 580.70 | 2154 | 0.80 | 17000 | 5 6 0 | | |
| | 3.7 | 247.74 | 903 | 3.91 | 19700 | F 0 8 3 2 2 2 5 - M _ _ _ _ . 3 7 C - - | 125 | 80A |
| | 3.0 | 303.60 | 1105 | 3.26 | 19700 | 2 8 0 | | |
| | 2.8 | 331.53 | 1212 | 2.97 | 19700 | 3 1 5 | | |
| | 2.4 | 381.76 | 1389 | 2.59 | 19700 | 3 6 0 | | |
| | 2.3 | 395.81 | 1468 | 1.84 | 19700 | F 0 8 4 2 4 0 0 - M _ _ _ _ . 3 7 C - - | 146 | 80A |
| | 2.0 | 460.35 | 1708 | 1.58 | 19700 | 4 5 0 | | |
| | 1.8 | 490.05 | 1818 | 1.52 | 19700 | 5 0 0 | | |
| | 1.6 | 569.96 | 2114 | 1.31 | 19700 | 5 6 0 | | |
| | 1.4 | 637.69 | 2365 | 1.17 | 19700 | 6 3 0 | | |
| | 1.3 | 679.67 | 2521 | 1.10 | 19700 | 7 0 0 | | |
| | 1.1 | 805.50 | 2988 | 0.93 | 19700 | 8 0 0 | | |
| | 1.0 | 909.51 | 3374 | 0.95 | 19700 | 9 0 0 | | |
| | 0.89 | 1017.59 | 3774 | 0.85 | 19700 | 1 0 C | | |
| | 0.83 | 1084.58 | 4023 | 0.80 | 19700 | 1 1 C | | |
| | 2.3 | 395.66 | 1468 | 2.88 | 32000 | F 0 9 4 1 4 0 0 - M _ _ _ _ . 3 7 C - - | 211 | 80A |
| | 2.0 | 460.18 | 1707 | 2.48 | 32000 | 4 5 0 | | |
| | 1.8 | 510.96 | 1895 | 2.23 | 32000 | 5 0 0 | | |
| | 1.5 | 594.29 | 2204 | 1.92 | 32000 | 5 6 0 | | |
| | 1.4 | 664.91 | 2466 | 1.72 | 32000 | 6 3 0 | | |
| | 1.3 | 708.68 | 2629 | 1.61 | 32000 | 7 0 0 | | |
| | 1.1 | 839.89 | 3115 | 1.36 | 32000 | 8 0 0 | | |
| | 1.0 | 926.74 | 3437 | 1.23 | 32000 | 9 0 0 | | |
| | 0.9 | 1036.86 | 3846 | 1.10 | 32000 | 1 0 C | | |
| | 0.8 | 1105.12 | 4099 | 1.03 | 32000 | 1 1 C | | |
| | 0.8 | 1177.20 | 4366 | 0.97 | 32000 | 1 2 C | | |
| | 0.6 | 1395.15 | 5175 | 0.82 | 32000 | 1 4 C | | |
| | 1.8 | 489.83 | 1817 | 3.99 | 43000 | F 1 0 4 1 5 0 0 - M _ _ _ _ . 3 7 C - - | 300 | 80A |
| | 1.6 | 562.85 | 2088 | 3.47 | 43000 | 5 6 0 | | |
| | 1.4 | 638.26 | 2367 | 3.06 | 43000 | 6 3 0 | | |
| | 1.3 | 703.99 | 2611 | 2.78 | 43000 | 7 0 0 | | |
| | 1.1 | 806.22 | 2990 | 2.42 | 43000 | 8 0 0 | | |
| | 1.0 | 924.82 | 3430 | 2.11 | 43000 | 9 0 0 | | |
| | 0.9 | 1048.72 | 3890 | 1.86 | 43000 | 1 0 C | | |
| | 0.8 | 1156.73 | 4291 | 1.69 | 43000 | 1 1 C | | |
| | 0.7 | 1324.70 | 4914 | 1.48 | 43000 | 1 2 C | | |
| | 0.6 | 1497.76 | 5555 | 1.31 | 43000 | 1 4 C | | |
| | 0.6 | 1564.43 | 5803 | 1.25 | 43000 | 1 6 C | | |
| | 0.5 | 1791.60 | 6645 | 1.09 | 43000 | 1 8 C | | |
| | 0.4 | 2025.66 | 7514 | 0.96 | 43000 | 2 0 C | | |
| | 0.4 | 2348.52 | 8711 | 0.83 | 43000 | 2 2 C | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 235 | 5.90 | 22 | 2.81 | 1397 | F 0 2 2 2 6 . 3 | - M - - - - . 5 5 A - - | 21 | 80A |
| 174 | 7.97 | 29 | 2.44 | 1559 | 7 . 1 | | | |
| 153 | 9.07 | 33 | 2.29 | 1634 | 9 . 0 | | | |
| 135 | 10.27 | 38 | 2.14 | 1711 | 1 0 . | | | |
| 106 | 13.14 | 48 | 1.85 | 1868 | 1 2 . | | | |
| 98 | 14.16 | 52 | 1.76 | 1923 | 1 4 . | | | |
| 79 | 17.88 | 64 | 1.54 | 2080 | 1 6 . | | | |
| 70 | 20.27 | 73 | 1.42 | 2174 | 2 0 . | | | |
| 61 | 23.16 | 84 | 1.29 | 2286 | 2 2 . | | | |
| 55 | 25.77 | 93 | 1.21 | 2374 | 2 5 . | | | |
| 48 | 28.41 | 106 | 1.10 | 2495 | 2 8 . | | | |
| 44 | 31.26 | 116 | 1.04 | 2576 | 3 2 . | | | |
| 37 | 36.63 | 138 | 0.94 | 2744 | 3 6 . | | | |
| 50 | 27.86 | 101 | 3.68 | 5614 | F 0 3 2 2 2 8 . _ | M - - - - . 5 5 A - - | 28 | 80A |
| 45 | 30.68 | 112 | 3.33 | 5738 | 3 2 . | | | |
| 39 | 35.30 | 128 | 3.03 | 5912 | 3 6 . | | | |
| 36 | 38.37 | 140 | 2.65 | 6014 | 4 0 . | | | |
| 30 | 46.07 | 167 | 2.34 | 6229 | 5 0 . | | | |
| 25 | 55.28 | 201 | 1.92 | 6428 | 5 6 . | | | |
| 22 | 62.29 | 226 | 1.60 | 6552 | 6 3 . | | | |
| 19 | 72.41 | 262 | 1.19 | 6673 | 7 1 . | | | |
| 17 | 82.18 | 299 | 0.95 | 6765 | 9 0 . | | | |
| 14 | 99.52 | 357 | 1.02 | 6874 | F 0 3 3 2 1 0 0 . _ | M - - - - . 5 5 A - - | 29 | 80A |
| 13 | 109.72 | 395 | 0.96 | 6890 | 1 1 2 | | | |
| 12 | 120.75 | 434 | 0.92 | 6890 | 1 2 5 | | | |
| 10 | 141.47 | 509 | 0.81 | 6540 | 1 6 0 | | | |
| 50 | 27.86 | 101 | 3.68 | 5614 | F 0 4 2 2 2 8 . _ | M - - - - . 5 5 A - - | 28 | 80A |
| 45 | 30.68 | 112 | 3.33 | 5738 | 3 2 . | | | |
| 39 | 35.30 | 128 | 3.03 | 5912 | 3 6 . | | | |
| 36 | 38.37 | 140 | 2.65 | 6014 | 4 0 . | | | |
| 30 | 46.07 | 167 | 2.34 | 6229 | 5 0 . | | | |
| 25 | 55.28 | 201 | 1.92 | 6428 | 5 6 . | | | |
| 22 | 62.29 | 226 | 1.60 | 6552 | 6 3 . | | | |
| 19 | 72.41 | 262 | 1.19 | 6673 | 7 1 . | | | |
| 17 | 82.18 | 299 | 0.95 | 6765 | 9 0 . | | | |
| 14 | 99.52 | 357 | 1.02 | 6874 | F 0 4 3 2 1 0 0 . _ | M - - - - . 5 5 A - - | 29 | 80A |
| 13 | 109.72 | 395 | 0.96 | 6890 | 1 1 2 | | | |
| 12 | 120.75 | 434 | 0.92 | 6890 | 1 2 5 | | | |
| 10 | 141.47 | 509 | 0.81 | 6540 | 1 6 0 | | | |
| 24 | 58.34 | 211 | 2.56 | 8858 | F 0 5 2 2 5 6 . _ | M - - - - . 5 5 A - - | 36 | 80A |
| 21 | 65.02 | 235 | 2.04 | 9053 | 6 3 . | | | |
| 19 | 72.92 | 264 | 1.38 | 9200 | 7 1 . | | | |
| 18 | 78.84 | 284 | 1.86 | 9200 | F 0 5 3 2 8 0 . _ | M - - - - . 5 5 A - - | 37 | 80A |
| 16 | 86.82 | 313 | 1.66 | 9200 | 9 0 . | | | |
| 14 | 99.86 | 360 | 1.52 | 9200 | 1 0 0 | | | |
| 13 | 108.57 | 391 | 1.44 | 9200 | 1 1 2 | | | |
| 11 | 130.34 | 469 | 1.30 | 9200 | 1 2 5 | | | |
| 8.9 | 156.40 | 562 | 1.16 | 9200 | 1 6 0 | | | |
| 7.9 | 176.23 | 633 | 1.08 | 9200 | 1 8 0 | | | |
| 6.8 | 204.87 | 736 | 0.99 | 9200 | 2 0 0 | | | |
| 6.0 | 232.53 | 835 | 0.87 | 9200 | 2 2 5 | | | |
| 19 | 75.00 | 272 | 2.56 | 11300 | F 0 6 2 2 7 1 . _ | M - - - - . 5 5 A - - | 51 | 80A |
| 17 | 83.59 | 303 | 2.04 | 11300 | 9 0 . | | | |
| 15 | 93.75 | 340 | 1.38 | 11300 | 1 0 0 | | | |
| 14 | 101.36 | 365 | 1.86 | 11300 | F 0 6 3 2 1 0 0 . _ | M - - - - . 5 5 A - - | 52 | 80A |
| 12 | 111.62 | 403 | 1.66 | 11300 | 1 1 2 | | | |
| 11 | 128.39 | 463 | 1.52 | 11300 | 1 2 5 | | | |
| 10 | 139.58 | 504 | 1.44 | 11300 | 1 6 0 | | | |
| 8.3 | 167.56 | 604 | 1.30 | 11300 | 1 8 0 | | | |
| 6.9 | 201.07 | 724 | 1.16 | 11300 | 2 0 0 | | | |
| 6.1 | 226.56 | 815 | 1.08 | 11300 | 2 2 5 | | | |
| 5.3 | 263.38 | 949 | 0.97 | 11300 | 2 8 0 | | | |
| 4.6 | 298.94 | 1075 | 0.87 | 11300 | 3 1 5 | | | |
| 16 | 89.42 | 326 | 3.89 | 17000 | F 0 7 2 2 9 0 . _ | M - - - - . 5 5 A - - | 72 | 80A |
| 14 | 99.36 | 360 | 3.05 | 17000 | 1 0 0 | | | |
| 13 | 108.56 | 390 | 3.17 | 17000 | F 0 7 3 2 1 0 0 . _ | M - - - - . 5 5 A - - | 77 | 80A |
| 12 | 115.70 | 418 | 2.84 | 17000 | 1 1 2 | | | |
| 10 | 137.12 | 495 | 2.56 | 17000 | 1 2 5 | | | |
| 9.5 | 146.40 | 528 | 2.46 | 17000 | 1 6 0 | | | |
| 7.7 | 181.67 | 657 | 2.16 | 17000 | 1 8 0 | | | |
| 6.5 | 214.23 | 773 | 1.95 | 17000 | 2 0 0 | | | |
| 5.9 | 234.58 | 849 | 1.85 | 17000 | 2 2 5 | | | |
| 4.8 | 287.49 | 1035 | 1.64 | 17000 | 2 8 0 | | | |
| 4.3 | 320.43 | 1153 | 1.57 | 17000 | 3 1 5 | | | |
| 3.9 | 359.36 | 1292 | 1.38 | 17000 | 3 6 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.55 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 3.5 | 404.11 | 1420 | 1.12 | 17000 | F 0 7 4 2 4 0 0 | - M - - - . 5 5 A - - | 83 | 80A |
| 3.1 | 464.36 | 1632 | 1.05 | 17000 | 4 5 0 | | | |
| 2.7 | 534.13 | 1877 | 0.92 | 17000 | 5 0 0 | | | |
| 2.4 | 580.70 | 2041 | 0.84 | 17000 | 5 6 0 | | | |
| 2.2 | 658.49 | 2314 | 0.80 | 17000 | 6 3 0 | | | |
| 5.6 | 247.74 | 892 | 3.80 | 19700 | F 0 8 3 2 2 2 5 | - M - - - . 5 5 A - - | 125 | 80A |
| 4.6 | 303.60 | 1096 | 3.12 | 19700 | 2 8 0 | | | |
| 4.2 | 331.53 | 1195 | 2.89 | 19700 | 3 1 5 | | | |
| 3.6 | 381.76 | 1372 | 2.58 | 19700 | 3 6 0 | | | |
| 3.6 | 395.81 | 1391 | 1.94 | 19700 | F 0 8 4 2 4 0 0 | - M - - - . 5 5 A - - | 146 | 80A |
| 3.1 | 460.35 | 1618 | 1.67 | 19700 | 4 5 0 | | | |
| 2.9 | 490.05 | 1722 | 1.61 | 19700 | 5 0 0 | | | |
| 2.5 | 569.96 | 2003 | 1.38 | 19700 | 5 6 0 | | | |
| 2.2 | 637.69 | 2241 | 1.24 | 19700 | 6 3 0 | | | |
| 2.1 | 679.67 | 2388 | 1.16 | 19700 | 7 0 0 | | | |
| 1.8 | 805.50 | 2831 | 0.98 | 19700 | 8 0 0 | | | |
| 1.6 | 909.51 | 3196 | 1.00 | 19700 | 9 0 0 | | | |
| 1.4 | 1017.59 | 3576 | 0.89 | 19700 | 1 0 C | | | |
| 1.3 | 1084.58 | 3811 | 0.84 | 19700 | 1 1 C | | | |
| 3.6 | 395.66 | 1390 | 3.04 | 32000 | F 0 9 4 1 4 0 0 | - M - - - . 5 5 A - - | 211 | 80A |
| 3.1 | 460.18 | 1617 | 2.62 | 32000 | 4 5 0 | | | |
| 2.8 | 510.96 | 1796 | 2.36 | 32000 | 5 0 0 | | | |
| 2.4 | 594.29 | 2088 | 2.03 | 32000 | 5 6 0 | | | |
| 2.1 | 664.91 | 2336 | 1.81 | 32000 | 6 3 0 | | | |
| 2.0 | 708.68 | 2490 | 1.70 | 32000 | 7 0 0 | | | |
| 1.7 | 839.89 | 2951 | 1.43 | 32000 | 8 0 0 | | | |
| 1.5 | 926.74 | 3257 | 1.30 | 32000 | 9 0 0 | | | |
| 1.4 | 1036.86 | 3644 | 1.16 | 32000 | 1 0 C | | | |
| 1.3 | 1105.12 | 3883 | 1.09 | 32000 | 1 1 C | | | |
| 1.2 | 1177.20 | 4137 | 1.02 | 32000 | 1 2 C | | | |
| 1.0 | 1395.15 | 4903 | 0.86 | 32000 | 1 4 C | | | |
| 2.5 | 562.85 | 1978 | 3.67 | 43000 | F 1 0 4 1 5 6 0 | - M - - - . 5 5 A - - | 300 | 80A |
| 2.2 | 638.26 | 2243 | 3.23 | 43000 | 6 3 0 | | | |
| 2.0 | 703.99 | 2474 | 2.93 | 43000 | 7 0 0 | | | |
| 1.8 | 806.22 | 2833 | 2.56 | 43000 | 8 0 0 | | | |
| 1.5 | 924.82 | 3250 | 2.23 | 43000 | 9 0 0 | | | |
| 1.4 | 1048.72 | 3685 | 1.97 | 43000 | 1 0 C | | | |
| 1.2 | 1156.73 | 4065 | 1.78 | 43000 | 1 1 C | | | |
| 1.1 | 1324.70 | 4655 | 1.56 | 43000 | 1 2 C | | | |
| 0.95 | 1497.76 | 5263 | 1.38 | 43000 | 1 4 C | | | |
| 0.91 | 1564.43 | 5497 | 1.32 | 43000 | 1 6 C | | | |
| 0.79 | 1791.60 | 6296 | 1.15 | 43000 | 1 8 C | | | |
| 0.70 | 2025.66 | 7118 | 1.02 | 43000 | 2 0 C | | | |
| 0.60 | 2348.52 | 8253 | 0.88 | 43000 | 2 2 C | | | |
| 0.56 | 2523.21 | 8867 | 0.80 | 43000 | 2 5 C | | | |
| 0.55 kW | | | | | | | | |
| 6 POLE | 157 | 5.90 | 32 | 2.10 | 1619 | F 0 2 2 2 6 . 3 - M - - - . 5 5 C - - | 22 | 80B |
| | 116 | 7.97 | 44 | 1.80 | 1808 | 7 . 1 | | |
| | 102 | 9.07 | 50 | 1.68 | 1895 | 9 . 0 | | |
| | 90 | 10.27 | 57 | 1.55 | 1983 | 1 0 . | | |
| | 70 | 13.14 | 73 | 1.33 | 2174 | 1 2 . | | |
| | 65 | 14.16 | 78 | 1.28 | 2234 | 1 4 . | | |
| | 51 | 17.88 | 100 | 1.10 | 2440 | 1 6 . | | |
| | 45 | 20.27 | 113 | 1.02 | 2554 | 2 0 . | | |
| | 40 | 23.16 | 127 | 0.97 | 2667 | 2 2 . | | |
| | 36 | 25.77 | 142 | 0.91 | 2771 | 2 5 . | | |
| | 32 | 28.41 | 159 | 0.81 | 2893 | 2 8 . | | |
| | 29 | 31.26 | 176 | 0.73 | 2999 | 3 2 . | | |
| | 25 | 36.63 | 204 | 0.55 | 3166 | 3 6 . | | |
| | 48 | 19.46 | 107 | 3.54 | 5673 | F 0 3 2 2 2 0 . - M - - - . 5 5 C - - | 29 | 80B |
| | 43 | 21.59 | 118 | 3.21 | 5810 | 2 2 . | | |
| | 38 | 24.53 | 135 | 2.86 | 5968 | 2 5 . | | |
| | 33 | 27.86 | 152 | 2.45 | 6126 | 2 8 . | | |
| | 30 | 30.68 | 168 | 2.22 | 6233 | 3 2 . | | |
| | 26 | 35.30 | 193 | 2.03 | 6388 | 3 6 . | | |
| | 24 | 38.37 | 209 | 1.77 | 6472 | 4 0 . | | |
| | 20 | 46.07 | 252 | 1.55 | 6636 | 5 0 . | | |
| | 17 | 55.28 | 303 | 1.28 | 6766 | 5 6 . | | |
| | 15 | 62.29 | 340 | 1.11 | 6823 | 6 3 . | | |
| | 13 | 72.41 | 396 | 0.83 | 6850 | 7 1 . | | |
| NOTE | 48 | 19.46 | 107 | 3.54 | 5673 | F 0 4 2 2 2 0 . - M - - - . 5 5 C - - | 29 | 80B |
| Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers | 43 | 21.59 | 118 | 3.21 | 5810 | 2 2 . | | |
| | 38 | 24.53 | 135 | 2.86 | 5968 | 2 5 . | | |
| | 33 | 27.86 | 152 | 2.45 | 6126 | 2 8 . | | |
| | 30 | 30.68 | 168 | 2.22 | 6233 | 3 2 . | | |
| | 26 | 35.30 | 193 | 2.03 | 6388 | 3 6 . | | |
| | 24 | 38.37 | 209 | 1.77 | 6472 | 4 0 . | | |
| | 20 | 46.07 | 252 | 1.55 | 6636 | 5 0 . | | |
| | 17 | 55.28 | 303 | 1.28 | 6766 | 5 6 . | | |
| | 15 | 62.29 | 340 | 1.11 | 6823 | 6 3 . | | |
| | 13 | 72.41 | 396 | 0.83 | 6850 | 7 1 . | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

0.55 kW

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-------------|------|----------|------|------|------------------|---|------------------|-------------------|
| | | | | | Output Speed | Ratio | Output Torque | Service Factor |
| 6 POLE | 25 | 36.87 | 202 | 3.50 | 8770 | F 0 5 2 2 3 6 . _ M - - - - . 5 5 C - - | 37 | 80B |
| | 21 | 43.47 | 239 | 3.00 | 9060 | 4 0 . | | |
| | 19 | 47.60 | 261 | 2.75 | 9200 | 5 0 . | | |
| | 16 | 58.34 | 319 | 1.77 | 9200 | 5 6 . | | |
| | 14 | 65.02 | 355 | 1.41 | 9200 | 6 3 . | | |
| | 13 | 72.92 | 397 | 0.92 | 9200 | 7 1 . | | |
| | 12 | 78.84 | 427 | 1.44 | 9200 | F 0 5 3 2 8 0 . _ M - - - - . 5 5 C - - | | |
| | 11 | 86.82 | 471 | 1.28 | 9200 | 9 0 . | | |
| | 9.3 | 99.86 | 541 | 1.18 | 9200 | 1 0 0 | | |
| | 8.5 | 108.57 | 588 | 1.12 | 9200 | 1 1 2 | | |
| 20 | 7.1 | 130.34 | 705 | 1.01 | 9200 | 1 2 5 | 38 | 80B |
| | 5.9 | 156.40 | 845 | 0.90 | 9200 | 1 6 0 | | |
| | 20 | 47.40 | 261 | 3.42 | 11300 | F 0 6 2 2 5 0 . _ M - - - - . 5 5 C - - | | |
| | 17 | 55.89 | 307 | 2.91 | 11300 | 5 6 . | | |
| | 15 | 61.20 | 335 | 2.66 | 11300 | 6 3 . | | |
| | 12 | 75.00 | 412 | 1.77 | 11300 | 7 1 . | | |
| | 11 | 83.59 | 457 | 1.41 | 11300 | 9 0 . | | |
| | 10 | 93.75 | 511 | 0.92 | 11300 | 1 0 0 | | |
| | 9.1 | 101.36 | 551 | 1.44 | 11300 | F 0 6 3 2 1 0 0 . _ M - - - - . 5 5 C - - | | |
| | 8.3 | 111.62 | 607 | 1.28 | 11300 | 1 1 2 | | |
| 9.3 | 7.2 | 128.39 | 698 | 1.18 | 11300 | 1 2 5 | 52 | 80B |
| | 6.6 | 139.58 | 759 | 1.12 | 11300 | 1 6 0 | | |
| | 5.5 | 167.56 | 910 | 1.01 | 11300 | 1 8 0 | | |
| | 4.6 | 201.07 | 1088 | 0.87 | 11300 | 2 0 0 | | |
| | 12 | 77.72 | 426 | 3.87 | 17000 | F 0 7 2 2 7 1 . _ M - - - - . 5 5 C - - | | |
| | 10 | 89.42 | 487 | 2.65 | 17000 | 9 0 . | | |
| | 9.3 | 99.36 | 541 | 2.03 | 17000 | 1 0 0 | | |
| | 8.5 | 108.56 | 591 | 2.42 | 17000 | F 0 7 3 2 1 0 0 . _ M - - - - . 5 5 C - - | | |
| | 8.0 | 115.70 | 630 | 2.19 | 17000 | 1 1 2 | | |
| | 6.7 | 137.12 | 742 | 1.98 | 17000 | 1 2 5 | | |
| 2.3 | 6.3 | 146.40 | 790 | 1.91 | 17000 | 1 6 0 | 73 | 80B |
| | 5.1 | 181.67 | 985 | 1.67 | 17000 | 1 8 0 | | |
| | 4.3 | 214.23 | 1165 | 1.52 | 17000 | 2 0 0 | | |
| | 3.9 | 234.58 | 1270 | 1.44 | 17000 | 2 2 5 | | |
| | 3.2 | 287.49 | 1558 | 1.28 | 17000 | 2 8 0 | | |
| | 2.9 | 320.43 | 1734 | 1.21 | 17000 | 3 1 5 | | |
| | 2.6 | 359.36 | 1942 | 0.92 | 17000 | 3 6 0 | | |
| | 5.8 | 159.53 | 867 | 3.91 | 19700 | F 0 8 3 2 1 6 0 . _ M - - - - . 5 5 C - - | | |
| | 4.8 | 193.39 | 1045 | 3.24 | 19700 | 1 8 0 | | |
| | 4.1 | 225.53 | 1226 | 2.84 | 19700 | 2 0 0 | | |
| 2.3 | 3.7 | 247.74 | 1343 | 2.63 | 19700 | 2 2 5 | 78 | 80B |
| | 3.0 | 303.60 | 1643 | 2.19 | 19700 | 2 8 0 | | |
| | 2.8 | 331.53 | 1802 | 2.00 | 19700 | 3 1 5 | | |
| | 2.4 | 381.76 | 2065 | 1.74 | 19700 | 3 6 0 | | |
| | 2.3 | 395.81 | 2147 | 1.26 | 19700 | F 0 8 4 2 4 0 0 . _ M - - - - . 5 5 C - - | | |
| | 2.0 | 460.35 | 2497 | 1.08 | 19700 | 4 5 0 | | |
| | 1.9 | 490.05 | 2658 | 1.04 | 19700 | 5 0 0 | | |
| | 1.6 | 569.96 | 3091 | 0.90 | 19700 | 5 6 0 | | |
| | 2.3 | 395.66 | 2146 | 1.97 | 32000 | F 0 9 4 1 4 0 0 . _ M - - - - . 5 5 C - - | | |
| | 2.0 | 460.18 | 2496 | 1.69 | 32000 | 4 5 0 | | |
| 1.8 | 1.8 | 510.96 | 2771 | 1.53 | 32000 | 5 0 0 | 126 | 80B |
| | 1.5 | 594.29 | 3223 | 1.31 | 32000 | 5 6 0 | | |
| | 1.4 | 664.91 | 3606 | 1.17 | 32000 | 6 3 0 | | |
| | 1.3 | 708.68 | 3844 | 1.10 | 32000 | 7 0 0 | | |
| | 1.1 | 839.89 | 4555 | 0.93 | 32000 | 8 0 0 | | |
| | 1.0 | 926.74 | 5026 | 0.84 | 32000 | 9 0 0 | | |
| | 2.7 | 343.57 | 1855 | 3.91 | 43000 | F 1 0 3 1 3 6 0 . _ M - - - - . 5 5 C - - | | |
| | 2.3 | 400.73 | 2173 | 3.34 | 43000 | F 1 0 4 1 4 0 0 . _ M - - - - . 5 5 C - - | | |
| | 2.1 | 445.30 | 2415 | 3.00 | 43000 | 4 5 0 | | |
| | 1.9 | 489.83 | 2657 | 2.73 | 43000 | 5 0 0 | | |
| 0.88 | 1.6 | 562.85 | 3053 | 2.37 | 43000 | 5 6 0 | 146 | 80B |
| | 1.4 | 638.26 | 3462 | 2.09 | 43000 | 6 3 0 | | |
| | 1.3 | 703.99 | 3818 | 1.90 | 43000 | 7 0 0 | | |
| | 1.1 | 806.22 | 4373 | 1.66 | 43000 | 8 0 0 | | |
| | 1.0 | 924.82 | 5016 | 1.45 | 43000 | 9 0 0 | | |
| | 0.88 | 1048.72 | 5688 | 1.27 | 43000 | 1 0 C | | |
| | 0.80 | 1156.73 | 6274 | 1.16 | 43000 | 1 1 C | | |
| | 0.69 | 1324.70 | 7185 | 1.01 | 43000 | 1 2 C | | |
| | 0.61 | 1497.76 | 8124 | 0.89 | 43000 | 1 4 C | | |
| | 0.59 | 1564.43 | 8485 | 0.85 | 43000 | 1 6 C | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

0.75 kW

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | | |
|-------------|-----|----------|------|------|------------------|---|-----------------------|-------------------|------------------|
| | | | | | Output Speed | Ratio | Output Torque | Service Factor | Overhung Load |
| 4 POLE | 239 | 5.90 | 29 | 2.09 | 1389 | F 0 2 2 2 6 . 3 | M - - - - . 7 5 A - - | 22.5 | 80A |
| | 177 | 7.97 | 39 | 1.82 | 1550 | 7 . 1 | | | |
| | 155 | 9.07 | 45 | 1.70 | 1626 | 9 . 0 | | | |
| | 137 | 10.27 | 51 | 1.59 | 1701 | 1 0 . | | | |
| | 107 | 13.14 | 65 | 1.37 | 1862 | 1 2 . | | | |
| | 98 | 14.16 | 71 | 1.29 | 1923 | 1 4 . | | | |
| | 79 | 17.88 | 88 | 1.13 | 2080 | 1 6 . | | | |
| | 70 | 20.27 | 99 | 1.04 | 2174 | 2 0 . | | | |
| | 61 | 23.16 | 114 | 0.95 | 2286 | 2 2 . | | | |
| | 55 | 25.77 | 126 | 0.89 | 2374 | 2 5 . | | | |
| 4 POLE | 48 | 28.41 | 145 | 0.81 | 2495 | 2 8 . | | | |
| | 72 | 19.46 | 95 | 3.72 | 4921 | F 0 3 2 2 2 0 . - M - - - - . 7 5 A - - | 29.5 | 80A | |
| | 65 | 21.59 | 106 | 3.41 | 5037 | 2 2 . | | | |
| | 57 | 24.53 | 120 | 3.06 | 5165 | 2 5 . | | | |
| | 51 | 27.86 | 137 | 2.74 | 5302 | 2 8 . | | | |
| | 46 | 30.68 | 151 | 2.48 | 5394 | 3 2 . | | | |
| | 40 | 35.30 | 173 | 2.26 | 5518 | 3 6 . | | | |
| | 37 | 38.37 | 188 | 1.97 | 5586 | 4 0 . | | | |
| | 31 | 46.07 | 225 | 1.74 | 5718 | 5 0 . | | | |
| | 26 | 55.28 | 271 | 1.43 | 5814 | 5 6 . | | | |
| 4 POLE | 23 | 62.29 | 304 | 1.19 | 5860 | 6 3 . | | | |
| | 19 | 72.41 | 353 | 0.89 | 5870 | 7 1 . | | | |
| | 72 | 19.46 | 95 | 3.72 | 4921 | F 0 4 2 2 2 0 . - M - - - - . 7 5 A - - | | | |
| | 65 | 21.59 | 106 | 3.41 | 5037 | 2 2 . | | | |
| | 57 | 24.53 | 120 | 3.06 | 5165 | 2 5 . | | | |
| | 51 | 27.86 | 137 | 2.74 | 5302 | 2 8 . | | | |
| | 46 | 30.68 | 151 | 2.48 | 5394 | 3 2 . | | | |
| | 40 | 35.30 | 173 | 2.26 | 5518 | 3 6 . | | | |
| | 37 | 38.37 | 188 | 1.97 | 5586 | 4 0 . | | | |
| | 31 | 46.07 | 225 | 1.74 | 5718 | 5 0 . | | | |
| 4 POLE | 26 | 55.28 | 271 | 1.43 | 5814 | 5 6 . | | | |
| | 23 | 62.29 | 304 | 1.19 | 5860 | 6 3 . | | | |
| | 19 | 72.41 | 353 | 0.89 | 5870 | 7 1 . | | | |
| | 38 | 36.87 | 181 | 3.79 | 7590 | F 0 5 2 2 3 6 . - M - - - - . 7 5 A - - | 37.5 | 80A | |
| | 32 | 43.47 | 213 | 3.29 | 7840 | 4 0 . | | | |
| | 30 | 47.60 | 233 | 3.05 | 7969 | 5 0 . | | | |
| | 24 | 58.34 | 284 | 1.91 | 8233 | 5 6 . | | | |
| | 22 | 65.02 | 316 | 1.52 | 8358 | 6 3 . | | | |
| | 19 | 72.92 | 355 | 1.02 | 8464 | 7 1 . | | | |
| | 18 | 78.84 | 382 | 1.39 | 8558 | F 0 5 3 2 8 0 . - M - - - - . 7 5 A - - | | | |
| | 16 | 86.82 | 421 | 1.23 | 8611 | 9 0 . | | | |
| 4 POLE | 14 | 99.86 | 484 | 1.13 | 8670 | 1 0 0 | | | |
| | 13 | 108.57 | 526 | 1.07 | 8700 | 1 1 2 | | | |
| | 11 | 130.34 | 631 | 0.96 | 9200 | 1 2 5 | | | |
| | 9.0 | 156.40 | 756 | 0.86 | 9200 | 1 6 0 | | | |
| | 8.0 | 176.23 | 851 | 0.80 | 9200 | 1 8 0 | | | |
| | 30 | 47.40 | 233 | 3.82 | 11300 | F 0 6 2 2 5 0 . - M - - - - . 7 5 A - - | 52.5 | 80A | |
| | 25 | 55.89 | 275 | 3.24 | 11800 | 5 6 . | | | |
| | 23 | 61.20 | 300 | 2.97 | 12050 | 6 3 . | | | |
| | 19 | 75.00 | 366 | 1.91 | 12603 | 7 1 . | | | |
| | 17 | 83.59 | 408 | 1.52 | 12889 | 9 0 . | | | |
| | 15 | 93.75 | 457 | 1.02 | 13214 | 1 0 0 | | | |
| 4 POLE | 14 | 101.36 | 491 | 1.39 | 13433 | F 0 6 3 2 1 0 0 - M - - - - . 7 5 A - - | 53.5 | 80A | |
| | 13 | 111.62 | 542 | 1.23 | 13682 | 1 1 2 | | | |
| | 11 | 128.39 | 623 | 1.13 | 14000 | 1 2 5 | | | |
| | 10 | 139.58 | 678 | 1.07 | 14000 | 1 6 0 | | | |
| | 8.4 | 167.56 | 812 | 0.96 | 14000 | 1 8 0 | | | |
| | 7.0 | 201.07 | 973 | 0.86 | 14000 | 2 0 0 | | | |
| | 6.2 | 226.56 | 1095 | 0.80 | 14000 | 2 2 5 | | | |
| | 13 | 108.56 | 525 | 2.36 | 17000 | F 0 7 3 2 1 0 0 - M - - - - . 7 5 A - - | | | |
| | 12 | 115.70 | 563 | 2.11 | 17000 | 1 1 2 | | | |
| | 10 | 137.12 | 666 | 1.91 | 17000 | 1 2 5 | | | |
| 4 POLE | 10 | 146.40 | 711 | 1.83 | 17000 | 1 6 0 | | | |
| | 7.8 | 181.67 | 883 | 1.61 | 17000 | 1 8 0 | | | |
| | 6.6 | 214.23 | 1039 | 1.45 | 17000 | 2 0 0 | | | |
| | 6.0 | 234.58 | 1142 | 1.37 | 17000 | 2 2 5 | | | |
| | 4.9 | 287.49 | 1391 | 1.22 | 17000 | 2 8 0 | | | |
| | 4.4 | 320.43 | 1551 | 1.17 | 17000 | 3 1 5 | | | |
| | 3.9 | 359.36 | 1737 | 1.02 | 17000 | 3 6 0 | | | |
| | 3.5 | 404.11 | 1936 | 0.82 | 17000 | F 0 7 4 2 4 0 0 - M - - - - . 7 5 A - - | 78.5 | 80A | |
| | 7.3 | 193.39 | 937 | 3.62 | 19700 | F 0 8 3 2 1 8 0 - M - - - - . 7 5 A - - | | | |
| | 6.3 | 225.53 | 1089 | 3.11 | 19700 | 2 2 5 | | | |
| | 5.7 | 247.74 | 1199 | 2.83 | 19700 | 2 5 0 | | | |
| | 4.6 | 303.60 | 1473 | 2.32 | 19700 | 2 8 0 | | | |
| | 4.3 | 331.53 | 1607 | 2.15 | 19700 | 3 1 5 | | | |
| | 3.7 | 381.76 | 1844 | 1.92 | 19700 | 3 6 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 3.6 | 395.81 | 1897 | 1.42 | 19700 | F 0 8 4 2 4 0 0 | _ M - - - - . 7 5 A - - | 147 | 80A |
| 3.1 | 460.35 | 2206 | 1.22 | 19700 | | 4 5 0 | | |
| 2.9 | 490.05 | 2348 | 1.18 | 19700 | | 5 0 0 | | |
| 2.5 | 569.96 | 2731 | 1.01 | 19700 | | 5 6 0 | | |
| 2.2 | 637.69 | 3056 | 0.91 | 19700 | | 6 3 0 | | |
| 2.1 | 679.67 | 3257 | 0.85 | 19700 | | 7 0 0 | | |
| 1.8 | 805.50 | 3860 | 0.72 | 19700 | | 8 0 0 | | |
| 1.6 | 909.51 | 4358 | 0.73 | 19700 | | 9 0 0 | | |
| 1.4 | 1017.59 | 4876 | 0.66 | 19700 | | 1 0 C | | |
| 1.3 | 1084.58 | 5197 | 0.62 | 19700 | | 1 1 C | | |
| 1.2 | 1191.37 | 5709 | 0.56 | 19700 | | 1 2 C | | |
| 1.0 | 1411.94 | 6766 | 0.47 | 19700 | | 1 4 C | | |
| 0.9 | 1594.33 | 7640 | 0.42 | 19700 | | 1 6 C | | |
| 3.6 | 395.66 | 1896 | 2.23 | 32000 | F 0 9 4 1 4 0 0 | _ M - - - - . 7 5 A - - | 212 | 80A |
| 3.1 | 460.18 | 2205 | 1.92 | 32000 | | 4 5 0 | | |
| 2.8 | 510.96 | 2448 | 1.73 | 32000 | | 5 0 0 | | |
| 2.4 | 594.29 | 2848 | 1.49 | 32000 | | 5 6 0 | | |
| 2.1 | 664.91 | 3186 | 1.33 | 32000 | | 6 3 0 | | |
| 2.0 | 708.68 | 3396 | 1.25 | 32000 | | 7 0 0 | | |
| 1.7 | 839.89 | 4025 | 1.05 | 32000 | | 8 0 0 | | |
| 1.5 | 926.74 | 4441 | 0.95 | 32000 | | 9 0 0 | | |
| 1.4 | 1036.86 | 4968 | 0.85 | 32000 | | 1 0 C | | |
| 1.3 | 1105.12 | 5296 | 0.80 | 32000 | | 1 1 C | | |
| 1.2 | 1177.20 | 5641 | 0.75 | 32000 | | 1 2 C | | |
| 1.0 | 1395.15 | 6685 | 0.63 | 32000 | | 1 4 C | | |
| 0.9 | 1520.27 | 7285 | 0.58 | 32000 | | 1 6 C | | |
| 3.5 | 400.73 | 1920 | 3.78 | 43000 | F 1 0 4 1 4 0 0 | _ M - - - - . 7 5 A - - | 301 | 80A |
| 3.2 | 445.30 | 2134 | 3.40 | 43000 | | 4 5 0 | | |
| 2.9 | 489.83 | 2347 | 3.09 | 43000 | | 5 0 0 | | |
| 2.5 | 562.85 | 2697 | 2.69 | 43000 | | 5 6 0 | | |
| 2.2 | 638.26 | 3058 | 2.37 | 43000 | | 6 3 0 | | |
| 2.0 | 703.99 | 3373 | 2.15 | 43000 | | 7 0 0 | | |
| 1.8 | 806.22 | 3863 | 1.88 | 43000 | | 8 0 0 | | |
| 1.5 | 924.82 | 4432 | 1.64 | 43000 | | 9 0 0 | | |
| 1.4 | 1048.72 | 5025 | 1.44 | 43000 | | 1 0 C | | |
| 1.2 | 1156.73 | 5543 | 1.31 | 43000 | | 1 1 C | | |
| 1.1 | 1324.70 | 6348 | 1.14 | 43000 | | 1 2 C | | |
| 0.9 | 1497.76 | 7177 | 1.01 | 43000 | | 1 4 C | | |
| 0.9 | 1564.43 | 7496 | 0.97 | 43000 | | 1 6 C | | |
| 0.8 | 1791.60 | 8585 | 0.84 | 43000 | | 1 8 C | | |

0.75 kW

6 POLE

| | | | | | | | | |
|-----|-------|-----|------|------|---------------|-------------------------|----|-----|
| 158 | 5.90 | 44 | 1.55 | 1615 | F 0 2 2 2 6 3 | _ M - - - - . 7 5 C - - | 25 | 90S |
| 117 | 7.97 | 59 | 1.33 | 1802 | | 7 1 | | |
| 102 | 9.07 | 68 | 1.23 | 1895 | | 9 0 | | |
| 90 | 10.27 | 77 | 1.14 | 1983 | | 1 0 | | |
| 70 | 13.14 | 99 | 0.98 | 2174 | | 1 2 | | |
| 65 | 14.16 | 107 | 0.94 | 2234 | | 1 4 | | |
| 51 | 17.88 | 136 | 0.81 | 2440 | | 1 6 | | |
| 67 | 13.96 | 104 | 3.23 | 5010 | F 0 3 2 2 1 4 | _ M - - - - . 7 5 C - - | 32 | 90S |
| 59 | 15.86 | 118 | 2.98 | 5139 | | 1 6 | | |
| 48 | 19.46 | 145 | 2.61 | 5344 | | 2 0 | | |
| 43 | 21.59 | 160 | 2.36 | 5445 | | 2 2 | | |
| 38 | 24.53 | 183 | 2.11 | 5555 | | 2 5 | | |
| 33 | 27.86 | 207 | 1.81 | 5655 | | 2 8 | | |
| 30 | 30.68 | 227 | 1.64 | 5715 | | 3 2 | | |
| 26 | 35.30 | 262 | 1.50 | 5794 | | 3 6 | | |
| 24 | 38.37 | 284 | 1.30 | 5828 | | 4 0 | | |
| 20 | 46.07 | 342 | 1.14 | 5860 | | 5 0 | | |
| 17 | 55.28 | 410 | 0.94 | 5840 | | 5 6 | | |
| 15 | 62.29 | 461 | 0.82 | 5780 | | 6 3 | | |
| 67 | 13.96 | 104 | 3.23 | 5010 | F 0 4 2 2 1 4 | _ M - - - - . 7 5 C - - | 33 | 90S |
| 59 | 15.86 | 118 | 2.98 | 5139 | | 1 6 | | |
| 48 | 19.46 | 145 | 2.61 | 5344 | | 2 0 | | |
| 43 | 21.59 | 160 | 2.36 | 5445 | | 2 2 | | |
| 38 | 24.53 | 183 | 2.11 | 5555 | | 2 5 | | |
| 33 | 27.86 | 207 | 1.81 | 5655 | | 2 8 | | |
| 30 | 30.68 | 227 | 1.64 | 5715 | | 3 2 | | |
| 26 | 35.30 | 262 | 1.50 | 5794 | | 3 6 | | |
| 24 | 38.37 | 284 | 1.30 | 5828 | | 4 0 | | |
| 20 | 46.07 | 342 | 1.14 | 5860 | | 5 0 | | |
| 17 | 55.28 | 410 | 0.94 | 5840 | | 5 6 | | |
| 15 | 62.29 | 461 | 0.82 | 5780 | | 6 3 | | |
| 40 | 23.48 | 175 | 3.90 | 7530 | F 0 5 2 2 2 5 | _ M - - - - . 7 5 C - - | 41 | 90S |
| 33 | 27.83 | 208 | 3.35 | 7790 | | 2 8 | | |
| 31 | 29.71 | 221 | 3.15 | 7880 | | 3 2 | | |
| 25 | 36.87 | 274 | 2.58 | 8171 | | 3 6 | | |
| 21 | 43.47 | 324 | 2.21 | 8354 | | 4 0 | | |
| 20 | 47.60 | 355 | 2.03 | 8443 | | 5 0 | | |
| 16 | 58.34 | 433 | 1.30 | 8581 | | 5 6 | | |
| 14 | 65.02 | 482 | 1.04 | 8640 | | 6 3 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 12 | 78.84 | 580 | 1.06 | 8680 | F 0 5 3 2 8 0 . M - - - . 7 5 C - - | 42 | 90S | |
| 11 | 86.82 | 639 | 0.95 | 8630 | | 9 0 . | | |
| 9.3 | 99.86 | 735 | 0.87 | 8510 | | 1 0 0 . | | |
| 8.6 | 108.57 | 798 | 0.83 | 8400 | | 1 1 2 . | | |
| 31 | 30.18 | 225 | 3.95 | 11200 | | 55 | | |
| 26 | 35.77 | 267 | 3.32 | 11700 | | 3 6 . | | |
| 24 | 38.19 | 285 | 3.11 | 11900 | | 4 0 . | | |
| 20 | 47.40 | 354 | 2.52 | 12449 | | 5 0 . | | |
| 17 | 55.89 | 416 | 2.14 | 12947 | | 5 6 . | | |
| 15 | 61.20 | 454 | 1.96 | 13154 | | 6 3 . | | |
| 12 | 75.00 | 558 | 1.30 | 13713 | F 0 6 3 2 1 0 0 . M - - - . 7 5 C - - | 56 | 90S | |
| 11 | 83.59 | 621 | 1.04 | 13900 | | 9 0 . | | |
| 9.2 | 101.36 | 747 | 1.06 | 14000 | | 1 1 2 . | | |
| 8.3 | 111.62 | 823 | 0.95 | 14000 | | 1 2 5 . | | |
| 7.2 | 128.39 | 947 | 0.87 | 14000 | | 1 6 0 . | | |
| 6.7 | 139.58 | 1029 | 0.83 | 14000 | | 77 | | |
| 14 | 64.77 | 481 | 3.76 | 17000 | | 90S | | |
| 12 | 77.72 | 578 | 2.85 | 17000 | | 7 1 . | | |
| 10 | 89.42 | 661 | 1.95 | 17000 | | 9 0 . | | |
| 9.4 | 99.36 | 734 | 1.50 | 17000 | | 1 0 0 . | | |
| 8.6 | 108.56 | 802 | 1.78 | 17000 | F 0 7 3 2 1 0 0 . M - - - . 7 5 C - - | 82 | 90S | |
| 8.0 | 115.70 | 854 | 1.61 | 17000 | | 1 1 2 . | | |
| 6.8 | 137.12 | 1007 | 1.46 | 17000 | | 1 2 5 . | | |
| 6.4 | 146.40 | 1072 | 1.41 | 17000 | | 1 6 0 . | | |
| 5.1 | 181.67 | 1336 | 1.23 | 17000 | | 1 8 0 . | | |
| 4.3 | 214.23 | 1580 | 1.12 | 17000 | | 2 0 0 . | | |
| 4.0 | 234.58 | 1723 | 1.06 | 17000 | | 2 2 5 . | | |
| 3.2 | 287.49 | 2113 | 0.94 | 17000 | | 2 8 0 . | | |
| 2.9 | 320.43 | 2352 | 0.89 | 17000 | | 3 1 5 . | | |
| 8.8 | 105.59 | 782 | 3.73 | 19700 | | 127 | | |
| 7.4 | 124.92 | 920 | 3.68 | 19700 | F 0 8 3 2 1 1 2 . M - - - . 7 5 C - - | 129 | 90S | |
| 6.6 | 141.33 | 1041 | 3.25 | 19700 | | 1 2 5 . | | |
| 5.8 | 159.53 | 1176 | 2.88 | 19700 | | 1 6 0 . | | |
| 4.8 | 193.39 | 1418 | 2.39 | 19700 | | 1 8 0 . | | |
| 4.1 | 225.53 | 1663 | 2.09 | 19700 | | 2 0 0 . | | |
| 3.8 | 247.74 | 1821 | 1.94 | 19700 | | 2 2 5 . | | |
| 3.1 | 303.60 | 2229 | 1.61 | 19700 | | 2 8 0 . | | |
| 2.8 | 331.53 | 2444 | 1.47 | 19700 | | 3 1 5 . | | |
| 2.4 | 381.76 | 2801 | 1.29 | 19700 | | 3 6 0 . | | |
| 2.3 | 395.81 | 2927 | 0.92 | 19000 | F 0 8 4 2 4 0 0 . M - - - . 7 5 C - - | 149 | 90S | |
| 2.0 | 460.35 | 3405 | 0.80 | 19000 | | 4 5 0 . | | |
| 6.3 | 147.03 | 1083 | 3.98 | 29900 | | 189 | | |
| 5.8 | 160.82 | 1185 | 3.58 | 29900 | | 1 6 0 . | | |
| 5.2 | 177.54 | 1313 | 3.23 | 29900 | | 1 8 0 . | | |
| 4.5 | 207.69 | 1530 | 2.82 | 29877 | | 2 0 0 . | | |
| 4.1 | 229.28 | 1685 | 2.56 | 29865 | | 2 2 5 . | | |
| 3.8 | 244.23 | 1803 | 2.35 | 29865 | | 2 5 0 . | | |
| 3.4 | 274.63 | 2013 | 2.11 | 29878 | | 2 8 0 . | | |
| 2.9 | 315.41 | 2317 | 1.86 | 29832 | | 3 1 5 . | | |
| 2.6 | 354.67 | 2606 | 1.65 | 29799 | | 3 6 0 . | | |
| 2.3 | 395.66 | 2926 | 1.45 | 32000 | F 0 9 4 1 4 0 0 . M - - - . 7 5 C - - | 215 | 90S | |
| 2.0 | 460.18 | 3404 | 1.24 | 32000 | | 4 5 0 . | | |
| 1.8 | 510.96 | 3779 | 1.12 | 32000 | | 5 0 0 . | | |
| 1.5 | 594.29 | 4395 | 0.96 | 32000 | | 5 6 0 . | | |
| 1.4 | 664.91 | 4918 | 0.86 | 32000 | | 6 3 0 . | | |
| 1.3 | 708.68 | 5241 | 0.81 | 32000 | | 7 0 0 . | | |
| 3.6 | 253.86 | 1910 | 3.35 | 43000 | F 1 0 3 1 2 5 0 . M - - - . 7 5 C - - | 294 | 90S | |
| 3.3 | 272.75 | 2050 | 3.12 | 43000 | | 2 8 0 . | | |
| 2.8 | 319.79 | 2400 | 3.02 | 43000 | | 3 1 5 . | | |
| 2.6 | 343.57 | 2572 | 2.82 | 43000 | | 3 6 0 . | | |
| 2.3 | 400.73 | 2964 | 2.45 | 43000 | | 304 | | |
| 2.1 | 445.30 | 3293 | 2.20 | 43000 | | 4 5 0 . | | |
| 1.9 | 489.83 | 3623 | 2.00 | 43000 | | 5 0 0 . | | |
| 1.6 | 562.85 | 4163 | 1.74 | 43000 | | 5 6 0 . | | |
| 1.4 | 638.26 | 4721 | 1.54 | 43000 | | 6 3 0 . | | |
| 1.3 | 703.99 | 5207 | 1.39 | 43000 | | 7 0 0 . | | |
| 1.1 | 806.22 | 5963 | 1.22 | 43000 | | 8 0 0 . | | |
| 1.0 | 924.82 | 6840 | 1.06 | 43000 | | 9 0 0 . | | |
| 0.9 | 1048.72 | 7756 | 0.93 | 43000 | | 1 0 C . | | |
| 0.8 | 1156.73 | 8555 | 0.85 | 43000 | | 1 1 C . | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 of base mount unit | Motor Sizes |
| 239 | 5.90 | 43 | 1.43 | 1389 | F 0 2 2 2 6 . 3 _ M - - - - 1 . 1 A - - | | 25 | 90S |
| 177 | 7.97 | 58 | 1.24 | 1550 | 7 . 1 | | | |
| 155 | 9.07 | 66 | 1.16 | 1626 | 9 . 0 | | | |
| 137 | 10.27 | 74 | 1.08 | 1701 | 1 0 . | | | |
| 107 | 13.14 | 95 | 0.94 | 1862 | 1 2 . | | | |
| 98 | 14.16 | 104 | 0.88 | 1923 | 1 4 . | | | |
| 101 | 13.96 | 100 | 3.34 | 4279 | F 0 3 2 2 1 4 . _ M - - - - 1 . 1 A - - | | 32 | 90S |
| 89 | 15.86 | 114 | 3.01 | 4382 | 1 6 . | | | |
| 72 | 19.46 | 140 | 2.54 | 4539 | 2 0 . | | | |
| 65 | 21.59 | 155 | 2.32 | 4613 | 2 2 . | | | |
| 57 | 24.53 | 177 | 2.09 | 4685 | 2 5 . | | | |
| 51 | 27.86 | 201 | 1.87 | 4758 | 2 8 . | | | |
| 46 | 30.68 | 221 | 1.69 | 4792 | 3 2 . | | | |
| 40 | 35.30 | 254 | 1.54 | 4828 | 3 6 . | | | |
| 37 | 38.37 | 276 | 1.34 | 4836 | 4 0 . | | | |
| 31 | 46.07 | 330 | 1.18 | 4823 | 5 0 . | | | |
| 26 | 55.28 | 397 | 0.97 | 4740 | 5 6 . | | | |
| 23 | 62.29 | 446 | 0.81 | 4650 | 6 3 . | | | |
| 101 | 13.96 | 100 | 3.34 | 4279 | F 0 4 2 2 1 4 . _ M - - - - 1 . 1 A - - | | 33 | 90S |
| 89 | 15.86 | 114 | 3.01 | 4382 | 1 6 . | | | |
| 72 | 19.46 | 140 | 2.54 | 4539 | 2 0 . | | | |
| 65 | 21.59 | 155 | 2.32 | 4613 | 2 2 . | | | |
| 57 | 24.53 | 177 | 2.09 | 4685 | 2 5 . | | | |
| 51 | 27.86 | 201 | 1.87 | 4758 | 2 8 . | | | |
| 46 | 30.68 | 221 | 1.69 | 4792 | 3 2 . | | | |
| 40 | 35.30 | 254 | 1.54 | 4828 | 3 6 . | | | |
| 37 | 38.37 | 276 | 1.34 | 4836 | 4 0 . | | | |
| 31 | 46.07 | 330 | 1.18 | 4823 | 5 0 . | | | |
| 26 | 55.28 | 397 | 0.97 | 4740 | 5 6 . | | | |
| 23 | 62.29 | 446 | 0.81 | 4650 | 6 3 . | | | |
| 60 | 23.48 | 169 | 3.80 | 6420 | F 0 5 2 2 2 5 . _ M - - - - 1 . 1 A - - | | 41 | 90S |
| 51 | 27.83 | 200 | 3.29 | 6624 | 2 8 . | | | |
| 47 | 29.71 | 214 | 3.11 | 6690 | 3 2 . | | | |
| 38 | 36.87 | 266 | 2.58 | 6896 | 3 6 . | | | |
| 32 | 43.47 | 313 | 2.25 | 7023 | 4 0 . | | | |
| 30 | 47.60 | 342 | 2.08 | 7075 | 5 0 . | | | |
| 24 | 58.34 | 417 | 1.30 | 7141 | 5 6 . | | | |
| 22 | 65.02 | 464 | 1.03 | 7141 | 6 3 . | | | |
| 18 | 78.84 | 560 | 0.95 | 7200 | F 0 5 3 2 8 0 . _ M - - - - 1 . 1 A - - | | 42 | 90S |
| 16 | 86.82 | 617 | 0.84 | 7220 | 9 0 . | | | |
| 39 | 35.77 | 258 | 3.43 | 10000 | F 0 6 2 2 3 6 . _ M - - - - 1 . 1 A - - | | 55 | 90S |
| 37 | 38.19 | 275 | 3.23 | 10178 | 4 0 . | | | |
| 30 | 47.40 | 342 | 2.61 | 10659 | 5 0 . | | | |
| 25 | 55.89 | 403 | 2.21 | 11040 | 5 6 . | | | |
| 23 | 61.20 | 440 | 2.02 | 11221 | 6 3 . | | | |
| 19 | 75.00 | 537 | 1.30 | 11593 | 7 1 . | | | |
| 17 | 83.59 | 598 | 1.03 | 11300 | 9 0 . | | | |
| 14 | 101.36 | 721 | 0.95 | 11300 | F 0 6 3 2 1 0 0 _ M - - - - 1 . 1 A - - | | 56 | 90S |
| 13 | 111.62 | 795 | 0.84 | 11300 | 1 1 2 | | | |
| 24 | 59.14 | 426 | 3.85 | 15300 | F 0 7 2 2 5 6 . _ M - - - - 1 . 1 A - - | | 77 | 90S |
| 22 | 64.77 | 467 | 3.55 | 15588 | 6 3 . | | | |
| 18 | 77.72 | 556 | 2.86 | 16227 | 7 1 . | | | |
| 16 | 89.42 | 644 | 1.97 | 16797 | 9 0 . | | | |
| 14 | 99.36 | 711 | 1.55 | 17000 | 1 0 0 | | | |
| 13 | 108.56 | 770 | 1.61 | 17000 | F 0 7 3 2 1 0 0 _ M - - - - 1 . 1 A - - | | 82 | 90S |
| 12 | 115.70 | 825 | 1.44 | 17000 | 1 1 2 | | | |
| 10 | 137.12 | 977 | 1.30 | 17000 | 1 2 5 | | | |
| 10 | 146.40 | 1042 | 1.25 | 17000 | 1 6 0 | | | |
| 7.8 | 181.67 | 1295 | 1.10 | 17000 | 1 8 0 | | | |
| 6.6 | 214.23 | 1525 | 0.99 | 17000 | 2 0 0 | | | |
| 6.0 | 234.58 | 1675 | 0.94 | 17000 | 2 2 5 | | | |
| 4.9 | 287.49 | 2041 | 0.83 | 17000 | 2 8 0 | | | |
| 13 | 105.59 | 755 | 3.56 | 19700 | F 0 8 2 2 1 0 0 _ M - - - - 1 . 1 A - - | | 127 | 90S |
| 11 | 124.92 | 889 | 3.81 | 19700 | F 0 8 3 2 1 1 2 _ M - - - - 1 . 1 A - - | | 129 | 90S |
| 10 | 141.33 | 1006 | 3.37 | 19700 | 1 2 5 | | | |
| 8.8 | 159.53 | 1134 | 2.99 | 19700 | 1 6 0 | | | |
| 7.3 | 193.39 | 1374 | 2.47 | 19700 | 1 8 0 | | | |
| 6.3 | 225.53 | 1597 | 2.12 | 19700 | 2 0 0 | | | |
| 5.7 | 247.74 | 1759 | 1.93 | 19700 | 2 2 5 | | | |
| 4.6 | 303.60 | 2161 | 1.58 | 19700 | 2 8 0 | | | |
| 4.3 | 331.53 | 2357 | 1.47 | 19700 | 3 1 5 | | | |
| 3.7 | 381.76 | 2705 | 1.31 | 19700 | 3 6 0 | | | |
| 3.6 | 395.81 | 2782 | 0.97 | 19700 | F 0 8 4 2 4 0 0 _ M - - - - 1 . 1 A - - | | 149 | 90S |
| 3.1 | 460.35 | 3235 | 0.83 | 19700 | 4 5 0 | | | |
| 2.9 | 490.05 | 3444 | 0.80 | 19700 | 5 0 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

1.1 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 8.8 | 160.82 | 1144 | 3.70 | 29900 | F 0 9 3 1 1 6 0 | - M - - - - 1 . 1 A - - | 189 | 90S |
| 7.9 | 177.54 | 1265 | 3.35 | 29890 | 1 8 0 | | | |
| 6.8 | 207.69 | 1472 | 2.93 | 29885 | 2 0 0 | | | |
| 6.1 | 229.28 | 1630 | 2.64 | 29868 | 2 2 5 | | | |
| 5.8 | 244.23 | 1737 | 2.44 | 29868 | 2 5 0 | | | |
| 5.1 | 274.63 | 1949 | 2.17 | 29853 | 2 8 0 | | | |
| 4.5 | 315.41 | 2236 | 1.93 | 29832 | 3 1 5 | | | |
| 4.0 | 354.67 | 2513 | 1.71 | 29810 | 3 6 0 | | | |
| 3.6 | 395.66 | 2781 | 1.52 | 32000 | F 0 9 4 1 4 0 0 | - M - - - - 1 . 1 A - - | 215 | 90S |
| 3.1 | 460.18 | 3234 | 1.31 | 32000 | 4 5 0 | | | |
| 2.8 | 510.96 | 3591 | 1.18 | 32000 | 5 0 0 | | | |
| 2.4 | 594.29 | 4177 | 1.01 | 32000 | 5 6 0 | | | |
| 2.1 | 664.91 | 4673 | 0.91 | 32000 | 6 3 0 | | | |
| 2.0 | 708.68 | 4981 | 0.85 | 32000 | 7 0 0 | | | |
| 5.4 | 253.86 | 1849 | 3.46 | 43000 | F 1 0 3 1 2 5 0 | - M - - - - 1 . 1 A - - | 294 | 90S |
| 5.1 | 272.75 | 1963 | 3.23 | 43000 | 2 8 0 | | | |
| 4.3 | 319.79 | 2321 | 3.12 | 43000 | 3 1 5 | | | |
| 4.0 | 343.57 | 2486 | 2.92 | 43000 | 3 6 0 | | | |
| 3.5 | 400.73 | 2816 | 2.57 | 43000 | F 1 0 4 1 4 0 0 | - M - - - - 1 . 1 A - - | 304 | 90S |
| 3.2 | 445.30 | 3130 | 2.32 | 43000 | 4 5 0 | | | |
| 2.9 | 489.83 | 3442 | 2.11 | 43000 | 5 0 0 | | | |
| 2.5 | 562.85 | 3956 | 1.83 | 43000 | 5 6 0 | | | |
| 2.2 | 638.26 | 4486 | 1.62 | 43000 | 6 3 0 | | | |
| 2.0 | 703.99 | 4948 | 1.47 | 43000 | 7 0 0 | | | |
| 1.8 | 806.22 | 5666 | 1.28 | 43000 | 8 0 0 | | | |
| 1.5 | 924.82 | 6500 | 1.12 | 43000 | 9 0 0 | | | |
| 1.4 | 1048.72 | 7370 | 0.98 | 43000 | 1 0 C | | | |
| 1.2 | 1156.73 | 8129 | 0.89 | 43000 | 1 1 C | | | |

1.1 kW

6 POLE

| | | | | | | | | |
|-----|-------|-----|------|-------|-----------------|-------------------------|----|-----|
| 158 | 5.90 | 64 | 1.05 | 1796 | F 0 2 2 2 6 . 3 | - M - - - - 1 . 1 C - - | 28 | 90L |
| 117 | 7.97 | 87 | 0.91 | 1802 | 7 . 1 | | | |
| 102 | 9.07 | 100 | 0.84 | 1895 | 9 . 0 | | | |
| 106 | 8.78 | 96 | 3.31 | 4228 | F 0 3 2 2 9 . 0 | - M - - - - 1 . 1 C - - | 35 | 90L |
| 96 | 9.68 | 106 | 3.08 | 4313 | 1 0 . | | | |
| 85 | 10.99 | 120 | 2.73 | 4417 | 1 2 . | | | |
| 67 | 13.96 | 153 | 2.20 | 4596 | 1 4 . | | | |
| 59 | 15.86 | 174 | 2.03 | 4668 | 1 6 . | | | |
| 48 | 19.46 | 213 | 1.78 | 4769 | 2 0 . | | | |
| 43 | 21.59 | 235 | 1.61 | 4805 | 2 2 . | | | |
| 38 | 24.53 | 268 | 1.44 | 4832 | 2 5 . | | | |
| 33 | 27.86 | 304 | 1.23 | 4830 | 2 8 . | | | |
| 30 | 30.68 | 334 | 1.12 | 4808 | 3 2 . | | | |
| 26 | 35.30 | 384 | 1.02 | 4754 | 3 6 . | | | |
| 24 | 38.37 | 417 | 0.89 | 4700 | 4 0 . | | | |
| 106 | 8.78 | 96 | 3.31 | 4228 | F 0 4 2 2 9 . 0 | - M - - - - 1 . 1 C - - | 36 | 90L |
| 96 | 9.68 | 106 | 3.08 | 4313 | 1 0 . | | | |
| 85 | 10.99 | 120 | 2.73 | 4417 | 1 2 . | | | |
| 67 | 13.96 | 153 | 2.20 | 4596 | 1 4 . | | | |
| 59 | 15.86 | 174 | 2.03 | 4668 | 1 6 . | | | |
| 48 | 19.46 | 213 | 1.78 | 4769 | 2 0 . | | | |
| 43 | 21.59 | 235 | 1.61 | 4805 | 2 2 . | | | |
| 38 | 24.53 | 268 | 1.44 | 4832 | 2 5 . | | | |
| 33 | 27.86 | 304 | 1.23 | 4830 | 2 8 . | | | |
| 30 | 30.68 | 334 | 1.12 | 4808 | 3 2 . | | | |
| 26 | 35.30 | 384 | 1.02 | 4754 | 3 6 . | | | |
| 24 | 38.37 | 417 | 0.89 | 4700 | 4 0 . | | | |
| 63 | 14.70 | 161 | 3.97 | 6350 | F 0 5 2 2 1 4 . | - M - - - - 1 . 1 C - - | 44 | 90L |
| 55 | 16.93 | 185 | 3.10 | 6520 | 1 6 . | | | |
| 47 | 19.69 | 215 | 3.01 | 6687 | 2 0 . | | | |
| 42 | 22.03 | 240 | 2.81 | 6802 | 2 2 . | | | |
| 40 | 23.48 | 256 | 2.66 | 6859 | 2 5 . | | | |
| 33 | 27.83 | 305 | 2.28 | 6996 | 2 8 . | | | |
| 31 | 29.71 | 325 | 2.15 | 7034 | 3 2 . | | | |
| 25 | 36.87 | 402 | 1.76 | 7123 | 3 6 . | | | |
| 21 | 43.47 | 475 | 1.51 | 7120 | 4 0 . | | | |
| 20 | 47.60 | 520 | 1.38 | 7093 | 5 0 . | | | |
| 16 | 58.34 | 636 | 0.89 | 6938 | 5 6 . | | | |
| 43 | 21.76 | 239 | 3.10 | 9820 | F 0 6 2 2 2 2 . | - M - - - - 1 . 1 C - - | 58 | 90L |
| 37 | 25.31 | 277 | 3.01 | 10200 | 2 5 . | | | |
| 33 | 28.32 | 310 | 2.84 | 10400 | 2 8 . | | | |
| 31 | 30.18 | 330 | 2.69 | 10580 | 3 2 . | | | |
| 26 | 35.77 | 391 | 2.26 | 10964 | 3 6 . | | | |
| 24 | 38.19 | 419 | 2.12 | 11112 | 4 0 . | | | |
| 20 | 47.40 | 519 | 1.72 | 11300 | 5 0 . | | | |
| 17 | 55.89 | 610 | 1.46 | 11300 | 5 6 . | | | |
| 15 | 61.20 | 667 | 1.34 | 11300 | 6 3 . | | | |
| 12 | 75.00 | 819 | 0.89 | 11300 | 7 1 . | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 of base mount unit | Motor Sizes |
| 22 | 42.77 | 468 | 3.61 | 15600 | F 0 7 2 2 4 0 . _ M - - - - 1 . 1 C - - | | 80 | 90L |
| 19 | 49.59 | 541 | 3.20 | 16100 | 5 0 . | | | |
| 16 | 59.14 | 645 | 2.77 | 16787 | 5 6 . | | | |
| 14 | 64.77 | 706 | 2.56 | 17000 | 6 3 . | | | |
| 12 | 77.72 | 847 | 1.95 | 17000 | 7 1 . | | | |
| 10 | 89.42 | 970 | 1.33 | 17000 | 9 0 . | | | |
| 9.4 | 99.36 | 1076 | 1.02 | 17000 | 1 0 0 | | | |
| 8.6 | 108.56 | 1176 | 1.22 | 17000 | F 0 7 3 2 1 0 0 - M - - - - 1 . 1 C - - | | 85 | 90L |
| 8.0 | 115.70 | 1253 | 1.10 | 17000 | 1 1 2 | | | |
| 6.8 | 137.12 | 1477 | 1.00 | 17000 | 1 2 5 | | | |
| 6.4 | 146.40 | 1573 | 0.96 | 17000 | 1 6 0 | | | |
| 5.1 | 181.67 | 1959 | 0.84 | 17000 | 1 8 0 | | | |
| 11 | 83.97 | 918 | 3.36 | 19700 | F 0 8 2 2 7 1 . _ M - - - - 1 . 1 C - - | | 130 | 90L |
| 10 | 91.70 | 1000 | 3.12 | 19700 | 9 0 . | | | |
| 8.8 | 105.59 | 1147 | 2.55 | 19700 | 1 0 0 | | | |
| 8.1 | 114.15 | 1233 | 2.75 | 19700 | F 0 8 3 2 1 0 0 - M - - - - 1 . 1 C - - | | 132 | 90L |
| 7.4 | 124.92 | 1350 | 2.51 | 19700 | 1 1 2 | | | |
| 6.6 | 141.33 | 1527 | 2.22 | 19700 | 1 2 5 | | | |
| 5.8 | 159.53 | 1726 | 1.96 | 19700 | 1 6 0 | | | |
| 4.8 | 193.39 | 2080 | 1.63 | 19700 | 1 8 0 | | | |
| 4.1 | 225.53 | 2439 | 1.43 | 19700 | 2 0 0 | | | |
| 3.8 | 247.74 | 2672 | 1.32 | 19700 | 2 5 0 | | | |
| 3.1 | 303.60 | 3270 | 1.10 | 19700 | 2 8 0 | | | |
| 2.8 | 331.53 | 3585 | 1.00 | 19700 | 3 1 5 | | | |
| 2.4 | 381.76 | 4108 | 0.88 | 19700 | 3 6 0 | | | |
| 9.1 | 102.48 | 1111 | 3.81 | 29900 | F 0 9 3 1 1 0 0 - M - - - - 1 . 1 C - - | | 192 | 90L |
| 8.2 | 113.85 | 1234 | 3.43 | 29900 | 1 1 2 | | | |
| 7.0 | 132.34 | 1430 | 3.01 | 29900 | 1 2 5 | | | |
| 6.3 | 147.03 | 1588 | 2.71 | 29870 | 1 4 0 | | | |
| 5.8 | 160.82 | 1738 | 2.44 | 29870 | 1 6 0 | | | |
| 5.2 | 177.54 | 1925 | 2.20 | 29855 | 1 8 0 | | | |
| 4.5 | 207.69 | 2244 | 1.92 | 29837 | 2 0 0 | | | |
| 4.1 | 229.28 | 2471 | 1.74 | 29805 | 2 2 5 | | | |
| 3.8 | 244.23 | 2645 | 1.60 | 29805 | 2 5 0 | | | |
| 3.4 | 274.63 | 2953 | 1.44 | 29842 | 2 8 0 | | | |
| 2.9 | 315.41 | 3398 | 1.27 | 29770 | 3 1 5 | | | |
| 2.6 | 354.67 | 3823 | 1.13 | 29706 | 3 6 0 | | | |
| 2.3 | 395.66 | 4292 | 0.99 | 32000 | F 0 9 4 1 4 0 0 - M - - - - 1 . 1 C - - | | 218 | 90L |
| 2.0 | 460.18 | 4992 | 0.85 | 32000 | 4 5 0 | | | |
| 5.6 | 162.91 | 1787 | 3.58 | 43400 | F 1 0 3 1 1 6 0 - M - - - - 1 . 1 C - - | | 298 | 90L |
| 4.9 | 187.70 | 2057 | 3.11 | 43400 | 1 8 0 | | | |
| 4.5 | 205.21 | 2243 | 3.23 | 43400 | 2 0 0 | | | |
| 3.9 | 236.45 | 2576 | 2.81 | 43400 | 2 2 5 | | | |
| 3.6 | 253.86 | 2772 | 2.32 | 43400 | 2 5 0 | | | |
| 3.4 | 272.75 | 2974 | 2.15 | 43400 | 2 8 0 | | | |
| 2.9 | 319.79 | 3481 | 2.08 | 43390 | 3 1 5 | | | |
| 2.7 | 343.57 | 3731 | 1.94 | 43380 | 3 6 0 | | | |
| 2.3 | 395.66 | 4292 | 1.69 | 43000 | F 1 0 4 1 4 0 0 - M - - - - 1 . 1 C - - | | 307 | 90L |
| 2.0 | 460.18 | 4992 | 1.45 | 43000 | 4 5 0 | | | |
| 1.8 | 510.96 | 5543 | 1.31 | 43000 | 5 0 0 | | | |
| 1.5 | 594.29 | 6447 | 1.09 | 43000 | 5 6 0 | | | |
| 1.4 | 664.91 | 7213 | 1.01 | 43000 | 6 3 0 | | | |
| 1.3 | 708.68 | 7687 | 0.94 | 43000 | 7 0 0 | | | |
| 1.1 | 839.89 | 9111 | 0.80 | 43000 | 8 0 0 | | | |

1.5 kW

4 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| | | | | | | | | |
|-----|-------|-----|------|------|---|--|----|-----|
| 241 | 5.90 | 58 | 1.06 | 1384 | F 0 2 2 2 6 . 3 - M - - - - 1 . 5 A - - | | 28 | 90L |
| 177 | 7.97 | 79 | 0.91 | 1550 | 7 . 1 | | | |
| 155 | 9.07 | 90 | 0.85 | 1626 | 9 . 0 | | | |
| 137 | 10.27 | 101 | 0.80 | 1701 | 1 0 . | | | |
| 162 | 8.78 | 85 | 3.66 | 3663 | F 0 3 2 2 9 . 0 - M - - - - 1 . 5 A - - | | 35 | 90L |
| 147 | 9.68 | 94 | 3.37 | 3734 | 1 0 . | | | |
| 129 | 10.99 | 107 | 3.04 | 3823 | 1 2 . | | | |
| 102 | 13.96 | 136 | 2.47 | 3966 | 1 4 . | | | |
| 90 | 15.86 | 154 | 2.23 | 4028 | 1 6 . | | | |
| 73 | 19.46 | 190 | 1.87 | 4103 | 2 0 . | | | |
| 66 | 21.59 | 210 | 1.72 | 4129 | 2 2 . | | | |
| 58 | 24.53 | 240 | 1.54 | 4137 | 2 5 . | | | |
| 51 | 27.86 | 272 | 1.38 | 4135 | 2 8 . | | | |
| 46 | 30.68 | 299 | 1.25 | 4105 | 3 2 . | | | |
| 40 | 35.30 | 344 | 1.14 | 4040 | 3 6 . | | | |
| 37 | 38.37 | 373 | 0.99 | 3980 | 4 0 . | | | |
| 31 | 46.07 | 446 | 0.87 | 3800 | 5 0 . | | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

1.5 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 162 | 8.78 | 85 | 3.66 | 3663 | F 0 4 2 2 9 . 0 | M - - - 1 . 5 A - - | 36 | 90L |
| 147 | 9.68 | 94 | 3.37 | 3734 | 1 0 . | | | |
| 129 | 10.99 | 107 | 3.04 | 3823 | 1 2 . | | | |
| 102 | 13.96 | 136 | 2.47 | 3966 | 1 4 . | | | |
| 90 | 15.86 | 154 | 2.23 | 4028 | 1 6 . | | | |
| 73 | 19.46 | 190 | 1.87 | 4103 | 2 0 . | | | |
| 66 | 21.59 | 210 | 1.72 | 4129 | 2 2 . | | | |
| 58 | 24.53 | 240 | 1.54 | 4137 | 2 5 . | | | |
| 51 | 27.86 | 272 | 1.38 | 4135 | 2 8 . | | | |
| 46 | 30.68 | 299 | 1.25 | 4105 | 3 2 . | | | |
| 40 | 35.30 | 344 | 1.14 | 4040 | 3 6 . | | | |
| 37 | 38.37 | 373 | 0.99 | 3980 | 4 0 . | | | |
| 31 | 46.07 | 446 | 0.87 | 3800 | 5 0 . | | | |
| 84 | 16.93 | 165 | 3.47 | 5640 | F 0 5 2 2 1 6 . | M - - - 1 . 5 A - - | 44 | 90L |
| 72 | 19.69 | 192 | 3.26 | 5780 | 2 0 . | | | |
| 64 | 22.03 | 215 | 2.97 | 5874 | 2 2 . | | | |
| 60 | 23.48 | 229 | 2.81 | 5913 | 2 5 . | | | |
| 51 | 27.83 | 271 | 2.43 | 6024 | 2 8 . | | | |
| 48 | 29.71 | 290 | 2.30 | 6050 | 3 2 . | | | |
| 39 | 36.87 | 360 | 1.91 | 6103 | 3 6 . | | | |
| 33 | 43.47 | 423 | 1.66 | 6090 | 4 0 . | | | |
| 30 | 47.60 | 464 | 1.53 | 6053 | 5 0 . | | | |
| 24 | 58.34 | 565 | 0.96 | 5892 | 5 6 . | | | |
| 65 | 21.76 | 213 | 3.47 | 8520 | F 0 6 2 2 2 2 . | M - - - 1 . 5 A - - | 58 | 90L |
| 56 | 25.31 | 248 | 3.37 | 8820 | 2 5 . | | | |
| 50 | 28.32 | 277 | 3.17 | 9040 | 2 8 . | | | |
| 47 | 30.18 | 296 | 3.01 | 9152 | 3 2 . | | | |
| 40 | 35.77 | 350 | 2.53 | 9449 | 3 6 . | | | |
| 37 | 38.19 | 373 | 2.38 | 9586 | 4 0 . | | | |
| 30 | 47.40 | 463 | 1.93 | 9926 | 5 0 . | | | |
| 25 | 55.89 | 546 | 1.63 | 10173 | 5 6 . | | | |
| 23 | 61.20 | 596 | 1.50 | 10274 | 6 3 . | | | |
| 19 | 75.00 | 728 | 0.96 | 10439 | 7 1 . | | | |
| 33 | 42.77 | 419 | 3.70 | 13500 | F 0 7 2 2 4 0 . | M - - - 1 . 5 A - - | 80 | 90L |
| 29 | 49.59 | 483 | 3.27 | 14000 | 5 0 . | | | |
| 24 | 59.14 | 577 | 2.84 | 14533 | 5 6 . | | | |
| 22 | 64.77 | 632 | 2.62 | 14756 | 6 3 . | | | |
| 18 | 77.72 | 753 | 2.11 | 15234 | 7 1 . | | | |
| 16 | 89.42 | 872 | 1.46 | 15631 | 9 0 . | | | |
| 14 | 99.36 | 962 | 1.14 | 15851 | 1 0 0 | | | |
| 13 | 108.56 | 1043 | 1.19 | 16088 | F 0 7 3 2 1 0 0 . | M - - - 1 . 5 A - - | 85 | 90L |
| 12 | 115.70 | 1118 | 1.06 | 16192 | 1 1 2 | | | |
| 10 | 137.12 | 1323 | 0.96 | 16400 | 1 2 5 | | | |
| 10 | 146.40 | 1412 | 0.92 | 16500 | 1 6 0 | | | |
| 7.8 | 181.67 | 1754 | 0.81 | 16600 | 1 8 0 | | | |
| 17 | 83.97 | 820 | 3.50 | 19700 | F 0 8 2 2 7 1 . | M - - - 1 . 5 A - - | 130 | 90L |
| 15 | 91.70 | 894 | 3.23 | 19700 | 9 0 . | | | |
| 13 | 105.59 | 1022 | 2.63 | 19700 | 1 0 0 | | | |
| 12 | 114.15 | 1100 | 3.08 | 19700 | F 0 8 3 2 1 0 0 . | M - - - 1 . 5 A - - | 132 | 90L |
| 11 | 124.92 | 1204 | 2.81 | 19700 | 1 1 2 | | | |
| 10 | 141.33 | 1362 | 2.49 | 19700 | 1 2 5 | | | |
| 8.9 | 159.53 | 1536 | 2.21 | 19700 | 1 6 0 | | | |
| 7.3 | 193.39 | 1861 | 1.82 | 19700 | 1 8 0 | | | |
| 6.3 | 225.53 | 2163 | 1.57 | 19700 | 2 0 0 | | | |
| 5.7 | 247.74 | 2381 | 1.42 | 19700 | 2 2 5 | | | |
| 4.7 | 303.60 | 2926 | 1.17 | 19700 | 2 8 0 | | | |
| 4.3 | 331.53 | 3192 | 1.08 | 19700 | 3 1 5 | | | |
| 3.7 | 381.76 | 3663 | 0.97 | 19700 | 3 6 0 | | | |
| 12 | 113.85 | 1100 | 3.85 | 29900 | F 0 9 3 1 1 1 2 . | M - - - 1 . 5 A - - | 192 | 90L |
| 11 | 132.34 | 1274 | 3.38 | 29900 | 1 2 5 | | | |
| 10 | 147.03 | 1416 | 3.04 | 29873 | 1 4 0 | | | |
| 8.8 | 160.82 | 1549 | 2.74 | 29873 | 1 6 0 | | | |
| 8.0 | 177.54 | 1713 | 2.47 | 29865 | 1 8 0 | | | |
| 6.8 | 207.69 | 1994 | 2.16 | 29847 | 2 0 0 | | | |
| 6.2 | 229.28 | 2207 | 1.95 | 29833 | 2 2 5 | | | |
| 5.8 | 244.23 | 2353 | 1.80 | 29833 | 2 5 0 | | | |
| 5.2 | 274.63 | 2639 | 1.61 | 29800 | 2 8 0 | | | |
| 4.5 | 315.41 | 3028 | 1.42 | 29783 | 3 1 5 | | | |
| 4.0 | 354.67 | 3402 | 1.27 | 29744 | 3 6 0 | | | |
| 3.6 | 395.66 | 3792 | 1.12 | 32000 | F 0 9 4 1 4 0 0 . | M - - - 1 . 5 A - - | 218 | 90L |
| 3.1 | 460.18 | 4410 | 0.96 | 32000 | 4 5 0 | | | |
| 2.8 | 510.96 | 4897 | 0.86 | 32000 | 5 0 0 | | | |
| 8.5 | 162.91 | 1610 | 3.98 | 43000 | F 1 0 3 1 1 6 0 . | M - - - 1 . 5 A - - | 298 | 90L |
| 7.4 | 187.70 | 1854 | 3.45 | 43000 | 1 8 0 | | | |
| 6.8 | 205.21 | 2018 | 3.59 | 43000 | 2 0 0 | | | |
| 5.9 | 236.45 | 2324 | 3.12 | 43000 | 2 2 5 | | | |
| 5.5 | 253.86 | 2503 | 2.56 | 43000 | 2 5 0 | | | |
| 5.1 | 272.75 | 2684 | 2.38 | 43000 | 2 8 0 | | | |
| 4.3 | 319.79 | 3142 | 2.31 | 43000 | 3 1 5 | | | |
| 4.0 | 343.57 | 3366 | 2.15 | 43000 | 3 6 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

1.5 kW

4 POLE

1.5 kW

6 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| 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 of base mount unit | Motor Sizes |
| 3.5 | 400.73 | 3840 | 1.89 | 43000 | F 1 0 4 1 4 0 0 | - M - - - - 1 . 5 A - - | 301 | 90L |
| 3.2 | 445.30 | 4268 | 1.70 | 43000 | 4 5 0 | | | |
| 2.9 | 489.83 | 4694 | 1.54 | 43000 | 5 0 0 | | | |
| 2.5 | 562.85 | 5394 | 1.34 | 43000 | 5 6 0 | | | |
| 2.2 | 638.26 | 6117 | 1.19 | 43000 | 6 3 0 | | | |
| 2.0 | 703.99 | 6747 | 1.07 | 43000 | 7 0 0 | | | |
| 1.8 | 806.22 | 7727 | 0.94 | 43000 | 8 0 0 | | | |
| 1.5 | 924.82 | 8863 | 0.82 | 43000 | 9 0 0 | | | |
| 149 | 6.26 | 94 | 3.06 | 3880 | F 0 3 2 2 7 . 1 | - M - - - - 1 . 5 C - - | 48 | 100L |
| 106 | 8.78 | 131 | 2.43 | 3958 | 9 . 0 | | | |
| 96 | 9.68 | 145 | 2.26 | 4025 | 1 0 . | | | |
| 85 | 10.99 | 164 | 2.00 | 4101 | 1 2 . | | | |
| 67 | 13.96 | 209 | 1.62 | 4220 | 1 4 . | | | |
| 59 | 15.86 | 237 | 1.49 | 4255 | 1 6 . | | | |
| 48 | 19.46 | 291 | 1.31 | 4287 | 2 0 . | | | |
| 43 | 21.59 | 323 | 1.18 | 4283 | 2 2 . | | | |
| 38 | 24.53 | 367 | 1.05 | 4258 | 2 5 . | | | |
| 33 | 27.86 | 416 | 0.90 | 4200 | 2 8 . | | | |
| 30 | 30.68 | 458 | 0.82 | 4133 | 3 2 . | | | |
| 149 | 6.26 | 94 | 3.06 | 3880 | F 0 4 2 2 7 . 1 | - M - - - - 1 . 5 C - - | 48 | 100L |
| 106 | 8.78 | 131 | 2.43 | 3958 | 9 . 0 | | | |
| 96 | 9.68 | 145 | 2.26 | 4025 | 1 0 . | | | |
| 85 | 10.99 | 164 | 2.00 | 4101 | 1 2 . | | | |
| 67 | 13.96 | 209 | 1.62 | 4220 | 1 4 . | | | |
| 59 | 15.86 | 237 | 1.49 | 4255 | 1 6 . | | | |
| 48 | 19.46 | 291 | 1.31 | 4287 | 2 0 . | | | |
| 43 | 21.59 | 323 | 1.18 | 4283 | 2 2 . | | | |
| 38 | 24.53 | 367 | 1.05 | 4258 | 2 5 . | | | |
| 33 | 27.86 | 416 | 0.90 | 4200 | 2 8 . | | | |
| 30 | 30.68 | 458 | 0.82 | 4133 | 3 2 . | | | |
| 87 | 10.87 | 159 | 3.85 | 5610 | F 0 5 2 2 1 0 . | - M - - - - 1 . 5 C - - | 54 | 100L |
| 77 | 12.33 | 180 | 3.46 | 5728 | 1 2 . | | | |
| 65 | 14.70 | 215 | 2.98 | 5870 | 1 4 . | | | |
| 56 | 16.93 | 247 | 2.32 | 5968 | 1 6 . | | | |
| 48 | 19.69 | 288 | 2.26 | 6045 | 2 0 . | | | |
| 43 | 22.03 | 321 | 2.10 | 6084 | 2 2 . | | | |
| 40 | 23.48 | 342 | 1.99 | 6093 | 2 5 . | | | |
| 34 | 27.83 | 407 | 1.71 | 6088 | 2 8 . | | | |
| 32 | 29.71 | 434 | 1.61 | 6067 | 3 2 . | | | |
| 26 | 36.87 | 537 | 1.32 | 5925 | 3 6 . | | | |
| 22 | 43.47 | 634 | 1.13 | 5710 | 4 0 . | | | |
| 20 | 47.60 | 695 | 1.04 | 5550 | 5 0 . | | | |
| 68 | 13.98 | 205 | 3.93 | 8460 | F 0 6 2 2 1 4 . | - M - - - - 1 . 5 C - - | 68 | 100L |
| 60 | 15.85 | 232 | 3.54 | 8704 | 1 6 . | | | |
| 50 | 18.90 | 277 | 3.03 | 9046 | 2 0 . | | | |
| 44 | 21.76 | 319 | 2.32 | 9309 | 2 2 . | | | |
| 38 | 25.31 | 370 | 2.26 | 9602 | 2 5 . | | | |
| 34 | 28.32 | 414 | 2.12 | 9740 | 2 8 . | | | |
| 31 | 30.18 | 441 | 2.02 | 9872 | 3 2 . | | | |
| 27 | 35.77 | 523 | 1.70 | 10123 | 3 6 . | | | |
| 25 | 38.19 | 559 | 1.59 | 10211 | 4 0 . | | | |
| 20 | 47.40 | 694 | 1.29 | 10383 | 5 0 . | | | |
| 17 | 55.89 | 815 | 1.10 | 10500 | 5 6 . | | | |
| 16 | 61.20 | 890 | 1.00 | 10500 | 6 3 . | | | |
| 36 | 26.41 | 385 | 3.94 | 13300 | F 0 7 2 2 2 5 . | - M - - - - 1 . 5 C - - | 88 | 100L |
| 32 | 29.95 | 437 | 3.65 | 13706 | 2 8 . | | | |
| 29 | 33.03 | 484 | 3.33 | 13977 | 3 2 . | | | |
| 25 | 37.83 | 552 | 3.02 | 14363 | 3 6 . | | | |
| 22 | 42.77 | 624 | 2.70 | 14762 | 4 0 . | | | |
| 19 | 49.59 | 722 | 2.39 | 15135 | 5 0 . | | | |
| 16 | 59.14 | 861 | 2.08 | 15630 | 5 6 . | | | |
| 15 | 64.77 | 942 | 1.92 | 15838 | 6 3 . | | | |
| 12 | 77.72 | 1131 | 1.46 | 16117 | 7 1 . | | | |
| 11 | 89.42 | 1294 | 1.00 | 16400 | 9 0 . | | | |
| 8.8 | 108.56 | 1570 | 0.91 | 16500 | F 0 7 3 2 1 0 0 . | - M - - - - 1 . 5 C - - | 93 | 100L |
| 8.2 | 115.70 | 1673 | 0.82 | 16500 | 1 1 2 | | | |
| 18 | 53.49 | 782 | 3.68 | 19700 | F 0 8 2 2 5 0 . | - M - - - - 1 . 5 C - - | 139 | 100L |
| 15 | 62.38 | 910 | 3.24 | 19700 | 5 6 . | | | |
| 14 | 68.52 | 997 | 3.01 | 19700 | 6 3 . | | | |
| 11 | 83.97 | 1226 | 2.52 | 19700 | 7 1 . | | | |
| 10 | 91.70 | 1335 | 2.34 | 19700 | 9 0 . | | | |
| 9.0 | 105.59 | 1531 | 1.91 | 19700 | 1 0 0 | | | |
| 8.3 | 114.15 | 1646 | 2.06 | 19700 | F 0 8 3 2 1 0 0 . | - M - - - - 1 . 5 C - - | 141 | 100L |
| 7.6 | 124.92 | 1802 | 1.88 | 19700 | 1 1 2 | | | |
| 6.7 | 141.33 | 2039 | 1.66 | 19700 | 1 2 5 | | | |
| 6.0 | 159.53 | 2304 | 1.47 | 19700 | 1 6 0 | | | |
| 4.9 | 193.39 | 2777 | 1.22 | 19700 | 1 8 0 | | | |
| 4.2 | 225.53 | 3256 | 1.07 | 19700 | 2 0 0 | | | |
| 3.8 | 247.74 | 3567 | 0.99 | 19700 | 2 2 5 | | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 14 | 67.71 | 988 | 4.00 | 29900 | F 0 9 2 1 7 1 . - M - - - - 1 . 5 C - - | 8 0 . | 189 | 100L |
| 12 | 76.14 | 1107 | 3.31 | 29900 | | 9 0 . | | |
| 11 | 87.44 | 1273 | 3.38 | 29900 | | 1 0 0 | | |
| 10 | 98.32 | 1429 | 3.01 | 29900 | | | | |
| 9.3 | 102.48 | 1484 | 2.86 | 29886 | F 0 9 3 1 1 0 0 - M - - - - 1 . 5 C - - | 1 1 2 | 199 | 100L |
| 8.3 | 113.85 | 1647 | 2.57 | 29873 | | 1 2 5 | | |
| 7.2 | 132.34 | 1910 | 2.26 | 29860 | | 1 4 0 | | |
| 6.5 | 147.03 | 2121 | 2.03 | 29836 | | 1 6 0 | | |
| 5.9 | 160.82 | 2320 | 1.83 | 29836 | | 1 8 0 | | |
| 5.4 | 177.54 | 2570 | 1.65 | 29804 | | 2 0 0 | | |
| 4.6 | 207.69 | 2996 | 1.44 | 29791 | | 2 2 5 | | |
| 4.1 | 229.28 | 3299 | 1.31 | 29737 | | 2 5 0 | | |
| 3.9 | 244.23 | 3531 | 1.20 | 29737 | | 2 8 0 | | |
| 3.5 | 274.63 | 3942 | 1.08 | 29800 | | 3 1 5 | | |
| 3.0 | 315.41 | 4536 | 0.95 | 29700 | | 3 6 0 | | |
| 2.7 | 354.67 | 5103 | 0.84 | 29600 | | | | |
| 8.3 | 114.24 | 1655 | 3.87 | 43400 | F 1 0 3 1 1 1 2 - M - - - - 1 . 5 C - - | 1 2 5 | 302 | 100L |
| 7.3 | 129.50 | 1868 | 3.88 | 43400 | | 1 4 0 | | |
| 6.6 | 143.90 | 2077 | 3.49 | 43400 | | 1 6 0 | | |
| 5.8 | 162.91 | 2360 | 2.71 | 43400 | | 1 8 0 | | |
| 5.1 | 187.70 | 2717 | 2.36 | 43400 | | 2 0 0 | | |
| 4.6 | 205.21 | 2962 | 2.45 | 43300 | | 2 2 5 | | |
| 4.0 | 236.45 | 3402 | 2.13 | 43300 | | 2 5 0 | | |
| 3.7 | 253.86 | 3660 | 1.75 | 43300 | | 2 8 0 | | |
| 3.5 | 272.75 | 3927 | 1.63 | 43300 | | 3 1 5 | | |
| 3.0 | 319.79 | 4598 | 1.58 | 43300 | | 3 6 0 | | |
| 2.8 | 343.57 | 4928 | 1.47 | 43300 | | | | |
| 2.4 | 400.73 | 5681 | 1.28 | 43000 | F 1 0 4 1 4 0 0 - M - - - - 1 . 5 C - - | 4 5 0 | 312 | 100L |
| 2.2 | 445.30 | 6312 | 1.15 | 43000 | | 5 0 0 | | |
| 2.0 | 489.83 | 6944 | 1.04 | 43000 | | 5 6 0 | | |
| 1.7 | 562.85 | 7979 | 0.91 | 43000 | | 6 3 0 | | |
| 1.5 | 638.26 | 9048 | 0.80 | 43000 | | | | |

2.2 kW

4 POLE

| | | | | | | | | |
|-----|-------|-----|------|------|---|-------|----|------|
| 228 | 6.26 | 89 | 3.20 | 3280 | F 0 3 2 2 7 . 1 - M - - - - 2 . 2 A - - | 9 . 0 | 48 | 100L |
| 163 | 8.78 | 125 | 2.51 | 3405 | | 1 0 . | | |
| 148 | 9.68 | 138 | 2.31 | 3451 | | 1 2 . | | |
| 130 | 10.99 | 157 | 2.08 | 3503 | | 1 4 . | | |
| 102 | 13.96 | 199 | 1.69 | 3563 | | 1 6 . | | |
| 90 | 15.86 | 226 | 1.53 | 3573 | | 2 0 . | | |
| 73 | 19.46 | 277 | 1.29 | 3551 | | 2 2 . | | |
| 66 | 21.59 | 308 | 1.18 | 3521 | | 2 5 . | | |
| 58 | 24.53 | 350 | 1.06 | 3454 | | 2 8 . | | |
| 51 | 27.86 | 397 | 0.94 | 3370 | | 3 2 . | | |
| 47 | 30.68 | 437 | 0.86 | 3276 | | | | |
| 228 | 6.26 | 89 | 3.20 | 3280 | F 0 4 2 2 7 . 1 - M - - - - 2 . 2 A - - | 9 . 0 | 48 | 100L |
| 163 | 8.78 | 125 | 2.51 | 3405 | | 1 0 . | | |
| 148 | 9.68 | 138 | 2.31 | 3451 | | 1 2 . | | |
| 130 | 10.99 | 157 | 2.08 | 3503 | | 1 4 . | | |
| 102 | 13.96 | 199 | 1.69 | 3563 | | 1 6 . | | |
| 90 | 15.86 | 226 | 1.53 | 3573 | | 2 0 . | | |
| 73 | 19.46 | 277 | 1.29 | 3551 | | 2 2 . | | |
| 66 | 21.59 | 308 | 1.18 | 3521 | | 2 5 . | | |
| 58 | 24.53 | 350 | 1.06 | 3454 | | 2 8 . | | |
| 51 | 27.86 | 397 | 0.94 | 3370 | | 3 2 . | | |
| 47 | 30.68 | 437 | 0.86 | 3276 | | | | |
| 132 | 10.87 | 155 | 3.74 | 4760 | F 0 5 2 2 1 0 . - M - - - - 2 . 2 A - - | | 52 | 100L |
| 116 | 12.33 | 176 | 3.36 | 4840 | | 1 2 . | | |
| 97 | 14.70 | 209 | 2.89 | 4941 | | 1 4 . | | |
| 84 | 16.93 | 241 | 2.38 | 4999 | | 1 6 . | | |
| 73 | 19.69 | 280 | 2.24 | 5035 | | 2 0 . | | |
| 65 | 22.03 | 313 | 2.04 | 5042 | | 2 2 . | | |
| 61 | 23.48 | 334 | 1.93 | 5026 | | 2 5 . | | |
| 51 | 27.83 | 395 | 1.67 | 4973 | | 2 8 . | | |
| 48 | 29.71 | 422 | 1.58 | 4929 | | 3 2 . | | |
| 39 | 36.87 | 524 | 1.31 | 4715 | | 3 6 . | | |
| 33 | 43.47 | 617 | 1.14 | 4456 | | 4 0 . | | |
| 30 | 47.60 | 675 | 1.05 | 4265 | | 5 0 . | | |
| 102 | 13.98 | 199 | 3.65 | 7250 | F 0 6 2 2 1 4 . - M - - - - 2 . 2 A - - | | 66 | 100L |
| 90 | 15.85 | 226 | 3.42 | 7450 | | 1 6 . | | |
| 76 | 18.90 | 270 | 3.10 | 7722 | | 2 0 . | | |
| 66 | 21.76 | 311 | 2.38 | 7927 | | 2 2 . | | |
| 56 | 25.31 | 361 | 2.31 | 8131 | | 2 5 . | | |
| 50 | 28.32 | 403 | 2.18 | 8271 | | 2 8 . | | |
| 47 | 30.18 | 431 | 2.07 | 8334 | | 3 2 . | | |
| 40 | 35.77 | 509 | 1.74 | 8485 | | 3 6 . | | |
| 37 | 38.19 | 543 | 1.64 | 8550 | | 4 0 . | | |
| 30 | 47.40 | 674 | 1.32 | 8644 | | 5 0 . | | |
| 26 | 55.89 | 795 | 1.12 | 8655 | | 5 6 . | | |
| 23 | 61.20 | 868 | 1.03 | 8616 | | 6 3 . | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

2.2 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] Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 54 | 26.41 | 375 | 3.70 | 11400 | F 0 7 2 2 2 5 . _ M - - - - 2 . 2 A - - | | 86 | 100L |
| 48 | 29.95 | 425 | 3.43 | 11700 | 2 8 . | | | |
| 43 | 33.03 | 471 | 3.12 | 11927 | 3 2 . | | | |
| 38 | 37.83 | 540 | 2.83 | 12247 | 3 6 . | | | |
| 33 | 42.77 | 610 | 2.54 | 12535 | 4 0 . | | | |
| 29 | 49.59 | 703 | 2.25 | 12874 | 5 0 . | | | |
| 24 | 59.14 | 841 | 1.95 | 13191 | 5 6 . | | | |
| 22 | 64.77 | 921 | 1.80 | 13300 | 6 3 . | | | |
| 18 | 77.72 | 1098 | 1.45 | 13496 | 7 1 . | | | |
| 16 | 89.42 | 1270 | 1.00 | 13591 | 9 0 . | | | |
| 13 | 108.56 | 1519 | 0.82 | 13648 | F 0 7 3 2 1 0 0 _ M - - - - 2 . 2 A - - | | 91 | 100L |
| 27 | 53.49 | 759 | 3.53 | 16800 | F 0 8 2 2 5 0 . _ M - - - - 2 . 2 A - - | | 137 | 100L |
| 23 | 62.38 | 885 | 3.09 | 17400 | 5 6 . | | | |
| 21 | 68.52 | 972 | 2.88 | 17723 | 6 3 . | | | |
| 17 | 83.97 | 1194 | 2.40 | 18389 | 7 1 . | | | |
| 16 | 91.70 | 1302 | 2.22 | 18663 | 9 0 . | | | |
| 14 | 105.59 | 1489 | 1.81 | 19113 | 1 0 0 | | | |
| 13 | 114.15 | 1602 | 2.12 | 19393 | F 0 8 3 2 1 0 0 _ M - - - - 2 . 2 A - - | | 139 | 100L |
| 11 | 124.92 | 1754 | 1.93 | 19600 | 1 1 2 | | | |
| 10 | 141.33 | 1984 | 1.71 | 19700 | 1 2 5 | | | |
| 9.0 | 159.53 | 2237 | 1.52 | 19700 | 1 6 0 | | | |
| 19 | 76.14 | 1079 | 3.34 | 29900 | F 0 9 2 1 8 0 . _ M - - - - 2 . 2 A - - | | 187 | 100L |
| 16 | 87.44 | 1240 | 3.47 | 29900 | 9 0 . | | | |
| 15 | 98.32 | 1391 | 3.10 | 29900 | 1 0 0 | | | |
| 14 | 102.48 | 1441 | 2.94 | 29890 | F 0 9 3 1 1 0 0 _ M - - - - 2 . 2 A - - | | 197 | 100L |
| 13 | 113.85 | 1603 | 2.64 | 29882 | 1 1 2 | | | |
| 11 | 132.34 | 1856 | 2.32 | 29865 | 1 2 5 | | | |
| 10 | 147.03 | 2063 | 2.09 | 29826 | 1 4 0 | | | |
| 8.9 | 160.82 | 2257 | 1.88 | 29826 | 1 6 0 | | | |
| 8.1 | 177.54 | 2495 | 1.70 | 29820 | 1 8 0 | | | |
| 6.9 | 207.69 | 2904 | 1.48 | 29780 | 2 0 0 | | | |
| 6.2 | 229.28 | 3215 | 1.34 | 29771 | 2 2 5 | | | |
| 5.9 | 244.23 | 3426 | 1.24 | 29771 | 2 5 0 | | | |
| 5.2 | 274.63 | 3844 | 1.10 | 29706 | 2 8 0 | | | |
| 4.5 | 315.41 | 4410 | 0.98 | 29697 | 3 1 5 | | | |
| 4.0 | 354.67 | 4955 | 0.87 | 29630 | 3 6 0 | | | |
| 12 | 114.24 | 1632 | 3.92 | 43400 | F 1 0 3 1 1 1 2 _ M - - - - 2 . 2 A - - | | 302 | 100L |
| 11 | 129.50 | 1842 | 3.93 | 43400 | 1 2 5 | | | |
| 10 | 143.90 | 2047 | 3.54 | 43400 | 1 4 0 | | | |
| 8.7 | 162.91 | 2327 | 2.75 | 43400 | 1 6 0 | | | |
| 7.5 | 187.70 | 2581 | 2.39 | 43400 | 1 8 0 | | | |
| 6.9 | 205.21 | 2918 | 2.48 | 43400 | 2 0 0 | | | |
| 6.0 | 236.45 | 3361 | 2.16 | 43300 | 2 2 5 | | | |
| 5.6 | 253.86 | 3619 | 1.77 | 43300 | 2 5 0 | | | |
| 5.2 | 272.75 | 3881 | 1.65 | 43300 | 2 8 0 | | | |
| 4.4 | 319.79 | 4543 | 1.60 | 43300 | 3 1 5 | | | |
| 4.1 | 343.57 | 4867 | 1.49 | 43300 | 3 6 0 | | | |
| 3.5 | 400.73 | 5633 | 1.29 | 43000 | F 1 0 4 1 4 0 0 _ M - - - - 2 . 2 A - - | | 312 | 100L |
| 3.2 | 445.30 | 6259 | 1.16 | 43000 | 4 5 0 | | | |
| 2.9 | 489.83 | 6885 | 1.05 | 43000 | 5 0 0 | | | |
| 2.5 | 562.85 | 7911 | 0.92 | 43000 | 5 6 0 | | | |
| 2.2 | 638.26 | 8971 | 0.81 | 43000 | 6 3 0 | | | |
| 5.2 | 277.27 | 4074 | 2.48 | 56000 | F 1 1 3 1 2 8 0 _ M - - - - 2 . 2 A - - | | 346 | 100L |
| 4.5 | 315.83 | 4640 | 2.29 | 56000 | 3 1 5 | | | |

2.2 kW

6 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| | | | | | | | | |
|-----|-------|-----|------|------|---|--|----|------|
| 150 | 6.26 | 136 | 2.11 | 3553 | F 0 3 2 2 7 . 1 _ M - - - - 2 . 2 C - - | | 68 | 112M |
| 107 | 8.78 | 190 | 1.68 | 3535 | 9 . 0 | | | |
| 97 | 9.68 | 210 | 1.56 | 3561 | 1 0 . | | | |
| 86 | 10.99 | 238 | 1.38 | 3581 | 1 2 . | | | |
| 67 | 13.96 | 303 | 1.11 | 3571 | 1 4 . | | | |
| 59 | 15.86 | 344 | 1.03 | 3528 | 1 6 . | | | |
| 48 | 19.46 | 422 | 0.90 | 3416 | 2 0 . | | | |
| 44 | 21.59 | 468 | 0.81 | 3331 | 2 2 . | | | |
| 150 | 6.26 | 136 | 2.11 | 3553 | F 0 4 2 2 7 . 1 _ M - - - - 2 . 2 C - - | | 68 | 112M |
| 107 | 8.78 | 190 | 1.68 | 3535 | 9 . 0 | | | |
| 97 | 9.68 | 210 | 1.56 | 3561 | 1 0 . | | | |
| 86 | 10.99 | 238 | 1.38 | 3581 | 1 2 . | | | |
| 67 | 13.96 | 303 | 1.11 | 3571 | 1 4 . | | | |
| 59 | 15.86 | 344 | 1.03 | 3528 | 1 6 . | | | |
| 48 | 19.46 | 422 | 0.90 | 3416 | 2 0 . | | | |
| 44 | 21.59 | 468 | 0.81 | 3331 | 2 2 . | | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

2.2 kW

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-------------|--------|----------|------|-------|------------------|---|-----|------|
| | | | | | Output Speed | Ratio | | |
| 194 | 4.84 | 105 | 3.76 | 4430 | 6 POLE | F 0 5 2 2 5 . 0 - M - - - - 2 . 2 C - - | 58 | 112M |
| 138 | 6.81 | 147 | 3.49 | 4710 | | 6 . 3 | | |
| 123 | 7.63 | 165 | 3.36 | 4790 | | 7 . 1 | | |
| 110 | 8.56 | 186 | 3.00 | 4870 | | 9 . 0 | | |
| 86 | 10.87 | 236 | 2.60 | 4987 | | 1 0 . | | |
| 76 | 12.33 | 267 | 2.33 | 5023 | | 1 2 . | | |
| 64 | 14.70 | 319 | 2.01 | 5030 | | 1 4 . | | |
| 56 | 16.93 | 367 | 1.57 | 5002 | | 1 6 . | | |
| 48 | 19.69 | 427 | 1.52 | 4921 | | 2 0 . | | |
| 43 | 22.03 | 476 | 1.42 | 4828 | | 2 2 . | | |
| 40 | 23.48 | 508 | 1.34 | 4753 | | 2 5 . | | |
| 34 | 27.83 | 603 | 1.15 | 4501 | | 2 8 . | | |
| 32 | 29.71 | 643 | 1.09 | 4375 | | 3 2 . | | |
| 25 | 36.87 | 796 | 0.89 | 3829 | | 3 6 . | | |
| 151 | 6.22 | 135 | 3.76 | 6590 | | F 0 6 2 2 7 . 1 - M - - - - 2 . 2 C - - | | |
| 107 | 8.75 | 190 | 3.41 | 7160 | | 9 . 0 | | |
| 96 | 9.81 | 213 | 3.24 | 7340 | | 1 0 . | | |
| 85 | 11.01 | 239 | 3.00 | 7520 | | 1 2 . | | |
| 67 | 13.98 | 304 | 2.65 | 7885 | | 1 4 . | | |
| 59 | 15.85 | 345 | 2.39 | 8053 | | 1 6 . | | |
| 50 | 18.90 | 411 | 2.05 | 8270 | | 2 0 . | | |
| 43 | 21.76 | 472 | 1.57 | 8416 | | 2 2 . | | |
| 37 | 25.31 | 549 | 1.52 | 8557 | | 2 5 . | | |
| 33 | 28.32 | 614 | 1.43 | 8586 | | 2 8 . | | |
| 31 | 30.18 | 654 | 1.36 | 8633 | | 3 2 . | | |
| 26 | 35.77 | 775 | 1.14 | 8651 | | 3 6 . | | |
| 25 | 38.19 | 829 | 1.07 | 8635 | | 4 0 . | | |
| 20 | 47.40 | 1028 | 0.87 | 8455 | | 5 0 . | | |
| 139 | 6.77 | 146 | 3.85 | 8950 | 6 POLE | F 0 7 2 2 7 . 1 - M - - - - 2 . 2 C - - | 92 | 112M |
| 100 | 9.38 | 203 | 3.85 | 9780 | | 9 . 0 | | |
| 89 | 10.54 | 228 | 3.85 | 10100 | | 1 0 . | | |
| 81 | 11.59 | 251 | 3.85 | 10300 | | 1 2 . | | |
| 62 | 15.13 | 329 | 3.85 | 11000 | | 1 4 . | | |
| 55 | 17.21 | 374 | 3.57 | 11400 | | 1 6 . | | |
| 45 | 20.89 | 453 | 3.17 | 11800 | | 2 0 . | | |
| 41 | 22.98 | 497 | 2.97 | 12100 | | 2 2 . | | |
| 36 | 26.41 | 572 | 2.66 | 12394 | | 2 5 . | | |
| 31 | 29.95 | 648 | 2.47 | 12678 | | 2 8 . | | |
| 28 | 33.03 | 717 | 2.24 | 12849 | | 3 2 . | | |
| 25 | 37.83 | 819 | 2.04 | 13075 | | 3 6 . | | |
| 22 | 42.77 | 926 | 1.82 | 13297 | | 4 0 . | | |
| 19 | 49.59 | 1070 | 1.62 | 13448 | | 5 0 . | | |
| 16 | 59.14 | 1276 | 1.40 | 13606 | | 5 6 . | | |
| 15 | 64.77 | 1397 | 1.30 | 13634 | | 6 3 . | | |
| 12 | 77.72 | 1677 | 0.98 | 13477 | | 7 1 . | | |
| 27 | 34.55 | 748 | 3.44 | 16700 | 6 POLE | F 0 8 2 2 3 2 . - M - - - - 2 . 2 C - - | 143 | 112M |
| 24 | 39.09 | 849 | 3.19 | 17200 | | 3 6 . | | |
| 21 | 44.13 | 956 | 2.91 | 17600 | | 4 0 . | | |
| 18 | 53.49 | 1159 | 2.48 | 18240 | | 5 0 . | | |
| 15 | 62.38 | 1349 | 2.19 | 18757 | | 5 6 . | | |
| 14 | 68.52 | 1478 | 2.03 | 19050 | | 6 3 . | | |
| 11 | 83.97 | 1817 | 1.70 | 19524 | | 7 1 . | | |
| 10 | 91.70 | 1980 | 1.58 | 19658 | | 9 0 . | | |
| 8.9 | 105.59 | 2270 | 1.29 | 19700 | | 1 0 0 | | |
| 8.2 | 114.15 | 2441 | 1.39 | 20014 | | F 0 8 3 2 1 0 0 - M - - - - 2 . 2 C - - | 145 | 112M |
| 7.5 | 124.92 | 2672 | 1.27 | 20059 | | 1 1 2 | | |
| 6.7 | 141.33 | 3022 | 1.12 | 19995 | | 1 2 5 | | |
| 5.9 | 159.53 | 3415 | 0.99 | 18688 | | 1 6 0 | | |
| 4.9 | 193.39 | 4117 | 0.82 | 16008 | | 1 8 0 | | |
| 16 | 57.58 | 1246 | 3.46 | 29900 | 6 POLE | F 0 9 2 1 5 6 . - M - - - - 2 . 2 C - - | 193 | 112M |
| 15 | 63.56 | 1377 | 3.13 | 29900 | | 6 3 . | | |
| 14 | 67.71 | 1464 | 2.70 | 29876 | | 7 1 . | | |
| 12 | 76.14 | 1641 | 2.23 | 29865 | | 8 0 . | | |
| 11 | 87.44 | 1887 | 2.28 | 29856 | | 9 0 . | | |
| 10 | 98.32 | 2118 | 2.03 | 29848 | | 1 0 0 | | |
| 9.2 | 102.48 | 2200 | 1.93 | 29863 | | F 0 9 3 1 1 0 0 - M - - - - 2 . 2 C - - | 203 | 112M |
| 8.3 | 113.85 | 2442 | 1.74 | 29826 | | 1 1 2 | | |
| 7.1 | 132.34 | 2831 | 1.52 | 29790 | | 1 2 5 | | |
| 6.4 | 147.03 | 3144 | 1.37 | 29776 | | 1 4 0 | | |
| 5.8 | 160.82 | 3439 | 1.23 | 29776 | | 1 6 0 | | |
| 5.3 | 177.54 | 3810 | 1.11 | 29714 | | 1 8 0 | | |
| 4.5 | 207.69 | 4442 | 0.97 | 29711 | | 2 0 0 | | |
| 4.1 | 229.28 | 4890 | 0.88 | 29617 | | 2 2 5 | | |
| 3.8 | 244.23 | 5234 | 0.81 | 29617 | | 2 5 0 | | |
| 13 | 74.39 | 1599 | 3.51 | 43400 | 6 POLE | F 1 0 2 1 8 0 . - M - - - - 2 . 2 C - - | 289 | 112M |
| 11 | 87.21 | 1871 | 3.87 | 43400 | | 9 0 . | | |
| 10 | 93.70 | 2009 | 3.51 | 43400 | | 1 0 0 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

2.2 kW

6 POLE

3.0 kW

4 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| 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 of base mount unit | Motor Sizes | | |
| 9.2 | 102.80 | 2197 | 2.91 | 43400 | F | 1 | 0 | 3 | 1 | 1 | 0 | 0 | _ | M | - - - - - | 2 . 2 C - - | 310 | 112M |
| 8.3 | 114.24 | 2440 | 2.62 | 43400 | | | | | | | | | | | 1 | 1 2 | | |
| 7.3 | 129.50 | 2755 | 2.63 | 43400 | | | | | | | | | | | 1 | 2 5 | | |
| 6.6 | 143.90 | 3062 | 2.37 | 43400 | | | | | | | | | | | 1 | 4 0 | | |
| 5.8 | 162.91 | 3480 | 1.84 | 43400 | | | | | | | | | | | 1 | 6 0 | | |
| 5.0 | 187.70 | 4006 | 1.60 | 43300 | | | | | | | | | | | 1 | 8 0 | | |
| 4.6 | 205.21 | 4367 | 1.66 | 43300 | | | | | | | | | | | 2 | 0 0 | | |
| 4.0 | 236.45 | 5016 | 1.45 | 43300 | | | | | | | | | | | 2 | 2 5 | | |
| 3.7 | 253.86 | 5397 | 1.19 | 43300 | | | | | | | | | | | 2 | 5 0 | | |
| 3.5 | 272.75 | 5790 | 1.11 | 43300 | | | | | | | | | | | 2 | 8 0 | | |
| 3.0 | 319.79 | 6779 | 1.07 | 43300 | | | | | | | | | | | 3 | 1 5 | | |
| 2.8 | 343.57 | 7265 | 1.00 | 43200 | | | | | | | | | | | 3 | 6 0 | | |
| 2.4 | 400.73 | 8419 | 0.86 | 43000 | F | 1 | 0 | 4 | 1 | 4 | 0 | 0 | _ | M | - - - - - | 2 . 2 C - - | 320 | 112M |
| 4.2 | 225.59 | 5040 | 2.01 | 56000 | F | 1 | 1 | 3 | 1 | 2 | 2 | 5 | _ | M | - - - - - | 2 . 2 M - - | 346 | 100L |
| 3.7 | 256.85 | 5741 | 1.85 | 56000 | | | | | | | | | | | 2 | 5 0 | | |
| 3.4 | 277.27 | 6197 | 1.63 | 56000 | | | | | | | | | | | 2 | 8 0 | | |
| 3.0 | 315.83 | 7059 | 1.50 | 56000 | | | | | | | | | | | 3 | 1 5 | | |
| 228 | 6.26 | 122 | 2.35 | 2985 | F | 0 | 3 | 2 | 2 | 7 | . 1 | _ | M | - - - - - | 3 . 0 A - - | 48 | 100L | |
| 163 | 8.78 | 171 | 1.84 | 3039 | | | | | | | | | | | 9 | . 0 | | |
| 148 | 9.68 | 188 | 1.70 | 3058 | | | | | | | | | | | 1 | 0 . | | |
| 130 | 10.99 | 214 | 1.53 | 3072 | | | | | | | | | | | 1 | 2 . | | |
| 102 | 13.96 | 271 | 1.24 | 3051 | | | | | | | | | | | 1 | 4 . | | |
| 90 | 15.86 | 308 | 1.12 | 3012 | | | | | | | | | | | 1 | 6 . | | |
| 73 | 19.46 | 378 | 0.94 | 2904 | | | | | | | | | | | 2 | 0 . | | |
| 66 | 21.59 | 420 | 0.86 | 2827 | | | | | | | | | | | 2 | 2 . | | |
| 58 | 24.53 | 477 | 0.78 | 2702 | | | | | | | | | | | 2 | 5 . | | |
| 228 | 6.26 | 122 | 2.35 | 2985 | F | 0 | 4 | 2 | 2 | 7 | . 1 | _ | M | - - - - - | 3 . 0 A - - | 48 | 100L | |
| 163 | 8.78 | 171 | 1.84 | 3039 | | | | | | | | | | | 9 | . 0 | | |
| 148 | 9.68 | 188 | 1.70 | 3058 | | | | | | | | | | | 1 | 0 . | | |
| 130 | 10.99 | 214 | 1.53 | 3072 | | | | | | | | | | | 1 | 2 . | | |
| 102 | 13.96 | 271 | 1.24 | 3051 | | | | | | | | | | | 1 | 4 . | | |
| 90 | 15.86 | 308 | 1.12 | 3012 | | | | | | | | | | | 1 | 6 . | | |
| 73 | 19.46 | 378 | 0.94 | 2904 | | | | | | | | | | | 2 | 0 . | | |
| 66 | 21.59 | 420 | 0.86 | 2827 | | | | | | | | | | | 2 | 2 . | | |
| 58 | 24.53 | 477 | 0.80 | 2702 | | | | | | | | | | | 2 | 5 . | | |
| 210 | 6.81 | 133 | 3.88 | 4070 | F | 0 | 5 | 2 | 2 | 6 | . 3 | _ | M | - - - - - | 3 . 0 A - - | 55 | 100L | |
| 187 | 7.63 | 148 | 3.65 | 4140 | | | | | | | | | | | 7 | . 1 | | |
| 167 | 8.56 | 166 | 3.35 | 4200 | | | | | | | | | | | 9 | . 0 | | |
| 132 | 10.87 | 211 | 2.74 | 4289 | | | | | | | | | | | 1 | 0 . | | |
| 116 | 12.33 | 240 | 2.46 | 4307 | | | | | | | | | | | 1 | 2 . | | |
| 97 | 14.70 | 285 | 2.12 | 4306 | | | | | | | | | | | 1 | 4 . | | |
| 84 | 16.93 | 329 | 1.75 | 4268 | | | | | | | | | | | 1 | 6 . | | |
| 73 | 19.69 | 382 | 1.64 | 4184 | | | | | | | | | | | 2 | 0 . | | |
| 65 | 22.03 | 427 | 1.50 | 4091 | | | | | | | | | | | 2 | 2 . | | |
| 61 | 23.48 | 456 | 1.41 | 4013 | | | | | | | | | | | 2 | 5 . | | |
| 51 | 27.83 | 539 | 1.22 | 3771 | | | | | | | | | | | 2 | 8 . | | |
| 48 | 29.71 | 576 | 1.16 | 3649 | | | | | | | | | | | 3 | 2 . | | |
| 39 | 36.87 | 715 | 0.96 | 3130 | | | | | | | | | | | 3 | 6 . | | |
| 33 | 43.47 | 841 | 0.83 | 2590 | | | | | | | | | | | 4 | 0 . | | |
| 230 | 6.22 | 120 | 3.88 | 5730 | F | 0 | 6 | 2 | 2 | 7 | . 1 | _ | M | - - - - - | 3 . 0 A - - | 69 | 100L | |
| 163 | 8.75 | 170 | 3.35 | 6210 | | | | | | | | | | | 9 | . 0 | | |
| 146 | 9.81 | 190 | 3.20 | 6360 | | | | | | | | | | | 1 | 0 . | | |
| 130 | 11.01 | 214 | 3.02 | 6517 | | | | | | | | | | | 1 | 2 . | | |
| 102 | 13.98 | 272 | 2.68 | 6815 | | | | | | | | | | | 1 | 4 . | | |
| 90 | 15.85 | 308 | 2.51 | 6957 | | | | | | | | | | | 1 | 6 . | | |
| 76 | 18.90 | 368 | 2.27 | 7135 | | | | | | | | | | | 2 | 0 . | | |
| 66 | 21.76 | 424 | 1.75 | 7250 | | | | | | | | | | | 2 | 2 . | | |
| 56 | 25.31 | 493 | 1.70 | 7345 | | | | | | | | | | | 2 | 5 . | | |
| 50 | 28.32 | 550 | 1.60 | 7393 | | | | | | | | | | | 2 | 8 . | | |
| 47 | 30.18 | 587 | 1.52 | 7399 | | | | | | | | | | | 3 | 2 . | | |
| 40 | 35.77 | 695 | 1.28 | 7384 | | | | | | | | | | | 3 | 6 . | | |
| 37 | 38.19 | 741 | 1.20 | 7367 | | | | | | | | | | | 4 | 0 . | | |
| 30 | 47.40 | 919 | 0.97 | 7180 | | | | | | | | | | | 5 | 0 . | | |
| 26 | 55.89 | 1085 | 0.82 | 6920 | | | | | | | | | | | 5 | 6 . | | |
| 94 | 15.13 | 294 | 3.94 | 9560 | F | 0 | 7 | 2 | 2 | 1 | 4 | . _ | M | - - - - - | 3 . 0 A - - | 89 | 100L | |
| 83 | 17.21 | 334 | 3.65 | 9840 | | | | | | | | | | | 1 | 6 . | | |
| 68 | 20.89 | 407 | 3.24 | 10300 | | | | | | | | | | | 2 | 0 . | | |
| 62 | 22.98 | 445 | 3.03 | 10400 | | | | | | | | | | | 2 | 2 . | | |
| 54 | 26.41 | 512 | 2.71 | 10715 | | | | | | | | | | | 2 | 5 . | | |
| 48 | 29.95 | 580 | 2.51 | 10926 | | | | | | | | | | | 2 | 8 . | | |
| 43 | 33.03 | 642 | 2.29 | 11076 | | | | | | | | | | | 3 | 2 . | | |
| 38 | 37.83 | 736 | 2.08 | 11272 | | | | | | | | | | | 3 | 6 . | | |
| 33 | 42.77 | 833 | 1.86 | 11432 | | | | | | | | | | | 4 | 0 . | | |
| 29 | 49.59 | 959 | 1.65 | 11589 | | | | | | | | | | | 5 | 0 . | | |
| 24 | 59.14 | 1146 | 1.43 | 11658 | | | | | | | | | | | 5 | 6 . | | |
| 22 | 64.77 | 1256 | 1.32 | 11637 | | | | | | | | | | | 6 | 3 . | | |
| 18 | 77.72 | 1497 | 1.06 | 11510 | | | | | | | | | | | 7 | 1 . | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

3.0 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 41 | 34.55 | 673 | 3.68 | 14500 | F 0 8 2 2 3 2 . - M - - - - 3 . 0 A - - | | 140 | 100L |
| 37 | 39.09 | 759 | 3.39 | 14900 | | 3 6 . | | |
| 32 | 44.13 | 858 | 3.06 | 15300 | | 4 0 . | | |
| 27 | 53.49 | 1035 | 2.59 | 15773 | | 5 0 . | | |
| 23 | 62.38 | 1207 | 2.27 | 16198 | | 5 6 . | | |
| 21 | 68.52 | 1326 | 2.11 | 16407 | | 6 3 . | | |
| 17 | 83.97 | 1628 | 1.76 | 16777 | | 7 1 . | | |
| 16 | 91.70 | 1776 | 1.63 | 16907 | | 9 0 . | | |
| 14 | 105.59 | 2030 | 1.32 | 17086 | | 1 0 0 | | |
| 13 | 114.15 | 2184 | 1.55 | 17206 | F 0 8 3 2 1 0 0 - M - - - - 3 . 0 A - - | | 142 | 100L |
| 11 | 124.92 | 2392 | 1.42 | 17200 | | 1 1 2 . | | |
| 10 | 141.33 | 2706 | 1.25 | 17101 | | 1 2 5 . | | |
| 22 | 63.56 | 1236 | 3.48 | 29900 | F 0 9 2 1 6 3 . - M - - - - 3 . 0 A - - | | 190 | 100L |
| 21 | 67.71 | 1311 | 2.74 | 29900 | | 7 1 . | | |
| 19 | 76.14 | 1471 | 2.45 | 29877 | | 8 0 . | | |
| 16 | 87.44 | 1691 | 2.55 | 29865 | | 9 0 . | | |
| 15 | 98.32 | 1897 | 2.27 | 29869 | | 1 0 0 | | |
| 14 | 102.48 | 1966 | 2.16 | 29869 | F 0 9 3 1 1 0 0 - M - - - - 3 . 0 A - - | | 200 | 100L |
| 13 | 113.85 | 2186 | 1.94 | 29863 | | 1 1 2 . | | |
| 11 | 132.34 | 2531 | 1.70 | 29826 | | 1 2 5 . | | |
| 10 | 147.03 | 2813 | 1.53 | 29773 | | 1 4 0 . | | |
| 8.9 | 160.82 | 3078 | 1.38 | 29773 | | 1 6 0 . | | |
| 8.1 | 177.54 | 3403 | 1.25 | 29769 | | 1 8 0 . | | |
| 6.9 | 207.69 | 3960 | 1.09 | 29704 | | 2 0 0 . | | |
| 6.2 | 229.28 | 4384 | 0.98 | 29700 | | 2 2 5 . | | |
| 5.9 | 244.23 | 4673 | 0.91 | 29700 | | 2 5 0 . | | |
| 5.2 | 274.63 | 5243 | 0.81 | 29600 | | 2 8 0 . | | |
| 19 | 74.39 | 1456 | 3.85 | 43400 | F 1 0 3 1 8 0 - M - - - - 3 . 0 A - - | | 286 | 100L |
| 16 | 87.21 | 1720 | 4.00 | 43400 | | 9 0 . | | |
| 15 | 93.70 | 1827 | 3.85 | 43400 | | 1 0 0 | | |
| 14 | 102.80 | 1989 | 3.20 | 43400 | F 1 0 3 1 1 0 0 - M - - - - 3 . 0 A - - | | 305 | 100L |
| 12 | 114.24 | 2210 | 2.90 | 43400 | | 1 1 2 . | | |
| 11 | 129.50 | 2495 | 2.91 | 43400 | | 1 2 5 . | | |
| 10 | 143.90 | 2772 | 2.61 | 43400 | | 1 4 0 . | | |
| 8.7 | 162.91 | 3152 | 2.03 | 43400 | | 1 6 0 . | | |
| 7.6 | 187.70 | 3630 | 1.76 | 43400 | | 1 8 0 . | | |
| 6.9 | 205.21 | 3951 | 1.83 | 43400 | | 2 0 0 . | | |
| 6.0 | 236.45 | 4551 | 1.59 | 43400 | | 2 2 5 . | | |
| 5.6 | 253.86 | 4901 | 1.31 | 43400 | | 2 5 0 . | | |
| 5.2 | 272.75 | 5258 | 1.22 | 43400 | | 2 8 0 . | | |
| 4.4 | 319.79 | 6152 | 1.18 | 43400 | | 3 1 5 . | | |
| 4.1 | 343.57 | 6590 | 1.10 | 43400 | | 3 6 0 . | | |
| 6.3 | 225.49 | 4518 | 2.24 | 56000 | F 1 1 3 1 2 2 5 - M - - - - 3 . 0 A - - | | 344 | 100L |
| 5.6 | 256.85 | 5146 | 2.06 | 56000 | | 2 5 0 . | | |
| 5.2 | 277.27 | 5555 | 1.82 | 56000 | | 2 8 0 . | | |
| 4.5 | 315.83 | 6328 | 1.68 | 56000 | | 3 1 5 . | | |

3.0 kW

6 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| | | | | | | | | |
|-----|-------|------|------|------|---|-------|----|------|
| 198 | 4.84 | 140 | 2.81 | 4113 | F 0 5 2 2 5 . 0 - M - - - - 3 . 0 C - - | | 71 | 132S |
| 141 | 6.81 | 197 | 2.61 | 4265 | | 6 . 3 | | |
| 126 | 7.63 | 221 | 2.51 | 4292 | | 7 . 1 | | |
| 112 | 8.56 | 248 | 2.25 | 4310 | | 9 . 0 | | |
| 88 | 10.87 | 315 | 1.95 | 4275 | | 1 0 . | | |
| 78 | 12.33 | 357 | 1.75 | 4217 | | 1 2 . | | |
| 65 | 14.70 | 426 | 1.50 | 4070 | | 1 4 . | | |
| 57 | 16.93 | 490 | 1.17 | 3899 | | 1 6 . | | |
| 49 | 19.69 | 570 | 1.14 | 3636 | | 2 0 . | | |
| 44 | 22.03 | 636 | 1.06 | 3393 | | 2 2 . | | |
| 41 | 23.48 | 678 | 1.01 | 3221 | | 2 5 . | | |
| 35 | 27.83 | 806 | 0.86 | 2686 | | 2 8 . | | |
| 32 | 29.71 | 859 | 0.81 | 2441 | | 3 2 . | | |
| 154 | 6.22 | 180 | 2.81 | 6299 | F 0 6 2 2 7 . 1 - M - - - - 3 . 0 C - - | | 85 | 132S |
| 110 | 8.75 | 254 | 2.55 | 6748 | | 9 . 0 | | |
| 98 | 9.81 | 285 | 2.42 | 6879 | | 1 0 . | | |
| 87 | 11.01 | 319 | 2.25 | 7002 | | 1 2 . | | |
| 69 | 13.98 | 406 | 1.99 | 7228 | | 1 4 . | | |
| 61 | 15.85 | 460 | 1.79 | 7309 | | 1 6 . | | |
| 51 | 18.90 | 549 | 1.53 | 7382 | | 2 0 . | | |
| 44 | 21.76 | 631 | 1.17 | 7395 | | 2 2 . | | |
| 38 | 25.31 | 734 | 1.14 | 7363 | | 2 5 . | | |
| 34 | 28.32 | 819 | 1.07 | 7268 | | 2 8 . | | |
| 32 | 30.18 | 874 | 1.02 | 7217 | | 3 2 . | | |
| 27 | 35.77 | 1035 | 0.86 | 6970 | | 3 6 . | | |
| 25 | 38.19 | 1107 | 0.80 | 6835 | | 4 0 . | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 142 | 6.77 | 195 | 2.88 | 8684 | F 0 7 2 2 7 . 1 | _ M - - - - 3 . 0 C - - | 104 | 132S |
| 102 | 9.38 | 271 | 2.88 | 9411 | 9 . 0 | | | |
| 91 | 10.54 | 305 | 2.88 | 9683 | 1 0 . | | | |
| 83 | 11.59 | 336 | 2.88 | 9850 | 1 2 . | | | |
| 63 | 15.13 | 440 | 2.88 | 10409 | 1 4 . | | | |
| 56 | 17.21 | 500 | 2.68 | 10717 | 1 6 . | | | |
| 46 | 20.89 | 605 | 2.38 | 10986 | 2 0 . | | | |
| 42 | 22.98 | 664 | 2.23 | 11194 | 2 2 . | | | |
| 36 | 26.41 | 763 | 1.99 | 11360 | 2 5 . | | | |
| 32 | 29.95 | 866 | 1.85 | 11504 | 2 8 . | | | |
| 29 | 33.03 | 958 | 1.68 | 11559 | 3 2 . | | | |
| 25 | 37.83 | 1093 | 1.53 | 11602 | 3 6 . | | | |
| 22 | 42.77 | 1236 | 1.37 | 11623 | 4 0 . | | | |
| 19 | 49.59 | 1429 | 1.21 | 11520 | 5 0 . | | | |
| 16 | 59.14 | 1704 | 1.05 | 11292 | 5 6 . | | | |
| 15 | 64.77 | 1865 | 0.97 | 11114 | 6 3 . | | | |
| 39 | 24.45 | 708 | 3.50 | 14700 | F 0 8 2 2 2 . _ | M - - - - 3 . 0 C - - | 158 | 132S |
| 34 | 28.46 | 824 | 3.17 | 15200 | 2 5 . | | | |
| 30 | 31.57 | 912 | 2.87 | 15500 | 2 8 . | | | |
| 28 | 34.55 | 1000 | 2.58 | 15688 | 3 2 . | | | |
| 25 | 39.09 | 1133 | 2.39 | 16057 | 3 6 . | | | |
| 22 | 44.13 | 1277 | 2.18 | 16315 | 4 0 . | | | |
| 18 | 53.49 | 1548 | 1.86 | 16687 | 5 0 . | | | |
| 15 | 62.38 | 1802 | 1.64 | 16941 | 5 6 . | | | |
| 14 | 68.52 | 1973 | 1.52 | 17050 | 6 3 . | | | |
| 11 | 83.97 | 2426 | 1.27 | 17068 | 7 1 . | | | |
| 10 | 91.70 | 2644 | 1.18 | 17010 | 9 0 . | | | |
| 9.1 | 105.59 | 3031 | 0.96 | 16878 | 1 0 0 | | | |
| 8.4 | 114.15 | 3259 | 1.04 | 16712 | F 0 8 3 2 1 0 0 . _ | M - - - - 3 . 0 C - - | 160 | 132S |
| 7.7 | 124.92 | 3568 | 0.95 | 16451 | 1 1 2 | | | |
| 6.8 | 141.33 | 4035 | 0.84 | 15910 | 1 2 5 | | | |
| 24 | 40.76 | 1175 | 3.67 | 29900 | F 0 9 2 1 4 0 . _ | M - - - - 3 . 0 C - - | 205 | 132S |
| 22 | 44.58 | 1291 | 3.28 | 29900 | 4 5 . | | | |
| 20 | 49.22 | 1426 | 2.97 | 29875 | 5 0 . | | | |
| 17 | 57.58 | 1664 | 2.59 | 29869 | 5 6 . | | | |
| 15 | 63.56 | 1839 | 2.34 | 29869 | 6 3 . | | | |
| 14 | 67.71 | 1955 | 2.02 | 29850 | 7 1 . | | | |
| 13 | 76.14 | 2191 | 1.67 | 29826 | 8 0 . | | | |
| 11 | 87.44 | 2520 | 1.71 | 29806 | 9 0 . | | | |
| 10 | 98.32 | 2829 | 1.52 | 29790 | 1 0 0 | | | |
| 15 | 64.49 | 1878 | 3.86 | 43400 | F 1 0 2 1 6 3 . _ | M - - - - 3 . 0 C - - | 300 | 132S |
| 14 | 69.24 | 2022 | 3.05 | 43400 | 7 1 . | | | |
| 13 | 74.39 | 2169 | 2.59 | 43400 | 8 0 . | | | |
| 11 | 87.21 | 2537 | 2.86 | 43400 | 9 0 . | | | |
| 10 | 93.70 | 2726 | 2.59 | 43400 | 1 0 0 | | | |
| 9.2 | 102.80 | 2980 | 2.15 | 43400 | F 1 0 3 1 1 0 0 . _ | M - - - - 3 . 0 C - | 320 | 132S |
| 8.3 | 114.24 | 3310 | 1.93 | 43400 | 1 1 2 | | | |
| 7.3 | 129.50 | 3737 | 1.94 | 43400 | 1 2 5 | | | |
| 6.6 | 143.90 | 4154 | 1.74 | 43400 | 1 4 0 | | | |
| 5.8 | 162.91 | 4720 | 1.36 | 43400 | 1 6 0 | | | |
| 5.1 | 187.70 | 5434 | 1.18 | 43400 | 1 8 0 | | | |
| 4.6 | 205.21 | 5924 | 1.22 | 43400 | 2 0 0 | | | |
| 4.0 | 236.45 | 6804 | 1.07 | 43400 | 2 2 5 | | | |
| 3.7 | 253.86 | 7321 | 0.87 | 43400 | 2 5 0 | | | |
| 3.5 | 272.75 | 7855 | 0.81 | 43400 | 2 8 0 | | | |
| 4.1 | 225.49 | 6909 | 1.46 | 56000 | F 1 1 3 1 2 2 5 . _ | M - - - - 3 . 0 M - | 353 | 112M |
| 3.6 | 256.85 | 7870 | 1.35 | 56000 | 2 5 0 | | | |
| 3.4 | 277.27 | 8496 | 1.19 | 56000 | 2 8 0 | | | |
| 3.0 | 315.83 | 9678 | 1.10 | 56000 | 3 1 5 | | | |
| 4.3 | 225.49 | 6729 | 1.50 | 56000 | F 1 1 3 1 2 2 5 . _ | M - - - - 3 . 0 M - | 359 | 132S |
| 3.7 | 256.85 | 7665 | 1.39 | 56000 | 2 5 0 | | | |
| 3.5 | 277.27 | 8275 | 1.22 | 56000 | 2 8 0 | | | |
| 3.0 | 315.83 | 9426 | 1.13 | 56000 | 3 1 5 | | | |
| 4.2 | 229.54 | 6850 | 2.41 | 62200 | F 1 2 3 1 2 2 5 . _ | M - - - - 3 . 0 C - | 545 | 132S |
| 3.9 | 247.92 | 7399 | 2.22 | 62200 | 2 5 0 | | | |
| 3.4 | 285.33 | 8515 | 1.94 | 62200 | 2 8 0 | | | |
| 3.1 | 308.18 | 9197 | 1.79 | 62200 | 3 1 5 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

4.0 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] Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes | |
| 4 POLE | 228.4 | 6.26 | 162 | 1.76 | 2694 | F 0 3 2 2 7 . 1 - M - - - - 4 . 0 A - - | 68 | 112M | |
| | 162.8 | 8.78 | 228 | 1.38 | 2635 | 9 . 0 | | | |
| | 147.7 | 9.68 | 251 | 1.27 | 2613 | 1 0 . | | | |
| | 130.1 | 10.99 | 285 | 1.14 | 2569 | 1 2 . | | | |
| | 102.4 | 13.96 | 362 | 0.93 | 2424 | 1 4 . | | | |
| | 90.2 | 15.86 | 411 | 0.84 | 2313 | 1 6 . | | | |
| | 228.4 | 6.26 | 162 | 1.76 | 2694 | F 0 4 2 2 7 . 1 - M - - - - 4 . 0 A - - | 68 | 112M | |
| | 162.8 | 8.78 | 228 | 1.38 | 2635 | 9 . 0 | | | |
| | 147.7 | 9.68 | 251 | 1.27 | 2613 | 1 0 . | | | |
| | 130.1 | 10.99 | 285 | 1.14 | 2569 | 1 2 . | | | |
| 4 POLE | 102.4 | 13.96 | 362 | 0.93 | 2424 | 1 4 . | | | |
| | 90.2 | 15.86 | 411 | 0.84 | 2313 | 1 6 . | | | |
| | 296 | 4.84 | 124 | 3.17 | 3580 | F 0 5 2 2 5 . 0 - M - - - - 4 . 0 A - - | 58 | 112M | |
| | 211 | 6.81 | 176 | 2.92 | 3702 | 6 . 3 | | | |
| | 188 | 7.63 | 197 | 2.75 | 3727 | 7 . 1 | | | |
| | 168 | 8.56 | 220 | 2.52 | 3736 | 9 . 0 | | | |
| | 132 | 10.87 | 281 | 2.06 | 3701 | 1 0 . | | | |
| | 116 | 12.33 | 318 | 1.85 | 3641 | 1 2 . | | | |
| | 98 | 14.70 | 379 | 1.59 | 3512 | 1 4 . | | | |
| | 85 | 16.93 | 437 | 1.31 | 3353 | 1 6 . | | | |
| 4 POLE | 73 | 19.69 | 508 | 1.24 | 3121 | 2 0 . | | | |
| | 65 | 22.03 | 567 | 1.13 | 2902 | 2 2 . | | | |
| | 61 | 23.48 | 606 | 1.06 | 2746 | 2 5 . | | | |
| | 52 | 27.83 | 717 | 0.92 | 2270 | 2 8 . | | | |
| | 48 | 29.71 | 765 | 0.87 | 2049 | 3 2 . | | | |
| | 231 | 6.22 | 160 | 2.92 | 5487 | F 0 6 2 2 7 . 1 - M - - - - 4 . 0 A - - | 72 | 112M | |
| | 164 | 8.75 | 227 | 2.52 | 5868 | 9 . 0 | | | |
| | 146 | 9.81 | 253 | 2.40 | 5979 | 1 0 . | | | |
| | 130 | 11.01 | 285 | 2.28 | 6088 | 1 2 . | | | |
| | 103 | 13.98 | 362 | 2.02 | 6272 | 1 4 . | | | |
| 4 POLE | 91 | 15.85 | 410 | 1.89 | 6341 | 1 6 . | | | |
| | 76 | 18.90 | 489 | 1.71 | 6400 | 2 0 . | | | |
| | 66 | 21.76 | 564 | 1.31 | 6404 | 2 2 . | | | |
| | 57 | 25.31 | 655 | 1.28 | 6362 | 2 5 . | | | |
| | 51 | 28.32 | 731 | 1.20 | 6296 | 2 8 . | | | |
| | 48 | 30.18 | 781 | 1.14 | 6230 | 3 2 . | | | |
| | 40 | 35.77 | 923 | 0.96 | 6007 | 3 6 . | | | |
| | 38 | 38.19 | 985 | 0.90 | 5887 | 4 0 . | | | |
| | 212 | 6.77 | 174 | 3.24 | 7570 | F 0 7 2 2 7 . 1 - M - - - - 4 . 0 A - - | 92 | 112M | |
| | 153 | 9.38 | 241 | 3.24 | 8200 | 9 . 0 | | | |
| 4 POLE | 136 | 10.54 | 271 | 3.24 | 8420 | 1 0 . | | | |
| | 124 | 11.59 | 298 | 3.24 | 8590 | 1 2 . | | | |
| | 95 | 15.13 | 390 | 2.97 | 9069 | 1 4 . | | | |
| | 83 | 17.21 | 444 | 2.75 | 9282 | 1 6 . | | | |
| | 69 | 20.89 | 541 | 2.44 | 9616 | 2 0 . | | | |
| | 62 | 22.98 | 591 | 2.28 | 9660 | 2 2 . | | | |
| | 54 | 26.41 | 680 | 2.04 | 9859 | 2 5 . | | | |
| | 48 | 29.95 | 771 | 1.89 | 9959 | 2 8 . | | | |
| | 43 | 33.03 | 853 | 1.72 | 10013 | 3 2 . | | | |
| | 38 | 37.83 | 978 | 1.56 | 10054 | 3 6 . | | | |
| 4 POLE | 34 | 42.77 | 1106 | 1.40 | 10054 | 4 0 . | | | |
| | 29 | 49.59 | 1274 | 1.24 | 9981 | 5 0 . | | | |
| | 24 | 59.14 | 1523 | 1.08 | 9741 | 5 6 . | | | |
| | 22 | 64.77 | 1669 | 0.99 | 9557 | 6 3 . | | | |
| | 59 | 24.45 | 632 | 3.59 | 12800 | F 0 8 2 2 2 2 - M - - - - 4 . 0 A - - | 143 | 112M | |
| | 50 | 28.46 | 737 | 3.24 | 13200 | 2 5 . | | | |
| | 45 | 31.57 | 814 | 3.02 | 13500 | 2 8 . | | | |
| | 42 | 34.55 | 894 | 2.77 | 13665 | 3 2 . | | | |
| | 37 | 39.09 | 1008 | 2.55 | 13954 | 3 6 . | | | |
| | 33 | 44.13 | 1140 | 2.31 | 14230 | 4 0 . | | | |
| 4 POLE | 27 | 53.49 | 1376 | 1.95 | 14490 | 5 0 . | | | |
| | 23 | 62.38 | 1605 | 1.71 | 14696 | 5 6 . | | | |
| | 21 | 68.52 | 1762 | 1.59 | 14761 | 6 3 . | | | |
| | 17 | 83.97 | 2164 | 1.33 | 14762 | 7 1 . | | | |
| | 16 | 91.70 | 2359 | 1.22 | 14712 | 9 0 . | | | |
| | 14 | 105.59 | 2697 | 1.00 | 14553 | 1 0 0 | | | |
| | 13 | 114.15 | 2902 | 1.17 | 14473 | F 0 8 3 2 1 0 0 - M - - - - 4 . 0 A - - | 145 | 112M | |
| | 11 | 124.92 | 3179 | 1.07 | 14200 | 1 1 2 | | | |
| | 10 | 141.33 | 3596 | 0.94 | 13736 | 1 2 5 | | | |
| | 9.0 | 159.53 | 4053 | 0.84 | 13080 | 1 6 0 | | | |
| 4 POLE | 32 | 44.58 | 1150 | 3.69 | 29900 | F 0 9 2 1 4 5 - M - - - - 4 . 0 A - - | 193 | 112M | |
| | 29 | 49.22 | 1269 | 3.34 | 29900 | 5 0 . | | | |
| | 25 | 57.58 | 1488 | 2.89 | 29900 | 5 6 . | | | |
| | 23 | 63.56 | 1643 | 2.62 | 29877 | 6 3 . | | | |
| | 21 | 67.71 | 1742 | 2.07 | 29883 | 7 1 . | | | |
| | 19 | 76.14 | 1955 | 1.84 | 29848 | 8 0 . | | | |
| | 16 | 87.44 | 2247 | 1.92 | 29822 | 9 0 . | | | |
| | 15 | 98.32 | 2521 | 1.71 | 29832 | 1 0 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 of base mount unit | Motor Sizes | | |
| 14 | 102.48 | 2612 | 1.62 | 29842 | F | 0 | 9 | 3 | 1 | 1 | 0 | 0 | _ | M | - - - - | 4 . 0 A - - | 203 | 112M |
| 13 | 113.85 | 2904 | 1.46 | 29839 | | | | | | 1 | 1 | 2 | | | | | | |
| 11 | 132.34 | 3362 | 1.28 | 29778 | | | | | | 1 | 2 | 5 | | | | | | |
| 10 | 147.03 | 3738 | 1.15 | 29706 | | | | | | 1 | 4 | 0 | | | | | | |
| 8.9 | 160.82 | 4090 | 1.04 | 29706 | | | | | | 1 | 6 | 0 | | | | | | |
| 8.1 | 177.54 | 4521 | 0.94 | 29706 | | | | | | 1 | 8 | 0 | | | | | | |
| 6.9 | 207.69 | 5262 | 0.82 | 29609 | | | | | | 2 | 0 | 0 | | | | | | |
| 21 | 69.24 | 1793 | 3.44 | 43400 | F | 1 | 0 | 2 | 1 | 7 | 1 | . | _ | M | - - - - | 4 . 0 A - - | 292 | 112M |
| 19 | 74.39 | 1935 | 2.90 | 43400 | | | | | | 8 | 0 | . | | | | | | |
| 16 | 87.21 | 2252 | 3.22 | 43400 | | | | | | 9 | 0 | . | | | | | | |
| 15 | 93.70 | 2428 | 2.90 | 43400 | | | | | | 1 | 0 | 0 | | | | | | |
| 14 | 102.80 | 2642 | 2.41 | 43300 | F | 1 | 0 | 3 | 1 | 1 | 0 | 0 | _ | M | - - - - | 4 . 0 A - - | 312 | 112M |
| 12 | 114.24 | 2936 | 2.18 | 43300 | | | | | | 1 | 1 | 2 | | | | | | |
| 11 | 129.50 | 3315 | 2.19 | 43300 | | | | | | 1 | 2 | 5 | | | | | | |
| 10 | 143.90 | 3683 | 1.97 | 43300 | | | | | | 1 | 4 | 0 | | | | | | |
| 8.7 | 162.91 | 4187 | 1.53 | 43300 | | | | | | 1 | 6 | 0 | | | | | | |
| 7.6 | 1087.70 | 4823 | 1.33 | 43300 | | | | | | 1 | 8 | 0 | | | | | | |
| 6.9 | 205.21 | 5250 | 1.38 | 43300 | | | | | | 2 | 0 | 0 | | | | | | |
| 6.0 | 236.45 | 6046 | 1.20 | 43200 | | | | | | 2 | 2 | 5 | | | | | | |
| 5.6 | 253.86 | 6512 | 0.98 | 43200 | | | | | | 2 | 5 | 0 | | | | | | |
| 5.2 | 272.75 | 6982 | 0.92 | 43200 | | | | | | 2 | 8 | 0 | | | | | | |
| 4.4 | 319.79 | 8174 | 0.89 | 43200 | | | | | | 3 | 1 | 5 | | | | | | |
| 4.1 | 343.57 | 8756 | 0.83 | 43100 | | | | | | 3 | 6 | 0 | | | | | | |
| 8.9 | 160.35 | 4314 | 2.46 | 56000 | F | 1 | 1 | 3 | 1 | 1 | 6 | 0 | _ | M | - - - - | 4 . 0 K - - | 347 | 100L |
| 8.0 | 178.07 | 4790 | 2.11 | 56000 | | | | | | 1 | 8 | 0 | | | | | | |
| 7.0 | 202.84 | 5457 | 1.95 | 56000 | | | | | | 2 | 0 | 0 | | | | | | |
| 6.3 | 225.49 | 6066 | 1.67 | 56000 | | | | | | 2 | 2 | 5 | | | | | | |
| 5.5 | 256.85 | 6910 | 1.54 | 56000 | | | | | | 2 | 5 | 0 | | | | | | |
| 5.1 | 277.27 | 7459 | 1.36 | 56000 | | | | | | 2 | 8 | 0 | | | | | | |
| 4.5 | 315.83 | 8946 | 1.25 | 56000 | | | | | | 3 | 1 | 5 | | | | | | |
| 8.9 | 160.35 | 4269 | 2.49 | 56000 | F | 1 | 1 | 3 | 1 | 1 | 6 | 0 | _ | M | - - - - | 4 . 0 A - - | 347 | 112M |
| 8.1 | 178.07 | 4740 | 2.13 | 56000 | | | | | | 1 | 8 | 0 | | | | | | |
| 7.1 | 202.84 | 5400 | 1.97 | 56000 | | | | | | 2 | 0 | 0 | | | | | | |
| 6.4 | 225.49 | 6003 | 1.69 | 56000 | | | | | | 2 | 2 | 5 | | | | | | |
| 5.6 | 256.85 | 6837 | 1.55 | 56000 | | | | | | 2 | 5 | 0 | | | | | | |
| 5.2 | 277.27 | 7381 | 1.37 | 56000 | | | | | | 2 | 8 | 0 | | | | | | |
| 4.5 | 315.83 | 8407 | 1.26 | 56000 | | | | | | 3 | 1 | 5 | | | | | | |

4.0 kW

[6 POLE

| | | | | | | | | | | | | | | | | | | |
|-----|-------|------|------|-------|---|---|---|---|---|---|---|---|---|---|---------|-------------|-----|------|
| 198 | 4.84 | 187 | 2.11 | 3718 | F | 0 | 5 | 2 | 2 | 5 | . | 0 | _ | M | - - - - | 4 . 0 C - - | 78 | 132M |
| 141 | 6.81 | 263 | 1.96 | 3709 | | | | | | 6 | . | 3 | | | | | | |
| 126 | 7.63 | 294 | 1.88 | 3670 | | | | | | 7 | . | 1 | | | | | | |
| 112 | 8.56 | 331 | 1.68 | 3610 | | | | | | 9 | . | 0 | | | | | | |
| 88 | 10.87 | 420 | 1.46 | 3386 | | | | | | 1 | 0 | . | | | | | | |
| 78 | 12.33 | 477 | 1.31 | 3209 | | | | | | 1 | 2 | . | | | | | | |
| 65 | 14.70 | 568 | 1.13 | 2870 | | | | | | 1 | 4 | . | | | | | | |
| 57 | 16.93 | 653 | 0.88 | 2520 | | | | | | 1 | 6 | . | | | | | | |
| 49 | 19.69 | 760 | 0.86 | 2030 | | | | | | 2 | 0 | . | | | | | | |
| 154 | 6.22 | 241 | 2.11 | 5935 | F | 0 | 6 | 2 | 2 | 7 | . | 1 | _ | M | - - - - | 4 . 0 C - - | 92 | 132M |
| 110 | 8.75 | 338 | 1.91 | 6233 | | | | | | 9 | . | 0 | | | | | | |
| 98 | 9.81 | 380 | 1.82 | 6303 | | | | | | 1 | 0 | . | | | | | | |
| 87 | 11.01 | 426 | 1.68 | 6356 | | | | | | 1 | 2 | . | | | | | | |
| 69 | 13.98 | 542 | 1.49 | 6407 | | | | | | 1 | 4 | . | | | | | | |
| 61 | 15.85 | 614 | 1.34 | 6379 | | | | | | 1 | 6 | . | | | | | | |
| 51 | 18.90 | 732 | 1.15 | 6273 | | | | | | 2 | 0 | . | | | | | | |
| 44 | 21.76 | 842 | 0.88 | 6120 | | | | | | 2 | 2 | . | | | | | | |
| 38 | 25.31 | 978 | 0.86 | 5870 | | | | | | 2 | 5 | . | | | | | | |
| 34 | 28.32 | 1093 | 0.81 | 5620 | | | | | | 2 | 8 | . | | | | | | |
| 142 | 6.77 | 261 | 2.16 | 8352 | F | 0 | 7 | 2 | 2 | 7 | . | 1 | _ | M | - - - - | 4 . 0 C - - | 111 | 132M |
| 102 | 9.38 | 362 | 2.16 | 8951 | | | | | | 9 | . | 0 | | | | | | |
| 91 | 10.54 | 407 | 2.16 | 9162 | | | | | | 1 | 0 | . | | | | | | |
| 83 | 11.59 | 448 | 2.16 | 9287 | | | | | | 1 | 2 | . | | | | | | |
| 63 | 15.13 | 587 | 2.16 | 9672 | | | | | | 1 | 4 | . | | | | | | |
| 56 | 17.21 | 667 | 2.01 | 9864 | | | | | | 1 | 6 | . | | | | | | |
| 46 | 20.89 | 807 | 1.78 | 9969 | | | | | | 2 | 0 | . | | | | | | |
| 42 | 22.98 | 886 | 1.67 | 10062 | | | | | | 2 | 2 | . | | | | | | |
| 36 | 26.41 | 1018 | 1.49 | 10066 | | | | | | 2 | 5 | . | | | | | | |
| 32 | 29.95 | 1155 | 1.38 | 10036 | | | | | | 2 | 8 | . | | | | | | |
| 29 | 33.03 | 1277 | 1.26 | 9947 | | | | | | 3 | 2 | . | | | | | | |
| 25 | 37.83 | 1458 | 1.14 | 9761 | | | | | | 3 | 6 | . | | | | | | |
| 22 | 42.77 | 1648 | 1.02 | 9530 | | | | | | 4 | 0 | . | | | | | | |
| 19 | 49.59 | 1906 | 0.91 | 9110 | | | | | | 5 | 0 | . | | | | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

4.0 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 6 POLE | 61 | 15.76 | 611 | 3.55 | 12700 | F 0 8 2 2 1 4 . - M - - - 4 . 0 C - - | 165 | 132M |
| | 54 | 17.70 | 684 | 3.30 | 13000 | 1 6 . | | |
| | 44 | 21.70 | 841 | 2.88 | 13500 | 2 0 . | | |
| | 39 | 24.45 | 944 | 2.62 | 13806 | 2 2 . | | |
| | 34 | 28.46 | 1098 | 2.38 | 14156 | 2 5 . | | |
| | 30 | 31.57 | 1217 | 2.15 | 14345 | 2 8 . | | |
| | 28 | 34.55 | 1333 | 1.93 | 14424 | 3 2 . | | |
| | 25 | 39.09 | 1511 | 1.79 | 14629 | 3 6 . | | |
| | 22 | 44.13 | 1702 | 1.63 | 14709 | 4 0 . | | |
| | 18 | 53.49 | 2064 | 1.39 | 14745 | 5 0 . | | |
| | 15 | 62.38 | 2403 | 1.23 | 14671 | 5 6 . | | |
| | 14 | 68.52 | 2631 | 1.14 | 14550 | 6 3 . | | |
| | 11 | 83.97 | 3235 | 0.95 | 14000 | 7 1 . | | |
| | 10 | 91.70 | 3525 | 0.88 | 13700 | 9 0 . | | |
| | 34 | 28.41 | 1101 | 3.85 | 29900 | F 0 9 2 1 2 8 . - M - - - 4 . 0 C - - | | |
| | 30 | 31.56 | 1220 | 3.47 | 29900 | 3 2 . | | |
| | 26 | 36.69 | 1413 | 3.05 | 29877 | 3 6 . | | |
| | 24 | 40.76 | 1567 | 2.75 | 29875 | 4 0 . | | |
| | 22 | 44.58 | 1721 | 2.46 | 29875 | 4 5 . | | |
| | 20 | 49.22 | 1901 | 2.23 | 29841 | 5 0 . | | |
| | 17 | 57.58 | 2218 | 1.94 | 29832 | 5 6 . | | |
| | 15 | 63.56 | 2452 | 1.76 | 29832 | 6 3 . | | |
| | 14 | 67.71 | 2607 | 1.51 | 29816 | 7 1 . | | |
| | 13 | 76.14 | 2922 | 1.25 | 29778 | 8 0 . | | |
| | 11 | 87.44 | 3360 | 1.28 | 29743 | 9 0 . | | |
| | 10 | 98.32 | 3772 | 1.14 | 29717 | 1 0 0 | | |
| 21 | 44.43 | 1727 | 3.71 | 43400 | F 1 0 2 1 4 5 . - M - - - 4 . 0 C - - | 310 | 132M | |
| | 19 | 51.19 | 1994 | 3.21 | 43400 | 5 0 . | | |
| | 17 | 55.97 | 2175 | 3.33 | 43400 | 5 6 . | | |
| | 15 | 64.49 | 2491 | 2.91 | 43400 | 6 3 . | | |
| | 14 | 69.24 | 2682 | 2.30 | 43400 | 7 1 . | | |
| | 13 | 74.39 | 2877 | 1.95 | 43400 | 8 0 . | | |
| | 11 | 87.21 | 3366 | 2.15 | 43400 | 9 0 . | | |
| | 10 | 93.70 | 3615 | 1.95 | 43400 | 1 0 0 | | |
| | 9.3 | 102.80 | 3953 | 1.62 | 43300 | F 1 0 3 1 1 0 0 - M - - - 4 . 0 C - - | | |
| | 8.4 | 114.24 | 4391 | 1.46 | 43300 | 1 1 2 | | |
| | 7.4 | 129.50 | 4957 | 1.46 | 43300 | 1 2 5 | | |
| | 6.6 | 143.90 | 5510 | 1.32 | 43300 | 1 4 0 | | |
| | 5.9 | 162.91 | 6261 | 1.02 | 43300 | 1 6 0 | | |
| | 5.1 | 187.70 | 7208 | 0.89 | 43200 | 1 8 0 | | |
| | 4.7 | 205.21 | 7857 | 0.92 | 43200 | 2 0 0 | | |
| | 4.0 | 236.45 | 9025 | 0.80 | 43100 | 2 2 5 | | |
| | 4.3 | 225.49 | 8973 | 1.13 | 56000 | F 1 1 3 1 2 2 5 - M - - - 4 . 0 C - - | | |
| | 3.7 | 256.85 | 10220 | 1.04 | 56000 | 2 5 0 | | |
| | 3.5 | 277.27 | 11033 | 0.92 | 56000 | 2 8 0 | | |
| | 3.0 | 315.83 | 12567 | 0.84 | 56000 | 3 1 5 | | |
| | 4.2 | 229.54 | 9134 | 1.81 | 62200 | F 1 2 3 1 2 2 5 - M - - - 4 . 0 C - - | | |
| | 3.9 | 247.92 | 9865 | 1.67 | 62200 | 2 5 0 | | |
| | 3.4 | 285.33 | 11354 | 1.46 | 62200 | 2 8 0 | | |
| | 3.1 | 308.18 | 12263 | 1.34 | 62200 | 3 1 5 | | |
| 5.5 kW | 300 | 4.84 | 169 | 2.33 | 3186 | F 0 5 2 2 5 . 0 - M - - - 5 . 5 A - - | 72 | 132S |
| | 213 | 6.81 | 240 | 2.15 | 3150 | 6 . 3 | | |
| | 190 | 7.63 | 268 | 2.02 | 3108 | 7 . 1 | | |
| | 169 | 8.56 | 300 | 1.85 | 3041 | 9 . 0 | | |
| | 133 | 10.87 | 382 | 1.52 | 2818 | 1 0 . | | |
| | 118 | 12.33 | 433 | 1.36 | 2642 | 1 2 . | | |
| | 99 | 14.70 | 516 | 1.17 | 2320 | 1 4 . | | |
| | 86 | 16.93 | 595 | 0.97 | 1981 | 1 6 . | | |
| | 74 | 19.69 | 691 | 0.91 | 1526 | 2 0 . | | |
| | 66 | 22.03 | 772 | 0.83 | 1118 | 2 2 . | | |
| | 233 | 6.22 | 218 | 2.15 | 5124 | F 0 6 2 2 7 . 1 - M - - - 5 . 5 A - - | | |
| | 166 | 8.75 | 308 | 1.85 | 5357 | 9 . 0 | | |
| | 148 | 9.81 | 345 | 1.77 | 5408 | 1 0 . | | |
| | 132 | 11.01 | 387 | 1.67 | 5445 | 1 2 . | | |
| 4 POLE | 104 | 13.98 | 492 | 1.48 | 5458 | 1 4 . | 86 | 132S |
| | 91 | 15.85 | 558 | 1.39 | 5418 | 1 6 . | | |
| | 77 | 18.90 | 666 | 1.26 | 5299 | 2 0 . | | |
| | 67 | 21.76 | 767 | 0.97 | 5134 | 2 2 . | | |
| | 57 | 25.31 | 892 | 0.94 | 4888 | 2 5 . | | |
| | 51 | 28.32 | 995 | 0.88 | 4649 | 2 8 . | | |
| | 48 | 30.18 | 1063 | 0.84 | 4476 | 3 2 . | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

5.5 kW

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-----------------|--------|------------------|-------------------|------------------|---|-------------------------|---------------------------------|----------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry Spaces to be filled when entering order | 1 Through 20 | Weight of base mount unit | Motor Sizes |
| 214 | 6.77 | 236 | 2.38 | 7240 | F 0 7 2 2 7 . 1 | _ M _ _ _ _ 5 . 5 A - - | 105 | 132S |
| 155 | 9.38 | 328 | 2.38 | 7741 | 9 . 0 | | | |
| 138 | 10.54 | 369 | 2.38 | 7905 | 1 0 . | | | |
| 125 | 11.59 | 406 | 2.38 | 8025 | 1 2 . | | | |
| 96 | 15.13 | 531 | 2.18 | 8332 | 1 4 . | | | |
| 84 | 17.21 | 604 | 2.02 | 8445 | 1 6 . | | | |
| 69 | 20.89 | 737 | 1.79 | 8591 | 2 0 . | | | |
| 63 | 22.98 | 805 | 1.68 | 8550 | 2 2 . | | | |
| 55 | 26.41 | 926 | 1.50 | 8576 | 2 5 . | | | |
| 48 | 29.95 | 1049 | 1.39 | 8508 | 2 8 . | | | |
| 44 | 33.03 | 1161 | 1.27 | 8417 | 3 2 . | | | |
| 38 | 37.83 | 1331 | 1.15 | 8226 | 3 6 . | | | |
| 34 | 42.77 | 1506 | 1.03 | 7987 | 4 0 . | | | |
| 29 | 49.59 | 1734 | 0.91 | 7570 | 5 0 . | | | |
| 92 | 15.76 | 555 | 3.56 | 11000 | F 0 8 2 2 1 4 . _ | M _ _ _ _ 5 . 5 A - - | 159 | 132S |
| 82 | 17.70 | 622 | 3.33 | 11300 | 1 6 . | | | |
| 67 | 21.70 | 759 | 2.91 | 11666 | 2 0 . | | | |
| 59 | 24.45 | 861 | 2.64 | 11911 | 2 2 . | | | |
| 51 | 28.46 | 1003 | 2.38 | 12166 | 2 5 . | | | |
| 46 | 31.57 | 1109 | 2.22 | 12350 | 2 8 . | | | |
| 42 | 34.55 | 1217 | 2.04 | 12413 | 3 2 . | | | |
| 37 | 39.09 | 1372 | 1.87 | 12536 | 3 6 . | | | |
| 33 | 44.13 | 1552 | 1.69 | 12625 | 4 0 . | | | |
| 27 | 53.49 | 1872 | 1.43 | 12566 | 5 0 . | | | |
| 23 | 62.38 | 2184 | 1.25 | 12443 | 5 6 . | | | |
| 21 | 68.52 | 2398 | 1.17 | 12292 | 6 3 . | | | |
| 17 | 83.97 | 2944 | 0.97 | 11740 | 7 1 . | | | |
| 16 | 91.70 | 3211 | 0.90 | 11419 | 9 0 . | | | |
| 13 | 114.15 | 3950 | 0.86 | 10373 | F 0 8 3 2 1 0 0 _ | M _ _ _ _ 5 . 5 A - - | 161 | 132S |
| 40 | 36.69 | 1288 | 3.35 | 29900 | F 0 9 2 1 3 6 . _ | M _ _ _ _ 5 . 5 A - - | 206 | 132S |
| 36 | 40.76 | 1428 | 3.02 | 29872 | 4 0 . | | | |
| 33 | 44.58 | 1565 | 2.71 | 29868 | 4 5 . | | | |
| 29 | 49.22 | 1727 | 2.45 | 29872 | 5 0 . | | | |
| 25 | 57.58 | 2026 | 2.13 | 29862 | 5 6 . | | | |
| 23 | 63.56 | 2236 | 1.93 | 29844 | 6 3 . | | | |
| 21 | 67.71 | 2371 | 1.52 | 29859 | 7 1 . | | | |
| 19 | 76.14 | 2661 | 1.35 | 29805 | 8 0 . | | | |
| 17 | 87.44 | 3058 | 1.41 | 29758 | 9 0 . | | | |
| 15 | 98.32 | 3430 | 1.26 | 29775 | 1 0 0 | | | |
| 28 | 51.19 | 1805 | 3.55 | 43400 | F 1 0 2 1 5 0 . _ | M _ _ _ _ 5 . 5 A - - | 303 | 132S |
| 26 | 55.97 | 1964 | 3.69 | 43400 | 5 6 . | | | |
| 22 | 64.49 | 2265 | 3.20 | 43400 | 6 3 . | | | |
| 21 | 69.24 | 2423 | 2.55 | 43400 | 7 1 . | | | |
| 19 | 74.39 | 2614 | 2.15 | 43400 | 8 0 . | | | |
| 17 | 87.21 | 3043 | 2.38 | 43400 | 9 0 . | | | |
| 15 | 93.70 | 3281 | 2.15 | 43400 | 1 0 0 | | | |
| 14 | 102.80 | 3571 | 1.78 | 43400 | F 1 0 3 1 1 0 0 _ | M _ _ _ _ 5 . 5 A - - | 323 | 132S |
| 13 | 114.24 | 3968 | 1.61 | 43400 | 1 1 2 | | | |
| 11 | 129.50 | 4480 | 1.62 | 43400 | 1 2 5 | | | |
| 10 | 143.90 | 4978 | 1.46 | 43400 | 1 4 0 | | | |
| 8.9 | 162.91 | 5659 | 1.13 | 43400 | 1 6 0 | | | |
| 7.7 | 187.70 | 6518 | 0.98 | 43400 | 1 8 0 | | | |
| 7.1 | 205.21 | 7095 | 1.02 | 43200 | 2 0 0 | | | |
| 6.1 | 236.45 | 8171 | 0.89 | 43100 | 2 2 5 | | | |
| 13 | 110.94 | 4089 | 2.47 | 56000 | F 1 1 3 1 1 1 2 _ | M _ _ _ _ 5 . 5 K - - | 354 | 112M |
| 11 | 126.37 | 4568 | 2.28 | 56000 | 1 2 5 | | | |
| 10 | 140.77 | 5189 | 1.95 | 56000 | 1 4 0 | | | |
| 8.9 | 160.35 | 5910 | 1.80 | 56000 | 1 6 0 | | | |
| 8.0 | 178.07 | 6564 | 1.54 | 56000 | 1 8 0 | | | |
| 7.0 | 202.84 | 7477 | 1.42 | 56000 | 2 0 0 | | | |
| 6.3 | 225.49 | 8311 | 1.22 | 56000 | 2 2 5 | | | |
| 5.5 | 256.85 | 9467 | 1.12 | 56000 | 2 5 0 | | | |
| 5.1 | 277.27 | 10220 | 0.99 | 56000 | 2 8 0 | | | |
| 4.5 | 315.83 | 11641 | 0.91 | 56000 | 3 1 5 | | | |
| 11 | 126.37 | 4578 | 2.32 | 56000 | F 1 1 3 1 1 2 5 _ | M _ _ _ _ 5 . 5 A - - | 360 | 132S |
| 10 | 140.77 | 5099 | 1.98 | 56000 | 1 4 0 | | | |
| 9.0 | 160.35 | 5809 | 1.83 | 56000 | 1 6 0 | | | |
| 8.1 | 178.07 | 6450 | 1.57 | 56000 | 1 8 0 | | | |
| 7.1 | 202.84 | 7348 | 1.44 | 56000 | 2 0 0 | | | |
| 6.4 | 225.49 | 8168 | 1.24 | 56000 | 2 2 5 | | | |
| 5.6 | 256.85 | 9304 | 1.14 | 56000 | 2 5 0 | | | |
| 5.2 | 277.27 | 10044 | 1.01 | 56000 | 2 8 0 | | | |
| 4.6 | 315.83 | 11441 | 0.93 | 56000 | 3 1 5 | | | |
| 8.0 | 181.27 | 6566 | 2.50 | 62200 | F 1 2 3 1 1 8 0 _ | M _ _ _ _ 5 . 5 A - - | 546 | 132S |
| 7.4 | 195.79 | 7092 | 2.31 | 62200 | 2 0 0 | | | |
| 6.3 | 229.54 | 8315 | 1.98 | 62200 | 2 2 5 | | | |
| 5.8 | 247.92 | 8981 | 1.82 | 62200 | 2 5 0 | | | |
| 5.1 | 285.33 | 10336 | 1.60 | 62200 | 2 8 0 | | | |
| 4.7 | 308.18 | 11164 | 1.47 | 62200 | 3 1 5 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

5.5 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 6 POLE | 197 | 4.84 | 258 | 1.53 | 3126 | F 0 5 2 2 5 . 0 - M - - - - 5 . 5 C - - | 86 | 132M |
| | 140 | 6.81 | 363 | 1.42 | 2874 | 6 . 3 | | |
| | 125 | 7.63 | 407 | 1.36 | 2737 | 7 . 1 | | |
| | 112 | 8.56 | 457 | 1.22 | 2560 | 9 . 0 | | |
| | 88 | 10.87 | 581 | 1.06 | 2051 | 1 0 . | | |
| | 77 | 12.33 | 659 | 0.95 | 1698 | 1 2 . | | |
| | 65 | 14.70 | 785 | 0.82 | 1070 | 1 4 . | | |
| | 153 | 6.22 | 333 | 1.53 | 5390 | F 0 6 2 2 7 . 1 - M - - - - 5 . 5 C - - | | |
| | 109 | 8.75 | 468 | 1.39 | 5461 | 9 . 0 | | |
| | 97 | 9.81 | 525 | 1.31 | 5440 | 1 0 . | | |
| 6 POLE | 87 | 11.01 | 588 | 1.22 | 5387 | 1 2 . | 100 | 132M |
| | 68 | 13.98 | 749 | 1.08 | 5176 | 1 4 . | | |
| | 60 | 15.85 | 849 | 0.97 | 4984 | 1 6 . | | |
| | 51 | 18.90 | 1012 | 0.83 | 4610 | 2 0 . | | |
| | 141 | 6.77 | 361 | 1.56 | 7854 | F 0 7 2 2 7 . 1 - M - - - - 5 . 5 C - - | | |
| | 102 | 9.38 | 501 | 1.56 | 8260 | 9 . 0 | | |
| | 91 | 10.54 | 563 | 1.56 | 8381 | 1 0 . | | |
| | 82 | 11.59 | 619 | 1.56 | 8444 | 1 2 . | | |
| | 63 | 15.13 | 811 | 1.56 | 8565 | 1 4 . | | |
| | 56 | 17.21 | 922 | 1.45 | 8585 | 1 6 . | | |
| 6 POLE | 46 | 20.89 | 1116 | 1.29 | 8443 | 2 0 . | 119 | 132M |
| | 42 | 22.98 | 1224 | 1.21 | 8364 | 2 2 . | | |
| | 36 | 26.41 | 1407 | 1.08 | 8126 | 2 5 . | | |
| | 32 | 29.95 | 1596 | 1.00 | 7834 | 2 8 . | | |
| | 29 | 33.03 | 1766 | 0.91 | 7530 | 3 2 . | | |
| | 25 | 37.83 | 2015 | 0.83 | 7000 | 3 6 . | | |
| | 137 | 6.96 | 371 | 3.15 | 10000 | F 0 8 2 2 7 . 1 - M - - - - 5 . 5 C - - | 173 | 132M |
| | 97 | 9.87 | 527 | 3.15 | 10900 | 9 . 0 | | |
| | 87 | 10.96 | 584 | 3.15 | 11100 | 1 0 . | | |
| | 78 | 12.19 | 653 | 2.98 | 11331 | 1 2 . | | |
| 6 POLE | 61 | 15.76 | 844 | 2.57 | 11837 | 1 4 . | | |
| | 54 | 17.70 | 946 | 2.39 | 12032 | 1 6 . | | |
| | 44 | 21.70 | 1163 | 2.08 | 12315 | 2 0 . | | |
| | 39 | 24.45 | 1305 | 1.90 | 12465 | 2 2 . | | |
| | 34 | 28.46 | 1518 | 1.72 | 12590 | 2 5 . | | |
| | 30 | 31.57 | 1682 | 1.56 | 12612 | 2 8 . | | |
| | 28 | 34.55 | 1842 | 1.40 | 12528 | 3 2 . | | |
| | 24 | 39.09 | 2089 | 1.30 | 12486 | 3 6 . | | |
| | 22 | 44.13 | 2353 | 1.18 | 12301 | 4 0 . | | |
| | 18 | 53.49 | 2853 | 1.01 | 11833 | 5 0 . | | |
| 6 POLE | 15 | 62.38 | 3321 | 0.89 | 11266 | 5 6 . | 220 | 132M |
| | 14 | 68.52 | 3637 | 0.82 | 10800 | 6 3 . | | |
| | 34 | 28.41 | 1522 | 2.79 | 29870 | F 0 9 2 1 2 8 . - M - - - - 5 . 5 C - - | | |
| | 30 | 31.56 | 1686 | 2.51 | 29872 | 3 2 . | | |
| | 26 | 36.69 | 1953 | 2.21 | 29839 | 3 6 . | | |
| | 23 | 40.76 | 2166 | 1.99 | 29837 | 4 0 . | | |
| | 21 | 44.58 | 2379 | 1.78 | 29837 | 4 5 . | | |
| | 19 | 49.22 | 2628 | 1.61 | 29789 | 5 0 . | | |
| | 17 | 57.58 | 3066 | 1.41 | 29775 | 5 6 . | | |
| | 15 | 63.56 | 3389 | 1.27 | 29775 | 6 3 . | | |
| 6 POLE | 14 | 67.71 | 3603 | 1.10 | 29766 | 7 1 . | 319 | 132M |
| | 13 | 76.14 | 4039 | 0.91 | 29704 | 8 0 . | | |
| | 11 | 87.44 | 4645 | 0.93 | 29650 | 9 0 . | | |
| | 10 | 98.32 | 5214 | 0.83 | 29607 | 1 0 0 | | |
| | 31 | 31.16 | 1660 | 3.85 | 43300 | F 1 0 2 1 3 2 . - M - - - - 5 . 5 C - - | | |
| | 27 | 35.32 | 1872 | 3.87 | 43300 | 3 6 . | | |
| | 24 | 39.25 | 2087 | 3.47 | 43300 | 4 0 . | | |
| | 22 | 44.63 | 2362 | 2.71 | 43300 | 4 5 . | | |
| | 19 | 51.19 | 2728 | 2.35 | 43300 | 5 0 . | | |
| | 17 | 55.97 | 2975 | 2.44 | 43300 | 5 6 . | | |
| 6 POLE | 15 | 64.49 | 3408 | 2.13 | 43300 | 6 3 . | 339 | 132M |
| | 14 | 69.24 | 3668 | 1.68 | 43300 | 7 1 . | | |
| | 13 | 74.39 | 3935 | 1.43 | 43300 | 8 0 . | | |
| | 11 | 87.21 | 4604 | 1.57 | 43300 | 9 0 . | | |
| | 10 | 93.70 | 4945 | 1.43 | 43300 | 1 0 0 | | |
| | 9.3 | 102.80 | 5407 | 1.18 | 43200 | F 1 0 3 1 1 0 0 - M - - - - 5 . 5 C - - | 374 | 132M |
| | 8.4 | 114.24 | 6006 | 1.07 | 43200 | 1 1 2 | | |
| | 7.4 | 129.50 | 6781 | 1.07 | 43200 | 1 2 5 | | |
| | 6.7 | 143.90 | 7537 | 0.96 | 43200 | 1 4 0 | | |
| | 4.2 | 225.49 | 12402 | 0.82 | 56000 | F 1 1 3 1 1 0 0 - M - - - - 5 . 5 C - - | | |
| NOTE | 4.2 | 229.54 | 12625 | 1.31 | 62200 | F 1 2 3 1 2 2 5 - M - - - - 5 . 5 C - - | 560 | 132M |
| | 3.9 | 247.92 | 13636 | 1.21 | 62200 | 2 5 0 | | |
| | 3.3 | 285.33 | 15693 | 1.05 | 62200 | 2 8 0 | | |
| | 3.1 | 308.18 | 16950 | 0.97 | 62200 | 3 1 5 | | |

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | [1] Through [20] | Weight of base mount unit | Motor Sizes |
| 300 | 4.84 | 230 | 1.71 | 2661 | F 0 5 2 2 5 . 0 | _ M - - - - 7 . 5 A - - | 80 | 132M |
| 213 | 6.81 | 327 | 1.57 | 2415 | 6 . 3 | | | |
| 190 | 7.63 | 366 | 1.48 | 2283 | 7 . 1 | | | |
| 169 | 8.56 | 409 | 1.36 | 2115 | 9 . 0 | | | |
| 133 | 10.87 | 521 | 1.11 | 1642 | 1 0 . | | | |
| 118 | 12.33 | 591 | 1.00 | 1310 | 1 2 . | | | |
| 99 | 14.70 | 704 | 0.86 | 732 | 1 4 . | | | |
| 233 | 6.22 | 297 | 1.57 | 4640 | F 0 6 2 2 7 . 1 | _ M - - - - 7 . 5 A - - | 94 | 132M |
| 166 | 8.75 | 421 | 1.36 | 4675 | 9 . 0 | | | |
| 148 | 9.81 | 470 | 1.30 | 4647 | 1 0 . | | | |
| 132 | 11.01 | 529 | 1.23 | 4588 | 1 2 . | | | |
| 104 | 13.98 | 671 | 1.09 | 4372 | 1 4 . | | | |
| 91 | 15.85 | 761 | 1.02 | 4186 | 1 6 . | | | |
| 77 | 18.90 | 908 | 0.92 | 3830 | 2 0 . | | | |
| 214 | 6.77 | 322 | 1.75 | 6800 | F 0 7 2 2 7 . 1 | _ M - - - - 7 . 5 A - - | 113 | 132M |
| 155 | 9.38 | 448 | 1.75 | 7130 | 9 . 0 | | | |
| 138 | 10.54 | 503 | 1.75 | 7220 | 1 0 . | | | |
| 125 | 11.59 | 554 | 1.75 | 7272 | 1 2 . | | | |
| 96 | 15.13 | 725 | 1.60 | 7351 | 1 4 . | | | |
| 84 | 17.21 | 824 | 1.48 | 7330 | 1 6 . | | | |
| 69 | 20.89 | 1005 | 1.31 | 7225 | 2 0 . | | | |
| 63 | 22.98 | 1098 | 1.23 | 7070 | 2 2 . | | | |
| 55 | 26.41 | 1263 | 1.10 | 6864 | 2 5 . | | | |
| 48 | 29.95 | 1431 | 1.02 | 6574 | 2 8 . | | | |
| 44 | 33.03 | 1584 | 0.93 | 6290 | 3 2 . | | | |
| 38 | 37.83 | 1815 | 0.84 | 5790 | 3 6 . | | | |
| 208 | 6.96 | 333 | 3.51 | 8720 | F 0 8 2 2 7 . 1 | _ M - - - - 7 . 5 A - - | 167 | 132M |
| 147 | 9.87 | 473 | 3.40 | 9420 | 9 . 0 | | | |
| 132 | 10.96 | 523 | 3.23 | 9620 | 1 0 . | | | |
| 119 | 12.19 | 585 | 3.04 | 9820 | 1 2 . | | | |
| 92 | 15.76 | 757 | 2.61 | 10237 | 1 4 . | | | |
| 82 | 17.70 | 848 | 2.44 | 10437 | 1 6 . | | | |
| 67 | 21.70 | 1035 | 2.13 | 10618 | 2 0 . | | | |
| 59 | 24.45 | 1174 | 1.93 | 10727 | 2 2 . | | | |
| 51 | 28.46 | 1368 | 1.75 | 10788 | 2 5 . | | | |
| 46 | 31.57 | 1512 | 1.63 | 10817 | 2 8 . | | | |
| 42 | 34.55 | 1660 | 1.49 | 10745 | 3 2 . | | | |
| 37 | 39.09 | 1871 | 1.37 | 10645 | 3 6 . | | | |
| 33 | 44.13 | 2116 | 1.24 | 10485 | 4 0 . | | | |
| 27 | 53.49 | 2554 | 1.05 | 10000 | 5 0 . | | | |
| 23 | 62.38 | 2978 | 0.92 | 9440 | 5 6 . | | | |
| 21 | 68.52 | 3271 | 0.86 | 9000 | 6 3 . | | | |
| 51 | 28.41 | 1364 | 3.11 | 29888 | F 0 9 2 1 2 8 . | _ M - - - - 7 . 5 A - - | 214 | 132M |
| 46 | 31.56 | 1514 | 2.80 | 29876 | 3 2 . | | | |
| 40 | 36.69 | 1756 | 2.45 | 29863 | 3 6 . | | | |
| 36 | 40.76 | 1947 | 2.21 | 29833 | 4 0 . | | | |
| 33 | 44.58 | 2134 | 1.99 | 29827 | 4 5 . | | | |
| 29 | 49.22 | 2355 | 1.80 | 29836 | 5 0 . | | | |
| 25 | 57.58 | 2762 | 1.56 | 29812 | 5 6 . | | | |
| 23 | 63.56 | 3049 | 1.41 | 29800 | 6 3 . | | | |
| 21 | 67.71 | 3233 | 1.11 | 29827 | 7 1 . | | | |
| 19 | 76.14 | 3629 | 0.99 | 29748 | 8 0 . | | | |
| 17 | 87.44 | 4170 | 1.03 | 29672 | 9 0 . | | | |
| 15 | 98.32 | 4678 | 0.92 | 29700 | 1 0 0 | | | |
| 41 | 35.32 | 1694 | 3.81 | 43300 | F 1 0 2 1 3 6 . | _ M - - - - 7 . 5 A - - | 313 | 132M |
| 37 | 39.25 | 1879 | 3.56 | 43300 | 4 0 . | | | |
| 33 | 44.63 | 2133 | 3.00 | 43300 | 4 5 . | | | |
| 28 | 51.19 | 2461 | 2.60 | 43300 | 5 0 . | | | |
| 26 | 55.97 | 2678 | 2.71 | 43300 | 5 6 . | | | |
| 22 | 64.49 | 3089 | 2.35 | 43300 | 6 3 . | | | |
| 21 | 69.24 | 3305 | 1.87 | 43300 | 7 1 . | | | |
| 19 | 74.39 | 3565 | 1.57 | 43300 | 8 0 . | | | |
| 17 | 87.21 | 4150 | 1.75 | 43300 | 9 0 . | | | |
| 15 | 93.70 | 4474 | 1.57 | 43300 | 1 0 0 | | | |
| 14 | 102.80 | 4870 | 1.31 | 43200 | F 1 0 3 1 1 0 0 . | _ M - - - - 7 . 5 A - - | 313 | 132M |
| 13 | 114.24 | 5411 | 1.18 | 43200 | 1 1 2 | | | |
| 11 | 129.50 | 6109 | 1.18 | 43200 | 1 2 5 | | | |
| 10 | 143.90 | 6788 | 1.07 | 43200 | 1 4 0 | | | |
| 8.9 | 162.91 | 7717 | 0.83 | 43200 | 1 6 0 | | | |
| 16 | 90.56 | 4473 | 2.26 | 56000 | F 1 1 3 1 9 0 . | _ M - - - - 7 . 5 A - - | 368 | 132M |
| 14 | 103.15 | 5095 | 2.08 | 56000 | 1 0 0 | | | |
| 13 | 110.94 | 5480 | 1.85 | 56000 | 1 1 2 | | | |
| 11 | 126.37 | 6242 | 1.70 | 56000 | 1 2 5 | | | |
| 10 | 140.77 | 6954 | 1.46 | 56000 | 1 4 0 | | | |
| 9.0 | 160.35 | 7921 | 1.34 | 56000 | 1 6 0 | | | |
| 8.1 | 178.07 | 8796 | 1.15 | 56000 | 1 8 0 | | | |
| 7.1 | 202.84 | 10020 | 1.06 | 56000 | 2 0 0 | | | |
| 6.4 | 225.49 | 11138 | 0.91 | 56000 | 2 2 5 | | | |
| 5.6 | 256.85 | 12688 | 0.84 | 56000 | 2 5 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

7.5 kW

4 POLE

7.5 kW

6 POLE

| N2 R/MIN | i | M2 Nm | Fm | N | Unit Designation | | Kg | |
|-----------------|--------|------------------|-------------------|------------------|--|-------|---------------------------------|----------------|
| Output Speed | Ratio | Output Torque | Service Factor | Overhung Load | Column Entry 1 Through 20 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 10 | 139.88 | 6910 | 2.37 | 62200 | F 1 2 3 1 1 4 0 - M - - - - 7 . 5 A - - | | 554 | 132M |
| 9.6 | 151.08 | 7463 | 2.19 | 62200 | | 1 6 0 | | |
| 8.0 | 181.27 | 8954 | 1.83 | 62200 | | 1 8 0 | | |
| 7.4 | 195.79 | 9671 | 1.69 | 62200 | | 2 0 0 | | |
| 6.3 | 229.54 | 11338 | 1.45 | 62200 | | 2 2 5 | | |
| 5.8 | 247.92 | 12246 | 1.34 | 62200 | | 2 5 0 | | |
| 5.1 | 285.33 | 14094 | 1.17 | 62200 | | 2 8 0 | | |
| 4.7 | 308.18 | 15223 | 1.08 | 62200 | | 3 1 5 | | |
| 143 | 6.77 | 484 | 1.17 | 7190 | F 0 7 2 2 7 . 1 - M - - - - 7 . 5 C - - | | 153 | 160M |
| 103 | 9.38 | 672 | 1.17 | 7340 | | 9 . 0 | | |
| 92 | 10.54 | 755 | 1.17 | 7340 | | 1 0 . | | |
| 84 | 11.59 | 831 | 1.17 | 7320 | | 1 2 . | | |
| 64 | 15.13 | 1089 | 1.17 | 7090 | | 1 4 . | | |
| 56 | 17.21 | 1238 | 1.08 | 6880 | | 1 6 . | | |
| 139 | 6.96 | 499 | 2.34 | 9501 | F 0 8 2 2 7 . 1 - M - - - - 7 . 5 C - - | | 207 | 160M |
| 98 | 9.87 | 708 | 2.34 | 10170 | | 9 . 0 | | |
| 89 | 10.96 | 784 | 2.34 | 10297 | | 1 0 . | | |
| 80 | 12.19 | 877 | 2.22 | 10439 | | 1 2 . | | |
| 62 | 15.76 | 1134 | 1.91 | 10687 | | 1 4 . | | |
| 55 | 17.70 | 1270 | 1.78 | 10742 | | 1 6 . | | |
| 45 | 21.70 | 1561 | 1.55 | 10735 | | 2 0 . | | |
| 40 | 24.45 | 1753 | 1.41 | 10678 | | 2 2 . | | |
| 34 | 28.46 | 2039 | 1.28 | 10503 | | 2 5 . | | |
| 31 | 31.57 | 2258 | 1.16 | 10302 | | 2 8 . | | |
| 28 | 34.55 | 2474 | 1.04 | 10000 | | 3 2 . | | |
| 25 | 39.09 | 2805 | 0.97 | 9630 | | 3 6 . | | |
| 22 | 44.13 | 3160 | 0.88 | 9090 | | 4 0 . | | |
| 34 | 28.41 | 2043 | 2.07 | 29832 | F 0 9 2 1 2 8 . - M - - - - 7 . 5 C - - | | 261 | 160M |
| 31 | 31.56 | 2264 | 1.87 | 29836 | | 3 2 . | | |
| 26 | 36.69 | 2622 | 1.64 | 29789 | | 3 6 . | | |
| 24 | 40.76 | 2908 | 1.48 | 29787 | | 4 0 . | | |
| 22 | 44.58 | 3195 | 1.33 | 29787 | | 4 5 . | | |
| 20 | 49.22 | 3528 | 1.20 | 29720 | | 5 0 . | | |
| 17 | 57.58 | 4117 | 1.05 | 29700 | | 5 6 . | | |
| 15 | 63.56 | 4550 | 0.95 | 29700 | | 6 3 . | | |
| 14 | 67.71 | 4838 | 0.82 | 29700 | | 7 1 . | | |
| 47 | 20.46 | 1479 | 3.94 | 43300 | F 1 0 2 1 2 0 . - M - - - - 7 . 5 C - - | | 337 | 160M |
| 42 | 22.76 | 1643 | 3.77 | 43300 | | 2 2 . | | |
| 37 | 25.77 | 1859 | 3.48 | 43300 | | 2 5 . | | |
| 34 | 28.01 | 2031 | 3.15 | 43300 | | 2 8 . | | |
| 31 | 31.16 | 2252 | 2.84 | 43300 | | 3 2 . | | |
| 27 | 35.32 | 2539 | 2.85 | 43300 | | 3 6 . | | |
| 24 | 39.25 | 2832 | 2.56 | 43300 | | 4 0 . | | |
| 22 | 44.63 | 3204 | 2.00 | 43300 | | 4 5 . | | |
| 19 | 51.19 | 3701 | 1.73 | 43300 | | 5 0 . | | |
| 17 | 55.97 | 4036 | 1.80 | 43300 | | 5 6 . | | |
| 15 | 64.49 | 4623 | 1.57 | 43300 | | 6 3 . | | |
| 14 | 69.24 | 4976 | 1.24 | 43300 | | 7 1 . | | |
| 13 | 74.39 | 5338 | 1.05 | 43300 | | 8 0 . | | |
| 11 | 87.21 | 6246 | 1.16 | 43300 | | 9 0 . | | |
| 10 | 93.70 | 6709 | 1.05 | 43300 | | 1 0 0 | | |
| 19 | 51.85 | 3829 | 2.02 | 49100 | F 1 1 2 1 5 6 . - M - - - - 7 . 5 C - - | | 433 | 160M |
| 16 | 59.06 | 4361 | 2.02 | 50200 | | 6 3 . | | |
| 4.2 | 229.54 | 16949 | 0.97 | 62200 | F 1 2 3 1 2 2 5 - M - - - - 7 . 5 C - - | | 583 | 160M |
| 3.9 | 247.92 | 18306 | 0.90 | 62200 | | 2 5 0 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

11 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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 216 | 6.77 | 470 | 1.20 | 6030 | F 0 7 2 2 7 . 1 | - M - - - - 1 1 . A - - | 140 | 160M |
| 156 | 9.38 | 652 | 1.20 | 6061 | 9 . 0 | | | |
| 139 | 10.54 | 733 | 1.20 | 6020 | 1 0 . | | | |
| 126 | 11.59 | 807 | 1.20 | 5955 | 1 2 . | | | |
| 96 | 15.13 | 1056 | 1.10 | 5633 | 1 4 . | | | |
| 85 | 17.21 | 1200 | 1.02 | 5377 | 1 6 . | | | |
| 210 | 6.96 | 486 | 2.41 | 8130 | F 0 8 2 2 7 . 1 | - M - - - - 1 1 . A - - | 194 | 160M |
| 148 | 9.87 | 689 | 2.33 | 8582 | 9 . 0 | | | |
| 133 | 10.96 | 762 | 2.22 | 8689 | 1 0 . | | | |
| 120 | 12.19 | 852 | 2.09 | 8784 | 1 2 . | | | |
| 93 | 15.76 | 1103 | 1.79 | 8902 | 1 4 . | | | |
| 83 | 17.70 | 1235 | 1.68 | 8927 | 1 6 . | | | |
| 67 | 21.70 | 1508 | 1.46 | 8784 | 2 0 . | | | |
| 60 | 24.45 | 1710 | 1.33 | 8654 | 2 2 . | | | |
| 51 | 28.46 | 1993 | 1.20 | 8376 | 2 5 . | | | |
| 46 | 31.57 | 2202 | 1.12 | 8135 | 2 8 . | | | |
| 42 | 34.55 | 2419 | 1.03 | 7824 | 3 2 . | | | |
| 37 | 39.09 | 2725 | 0.94 | 7335 | 3 6 . | | | |
| 33 | 44.13 | 3082 | 0.85 | 6740 | 4 0 . | | | |
| 129 | 11.35 | 794 | 3.76 | 29900 | F 0 9 2 1 1 1 . | - M - - - - 1 1 . A - - | 248 | 160M |
| 115 | 12.68 | 888 | 3.53 | 29900 | 1 2 . | | | |
| 100 | 14.66 | 1023 | 3.31 | 29900 | 1 4 . | | | |
| 89 | 16.37 | 1144 | 3.10 | 29900 | 1 6 . | | | |
| 83 | 17.58 | 1228 | 2.94 | 29900 | 1 8 . | | | |
| 73 | 20.04 | 1406 | 2.71 | 29900 | 2 0 . | | | |
| 64 | 22.70 | 1587 | 2.56 | 29900 | 2 2 . | | | |
| 56 | 25.88 | 1812 | 2.36 | 29900 | 2 5 . | | | |
| 51 | 28.41 | 1988 | 2.13 | 29867 | 2 8 . | | | |
| 46 | 31.56 | 2205 | 1.92 | 29834 | 3 2 . | | | |
| 40 | 36.69 | 2558 | 1.68 | 29800 | 3 6 . | | | |
| 36 | 40.76 | 2836 | 1.52 | 29765 | 4 0 . | | | |
| 33 | 44.58 | 3108 | 1.36 | 29755 | 4 5 . | | | |
| 30 | 49.22 | 3431 | 1.24 | 29772 | 5 0 . | | | |
| 25 | 57.58 | 4024 | 1.07 | 29725 | 5 6 . | | | |
| 23 | 63.56 | 4442 | 0.97 | 29722 | 6 3 . | | | |
| 81 | 18.07 | 1269 | 3.87 | 43200 | F 1 0 2 1 1 8 . | - M - - - - 1 1 . A - - | 342 | 160M |
| 71 | 20.46 | 1436 | 3.59 | 43200 | 2 0 . | | | |
| 64 | 22.76 | 1594 | 3.43 | 43200 | 2 2 . | | | |
| 56 | 25.77 | 1804 | 3.17 | 43200 | 2 5 . | | | |
| 52 | 28.01 | 1969 | 2.96 | 43200 | 2 8 . | | | |
| 47 | 31.16 | 2185 | 2.76 | 43200 | 3 2 . | | | |
| 41 | 35.32 | 2476 | 2.61 | 43200 | 3 6 . | | | |
| 37 | 39.25 | 2746 | 2.44 | 43200 | 4 0 . | | | |
| 33 | 44.63 | 3118 | 2.05 | 43200 | 4 5 . | | | |
| 28 | 51.19 | 3597 | 1.78 | 43200 | 5 0 . | | | |
| 26 | 55.97 | 3915 | 1.85 | 43200 | 5 6 . | | | |
| 22 | 64.49 | 4515 | 1.61 | 43200 | 6 3 . | | | |
| 21 | 69.24 | 4831 | 1.28 | 43200 | 7 1 . | | | |
| 19 | 74.39 | 5211 | 1.08 | 43200 | 8 0 . | | | |
| 17 | 87.21 | 6066 | 1.20 | 43200 | 9 0 . | | | |
| 16 | 93.70 | 6540 | 1.08 | 43200 | 1 0 0 | | | |
| 28 | 51.85 | 3731 | 2.02 | 41400 | F 1 1 2 1 5 6 . | - M - - - - 1 1 . A - - | 420 | 160M |
| 25 | 59.06 | 4249 | 2.02 | 42200 | 6 3 . | | | |
| 32 | 45.60 | 3281 | 2.43 | 38900 | F 1 1 3 1 4 5 . | - M - - - - 1 1 . A - - | 407 | 160M |
| 28 | 51.94 | 3737 | 2.43 | 39500 | 5 0 . | | | |
| 26 | 55.67 | 4006 | 2.14 | 41500 | 5 6 . | | | |
| 23 | 63.42 | 4563 | 2.14 | 42100 | 6 3 . | | | |
| 20 | 72.26 | 5199 | 1.81 | 45200 | 7 1 . | | | |
| 18 | 82.30 | 5922 | 1.79 | 46000 | 8 0 . | | | |
| 16 | 90.56 | 6516 | 1.55 | 48700 | 9 0 . | | | |
| 14 | 103.15 | 7422 | 1.43 | 50600 | 1 0 0 | | | |
| 13 | 110.94 | 7982 | 1.27 | 53000 | 1 1 2 | | | |
| 12 | 126.37 | 9093 | 1.17 | 55100 | 1 2 5 | | | |
| 10 | 140.77 | 10129 | 1.00 | 56000 | 1 4 0 | | | |
| 9.1 | 160.35 | 11538 | 0.92 | 56000 | 1 6 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

11 kW

4 POLE

11 kW

6 POLE

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| 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 of base mount unit | Motor Sizes |
| 16 | 93.43 | 6769 | 2.41 | 54000 | F 1 2 3 1 9 0 . - M - - - 1 1 . K - - | | 565 | 132M |
| 14 | 100.91 | 7311 | 2.22 | 56100 | | | | |
| 13 | 115.39 | 8360 | 1.95 | 59200 | | | | |
| 12 | 124.63 | 9029 | 1.80 | 61400 | | | | |
| 10 | 139.88 | 10134 | 1.62 | 62200 | | | | |
| 9.6 | 151.08 | 10945 | 1.49 | 62200 | | | | |
| 8.0 | 181.27 | 13133 | 1.25 | 62200 | | | | |
| 7.4 | 195.79 | 14185 | 1.15 | 62200 | | | | |
| 6.3 | 229.54 | 16630 | 0.99 | 62200 | | | | |
| 5.8 | 247.92 | 17961 | 0.91 | 62200 | | | | |
| 5.1 | 285.33 | 20672 | 0.80 | 62200 | | | | |
| 16 | 93.43 | 6722 | 2.42 | 54000 | | | | |
| 14 | 100.91 | 7261 | 2.23 | 56100 | | | | |
| 13 | 115.39 | 8303 | 1.97 | 59200 | | | 570 | 160M |
| 12 | 124.63 | 8967 | 1.81 | 61400 | | | | |
| 10 | 139.88 | 10065 | 1.63 | 62200 | | | | |
| 9.7 | 151.08 | 10871 | 1.50 | 62200 | | | | |
| 8.1 | 181.27 | 13043 | 1.26 | 62200 | | | | |
| 7.5 | 195.79 | 14087 | 1.16 | 62200 | | | | |
| 6.4 | 229.54 | 16516 | 1.00 | 62200 | | | | |
| 5.9 | 247.92 | 17838 | 0.92 | 62200 | | | | |
| 5.1 | 285.33 | 20530 | 0.80 | 62200 | | | | |
| 139 | 6.96 | 732 | 1.60 | 8628 | F 0 8 2 2 7 . 1 - M - - - 1 1 . C - - | | 221 | 160L |
| 98 | 9.87 | 1038 | 1.60 | 8894 | | | | |
| 89 | 10.96 | 1151 | 1.60 | 8893 | | | | |
| 80 | 12.19 | 1286 | 1.52 | 8878 | | | | |
| 62 | 15.76 | 1663 | 1.30 | 8675 | | | | |
| 55 | 17.70 | 1863 | 1.21 | 8485 | | | | |
| 45 | 21.70 | 2290 | 1.06 | 7970 | | | | |
| 40 | 24.45 | 2571 | 0.96 | 7550 | | | | |
| 34 | 28.46 | 2990 | 0.87 | 6850 | | | | |
| 148 | 6.57 | 690 | 3.72 | 29900 | F 0 9 2 1 6 . 3 - M - - - 1 1 . C - - | | 275 | 160L |
| 139 | 7.00 | 737 | 3.59 | 29900 | | | | |
| 124 | 7.85 | 827 | 3.41 | 29900 | | | | |
| 110 | 8.81 | 930 | 3.21 | 29900 | | | | |
| 96 | 10.13 | 1065 | 3.02 | 29900 | | | | |
| 85 | 11.35 | 1198 | 2.83 | 29900 | | | | |
| 77 | 12.68 | 1337 | 2.65 | 29900 | | | | |
| 66 | 14.66 | 1542 | 2.49 | 29900 | | | | |
| 59 | 16.37 | 1722 | 2.33 | 29900 | | | | |
| 55 | 17.58 | 1855 | 2.20 | 29900 | | | | |
| 48 | 20.04 | 2117 | 2.00 | 29900 | | | | |
| 43 | 22.70 | 2393 | 1.80 | 29900 | | | | |
| 37 | 25.88 | 2727 | 1.58 | 29900 | | | | |
| 34 | 28.41 | 2997 | 1.41 | 29764 | F 1 0 2 1 1 1 . - M - - - 1 1 . C - - | | 356 | 160L |
| 31 | 31.56 | 3320 | 1.28 | 29772 | | | | |
| 26 | 36.69 | 3846 | 1.12 | 29700 | | | | |
| 24 | 40.76 | 4265 | 1.01 | 29700 | | | | |
| 22 | 44.58 | 4686 | 0.90 | 29700 | | | | |
| 20 | 49.22 | 5174 | 0.82 | 29600 | | | | |
| 84 | 11.48 | 1219 | 3.76 | 43200 | | | | |
| 78 | 12.39 | 1314 | 3.59 | 43200 | | | | |
| 67 | 14.46 | 1529 | 3.35 | 43200 | | | | |
| 62 | 15.61 | 1653 | 3.20 | 43200 | | | | |
| 53 | 18.07 | 1919 | 2.90 | 43200 | | | | |
| 47 | 20.46 | 2169 | 2.69 | 43200 | | | | |
| 42 | 22.76 | 2410 | 2.57 | 43200 | | | | |
| 37 | 25.77 | 2727 | 2.38 | 43200 | | | | |
| 34 | 28.01 | 2980 | 2.15 | 43200 | | | | |
| 31 | 31.16 | 3303 | 1.94 | 43200 | | | | |
| 27 | 35.32 | 3724 | 1.95 | 43200 | | | | |
| 24 | 39.25 | 4158 | 1.75 | 43200 | | | | |
| 22 | 44.63 | 4700 | 1.36 | 43200 | | | | |
| 19 | 51.19 | 5429 | 1.18 | 43200 | F 1 1 2 1 4 0 . - M - - - 1 1 . C - - | | 447 | 160L |
| 17 | 55.97 | 5920 | 1.22 | 43200 | | | | |
| 15 | 64.49 | 6780 | 1.07 | 43200 | | | | |
| 14 | 69.24 | 7299 | 0.85 | 43200 | | | | |
| 24 | 45.04 | 4314 | 2.46 | 45300 | | | | |
| 22 | 51.30 | 4878 | 1.88 | 46100 | | | | |
| 19 | 50.96 | 5556 | 1.78 | 45900 | | | | |
| 19 | 51.85 | 5615 | 1.37 | 49100 | | | | |
| 16 | 59.06 | 6396 | 1.37 | 50200 | | | | |
| 18 | 53.75 | 5821 | 1.96 | 56300 | F 1 2 2 1 5 6 . - M - - - 1 1 . C - - | | 602 | 160L |
| 17 | 58.06 | 6288 | 1.96 | 57300 | | | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

15 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 of base mount unit | Motor Sizes |
| 216 156 139 126 96 | 6.77 | 641 | 0.88 | 5150 | F 0 7 2 2 7 . 1 | _ M - - - - 1 5 . A - - | 157 | 160L |
| | 9.38 | 890 | 0.88 | 4840 | 9 . 0 | | | |
| | 10.54 | 1000 | 0.88 | 4650 | 1 0 . | | | |
| | 11.59 | 1100 | 0.88 | 4450 | 1 2 . | | | |
| | 15.13 | 1440 | 0.81 | 3670 | 1 4 . | | | |
| 210 148 133 120 93 83 67 60 51 46 | 6.96 | 662 | 1.77 | 7457 | F 0 8 2 2 7 . 1 | _ M - - - - 1 5 . A - - | 211 | 160L |
| | 9.87 | 940 | 1.71 | 7626 | 9 . 0 | | | |
| | 10.96 | 1040 | 1.62 | 7626 | 1 0 . | | | |
| | 12.19 | 1163 | 1.53 | 7601 | 1 2 . | | | |
| | 15.76 | 1504 | 1.32 | 7376 | 1 4 . | | | |
| | 17.70 | 1685 | 1.23 | 7201 | 1 6 . | | | |
| | 21.70 | 2057 | 1.07 | 6688 | 2 0 . | | | |
| | 24.45 | 2332 | 0.97 | 6285 | 2 2 . | | | |
| | 28.46 | 2717 | 0.88 | 5620 | 2 5 . | | | |
| | 31.57 | 3003 | 0.82 | 5070 | 2 8 . | | | |
| 222 209 186 166 144 129 115 100 89 83 73 64 56 51 46 40 36 33 30 | 6.57 | 623 | 3.64 | 29900 | F 0 9 2 1 6 . 3 | _ M - - - - 1 5 . A - - | 265 | 160L |
| | 7.00 | 666 | 3.51 | 29900 | 7 . 1 | | | |
| | 7.85 | 747 | 3.33 | 29900 | 8 . 0 | | | |
| | 8.81 | 840 | 3.14 | 29900 | 9 . 0 | | | |
| | 10.13 | 964 | 2.95 | 29889 | 1 0 . | | | |
| | 11.35 | 1083 | 2.76 | 29889 | 1 1 . | | | |
| | 12.68 | 1211 | 2.59 | 29889 | 1 2 . | | | |
| | 14.66 | 1395 | 2.43 | 29876 | 1 4 . | | | |
| | 16.37 | 1560 | 2.28 | 29885 | 1 6 . | | | |
| | 17.58 | 1675 | 2.15 | 29870 | 1 8 . | | | |
| | 20.04 | 1917 | 1.99 | 29869 | 2 0 . | | | |
| | 22.70 | 2165 | 1.88 | 29860 | 2 2 . | | | |
| | 25.88 | 2471 | 1.73 | 29840 | 2 5 . | | | |
| | 28.41 | 2710 | 1.56 | 29842 | 2 8 . | | | |
| | 31.56 | 3007 | 1.41 | 29785 | 3 2 . | | | |
| | 36.69 | 3489 | 1.24 | 29727 | 3 6 . | | | |
| | 40.76 | 3867 | 1.11 | 29687 | 4 0 . | | | |
| | 44.58 | 4239 | 1.00 | 29672 | 4 5 . | | | |
| | 49.22 | 4678 | 0.91 | 29700 | 5 0 . | | | |
| 127 118 101 94 81 71 64 56 52 47 41 37 33 28 26 22 21 17 | 11.48 | 1094 | 3.69 | 43200 | F 1 0 2 1 1 1 . | _ M - - - - 1 5 . A - - | 355 | 160L |
| | 12.39 | 1183 | 3.52 | 43200 | 1 2 . | | | |
| | 14.46 | 1377 | 3.29 | 43200 | 1 4 . | | | |
| | 15.61 | 1486 | 3.14 | 43200 | 1 6 . | | | |
| | 18.07 | 1725 | 2.85 | 43200 | 1 8 . | | | |
| | 20.46 | 1952 | 2.64 | 43200 | 2 0 . | | | |
| | 22.76 | 2167 | 2.52 | 43200 | 2 2 . | | | |
| | 25.77 | 2452 | 2.34 | 43200 | 2 5 . | | | |
| | 28.01 | 2675 | 2.17 | 43200 | 2 8 . | | | |
| | 31.16 | 2969 | 2.03 | 43200 | 3 2 . | | | |
| | 35.32 | 3364 | 1.92 | 43200 | 3 6 . | | | |
| | 39.25 | 3732 | 1.79 | 43200 | 4 0 . | | | |
| | 44.63 | 4237 | 1.51 | 43200 | 4 5 . | | | |
| | 51.19 | 4889 | 1.31 | 43200 | 5 0 . | | | |
| | 55.97 | 5320 | 1.36 | 43200 | 5 6 . | | | |
| | 64.49 | 6136 | 1.18 | 43200 | 6 3 . | | | |
| | 69.24 | 6565 | 0.94 | 43200 | 7 1 . | | | |
| | 87.21 | 8244 | 0.88 | 43100 | 9 0 . | | | |
| 32 28 28 25 | 45.04 | 4434 | 1.92 | 38000 | F 1 1 2 1 4 5 . | _ M - - - - 1 5 . A - - | 439 | 160L |
| | 51.30 | 5051 | 1.92 | 38500 | 5 0 . | | | |
| | 51.85 | 5105 | 1.49 | 41400 | 5 6 . | | | |
| | 59.06 | 5815 | 1.49 | 42200 | 6 3 . | | | |
| | 58.60 | 5375 | 2.12 | 48100 | F 1 2 2 1 5 6 . | _ M - - - - 1 5 . A - - | | |
| 27 19 16 14 13 12 10 9.6 8.0 7.4 | 53.75 | 5292 | 2.12 | 47400 | 6 3 . | | 594 | 160L |
| | 77.95 | 7674 | 2.11 | 50200 | 8 0 . | | | |
| | 93.43 | 9199 | 1.77 | 54000 | 9 0 . | | | |
| | 100.91 | 9935 | 1.63 | 56100 | 1 0 0 | | | |
| | 115.39 | 11361 | 1.44 | 59200 | 1 1 2 | | | |
| | 124.63 | 12270 | 1.33 | 61400 | 1 2 5 | | | |
| | 139.88 | 13772 | 1.19 | 62200 | 1 4 0 | | | |
| | 151.08 | 14874 | 1.10 | 62200 | 1 6 0 | | | |
| | 181.27 | 17847 | 0.92 | 62200 | 1 8 0 | | | |
| | 195.79 | 19276 | 0.85 | 62200 | 2 0 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

15 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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 6 POLE | 191 | 5.08 | 729 | 3.04 | 29900 | F 0 9 2 1 5 . 0 - M - - - - 1 5 . C - - | 294 | 180L |
| | 148 | 6.57 | 942 | 2.73 | 29888 | 6 . 3 | | |
| | 139 | 7.00 | 1006 | 2.63 | 29888 | 7 . 1 | | |
| | 124 | 7.85 | 1128 | 2.50 | 29888 | 8 . 0 | | |
| | 110 | 8.81 | 1268 | 2.36 | 29888 | 9 . 0 | | |
| | 96 | 10.13 | 1452 | 2.22 | 29885 | 1 0 . | | |
| | 85 | 11.35 | 1633 | 2.07 | 29870 | 1 1 . | | |
| | 77 | 12.68 | 1823 | 1.95 | 29880 | 1 2 . | | |
| | 66 | 14.66 | 2103 | 1.83 | 29860 | 1 4 . | | |
| | 59 | 16.37 | 2349 | 1.71 | 29860 | 1 6 . | | |
| | 55 | 17.58 | 2529 | 1.62 | 29836 | 1 8 . | | |
| | 48 | 20.04 | 2887 | 1.47 | 29827 | 2 0 . | | |
| | 43 | 22.70 | 3264 | 1.32 | 29827 | 2 2 . | | |
| | 37 | 25.88 | 3719 | 1.16 | 29805 | 2 5 . | | |
| | 34 | 28.41 | 4087 | 1.04 | 29687 | 2 8 . | | |
| | 31 | 31.56 | 4528 | 0.94 | 29700 | 3 2 . | | |
| | 26 | 36.69 | 5244 | 0.82 | 29600 | 3 6 . | | |
| | 190 | 5.11 | 733 | 3.49 | 43500 | F 1 0 2 1 5 . 0 - M - - - - 1 5 . C - - | 380 | 180L |
| | 151 | 6.43 | 922 | 3.49 | 43500 | 6 . 3 | | |
| | 136 | 7.13 | 1025 | 3.49 | 43500 | 7 . 1 | | |
| | 125 | 7.76 | 1115 | 3.39 | 43500 | 8 . 0 | | |
| | 110 | 8.81 | 1270 | 3.18 | 43500 | 9 . 0 | | |
| | 99 | 9.77 | 1402 | 3.04 | 43500 | 1 0 . | | |
| | 84 | 11.48 | 1654 | 2.77 | 43500 | 1 1 . | | |
| | 78 | 12.39 | 1762 | 2.65 | 43500 | 1 2 . | | |
| | 67 | 14.46 | 2075 | 2.47 | 43500 | 1 4 . | | |
| | 62 | 15.61 | 2243 | 2.36 | 43400 | 1 6 . | | |
| | 53 | 18.07 | 2603 | 2.14 | 43400 | 1 8 . | | |
| | 47 | 20.46 | 2943 | 1.98 | 43400 | 2 0 . | | |
| | 42 | 22.76 | 3270 | 1.89 | 43400 | 2 2 . | | |
| | 37 | 25.77 | 3699 | 1.75 | 43400 | 2 5 . | | |
| | 34 | 28.01 | 4042 | 1.58 | 43200 | 2 8 . | | |
| | 31 | 31.16 | 4481 | 1.43 | 43200 | 3 2 . | | |
| | 27 | 35.32 | 5052 | 1.43 | 43200 | 3 6 . | | |
| | 24 | 39.25 | 5635 | 1.29 | 43200 | 4 0 . | | |
| | 22 | 44.63 | 6376 | 1.00 | 43200 | 4 5 . | | |
| | 19 | 51.19 | 7365 | 0.87 | 43200 | 5 0 . | | |
| | 17 | 55.97 | 8032 | 0.90 | 43200 | 5 6 . | | |
| | 24 | 39.83 | 5882 | 1.80 | 40500 | F 1 1 2 1 4 0 . - M - - - - 1 5 . C - - | 496 | 180L |
| | 22 | 45.04 | 6652 | 1.30 | 45300 | 4 5 . | | |
| | 19 | 51.30 | 7576 | 1.30 | 46100 | 5 0 . | | |
| | 19 | 51.85 | 7657 | 1.01 | 49100 | 5 6 . | | |
| | 16 | 59.06 | 8722 | 1.01 | 50200 | 6 3 . | | |
| | 21 | 45.60 | 6670 | 1.19 | 42500 | F 1 1 3 1 4 5 . - M - - - - 1 5 . C - - | 426 | 180L |
| | 18 | 51.94 | 7597 | 1.19 | 46000 | 5 0 . | | |
| | 17 | 55.67 | 8143 | 1.05 | 48000 | 5 6 . | | |
| | 15 | 63.42 | 9276 | 1.05 | 48700 | 6 3 . | | |
| | 13 | 72.26 | 10569 | 0.99 | 52000 | 7 1 . | | |
| | 12 | 82.30 | 12038 | 0.87 | 55100 | 8 0 . | | |
| | 22 | 45.60 | 6461 | 2.18 | 48900 | F 1 2 2 1 4 5 . - M - - - - 1 5 . C - - | 651 | 180L |
| | 21 | 47.26 | 6979 | 2.18 | 49600 | 5 0 . | | |
| | 18 | 53.75 | 7938 | 1.43 | 56300 | 5 6 . | | |
| | 17 | 68.06 | 8594 | 1.43 | 57300 | 6 3 . | | |
| | 13 | 72.17 | 10556 | 1.53 | 59200 | F 1 1 3 1 7 1 . - M - - - - 1 5 . C - - | | |
| | 12 | 77.95 | 11401 | 1.42 | 61400 | 8 0 . | | |
| | 10 | 93.43 | 13666 | 1.19 | 62200 | 9 0 . | | |
| | 9 | 100.91 | 14760 | 1.10 | 62200 | 1 0 0 | | |
| | 8 | 115.39 | 16878 | 0.96 | 62200 | 1 1 2 | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F
SELECTION TABLES
GEARED MOTORS

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 of base mount unit | Motor Sizes |
| 287 | 5.08 | 597 | 3.28 | 29785 | F 0 9 2 1 5 . 0 _ M - - - - 1 8 . A - - | 6 . 3 7 . 1 8 . 0 9 . 0 1 0 . 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 5 . 5 0 . | 292 | 180M |
| 222 | 6.57 | 769 | 2.95 | 29900 | | | | |
| 209 | 7.00 | 822 | 2.85 | 29891 | | | | |
| 186 | 7.85 | 922 | 2.70 | 29874 | | | | |
| 166 | 8.81 | 1036 | 2.55 | 29840 | | | | |
| 144 | 10.13 | 1190 | 2.39 | 29879 | | | | |
| 129 | 11.35 | 1336 | 2.24 | 29879 | | | | |
| 115 | 12.68 | 1494 | 2.10 | 29879 | | | | |
| 100 | 14.66 | 1720 | 1.97 | 29855 | | | | |
| 89 | 16.37 | 1924 | 1.85 | 29872 | | | | |
| 83 | 17.58 | 2066 | 1.75 | 29844 | | | | |
| 73 | 20.04 | 2364 | 1.61 | 29842 | | | | |
| 64 | 22.70 | 2670 | 1.52 | 29825 | | | | |
| 56 | 25.88 | 3047 | 1.40 | 29787 | | | | |
| 51 | 28.41 | 3343 | 1.27 | 29821 | | | | |
| 46 | 31.56 | 3709 | 1.14 | 29742 | | | | |
| 40 | 36.69 | 4303 | 1.00 | 29663 | | | | |
| 36 | 40.76 | 4770 | 0.90 | 29619 | | | | |
| 33 | 44.58 | 5228 | 0.81 | 29600 | | | | |
| 205 | 7.13 | 839 | 3.81 | 43500 | F 1 0 2 1 7 . 1 _ M - - - - 1 8 . A - - | 8 . 0 9 . 0 1 0 . 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 4 5 . 5 0 . 6 3 . | 378 | 180M |
| 188 | 7.76 | 913 | 3.66 | 43500 | | | | |
| 166 | 8.81 | 1036 | 3.43 | 43500 | | | | |
| 149 | 9.77 | 1146 | 3.29 | 43500 | | | | |
| 127 | 11.48 | 1349 | 2.99 | 43500 | | | | |
| 118 | 12.39 | 1459 | 2.86 | 43500 | | | | |
| 101 | 14.46 | 1698 | 2.67 | 43500 | | | | |
| 94 | 15.61 | 1833 | 2.55 | 43400 | | | | |
| 81 | 18.07 | 2127 | 2.31 | 43400 | | | | |
| 71 | 20.46 | 2407 | 2.14 | 43400 | | | | |
| 64 | 22.76 | 2672 | 2.05 | 43400 | | | | |
| 56 | 25.77 | 3025 | 1.89 | 43400 | | | | |
| 52 | 28.01 | 3300 | 1.76 | 43300 | | | | |
| 47 | 31.16 | 3662 | 1.65 | 43300 | | | | |
| 41 | 35.32 | 4150 | 1.56 | 43300 | | | | |
| 37 | 39.25 | 4603 | 1.45 | 43300 | | | | |
| 33 | 44.63 | 5226 | 1.22 | 43200 | | | | |
| 28 | 51.19 | 6030 | 1.06 | 43200 | | | | |
| 26 | 55.97 | 6561 | 1.10 | 43100 | | | | |
| 22 | 64.49 | 7568 | 0.96 | 43100 | | | | |
| 41 | 34.96 | 4260 | 2.38 | 32100 | F 1 1 2 1 3 6 . _ M - - - - 1 8 . K - - | 4 0 . 4 5 . 5 0 . 5 6 . 6 3 . | 48 | 160L |
| 36 | 39.83 | 4853 | 2.19 | 33300 | | | | |
| 32 | 45.04 | 5488 | 1.55 | 38000 | | | | |
| 28 | 51.30 | 6251 | 1.55 | 38500 | | | | |
| 25 | 59.06 | 7196 | 1.21 | 42200 | | | | |
| 42 | 34.96 | 4202 | 2.41 | 32100 | F 1 1 2 1 3 6 . _ M - - - - 1 8 . A - - | 4 0 . 4 5 . 5 0 . 5 6 . 6 3 . | 469 | 180M |
| 37 | 39.83 | 4787 | 2.22 | 33300 | | | | |
| 33 | 45.04 | 5413 | 1.57 | 38000 | | | | |
| 29 | 51.30 | 6166 | 1.57 | 38500 | | | | |
| 25 | 59.06 | 7098 | 1.22 | 42200 | | | | |
| 32 | 45.60 | 5556 | 1.43 | 38900 | F 1 1 3 1 4 5 . _ M - - - - 1 8 . K - - | 5 0 . 5 6 . 6 3 . 7 1 . 8 0 . | 435 | 160L |
| 28 | 51.94 | 6329 | 1.43 | 39500 | | | | |
| 26 | 55.67 | 6783 | 1.26 | 41500 | | | | |
| 23 | 63.42 | 7727 | 1.26 | 42100 | | | | |
| 20 | 72.76 | 8805 | 1.07 | 45200 | | | | |
| 18 | 82.30 | 10028 | 1.06 | 46000 | F 1 1 3 1 4 5 . _ M - - - - 1 8 . A - - | 9 0 . 9 0 . 1 0 0 | 456 | 180M |
| 16 | 90.56 | 11034 | 0.92 | 48700 | | | | |
| 14 | 103.15 | 12568 | 0.84 | 50600 | | | | |
| 32 | 45.60 | 5481 | 1.45 | 38900 | | | | |
| 28 | 51.94 | 6233 | 1.45 | 39500 | | | | |
| 26 | 55.67 | 6691 | 1.28 | 41500 | F 1 2 2 1 5 6 . _ M - - - - 1 8 . K - - | 5 6 . 6 3 . 7 1 . 8 0 . 9 0 . | 603 | 160L |
| 23 | 63.42 | 7622 | 1.28 | 42100 | | | | |
| 20 | 72.76 | 8685 | 1.08 | 45200 | | | | |
| 18 | 82.30 | 9891 | 1.07 | 46000 | | | | |
| 16 | 90.56 | 11884 | 0.93 | 48700 | | | | |
| 14 | 103.15 | 12397 | 0.86 | 50600 | F 1 2 2 1 5 6 . _ M - - - - 1 8 . A - - | 1 0 0 | 624 | 180M |
| 27 | 53.75 | 6549 | 1.71 | 47400 | | | | |
| 25 | 58.06 | 7074 | 1.71 | 48100 | | | | |
| 27 | 53.75 | 6460 | 1.74 | 47400 | | | | |
| 25 | 58.06 | 6978 | 1.74 | 48100 | | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

18.5 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 Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes | | |
| 4 POLE | 25 | 58.27 | 7100 | 2.28 | 43800 | F 1 2 3 1 5 6 . - - 1 6 0 L B - 4 - - | 598 | 160L | |
| | 23 | 62.94 | 7669 | 2.10 | 45600 | 6 3 . | | | |
| | 20 | 72.17 | 8794 | 1.85 | 48200 | 7 1 . | | | |
| | 19 | 77.95 | 9598 | 1.70 | 50200 | 8 0 . | | | |
| | 16 | 93.43 | 11384 | 1.43 | 54000 | 9 0 . | | | |
| | 15 | 100.91 | 12295 | 1.32 | 56100 | 1 0 0 | | | |
| | 13 | 115.39 | 14060 | 1.16 | 59200 | 1 1 2 | | | |
| | 12 | 124.63 | 15186 | 1.07 | 61400 | 1 2 5 | | | |
| | 11 | 139.88 | 17044 | 0.96 | 62200 | 1 4 0 | | | |
| | 9.7 | 151.08 | 18408 | 0.89 | 62200 | 1 6 0 | | | |
| 6 POLE | 25 | 58.27 | 7003 | 2.31 | 43800 | F 1 2 3 1 5 6 . - - 1 8 0 M - 4 - - | 619 | 180M | |
| | 23 | 62.94 | 7565 | 2.13 | 45600 | 6 3 . | | | |
| | 20 | 72.17 | 8674 | 1.87 | 48200 | 7 1 . | | | |
| | 19 | 77.95 | 9369 | 1.73 | 50200 | 8 0 . | | | |
| | 16 | 93.43 | 11229 | 1.45 | 54000 | 9 0 . | | | |
| | 15 | 100.91 | 12128 | 1.34 | 56100 | 1 0 0 | | | |
| | 13 | 115.39 | 13668 | 1.18 | 59200 | 1 1 2 | | | |
| | 12 | 124.63 | 14979 | 1.09 | 61400 | 1 2 5 | | | |
| | 11 | 139.88 | 16812 | 0.97 | 62200 | 1 4 0 | | | |
| | 9.7 | 151.08 | 18518 | 0.90 | 62200 | 1 6 0 | | | |
| 18.5 kW | 194 | 5.08 | 885 | 2.51 | 29900 | F 0 9 2 1 5 . 0 - M - - - - 1 8 . C - - | 310 | 200L | |
| | 150 | 6.57 | 1144 | 2.25 | 29877 | 6 . 3 | | | |
| | 141 | 7.00 | 1222 | 2.17 | 29877 | 7 . 1 | | | |
| | 126 | 7.85 | 1370 | 2.06 | 29877 | 8 . 0 | | | |
| | 112 | 8.81 | 1540 | 1.94 | 29877 | 9 . 0 | | | |
| | 97 | 10.13 | 1764 | 1.82 | 29872 | 1 0 . | | | |
| | 87 | 11.35 | 1984 | 1.71 | 29844 | 1 1 . | | | |
| | 78 | 12.68 | 2214 | 1.60 | 29862 | 1 2 . | | | |
| | 67 | 14.66 | 2554 | 1.50 | 29825 | 1 4 . | | | |
| | 60 | 16.37 | 2853 | 1.41 | 29825 | 1 6 . | | | |
| | 56 | 17.58 | 3072 | 1.33 | 29781 | 1 8 . | | | |
| | 49 | 20.04 | 3506 | 1.21 | 29763 | 2 0 . | | | |
| | 43 | 22.70 | 3964 | 1.09 | 29763 | 2 2 . | | | |
| | 38 | 25.88 | 4518 | 0.95 | 29723 | 2 5 . | | | |
| | 35 | 28.41 | 4964 | 0.85 | 29619 | 2 8 . | | | |
| | 190 | 5.11 | 904 | 2.83 | 43500 | F 1 0 2 1 5 . 0 - M - - - - 1 8 . C - - | 395 | 200L | |
| | 151 | 6.43 | 1138 | 2.83 | 43500 | 6 . 3 | | | |
| | 136 | 7.13 | 1265 | 2.83 | 43500 | 7 . 1 | | | |
| | 125 | 7.76 | 1375 | 2.75 | 43500 | 8 . 0 | | | |
| | 110 | 8.81 | 1567 | 2.58 | 43500 | 9 . 0 | | | |
| | 99 | 9.77 | 1729 | 2.47 | 43500 | 1 0 . | | | |
| | 84 | 11.48 | 2040 | 2.24 | 43500 | 1 1 . | | | |
| | 78 | 12.39 | 2198 | 2.15 | 43500 | 1 2 . | | | |
| | 67 | 14.46 | 2559 | 2.00 | 43500 | 1 4 . | | | |
| | 62 | 15.61 | 2767 | 1.91 | 43400 | 1 6 . | | | |
| | 53 | 18.07 | 3211 | 1.73 | 43400 | 1 8 . | | | |
| | 47 | 20.46 | 3630 | 1.61 | 43400 | 2 0 . | | | |
| | 42 | 22.76 | 4033 | 1.53 | 43400 | 2 2 . | | | |
| | 37 | 25.77 | 4563 | 1.42 | 43300 | 2 5 . | | | |
| | 34 | 28.01 | 4986 | 1.28 | 43300 | 2 8 . | | | |
| | 31 | 31.16 | 5527 | 1.16 | 43300 | 3 2 . | | | |
| | 27 | 35.32 | 6232 | 1.16 | 43200 | 3 6 . | | | |
| | 24 | 39.25 | 6949 | 1.04 | 43200 | 4 0 . | | | |
| | 22 | 44.63 | 7864 | 0.81 | 43100 | 4 5 . | | | |
| | 24 | 39.83 | 7292 | 1.46 | 40500 | F 1 1 2 1 4 0 . - M - - - - 1 8 . M - - | 505 | 180L | |
| | 21 | 45.04 | 8246 | 1.05 | 45300 | 4 5 . | | | |
| | 19 | 51.30 | 9392 | 1.05 | 46100 | 5 0 . | | | |
| | 19 | 51.85 | 9493 | 0.81 | 49100 | 5 6 . | | | |
| | 16 | 59.06 | 10813 | 0.81 | 50200 | 6 3 . | | | |
| | 25 | 39.83 | 7144 | 1.49 | 40500 | F 1 1 2 1 4 0 . - M - - - - 1 8 . C - - | 510 | 200L | |
| | 22 | 45.04 | 8079 | 1.07 | 45300 | 4 5 . | | | |
| | 19 | 51.30 | 9201 | 1.07 | 46100 | 5 0 . | | | |
| | 19 | 51.85 | 9300 | 0.83 | 49100 | 5 6 . | | | |
| | 17 | 59.06 | 10593 | 0.83 | 50200 | 6 3 . | | | |
| | 25 | 38.46 | 7041 | 2.28 | 44400 | F 1 2 2 1 4 0 . - M - - - - 1 8 . M - - | 660 | 180L | |
| | 22 | 43.75 | 8010 | 1.76 | 48900 | 4 5 . | | | |
| | 20 | 47.26 | 8652 | 1.76 | 49600 | 5 0 . | | | |
| | 18 | 53.75 | 9841 | 1.16 | 56300 | 5 6 . | | | |
| | 17 | 58.06 | 10630 | 1.16 | 57300 | 6 3 . | | | |
| NOTE | Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers | 26.0 | 38.46 | 6898 | 2.33 | 44400 | F 1 2 2 1 4 0 . - M - - - - 1 8 . C - - | 665 | 200L |
| | | 23.0 | 43.75 | 7847 | 1.80 | 48900 | | | |
| | | 21.0 | 47.26 | 8477 | 1.80 | 49600 | | | |
| | | 18.0 | 53.75 | 9641 | 1.18 | 56300 | | | |
| | | 17.0 | 58.06 | 10414 | 1.18 | 57300 | | | |

SERIES F

SELECTION TABLES

GEARED MOTORS

22 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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes | |
| 287 | 5.08 | 710 | 2.76 | 29670 | F | 0 9 2 1 5 . 0 _ M - - - - 2 2 . A - - | 328 | 180L | |
| | 6.57 | 915 | 2.48 | 29900 | | 6 . 3 | | | |
| | 7.00 | 977 | 2.39 | 29882 | | 7 . 1 | | | |
| | 7.85 | 1096 | 2.27 | 29848 | | 8 . 0 | | | |
| 222 | 8.81 | 1232 | 2.14 | 29780 | | 9 . 0 | | | |
| | 10.13 | 1415 | 2.01 | 29870 | | 1 0 . | | | |
| | 11.35 | 1589 | 1.88 | 29870 | | 1 1 . | | | |
| | 12.68 | 1777 | 1.77 | 29870 | | 1 2 . | | | |
| | 14.66 | 2046 | 1.66 | 29835 | | 1 4 . | | | |
| | 16.37 | 2288 | 1.55 | 29859 | | 1 6 . | | | |
| | 17.58 | 2457 | 1.47 | 29818 | | 1 8 . | | | |
| | 20.04 | 2812 | 1.35 | 29815 | | 2 0 . | | | |
| | 22.70 | 3175 | 1.28 | 29790 | | 2 2 . | | | |
| | 25.88 | 3624 | 1.18 | 29735 | | 2 5 . | | | |
| | 28.41 | 3976 | 1.07 | 29800 | | 2 8 . | | | |
| | 31.56 | 4411 | 0.96 | 29700 | | 3 2 . | | | |
| | 36.69 | 5117 | 0.84 | 29600 | | 3 6 . | | | |
| 228 | 5.11 | 712 | 3.59 | 43500 | F | 1 0 2 1 5 . 0 _ M - - - - 2 2 . A - - | 414 | 180L | |
| | 6.43 | 893 | 3.38 | 43500 | | 6 . 3 | | | |
| | 7.13 | 995 | 3.21 | 43500 | | 7 . 1 | | | |
| | 7.76 | 1082 | 3.09 | 43500 | | 8 . 0 | | | |
| | 8.81 | 1228 | 2.90 | 43500 | | 9 . 0 | | | |
| | 9.77 | 1359 | 2.77 | 43500 | | 1 0 . | | | |
| | 11.48 | 1599 | 2.53 | 43500 | | 1 1 . | | | |
| | 12.39 | 1729 | 2.41 | 43500 | | 1 2 . | | | |
| | 14.46 | 2013 | 2.25 | 43500 | | 1 4 . | | | |
| | 15.61 | 2172 | 2.15 | 43400 | | 1 6 . | | | |
| | 18.07 | 2521 | 1.95 | 43400 | | 1 8 . | | | |
| | 20.46 | 2853 | 1.80 | 43400 | | 2 0 . | | | |
| | 22.76 | 3167 | 1.73 | 43400 | | 2 2 . | | | |
| | 25.77 | 3585 | 1.60 | 43400 | | 2 5 . | | | |
| | 28.01 | 3911 | 1.49 | 43300 | | 2 8 . | | | |
| | 31.16 | 4340 | 1.39 | 43300 | | 3 2 . | | | |
| | 35.32 | 4918 | 1.31 | 43200 | | 3 6 . | | | |
| | 39.25 | 5455 | 1.23 | 43200 | | 4 0 . | | | |
| | 44.63 | 6193 | 1.03 | 43200 | | 4 5 . | | | |
| | 51.19 | 7146 | 0.90 | 43200 | | 5 0 . | | | |
| | 55.97 | 7776 | 0.93 | 43100 | | 5 6 . | | | |
| | 64.49 | 8969 | 0.81 | 43100 | | 6 3 . | | | |
| 205 | 28.40 | 4059 | 2.49 | 29100 | F | 1 1 2 1 2 8 . _ M - - - - 2 2 . A - - | 486 | 180L | |
| | 32.34 | 4622 | 2.21 | 30700 | | 3 2 . | | | |
| | 34.96 | 4997 | 2.03 | 32100 | | 3 6 . | | | |
| | 39.83 | 5693 | 1.87 | 33300 | | 4 0 . | | | |
| | 45.04 | 6437 | 1.32 | 38000 | | 4 5 . | | | |
| | 51.30 | 7332 | 1.32 | 38500 | | 5 0 . | | | |
| | 51.85 | 7411 | 1.03 | 41400 | | 5 6 . | | | |
| | 59.06 | 8441 | 1.03 | 42200 | | 6 3 . | | | |
| | 32 | 45.60 | 6517 | 1.22 | 38900 | F | 1 1 3 1 4 5 . _ M - - - - 2 2 . A - - | 473 | 180L |
| | 51.94 | 7424 | 1.22 | 39500 | | 5 0 . | | | |
| | 55.67 | 7957 | 1.08 | 41500 | | 5 6 . | | | |
| | 63.42 | 9064 | 1.08 | 42100 | | 6 3 . | | | |
| | 72.26 | 10328 | 0.91 | 45200 | | 7 1 . | | | |
| | 82.30 | 11723 | 0.90 | 46000 | | 8 0 . | | | |
| | 34 | 43.75 | 6253 | 2.18 | 40900 | F | 1 2 2 1 4 5 . _ M - - - - 2 2 . A - - | 641 | 180L |
| | 47.26 | 6755 | 2.18 | 41300 | | 5 0 . | | | |
| | 53.75 | 7682 | 1.46 | 47400 | | 5 6 . | | | |
| | 58.06 | 8298 | 1.46 | 48100 | | 6 3 . | | | |
| | 33 | 44.96 | 6426 | 2.47 | 39100 | F | 1 2 3 1 4 5 . _ M - - - - 2 2 . A - - | 636 | 180L |
| | 48.56 | 6940 | 2.31 | 40500 | | 5 0 . | | | |
| | 58.27 | 8328 | 1.94 | 43800 | | 5 6 . | | | |
| | 62.94 | 8996 | 1.79 | 45600 | | 6 3 . | | | |
| | 72.17 | 10315 | 1.57 | 48200 | | 7 1 . | | | |
| | 77.95 | 11141 | 1.45 | 50200 | | 8 0 . | | | |
| | 93.43 | 13353 | 1.12 | 54000 | | 9 0 . | | | |
| | 100.91 | 14423 | 1.13 | 56100 | | 1 0 0 | | | |
| | 115.39 | 16492 | 0.99 | 59200 | | 1 1 2 | | | |
| | 124.63 | 17813 | 0.91 | 61400 | | 1 2 5 | | | |
| | 139.88 | 19992 | 0.82 | 62200 | | 1 4 0 | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

22 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 of base mount unit | Motor Sizes |
| 193 | 5.08 | 1058 | 2.10 | 29900 | F 0 9 2 1 5 . 0 - M - - - - 2 2 . C - - | | 329 | 200L |
| 149 | 6.57 | 1367 | 1.88 | 29867 | 6 . 3 | | | |
| 140 | 7.00 | 1460 | 1.81 | 29867 | 7 . 1 | | | |
| 125 | 7.85 | 1638 | 1.72 | 29867 | 8 . 0 | | | |
| 111 | 8.81 | 1841 | 1.62 | 29867 | 9 . 0 | | | |
| 97 | 10.13 | 2109 | 1.53 | 29859 | 1 0 . | | | |
| 86 | 11.35 | 2372 | 1.43 | 29818 | 1 1 . | | | |
| 77 | 12.68 | 2647 | 1.34 | 29845 | 1 2 . | | | |
| 67 | 14.66 | 3053 | 1.26 | 29790 | 1 4 . | | | |
| 60 | 16.37 | 3410 | 1.18 | 29790 | 1 6 . | | | |
| 56 | 17.58 | 3672 | 1.11 | 29726 | 1 8 . | | | |
| 49 | 20.04 | 4191 | 1.01 | 29700 | 2 0 . | | | |
| 43 | 22.70 | 4739 | 0.91 | 29700 | 2 2 . | | | |
| 190 | 5.11 | 1076 | 2.38 | 43500 | F 1 0 2 1 5 . 0 - M - - - - 2 2 . C - - | | 415 | 200L |
| 151 | 6.43 | 1353 | 2.38 | 43500 | 6 . 3 | | | |
| 136 | 7.13 | 1504 | 2.38 | 43500 | 7 . 1 | | | |
| 125 | 7.76 | 1636 | 2.31 | 43500 | 8 . 0 | | | |
| 110 | 8.81 | 1863 | 2.17 | 43500 | 9 . 0 | | | |
| 99 | 9.77 | 2056 | 2.08 | 43500 | 1 0 . | | | |
| 84 | 11.48 | 2426 | 1.89 | 43500 | 1 1 . | | | |
| 78 | 12.39 | 2614 | 1.80 | 43500 | 1 2 . | | | |
| 67 | 14.46 | 3043 | 1.69 | 43500 | 1 4 . | | | |
| 62 | 15.61 | 3290 | 1.61 | 43400 | 1 6 . | | | |
| 53 | 18.07 | 3818 | 1.46 | 43400 | 1 8 . | | | |
| 47 | 20.46 | 4317 | 1.35 | 43400 | 2 0 . | | | |
| 42 | 22.76 | 4796 | 1.29 | 43400 | 2 2 . | | | |
| 37 | 25.77 | 5426 | 1.19 | 43300 | 2 5 . | | | |
| 25 | 39.83 | 8539 | 1.24 | 40500 | F 1 1 2 1 4 0 . - M - - - - 2 2 . C - - | | 530 | 200L |
| 22 | 45.04 | 9656 | 0.90 | 45300 | 4 5 . | | | |
| 19 | 51.30 | 10998 | 0.90 | 46100 | 5 0 . | | | |
| 25 | 38.46 | 8245 | 1.95 | 44400 | F 1 2 2 1 4 0 . - M - - - - 2 2 . C - - | | 685 | 200L |
| 22 | 43.75 | 9379 | 1.50 | 48900 | 4 5 . | | | |
| 21 | 47.26 | 10132 | 1.50 | 49600 | 5 0 . | | | |
| 18 | 53.75 | 11523 | 0.99 | 56300 | 5 6 . | | | |
| 17 | 58.06 | 12447 | 0.99 | 57300 | 6 3 . | | | |

30 kW

4 POLE

| | | | | | | | | |
|-----|-------|-------|------|-------|---|--|-----|------|
| 289 | 5.08 | 961 | 2.04 | 29408 | F 0 9 2 1 5 . 0 - M - - - - 3 0 . A - - | | 350 | 200L |
| 224 | 6.57 | 1239 | 1.83 | 29900 | 6 . 3 | | | |
| 210 | 7.00 | 1323 | 1.77 | 29863 | 7 . 1 | | | |
| 187 | 7.85 | 1485 | 1.68 | 29790 | 8 . 0 | | | |
| 167 | 8.81 | 1669 | 1.58 | 29643 | 9 . 0 | | | |
| 145 | 10.13 | 1916 | 1.49 | 29848 | 1 0 . | | | |
| 130 | 11.35 | 2152 | 1.39 | 29848 | 1 1 . | | | |
| 116 | 12.68 | 2407 | 1.30 | 29848 | 1 2 . | | | |
| 100 | 14.66 | 2771 | 1.22 | 29788 | 1 4 . | | | |
| 90 | 16.37 | 3098 | 1.15 | 29829 | 1 6 . | | | |
| 84 | 17.58 | 3327 | 1.08 | 29759 | 1 8 . | | | |
| 73 | 20.04 | 3808 | 1.00 | 29753 | 2 0 . | | | |
| 65 | 22.70 | 4301 | 0.95 | 29710 | 2 2 . | | | |
| 57 | 25.88 | 4909 | 0.87 | 29615 | 2 5 . | | | |
| 287 | 5.11 | 968 | 2.64 | 43500 | F 1 0 2 1 5 . 0 - M - - - - 3 0 . A - - | | 350 | 200L |
| 228 | 6.43 | 1214 | 2.49 | 43500 | 6 . 3 | | | |
| 205 | 7.13 | 1352 | 2.37 | 43500 | 7 . 1 | | | |
| 188 | 7.76 | 1470 | 2.27 | 43500 | 8 . 0 | | | |
| 166 | 8.81 | 1669 | 2.13 | 43500 | 9 . 0 | | | |
| 149 | 9.77 | 1847 | 2.04 | 43500 | 1 0 . | | | |
| 127 | 11.48 | 2173 | 1.86 | 43500 | 1 1 . | | | |
| 118 | 12.39 | 2350 | 1.77 | 43500 | 1 2 . | | | |
| 101 | 14.46 | 2735 | 1.66 | 43500 | 1 4 . | | | |
| 94 | 15.61 | 2952 | 1.58 | 43400 | 1 6 . | | | |
| 81 | 18.07 | 3426 | 1.43 | 43400 | 1 8 . | | | |
| 71 | 20.46 | 3877 | 1.33 | 43300 | 2 0 . | | | |
| 64 | 22.76 | 4304 | 1.27 | 43300 | 2 2 . | | | |
| 56 | 25.77 | 4872 | 1.18 | 43300 | 2 5 . | | | |
| 72 | 20.46 | 4001 | 2.24 | 26100 | F 1 1 2 1 2 0 . - M - - - - 3 0 . K - - | | 506 | 180L |
| 65 | 22.42 | 4385 | 2.21 | 26600 | 2 2 . | | | |
| 57 | 25.54 | 4995 | 1.92 | 28300 | 2 5 . | | | |
| 52 | 28.40 | 5554 | 1.82 | 29100 | 2 8 . | | | |
| 45 | 32.34 | 6325 | 1.62 | 30700 | 3 2 . | | | |
| 42 | 34.96 | 6837 | 1.48 | 32100 | 3 6 . | | | |
| 37 | 39.83 | 7789 | 1.36 | 33300 | 4 0 . | | | |
| 33 | 45.04 | 8808 | 0.97 | 38000 | 4 5 . | | | |
| 39 | 51.30 | 10032 | 0.97 | 38300 | 5 0 . | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

30 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 Spaces to be filled when entering order | | | | | | | | | | Weight of base mount unit | Motor Sizes | | | |
| 4 POLE | 72 | 20.46 | 3974 | 2.26 | 26100 | F | 1 | 1 | 2 | 1 | 2 | 0 | . | _ M | - - - | 3 0 . A - - | 525 | 200L | |
| | 66 | 22.42 | 4355 | 2.22 | 26600 | | | | | | | 2 | 2 | . | | | | | |
| | 58 | 25.54 | 4961 | 1.92 | 28300 | | | | | | | 2 | 5 | . | | | | | |
| | 52 | 28.40 | 5516 | 1.83 | 29100 | | | | | | | 2 | 8 | . | | | | | |
| | 46 | 32.34 | 6282 | 1.63 | 30700 | | | | | | | 3 | 2 | . | | | | | |
| | 42 | 34.96 | 6791 | 1.49 | 32100 | | | | | | | 3 | 6 | . | | | | | |
| | 37 | 39.83 | 7736 | 1.37 | 33300 | | | | | | | 4 | 0 | . | | | | | |
| | 33 | 45.04 | 8748 | 0.97 | 38000 | | | | | | | 4 | 5 | . | | | | | |
| | 39 | 51.30 | 9964 | 0.97 | 38300 | | | | | | | 5 | 0 | . | | | | | |
| | 32 | 45.60 | 8918 | 0.89 | 38900 | F | 1 | 1 | 3 | 1 | 4 | 5 | . | _ M | - - - | 3 0 . K - - | 493 | 180L | |
| | 28 | 51.94 | 10158 | 0.89 | 39500 | | | | | | | 5 | 0 | . | | | | | |
| 4 POLE | 41 | 35.61 | 6964 | 2.22 | 35200 | F | 1 | 2 | 2 | 1 | 3 | 6 | . | _ M | - - - | 3 0 . K - - | 661 | 180L | |
| | 38 | 38.46 | 7521 | 2.12 | 36300 | | | | | | | 4 | 0 | . | | | | | |
| | 33 | 43.75 | 8556 | 1.60 | 40900 | | | | | | | 4 | 5 | . | | | | | |
| | 31 | 47.26 | 9242 | 1.60 | 41300 | | | | | | | 5 | 0 | . | | | | | |
| | 27 | 53.75 | 10572 | 1.07 | 47400 | | | | | | | 5 | 6 | . | | | | | |
| | 25 | 58.06 | 11354 | 1.07 | 48100 | | | | | | | 6 | 3 | . | | | | | |
| | 41 | 35.61 | 6917 | 2.24 | 35200 | F | 1 | 2 | 2 | 1 | 3 | 6 | . | _ M | - - - | 3 0 . A - - | 680 | 200L | |
| | 38 | 38.46 | 7470 | 2.14 | 36300 | | | | | | | 4 | 0 | . | | | | | |
| | 34 | 43.75 | 8498 | 1.61 | 40900 | | | | | | | 4 | 5 | . | | | | | |
| | 31 | 47.26 | 9180 | 1.61 | 41300 | | | | | | | 5 | 0 | . | | | | | |
| 4 POLE | 27 | 53.75 | 10440 | 1.08 | 47400 | | | | | | | 5 | 6 | . | | | | | |
| | 25 | 58.06 | 11277 | 1.08 | 48100 | | | | | | | 6 | 3 | . | | | | | |
| | 33 | 44.96 | 8793 | 1.81 | 39100 | F | 1 | 2 | 3 | 1 | 4 | 5 | . | _ M | - - - | 3 0 . K - - | 656 | 180L | |
| | 30 | 48.56 | 9497 | 1.69 | 40500 | | | | | | | 5 | 0 | . | | | | | |
| | 25 | 58.27 | 11395 | 1.42 | 43800 | | | | | | | 5 | 6 | . | | | | | |
| | 23 | 62.94 | 12309 | 1.31 | 45600 | | | | | | | 6 | 3 | . | | | | | |
| | 20 | 72.17 | 14114 | 1.15 | 48200 | | | | | | | 7 | 1 | . | | | | | |
| | 19 | 77.95 | 15244 | 1.06 | 50200 | | | | | | | 8 | 0 | . | | | | | |
| | 16 | 93.43 | 18271 | 0.89 | 54000 | | | | | | | 9 | 0 | . | | | | | |
| | 15 | 100.91 | 19734 | 0.82 | 56100 | | | | | | | 1 | 0 | 0 | | | | | |
| 6 POLE | 33 | 44.96 | 8733 | 1.82 | 39100 | F | 1 | 2 | 3 | 1 | 4 | 5 | . | _ M | - - - | 3 0 . A - - | 686 | 200L | |
| | 30 | 48.56 | 9432 | 1.70 | 40500 | | | | | | | 5 | 0 | . | | | | | |
| | 25 | 58.27 | 11318 | 1.43 | 43800 | | | | | | | 5 | 6 | . | | | | | |
| | 23 | 62.94 | 12225 | 1.32 | 45600 | | | | | | | 6 | 3 | . | | | | | |
| | 20 | 72.17 | 14018 | 1.16 | 48200 | | | | | | | 7 | 1 | . | | | | | |
| | 19 | 77.95 | 15141 | 1.07 | 50200 | | | | | | | 8 | 0 | . | | | | | |
| | 16 | 93.43 | 18148 | 0.90 | 54000 | | | | | | | 9 | 0 | . | | | | | |
| | 15 | 100.91 | 19600 | 0.83 | 56100 | | | | | | | 1 | 0 | 0 | | | | | |
| | 194 | 5.08 | 1436 | 1.55 | 29900 | F | 0 | 9 | 2 | 1 | 5 | 0 | . | _ M | - - - | 3 0 . C - - | 412 | 225M | |
| | 150 | 6.57 | 1855 | 1.39 | 29844 | | | | | | | 6 | .3 | . | | | | | |
| 6 POLE | 141 | 7.00 | 1981 | 1.34 | 29844 | | | | | | | 7 | .1 | . | | | | | |
| | 126 | 7.85 | 2222 | 1.27 | 29844 | | | | | | | 8 | .0 | . | | | | | |
| | 112 | 8.81 | 2497 | 1.20 | 29844 | | | | | | | 9 | .0 | . | | | | | |
| | 97 | 10.13 | 2861 | 1.13 | 29829 | | | | | | | 1 | 0 | . | | | | | |
| | 87 | 11.35 | 3218 | 1.05 | 29759 | | | | | | | 1 | 1 | . | | | | | |
| | 78 | 12.68 | 3591 | 0.99 | 29805 | | | | | | | 1 | 2 | . | | | | | |
| | 67 | 14.66 | 4143 | 0.93 | 29710 | | | | | | | 1 | 4 | . | | | | | |
| | 60 | 16.37 | 4627 | 0.87 | 29710 | | | | | | | 1 | 6 | . | | | | | |
| | 56 | 17.58 | 4982 | 0.82 | 29600 | | | | | | | 1 | 8 | . | | | | | |
| | 190 | 5.11 | 1459 | 1.75 | 43500 | F | 1 | 0 | 2 | 1 | 5 | 0 | . | _ M | - - - | 3 0 . C - - | 500 | 225M | |
| 6 POLE | 151 | 6.43 | 1836 | 1.75 | 43500 | | | | | | | 6 | .3 | . | | | | | |
| | 136 | 7.13 | 2041 | 1.75 | 43500 | | | | | | | 7 | .1 | . | | | | | |
| | 125 | 7.76 | 2219 | 1.70 | 43500 | | | | | | | 8 | .0 | . | | | | | |
| | 110 | 8.81 | 2528 | 1.60 | 43500 | | | | | | | 9 | .0 | . | | | | | |
| | 99 | 9.77 | 2790 | 1.53 | 43500 | | | | | | | 1 | 0 | . | | | | | |
| | 84 | 11.48 | 3291 | 1.39 | 43500 | | | | | | | 1 | 1 | . | | | | | |
| | 78 | 12.39 | 3547 | 1.33 | 43500 | | | | | | | 1 | 2 | . | | | | | |
| | 67 | 14.46 | 4128 | 1.24 | 43500 | | | | | | | 1 | 4 | . | | | | | |
| | 62 | 15.61 | 4464 | 1.18 | 43400 | | | | | | | 1 | 6 | . | | | | | |
| | 53 | 18.07 | 5180 | 1.07 | 43400 | | | | | | | 1 | 8 | . | | | | | |
| 6 POLE | 47 | 20.46 | 5857 | 1.00 | 43400 | | | | | | | 2 | 0 | . | | | | | |
| | 42 | 22.76 | 6506 | 0.95 | 43400 | | | | | | | 2 | 2 | . | | | | | |
| | 37 | 25.77 | 7361 | 0.88 | 43300 | | | | | | | 2 | 5 | . | | | | | |
| | 25.0 | 39.83 | 11644 | 0.91 | 40500 | F | 1 | 1 | 2 | 1 | 4 | 0 | . | _ M | - - - | 3 0 . M - - | 545 | 200M | |
| | 25.0 | 39.83 | 11585 | 0.92 | 40500 | F | 1 | 1 | 2 | 1 | 4 | 0 | . | _ M | - - - | 3 0 . C - - | 584 | 225M | |
| | 25.0 | 38.46 | 11244 | 1.43 | 44400 | F | 1 | 2 | 2 | 1 | 4 | 0 | . | _ M | - - - | 3 0 . M - - | 700 | 200M | |
| | 22.0 | 43.75 | 12790 | 1.10 | 48900 | | | | | | | 4 | 5 | . | | | | | |
| | 21.0 | 47.26 | 13816 | 1.10 | 49600 | | | | | | | 5 | 0 | . | | | | | |
| | 26.0 | 38.46 | 11187 | 1.44 | 44400 | F | 1 | 2 | 2 | 1 | 4 | 0 | . | _ M | - - - | 3 0 . C - - | 739 | 225M | |
| | 23.0 | 43.75 | 12725 | 1.11 | 48900 | | | | | | | 4 | 5 | . | | | | | |
| | 21.0 | 47.26 | 13746 | 1.11 | 49600 | | | | | | | 5 | 0 | . | | | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 290 | 5.08 | 1182 | 1.66 | 29179 | F 0 9 2 1 5 . 0 - M - - - - 3 7 . A - - | 6 . 3 7 . 1 8 . 0 9 . 0 1 0 . 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . | 403 | 225S |
| 225 | 6.57 | 1523 | 1.49 | 29900 | | | | |
| 211 | 7.00 | 1627 | 1.44 | 29846 | | | | |
| 188 | 7.85 | 1825 | 1.36 | 29739 | | | | |
| 167 | 8.81 | 2051 | 1.29 | 29524 | | | | |
| 146 | 10.13 | 2355 | 1.21 | 29829 | | | | |
| 130 | 11.35 | 2646 | 1.13 | 29829 | | | | |
| 116 | 12.68 | 2958 | 1.06 | 29829 | | | | |
| 101 | 14.66 | 3406 | 1.00 | 29747 | | | | |
| 90 | 16.37 | 3808 | 0.93 | 29803 | | | | |
| 84 | 17.58 | 4090 | 0.88 | 29707 | | | | |
| 74 | 20.04 | 4681 | 0.81 | 29700 | | | | |
| 287 | 5.11 | 1190 | 2.15 | 43500 | F 1 0 2 1 5 . 0 - M - - - - 3 7 . A - - | 6 . 3 7 . 1 8 . 0 9 . 0 1 0 . 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . | 491 | 225S |
| 228 | 6.43 | 1492 | 2.02 | 43500 | | | | |
| 205 | 7.13 | 1662 | 1.92 | 43500 | | | | |
| 188 | 7.76 | 1807 | 1.85 | 43500 | | | | |
| 166 | 8.81 | 2052 | 1.73 | 43500 | | | | |
| 149 | 9.77 | 2270 | 1.66 | 43500 | | | | |
| 127 | 11.48 | 2671 | 1.51 | 43500 | | | | |
| 118 | 12.39 | 2889 | 1.44 | 43500 | | | | |
| 101 | 14.46 | 3362 | 1.35 | 43500 | | | | |
| 94 | 15.61 | 3629 | 1.29 | 43400 | | | | |
| 81 | 18.07 | 4212 | 1.17 | 43400 | | | | |
| 71 | 20.46 | 4766 | 1.09 | 43400 | | | | |
| 64 | 22.76 | 5291 | 1.03 | 43400 | | | | |
| 56 | 25.77 | 5988 | 0.96 | 43300 | | | | |
| 95 | 15.56 | 3728 | 2.22 | 23700 | F 1 1 2 1 1 6 . - M - - - - 3 7 . K - - | 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . | 550 | 200M |
| 82 | 17.96 | 4302 | 2.11 | 24600 | | | | |
| 72 | 20.46 | 4901 | 1.84 | 26100 | | | | |
| 66 | 22.42 | 5371 | 1.81 | 26600 | | | | |
| 58 | 25.54 | 6118 | 1.56 | 28300 | | | | |
| 52 | 28.40 | 6803 | 1.49 | 29100 | | | | |
| 46 | 32.34 | 7747 | 1.32 | 30700 | | | | |
| 42 | 34.96 | 8375 | 1.21 | 32100 | | | | |
| 37 | 39.83 | 9542 | 1.12 | 33300 | | | | |
| 95 | 15.56 | 3715 | 2.22 | 23700 | | | | |
| 82 | 17.96 | 4288 | 2.11 | 24600 | | | | |
| 72 | 20.46 | 4885 | 1.84 | 26100 | | | | |
| 66 | 22.42 | 5353 | 1.81 | 26600 | | | | |
| 58 | 25.54 | 6098 | 1.56 | 28300 | | | | |
| 52 | 28.40 | 6761 | 1.49 | 29100 | | | | |
| 46 | 32.34 | 7721 | 1.32 | 30700 | | | | |
| 42 | 34.96 | 8347 | 1.21 | 32100 | | | | |
| 37 | 39.83 | 9509 | 1.12 | 33300 | | | | |
| 51 | 28.92 | 6928 | 2.19 | 28100 | F 1 2 2 1 2 8 . - M - - - - 3 7 . K - - | 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . | 705 | 200M |
| 47 | 31.23 | 7481 | 2.12 | 28300 | | | | |
| 41 | 35.61 | 8531 | 1.81 | 35200 | | | | |
| 38 | 38.46 | 9213 | 1.73 | 36300 | | | | |
| 34 | 43.75 | 10481 | 1.30 | 40900 | | | | |
| 31 | 47.26 | 11322 | 1.30 | 41300 | | | | |
| 27 | 53.75 | 12876 | 0.87 | 47400 | | | | |
| 25 | 58.06 | 13909 | 0.87 | 48100 | | | | |
| 51 | 28.92 | 6905 | 2.20 | 28100 | | | | |
| 47 | 31.23 | 7456 | 2.13 | 28300 | | | | |
| 42 | 35.61 | 8502 | 1.82 | 35200 | | | | |
| 38 | 38.46 | 9182 | 1.74 | 36300 | | | | |
| 34 | 43.75 | 10445 | 1.31 | 40900 | | | | |
| 31 | 47.26 | 11283 | 1.31 | 41300 | | | | |
| 27 | 53.75 | 12833 | 0.88 | 47400 | | | | |
| 25 | 58.06 | 13862 | 0.88 | 48100 | | | | |
| 33 | 44.96 | 10771 | 1.48 | 39100 | F 1 2 2 1 4 5 . - M - - - - 3 7 . K - - | 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . | 729 | 225S |
| 30 | 48.56 | 11633 | 1.38 | 40500 | | | | |
| 25 | 58.27 | 13959 | 1.16 | 43800 | | | | |
| 23 | 62.94 | 15078 | 1.07 | 45600 | | | | |
| 20 | 72.17 | 17289 | 0.94 | 48200 | | | | |
| 19 | 77.95 | 18674 | 0.87 | 50200 | | | | |
| 33 | 44.96 | 10734 | 1.48 | 39100 | | | | |
| 30 | 48.56 | 11594 | 1.38 | 40500 | | | | |
| 25 | 58.27 | 13912 | 1.16 | 43800 | | | | |
| 24 | 62.94 | 15027 | 1.07 | 45600 | | | | |
| 21 | 72.17 | 17321 | 0.94 | 48200 | | | | |
| 19 | 77.95 | 18611 | 0.87 | 50200 | | | | |

NOTE

Other output speeds are available using 2 and 8 pole motors
- Please contact our Application Engineers

SERIES F
SELECTION TABLES
GEARED MOTORS

37 kW

6 POLE

45 kW

4 POLE

45 kW

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

| 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 of base mount unit | Motor Sizes |
| 26 | 38.46 | 13797 | 1.17 | 44400 | F 1 2 2 1 4 0 . _ M - - - - 3 7 . M - - | 766 | 225M |
| 23 | 43.75 | 15694 | 0.90 | 48900 | | | |
| 21 | 47.26 | 16954 | 0.90 | 49600 | | | |
| 26 | 38.46 | 13797 | 1.17 | 44400 | F 1 2 2 1 4 0 . _ M - - - - 3 7 . C - - | 810 | 250M |
| 23 | 43.75 | 15694 | 0.90 | 48900 | | | |
| 21 | 47.26 | 16954 | 0.90 | 49600 | | | |
| 290 | 5.08 | 1437 | 1.36 | 28917 | F 0 9 2 1 5 0 . _ M - - - - 4 5 . A - - | 424 | 225M |
| 225 | 6.57 | 1852 | 1.23 | 29900 | | | |
| 211 | 7.00 | 1979 | 1.18 | 29826 | | | |
| 188 | 7.85 | 2220 | 1.12 | 29680 | | | |
| 167 | 8.81 | 2495 | 1.06 | 29387 | | | |
| 146 | 10.13 | 2865 | 0.99 | 29808 | | | |
| 130 | 11.35 | 3218 | 0.93 | 29808 | | | |
| 116 | 12.68 | 3598 | 0.87 | 29808 | | | |
| 101 | 14.66 | 4142 | 0.82 | 29700 | | | |
| 287 | 5.11 | 1448 | 1.77 | 43500 | | | |
| 228 | 6.43 | 1815 | 1.66 | 43500 | | | |
| 205 | 7.13 | 2022 | 1.58 | 43500 | | | |
| 188 | 7.76 | 2198 | 1.52 | 43500 | | | |
| 166 | 8.81 | 2495 | 1.43 | 43500 | | | |
| 149 | 9.77 | 2761 | 1.37 | 43500 | | | |
| 127 | 11.48 | 3249 | 1.24 | 43500 | | | |
| 118 | 12.39 | 3513 | 1.19 | 43500 | | | |
| 101 | 14.46 | 4089 | 1.11 | 43500 | | | |
| 94 | 15.61 | 4414 | 1.06 | 43400 | | | |
| 81 | 18.07 | 5122 | 0.96 | 43400 | | | |
| 71 | 20.46 | 5796 | 0.89 | 43400 | | | |
| 64 | 22.76 | 6435 | 0.85 | 43400 | | | |
| 148 | 9.97 | 2895 | 2.50 | 20300 | F 1 1 2 1 1 0 . _ M - - - - 4 5 . A - - | 589 | 225M |
| 131 | 11.33 | 3290 | 2.37 | 21000 | | | |
| 115 | 12.90 | 3746 | 2.08 | 22200 | | | |
| 108 | 13.66 | 3966 | 2.09 | 22400 | | | |
| 95 | 15.56 | 4518 | 1.83 | 23700 | | | |
| 82 | 17.96 | 5215 | 1.74 | 24600 | | | |
| 72 | 20.46 | 5941 | 1.51 | 26100 | | | |
| 66 | 22.42 | 6510 | 1.49 | 26600 | | | |
| 58 | 25.54 | 7416 | 1.28 | 28300 | | | |
| 52 | 28.40 | 8237 | 1.23 | 29100 | | | |
| 46 | 32.34 | 9391 | 1.09 | 30700 | | | |
| 42 | 34.96 | 10151 | 1.00 | 32100 | | | |
| 37 | 39.83 | 11566 | 0.92 | 33300 | | | |
| 65 | 22.84 | 6632 | 2.20 | 22400 | F 1 2 2 1 2 2 . _ M - - - - 4 5 . A - - | 744 | 225M |
| 60 | 24.67 | 7163 | 2.20 | 19600 | | | |
| 51 | 28.92 | 8398 | 1.81 | 28100 | | | |
| 47 | 31.23 | 9068 | 1.75 | 28300 | | | |
| 42 | 35.61 | 10340 | 1.50 | 35200 | | | |
| 38 | 38.46 | 11168 | 1.43 | 36300 | F 1 2 3 1 4 5 . _ M - - - - 4 5 . A - - | 744 | 225M |
| 34 | 43.75 | 12704 | 1.07 | 40900 | | | |
| 31 | 47.26 | 13723 | 1.07 | 41300 | | | |
| 33 | 44.96 | 13055 | 1.22 | 39100 | | | |
| 30 | 48.56 | 14100 | 1.14 | 40500 | | | |
| 25 | 58.27 | 16920 | 0.96 | 43800 | F 1 2 2 1 4 0 . _ M - - - - 4 5 . C - - | 970 | 280S |
| 24 | 62.94 | 18276 | 0.88 | 45600 | | | |
| 26 | 38.46 | 16780 | 0.96 | 44400 | F 1 2 2 1 4 0 . _ M - - - - 4 5 . M - - | 850 | 250M |
| 26 | 38.46 | 16695 | 0.96 | 44400 | F 1 2 2 1 4 0 . _ M - - - - 4 5 . C - - | 970 | 280S |

SERIES F

SELECTION TABLES

GEARED MOTORS

55 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] Spaces to be filled when entering order | Weight of base mount unit | Motor Sizes |
| 4 POLE | 327 | 4.53 | 1608 | 2.36 | 17900 | F 1 1 2 1 4 . 5 - M _ _ _ _ 5 5 . K - - | 624 | 225M |
| | 287 | 5.16 | 1831 | 2.36 | 18100 | 5 . 0 | | |
| | 268 | 5.53 | 1963 | 2.37 | 18400 | 5 . 6 | | |
| | 235 | 6.30 | 2236 | 2.37 | 18600 | 6 . 3 | | |
| | 206 | 7.20 | 2550 | 2.36 | 18900 | 7 . 1 | | |
| | 180 | 8.20 | 2910 | 2.35 | 18900 | 8 . 0 | | |
| | 169 | 8.75 | 3105 | 2.30 | 19300 | 9 . 0 | | |
| | 148 | 9.97 | 3538 | 2.04 | 20300 | 1 0 . | | |
| | 131 | 11.33 | 4021 | 1.94 | 21000 | 1 1 . | | |
| | 115 | 12.90 | 4578 | 1.71 | 22200 | 1 2 . | | |
| | 108 | 13.66 | 4848 | 1.71 | 22400 | 1 4 . | | |
| | 95 | 15.56 | 5522 | 1.50 | 23700 | 1 6 . | | |
| | 82 | 17.96 | 6374 | 1.42 | 24600 | 1 8 . | | |
| | 72 | 20.46 | 7261 | 1.23 | 26100 | 2 0 . | | |
| | 66 | 22.42 | 7957 | 1.22 | 26600 | 2 2 . | | |
| | 58 | 25.54 | 9064 | 1.05 | 28300 | 2 5 . | | |
| | 52 | 28.40 | 10079 | 1.00 | 29100 | 2 8 . | | |
| | 46 | 32.34 | 11477 | 0.89 | 30700 | 3 2 . | | |
| | 42 | 34.96 | 12407 | 0.82 | 32100 | 3 6 . | | |
| 4 POLE | 327 | 4.53 | 1608 | 2.36 | 17900 | F 1 1 2 1 4 . 5 - M _ _ _ _ 5 5 . A - - | 650 | 250M |
| | 287 | 5.16 | 1831 | 2.36 | 18100 | 5 . 0 | | |
| | 268 | 5.53 | 1963 | 2.37 | 18400 | 5 . 6 | | |
| | 235 | 6.30 | 2236 | 2.37 | 18600 | 6 . 3 | | |
| | 206 | 7.20 | 2550 | 2.36 | 18900 | 7 . 1 | | |
| | 180 | 8.20 | 2910 | 2.35 | 18900 | 8 . 0 | | |
| | 169 | 8.75 | 3105 | 2.30 | 19300 | 9 . 0 | | |
| | 148 | 9.97 | 3538 | 2.04 | 20300 | 1 0 . | | |
| | 131 | 11.33 | 4021 | 1.94 | 21000 | 1 1 . | | |
| | 115 | 12.90 | 4578 | 1.71 | 22200 | 1 2 . | | |
| | 108 | 13.66 | 4848 | 1.71 | 22400 | 1 4 . | | |
| | 95 | 15.56 | 5522 | 1.50 | 23700 | 1 6 . | | |
| | 82 | 17.96 | 6374 | 1.42 | 24600 | 1 8 . | | |
| | 72 | 20.46 | 7261 | 1.23 | 26100 | 2 0 . | | |
| | 66 | 22.42 | 7957 | 1.22 | 26600 | 2 2 . | | |
| | 58 | 25.54 | 9064 | 1.05 | 28300 | 2 5 . | | |
| | 52 | 28.40 | 10079 | 1.00 | 29100 | 2 8 . | | |
| | 46 | 32.34 | 11477 | 0.89 | 30700 | 3 2 . | | |
| | 42 | 34.96 | 12407 | 0.82 | 32100 | 3 6 . | | |
| 4 POLE | 320 | 4.63 | 1643 | 2.50 | 21800 | F 1 2 2 1 4 . 5 - M _ _ _ _ 5 5 . K - - | 805 | 225M |
| | 296 | 5.00 | 1774 | 2.50 | 22200 | 5 . 0 | | |
| | 187 | 7.90 | 2804 | 2.50 | 23900 | 8 . 0 | | |
| | 161 | 9.19 | 3262 | 2.50 | 24200 | 9 . 0 | | |
| | 128 | 11.55 | 4099 | 2.50 | 24600 | 1 1 . | | |
| | 119 | 12.48 | 4429 | 2.50 | 24500 | 1 2 . | | |
| | 107 | 13.88 | 4926 | 2.43 | 21400 | 1 4 . | | |
| | 99 | 14.99 | 5320 | 2.43 | 19000 | 1 6 . | | |
| | 83 | 17.77 | 6307 | 2.20 | 17900 | 1 8 . | | |
| | 77 | 19.19 | 6811 | 2.20 | 15100 | 2 0 . | | |
| | 65 | 22.84 | 8106 | 1.80 | 22400 | 2 2 . | | |
| | 60 | 24.67 | 8755 | 1.80 | 19600 | 2 5 . | | |
| | 61 | 28.92 | 10264 | 1.48 | 28100 | 2 8 . | | |
| | 47 | 31.23 | 11083 | 1.43 | 28300 | 3 2 . | | |
| | 42 | 35.61 | 12638 | 1.22 | 35200 | 3 6 . | | |
| | 38 | 38.46 | 13649 | 1.17 | 36300 | 4 0 . | | |
| | 34 | 43.75 | 15527 | 0.88 | 40900 | 4 5 . | | |
| | 31 | 47.26 | 16773 | 0.88 | 41300 | 5 0 . | | |
| 4 POLE | 320 | 4.63 | 1643 | 2.50 | 21800 | F 1 2 2 1 4 . 5 - M _ _ _ _ 5 5 . A - - | 805 | 250M |
| | 296 | 5.00 | 1774 | 2.50 | 22200 | 5 . 0 | | |
| | 187 | 7.90 | 2804 | 2.50 | 23900 | 8 . 0 | | |
| | 161 | 9.19 | 3262 | 2.50 | 24200 | 9 . 0 | | |
| | 128 | 11.55 | 4099 | 2.50 | 24600 | 1 1 . | | |
| | 119 | 12.48 | 4429 | 2.50 | 24500 | 1 2 . | | |
| | 107 | 13.88 | 4926 | 2.43 | 21400 | 1 4 . | | |
| | 99 | 14.99 | 5320 | 2.43 | 19000 | 1 6 . | | |
| | 83 | 17.77 | 6307 | 2.20 | 17900 | 1 8 . | | |
| | 77 | 19.19 | 6811 | 2.20 | 15100 | 2 0 . | | |
| | 65 | 22.84 | 8106 | 1.80 | 22400 | 2 2 . | | |
| | 60 | 24.67 | 8755 | 1.80 | 19600 | 2 5 . | | |
| | 61 | 28.92 | 10264 | 1.48 | 28100 | 2 8 . | | |
| | 47 | 31.23 | 11083 | 1.43 | 28300 | 3 2 . | | |
| | 42 | 35.61 | 12638 | 1.22 | 35200 | 3 6 . | | |
| | 38 | 38.46 | 13649 | 1.17 | 36300 | 4 0 . | | |
| | 34 | 43.75 | 15527 | 0.88 | 40900 | 4 5 . | | |
| | 31 | 47.26 | 16773 | 0.88 | 41300 | 5 0 . | | |
| 4 POLE | 33 | 44.96 | 15956 | 0.99 | 39100 | F 1 2 3 1 4 5 . - M _ _ _ _ 5 5 . K - - | 774 | 225M |
| | 10 | 48.56 | 17234 | 0.93 | 40500 | 5 0 . | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

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 Spaces to be filled when entering order | | Weight of base mount unit | Motor Sizes |
| 327 | 4.53 | 2192 | 1.73 | 17900 | F | 1 1 2 1 4 . 5 _ M - - - - 7 5 . K - - | 650 | 250M |
| 287 | 5.16 | 2497 | 1.73 | 18100 | | 5 . 0 | | |
| 268 | 5.53 | 2676 | 1.73 | 18400 | | 5 . 6 | | |
| 235 | 6.30 | 3049 | 1.73 | 18600 | | 6 . 3 | | |
| 206 | 7.20 | 3484 | 1.73 | 18900 | | 7 . 1 | | |
| 180 | 8.20 | 3968 | 1.73 | 18900 | | 8 . 0 | | |
| 169 | 8.75 | 4235 | 1.69 | 19300 | | 9 . 0 | | |
| 148 | 9.97 | 4825 | 1.50 | 20300 | | 1 0 . | | |
| 131 | 11.33 | 5843 | 1.42 | 21000 | | 1 1 . | | |
| 115 | 12.90 | 6243 | 1.25 | 22200 | | 1 2 . | | |
| 108 | 13.66 | 6611 | 1.25 | 22400 | | 1 4 . | | |
| 95 | 15.56 | 7530 | 1.10 | 23700 | | 1 6 . | | |
| 82 | 17.96 | 8692 | 1.04 | 24600 | | 1 8 . | | |
| 72 | 20.46 | 9902 | 0.91 | 26100 | | 2 0 . | | |
| 66 | 22.42 | 10850 | 0.89 | 26600 | | 2 2 . | | |
| 320 | 4.63 | 2241 | 1.84 | 21800 | F | 1 2 2 1 4 . 5 _ M - - - - 7 5 . K - - | 865 | 250M |
| 296 | 5.00 | 2420 | 1.84 | 22200 | | 5 . 0 | | |
| 258 | 5.73 | 2773 | 1.84 | 22700 | | 5 . 6 | | |
| 239 | 6.19 | 2996 | 1.84 | 23100 | | 6 . 3 | | |
| 202 | 7.31 | 3538 | 1.84 | 23600 | | 7 . 1 | | |
| 187 | 7.90 | 3823 | 1.84 | 23900 | | 8 . 0 | | |
| 161 | 9.19 | 4448 | 1.84 | 24200 | | 9 . 0 | | |
| 149 | 9.92 | 4801 | 1.84 | 24500 | | 1 0 . | | |
| 128 | 11.55 | 5590 | 1.84 | 24600 | | 1 1 . | | |
| 119 | 12.48 | 6040 | 1.84 | 24500 | | 1 2 . | | |
| 107 | 13.88 | 6717 | 1.79 | 21400 | | 1 4 . | | |
| 99 | 14.99 | 7254 | 1.79 | 19000 | | 1 6 . | | |
| 83 | 17.77 | 8600 | 1.62 | 17900 | | 1 8 . | | |
| 77 | 19.19 | 9287 | 1.61 | 15100 | | 2 0 . | | |
| 65 | 22.84 | 11053 | 1.33 | 22400 | | 2 2 . | | |
| 60 | 24.67 | 11939 | 1.32 | 19600 | | 2 5 . | | |
| 51 | 28.92 | 13996 | 1.09 | 28100 | | 2 8 . | | |
| 47 | 31.23 | 15114 | 1.05 | 28300 | | 3 2 . | | |
| 42 | 35.61 | 17234 | 0.90 | 35200 | | 3 6 . | | |
| 38 | 38.46 | 18613 | 0.86 | 36300 | | 4 0 . | | |
| 320 | 4.63 | 2236 | 1.84 | 21800 | F | 1 2 2 1 4 . 5 _ M - - - - 7 5 . A - - | 975 | 280S |
| 297 | 5.00 | 2415 | 1.84 | 22200 | | 5 . 0 | | |
| 259 | 5.73 | 2767 | 1.84 | 22700 | | 5 . 6 | | |
| 240 | 6.19 | 2990 | 1.84 | 23100 | | 6 . 3 | | |
| 203 | 7.31 | 3531 | 1.84 | 23600 | | 7 . 1 | | |
| 188 | 7.90 | 3815 | 1.84 | 23900 | | 8 . 0 | | |
| 161 | 9.19 | 4439 | 1.84 | 24200 | | 9 . 0 | | |
| 149 | 9.92 | 4791 | 1.84 | 24500 | | 1 0 . | | |
| 128 | 11.55 | 5578 | 1.84 | 24600 | | 1 1 . | | |
| 119 | 12.48 | 6028 | 1.84 | 24500 | | 1 2 . | | |
| 107 | 13.88 | 6704 | 1.79 | 21400 | | 1 4 . | | |
| 99 | 14.99 | 7240 | 1.79 | 19000 | | 1 6 . | | |
| 83 | 17.77 | 8582 | 1.62 | 17900 | | 1 8 . | | |
| 77 | 19.19 | 9268 | 1.61 | 15100 | | 2 0 . | | |
| 65 | 22.84 | 11031 | 1.33 | 22400 | | 2 2 . | | |
| 60 | 24.67 | 11915 | 1.32 | 19600 | | 2 5 . | | |
| 51 | 28.92 | 13968 | 1.09 | 28100 | | 2 8 . | | |
| 47 | 31.23 | 15083 | 1.05 | 28300 | | 3 2 . | | |
| 42 | 35.61 | 17199 | 0.90 | 35200 | | 3 6 . | | |
| 39 | 38.46 | 18575 | 0.86 | 36300 | | 4 0 . | | |

90 kW

4 POLE

| | | | | | | | | |
|-----|-------|-------|------|-------|---|---------------------------------------|------|------|
| 321 | 4.63 | 2682 | 1.53 | 21800 | F | 1 2 2 1 4 . 5 _ M - - - - 9 0 . A - - | 1020 | 280M |
| 297 | 5.00 | 2896 | 1.53 | 22200 | | 5 . 0 | | |
| 259 | 5.73 | 3319 | 1.53 | 22700 | | 5 . 6 | | |
| 240 | 6.19 | 3585 | 1.53 | 23100 | | 6 . 3 | | |
| 203 | 7.31 | 4234 | 1.53 | 23600 | | 7 . 1 | | |
| 188 | 7.90 | 4576 | 1.53 | 23900 | | 8 . 0 | | |
| 161 | 9.19 | 5323 | 1.53 | 24200 | | 9 . 0 | | |
| 150 | 9.92 | 5745 | 1.53 | 24500 | | 1 0 . | | |
| 128 | 11.55 | 6690 | 1.53 | 24600 | | 1 1 . | | |
| 119 | 12.48 | 7228 | 1.53 | 24500 | | 1 2 . | | |
| 107 | 13.88 | 8039 | 1.49 | 21400 | | 1 4 . | | |
| 99 | 14.99 | 8682 | 1.49 | 19000 | | 1 6 . | | |
| 84 | 17.77 | 10292 | 1.35 | 17900 | | 1 8 . | | |
| 77 | 19.19 | 11114 | 1.35 | 15100 | | 2 0 . | | |
| 65 | 22.84 | 13228 | 1.11 | 22400 | | 2 2 . | | |
| 60 | 24.67 | 14288 | 1.10 | 19600 | | 2 5 . | | |
| 51 | 28.92 | 16750 | 0.91 | 28100 | | 2 8 . | | |
| 48 | 31.23 | 18088 | 0.88 | 28300 | | 3 2 . | | |

NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

SELECTION TABLES

GEARED MOTORS

110 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 of base mount unit | Motor Sizes | |
| 320 | 4.63 | 2682 | 1.25 | 21800 | F | 1 | 2 | 2 | 1 | 4 | .5 | - | M | - | - | 1080 | 280M |
| 297 | 5.00 | 2896 | 1.25 | 22200 | | | | | | 5 | . | 0 | | | | | |
| 259 | 5.73 | 3319 | 1.25 | 22700 | | | | | | 5 | . | 6 | | | | | |
| 240 | 6.19 | 3585 | 1.25 | 23100 | | | | | | 6 | . | 3 | | | | | |
| 203 | 7.31 | 4234 | 1.25 | 23600 | | | | | | 7 | . | 1 | | | | | |
| 188 | 7.90 | 4576 | 1.25 | 23900 | | | | | | 8 | . | 0 | | | | | |
| 161 | 9.19 | 5323 | 1.25 | 24200 | | | | | | 9 | . | 0 | | | | | |
| 149 | 9.92 | 5745 | 1.25 | 24500 | | | | | | 1 | 0 | . | | | | | |
| 128 | 11.55 | 6690 | 1.25 | 24600 | | | | | | 1 | 1 | . | | | | | |
| 119 | 12.48 | 7228 | 1.25 | 24500 | | | | | | 1 | 2 | . | | | | | |
| 107 | 13.88 | 8039 | 1.22 | 21400 | | | | | | 1 | 4 | . | | | | | |
| 99 | 14.99 | 8682 | 1.22 | 19000 | | | | | | 1 | 6 | . | | | | | |
| 83 | 17.77 | 10292 | 1.10 | 17900 | | | | | | 1 | 8 | . | | | | | |
| 77 | 19.19 | 11114 | 1.10 | 15100 | | | | | | 2 | 0 | . | | | | | |
| 65 | 22.84 | 13228 | 0.90 | 22400 | | | | | | 2 | 2 | . | | | | | |
| 60 | 24.67 | 14288 | 0.90 | 19600 | | | | | | 2 | 5 | . | | | | | |

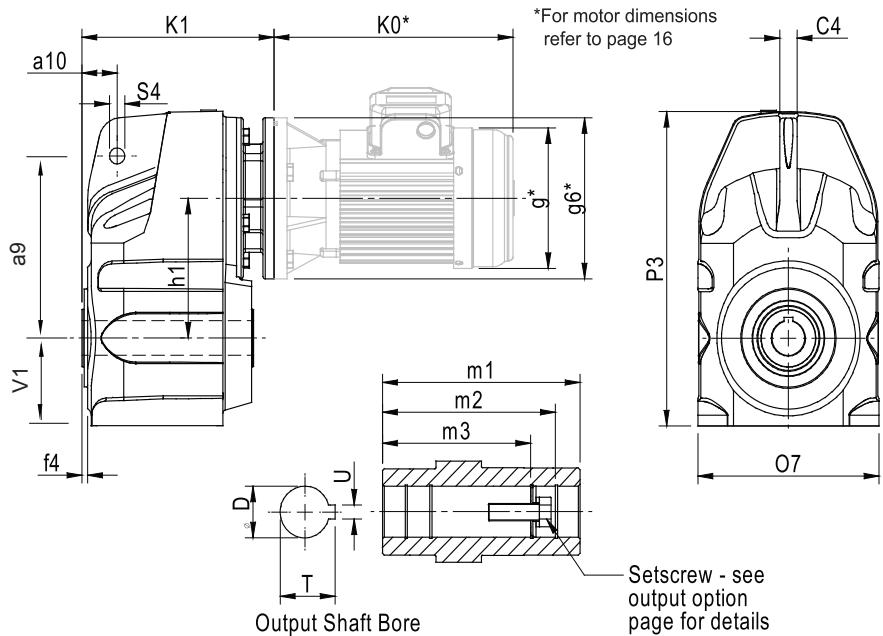
NOTE

Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

SERIES F

DIMENSIONS MOTORISED

F11 & F12



Please Note: The appearance of the F11 & F12 units is different to the other units.
See pictures above.

| UNIT SIZE | a9 | a10 | C4 | f4 | h1 | O7 | P3 | S4 | V1 | Hollow Output Bore | | | | | |
|---------------|-----|-----|----|-----|-----|-----|-----|----|-----|--------------------|-------|-----|-----|-------|----|
| | | | | | | | | | | D | m1 | m2 | m3 | T | U |
| F0222 & F0232 | 140 | 25 | 15 | 5 | 96 | 150 | 224 | 15 | 59 | 25 | 117.5 | 105 | 89 | 28.5 | 8 |
| F0322 & F0332 | 158 | 32 | 16 | 5 | 121 | 171 | 273 | 15 | 76 | 30 | 156.5 | 122 | 105 | 33.5 | 8 |
| F0422 & F0432 | 170 | 32 | 16 | 5 | 121 | 171 | 273 | 15 | 76 | 35 | 156.5 | 132 | 122 | 38.5 | 10 |
| F0522 & F0532 | 198 | 41 | 16 | 5 | 144 | 206 | 318 | 15 | 80 | 40 | 179 | 174 | 142 | 43.5 | 12 |
| F0622 & F0632 | 218 | 41 | 16 | 6 | 165 | 231 | 365 | 15 | 101 | 40 | 205 | 174 | 156 | 43.5 | 12 |
| F0722 & F0732 | 278 | 50 | 20 | 7 | 200 | 282 | 442 | 24 | 127 | 50 | 233.5 | 198 | 183 | 54 | 14 |
| F0822 & F0832 | 346 | 62 | 26 | 3 | 243 | 346 | 536 | 24 | 156 | 60 | 270 | 230 | 210 | 64.6 | 18 |
| F0921 & F0931 | 395 | 70 | 30 | 5 | 274 | 400 | 612 | 27 | 175 | 70 | 330 | 270 | - | 75 | 20 |
| F1021 & F1031 | 485 | 88 | 36 | 5.5 | 332 | 470 | 748 | 27 | 216 | 80 | 370 | 313 | - | 85.5 | 22 |
| F1121 & F1131 | 485 | 89 | 40 | 3 | 385 | 498 | 784 | 26 | 237 | 90 | 350 | - | - | 95.4 | 25 |
| F1221 & F1231 | 550 | 99 | 50 | 4 | 414 | 550 | 877 | 33 | 236 | 100 | 410 | - | - | 106.4 | 28 |

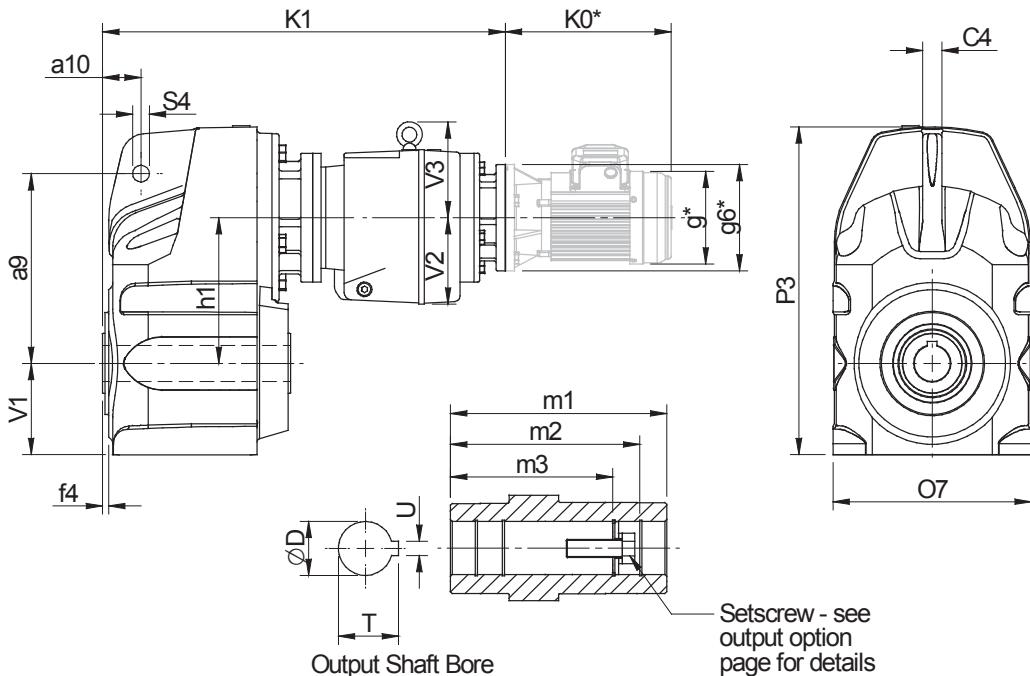
| MOTOR FRAME SIZE | F0222 | F0232 | F0322 | F0332 | F0422 | F0432 | F0522 | F0532 | F0622 | F0632 | F0722 | F0732 | F0822 | F0832 | F0921 | F0931 | F1021 | F1031 | F1121 | F1131 | F1221 | F1231 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | K1 |
| 63 | 154 | 169 | 175 | 188 | 189 | 219 | 200 | 230 | - | 250 | - | - | - | - | - | - | - | - | - | - | - | - |
| 71 | 158 | 173 | 179 | 192 | 195 | 223 | 206 | 234 | - | 256 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80 | 171 | 186 | 192 | 205 | 213 | 236 | 224 | 247 | 259 | 274 | 340 | 325 | 354 | 380 | - | 441 | - | - | - | - | - | - |
| 90 | 181 | 196 | 202 | 215 | 223 | 246 | 234 | 257 | 269 | 284 | 340 | 335 | 354 | 380 | - | 441 | - | - | - | - | - | - |
| 100 | 189 | 204 | 210 | 223 | 250 | 254 | 261 | 265 | 281 | 311 | 346 | 347 | 360 | 386 | 390 | 447 | - | 446 | - | - | - | - |
| 112 | 189 | 204 | 210 | 223 | 250 | 254 | 261 | 265 | 281 | 311 | 346 | 347 | 360 | 386 | 390 | 447 | - | 446 | - | - | - | - |
| 132 | - | - | - | - | 250 | - | 261 | - | 303 | 311 | 346 | 369 | 360 | - | 390 | 447 | - | 446 | - | - | 524 | |
| 160 | - | - | - | - | - | - | - | - | 311 | - | 376 | - | 395 | - | 425 | 482 | - | 476 | - | - | 496 | |
| 180 | - | - | - | - | - | - | - | - | - | - | - | - | 395 | - | 425 | 482 | 491 | 476 | 516 | 496 | | |
| 200 | - | - | - | - | - | - | - | - | - | - | - | - | 395 | - | 425 | 482 | 491 | - | 516 | 524 | | |
| 225 | - | - | - | - | - | - | - | - | - | - | - | - | 422 | - | 452 | 509 | 521 | - | 546 | 526 | | |
| 250 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 521 | - | 546 | - | | |
| 280 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 546 | - | |

SERIES F

DIMENSIONS

MOTORISED QUAD

*For motor dimensions
refer to page 16



| UNIT SIZE | a9 | a10 | C4 | f4 | h1 | O7 | P3 | S4 | V1 | V2 | V3 | Hollow Output Bore | | | | | |
|-----------|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|--------------------|-------|-----|-----|------|----|
| | | | | | | | | | | | | D | m1 | m2 | m3 | T | U |
| F0342 | 158 | 32 | 16 | 5 | 121 | 171 | 273 | 15 | 76 | 76 | 74 | 30 | 156.5 | 122 | 105 | 33.5 | 8 |
| F0442 | 170 | 32 | 16 | 5 | 121 | 171 | 273 | 15 | 76 | 76 | 74 | 35 | 156.5 | 132 | 122 | 38.5 | 10 |
| F0542 | 198 | 41 | 16 | 5 | 144 | 206 | 318 | 15 | 80 | 91 | 90 | 40 | 179 | 174 | 142 | 43.5 | 12 |
| F0642 | 218 | 41 | 16 | 6 | 165 | 231 | 365 | 15 | 101 | 91 | 90 | 40 | 205 | 174 | 156 | 43.5 | 12 |
| F0742 | 278 | 50 | 20 | 7 | 200 | 282 | 442 | 24 | 127 | 91 | 90 | 50 | 233.5 | 198 | 183 | 54 | 14 |
| F0842 | 346 | 62 | 26 | 3 | 243 | 346 | 536 | 24 | 156 | 115 | 93 | 60 | 270 | 230 | 210 | 64.6 | 18 |
| F0941 | 395 | 70 | 30 | 5 | 274 | 400 | 612 | 27 | 175 | 115 | 93 | 70 | 330 | 270 | - | 75 | 20 |
| F1041 | 485 | 88 | 36 | 5.5 | 332 | 470 | 748 | 27 | 216 | 140 | 155 | 80 | 370 | 313 | - | 95.4 | 25 |

| MOTOR FRAME SIZE | F0342 | F0442 | F0542 | F0642 | F0742 | F0842 | F0941 | F1041 | K1 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|
| | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 | K1 |
| 63 | 361 | 361 | 413 | 424 | 459 | 515 | 564 | - | | | | | | | | |
| 71 | 365 | 365 | 417 | 428 | 463 | 521 | 570 | - | | | | | | | | |
| 80 | 378 | 378 | 430 | 441 | 476 | 539 | 588 | 672 | | | | | | | | |
| 90 | 388 | 388 | 440 | 451 | 486 | 549 | 598 | 682 | | | | | | | | |
| 100 | 396 | 396 | 448 | 448 | 494 | 576 | 625 | 694 | | | | | | | | |
| 112 | 396 | 396 | 448 | 448 | 494 | 576 | 625 | 694 | | | | | | | | |
| 132 | - | - | - | - | - | 576 | 625 | 716 | | | | | | | | |
| 160 | - | - | - | - | - | - | - | 724 | | | | | | | | |
| 180 | - | - | - | - | - | - | - | - | | | | | | | | |
| 200 | - | - | - | - | - | - | - | - | | | | | | | | |
| 225 | - | - | - | - | - | - | - | - | | | | | | | | |

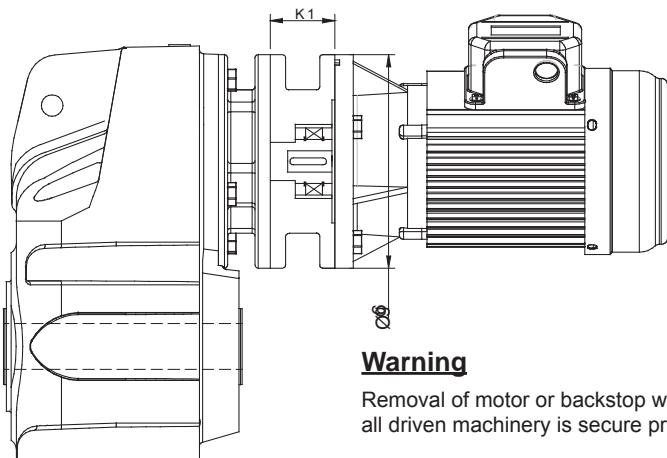
SERIES F

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



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 |

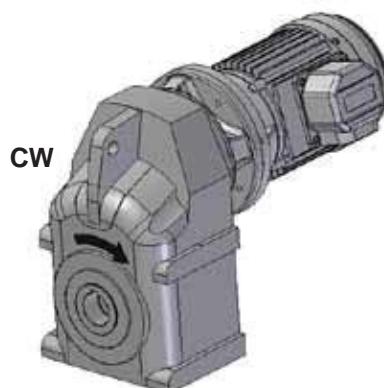
NEMA C FLANGE

| 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 / 215TC | 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 18 for column 20 entry

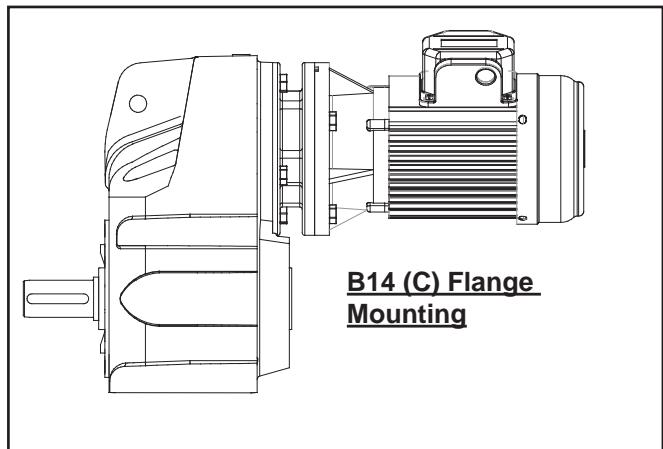
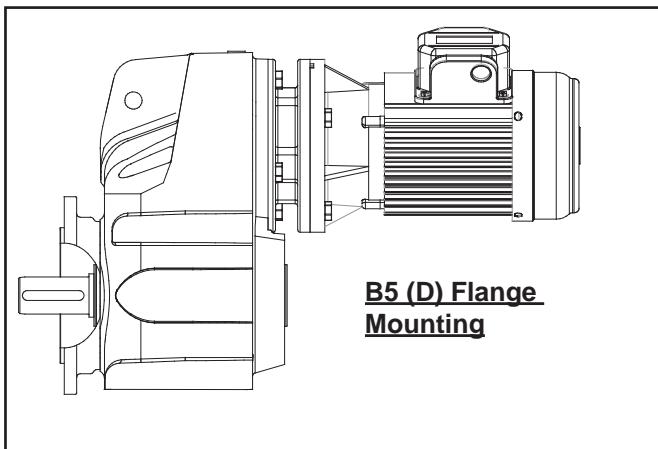
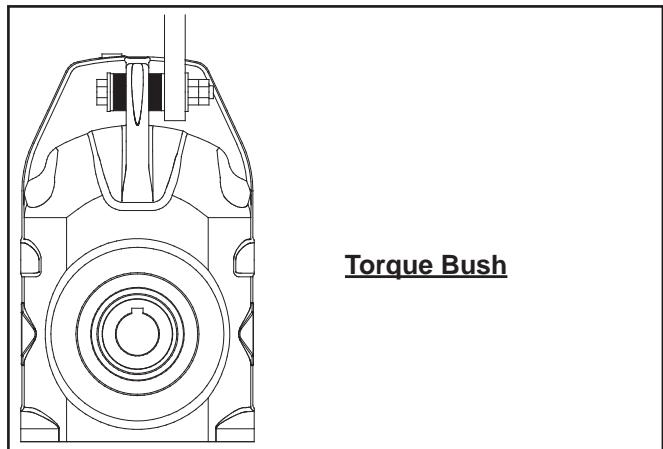
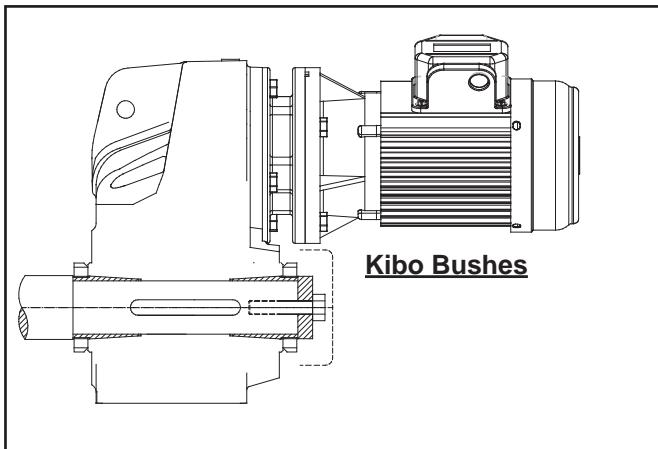
| | | | | |
|----|---|---------------|---|---------------|
| CW | - | Free Rotation | - | Clockwise |
| | | Locked | - | Anticlockwise |
| AC | - | Free Rotation | - | Anticlockwise |
| | | Locked | - | Clockwise |



SERIES F

DIMENSIONS

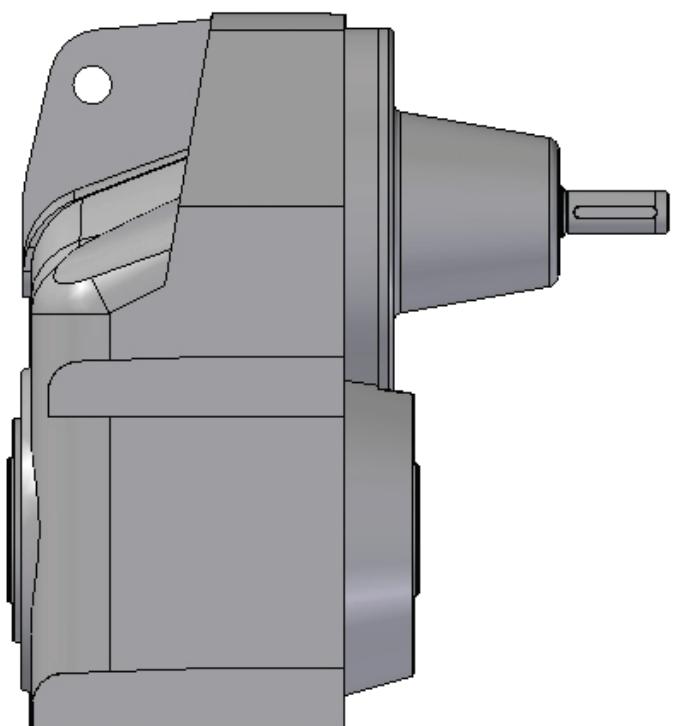
MOTORISED OPTIONS



SERIES F
NOTES

SERIES F

REDUCER



**REDUCER
SERIES F**

SERIES F

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 Application Engineering 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.

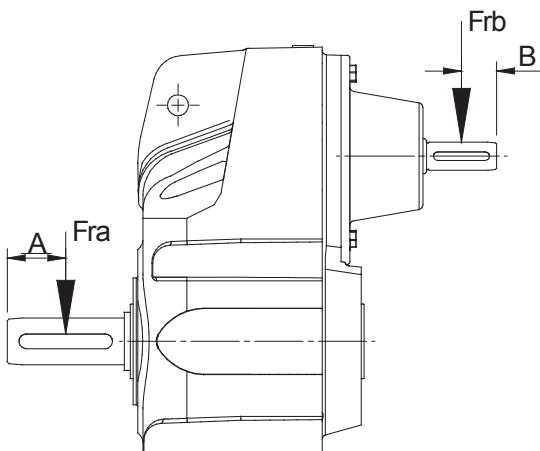
Overhung load (Newtons)

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

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.



Inputshaft Overhung Loads, Frb (Kn) 1450 rpm

Two, Three and Five Stage Units

| | F02 | F03 | F04 | F05 | F06 | F07 | F08 | F09 | F10 | F11 | F12 |
|----------------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|
| 2 Stage | 1.5 | 1.5 | 1.5 | 1.25 | 1.05 | 2.1 | 3.1 | 3.5 | 4.5 | N/A | N/A |
| 3 Stage | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.25 | 2.1 | 3.1 | 3.5 | N/A | N/A |
| 4 Stage | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 | N/A | N/A |

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 Application Engineering.

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 A output or B input, refer to Application Engineering.

Distance midway along the shaft extension

| Size of unit | NO of Reductions | Dimension A (mm) | Dimension B (mm) |
|--------------|------------------|------------------|------------------|
| F02 | 2 | - | 20 |
| | 3 | - | 20 |
| | 4 | - | - |
| F03 | 2 | 23.5 | 20 |
| | 3 | 23.5 | 20 |
| | 4 | - | 20 |
| F04 | 2 | 28 | 20 |
| | 3 | 28 | 20 |
| | 4 | 28 | 20 |
| F05 | 2 | 33 | 20 |
| | 3 | 33 | 20 |
| | 4 | 32 | 20 |
| F06 | 2 | 38 | 20 |
| | 3 | 38 | 20 |
| | 4 | 38 | 20 |
| F07 | 2 | 47.5 | 25 |
| | 3 | 47.5 | 20 |
| | 4 | 47.5 | 20 |
| F08 | 2 | 55 | 30 |
| | 3 | 55 | 25 |
| | 4 | 55 | 20 |
| F09 | 2 | 68 | 40 |
| | 3 | 65 | 30 |
| | 4 | 65 | 20 |
| F10 | 2 | 85 | 35 |
| | 3 | 85 | 40 |
| | 4 | 85 | 25 |
| F11 | 2 | 70 | - |
| | 3 | 70 | - |
| | 4 | - | - |
| F12 | 2 | 80 | - |
| | 3 | 80 | - |
| | 4 | - | - |

SERIES F

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

Thermal Power (kW)

| Ambient Temperature Deg C | | | | | | | |
|---------------------------|------|------|------|----|------|------|-----|
| -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 |
| 1.57 | 1.43 | 1.29 | 1.14 | 1 | 0.86 | 0.71 | 0.5 |

| i Ratio | N1 (rpm) | F0222 | F0322 F0422 | F0522 | F0622 | F0722 | F0822 | F0921 | F1021 | F1121 | F1221 |
|----------|----------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Up to 16 | 2900 | - | - | - | - | - | - | - | - | - | - |
| | 1750 | 5.8 | 8.7 | 16 | 20 | 30 | 47 | 66 | 98 | 113 | 173 |
| | 1450 | 5.1 | 8.1 | 14 | 18 | 27 | 42 | 59 | 88 | 103 | 158 |
| | 960 | 4.6 | 6.0 | 10 | 14 | 20 | 32 | 44 | 66 | 77 | 119 |
| 20 | 2900 | 7.1 | 8.5 | 15 | 20 | 28 | 48 | 62 | 87 | 101 | 154 |
| | 1750 | 5.2 | 7.6 | 14 | 18 | 25 | 43 | 55 | 77 | 91 | 140 |
| | 1450 | 4.6 | 6.8 | 12 | 15 | 23 | 39 | 50 | 70 | 82 | 127 |
| | 960 | 4.2 | 5.0 | 9.2 | 12 | 17 | 29 | 37 | 52 | 61 | 95 |
| 22 | 2900 | 4.5 | 7.5 | 14 | 17 | 26 | 41 | 55 | 78 | 95 | 140 |
| | 1750 | 4.7 | 6.8 | 12 | 15 | 23 | 36 | 49 | 70 | 84 | 124 |
| | 1450 | 4.1 | 6.1 | 11 | 14 | 21 | 32 | 45 | 63 | 75 | 112 |
| | 960 | 3.7 | 4.5 | 8 | 10 | 16 | 25 | 33 | 47 | 57 | 85 |
| 25 | 2900 | 3.1 | 7.1 | 14 | 16 | 24 | 38 | 50 | 72 | 87 | 129 |
| | 1750 | 4.4 | 6.2 | 12 | 13 | 21 | 33 | 44 | 63 | 77 | 116 |
| | 1450 | 3.9 | 5.6 | 11 | 12 | 19 | 29 | 40 | 57 | 69 | 104 |
| | 960 | 3.4 | 4.1 | 8.0 | 9.0 | 14 | 22 | 30 | 42 | 51 | 76 |
| 28 | 2900 | 2.7 | 6.5 | 12 | 15 | 22 | 34 | 48 | 69 | 80 | 116 |
| | 1750 | 4.1 | 5.6 | 10 | 12 | 19 | 29 | 42 | 61 | 69 | 102 |
| | 1450 | 3.5 | 5.0 | 9.3 | 11 | 17 | 26 | 37 | 53 | 62 | 91 |
| | 960 | 3.1 | 3.8 | 6.9 | 8.2 | 13 | 20 | 28 | 40 | 47 | 67 |
| 32 | 2900 | 2.5 | 6.2 | 11 | 14 | 21 | 32 | 45 | 63 | 73 | 112 |
| | 1750 | 3.8 | 5.3 | 9.9 | 12 | 18 | 27 | 38 | 55 | 64 | 95 |
| | 1450 | 3.3 | 4.7 | 8.9 | 11 | 16 | 24 | 34 | 49 | 57 | 85 |
| | 960 | 2.9 | 3.4 | 6.6 | 7.9 | 12 | 18 | 25 | 36 | 42 | 64 |
| 36 | 2900 | 2.7 | 5.5 | 10 | 13 | 19 | 30 | 41 | 60 | 71 | 104 |
| | 1750 | 3.5 | 4.7 | 8.6 | 11 | 16 | 26 | 35 | 51 | 61 | 88 |
| | 1450 | 2.9 | 4.2 | 7.6 | 9.5 | 14 | 23 | 31 | 45 | 53 | 77 |
| | 960 | 2.6 | 3.1 | 5.7 | 6.9 | 11 | 17 | 23 | 33 | 40 | 57 |
| 40 | 2900 | 2.5 | 5.3 | 9.2 | 12 | 18 | 26 | 38 | 56 | 66 | 98 |
| | 1750 | 3.1 | 4.4 | 7.5 | 10 | 15 | 22 | 32 | 46 | 55 | 82 |
| | 1450 | 2.5 | 3.9 | 6.6 | 8.9 | 13 | 19 | 28 | 42 | 49 | 73 |
| | 960 | 2.3 | 2.9 | 4.9 | 6.5 | 9.6 | 14 | 21 | 30 | 36 | 54 |
| 50 | 2900 | 1.9 | 4.8 | 8.7 | 10 | 17 | 23 | 34 | 49 | 57 | 87 |
| | 1750 | 2.8 | 3.9 | 7.1 | 8.6 | 13 | 19 | 28 | 39 | 47 | 71 |
| | 1450 | 2.3 | 3.4 | 6.2 | 7.6 | 12 | 17 | 25 | 35 | 41 | 63 |
| | 960 | 2.0 | 2.5 | 4.6 | 5.6 | 8.6 | 12 | 18 | 26 | 30 | 46 |

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

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0222 | | | | | F0322 | | | | | F0422 | | | | | F0522 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| 6 | 7 | 8 | 2900 | | | | | | | | | | | | | | | | 599 | | 355 | 23.10 | 0.42 |
| 5 | . | 0 | 1450 | | | | | | | | | | | | | | | | 299 | 4.841 | 394 | 12.80 | 0.73 |
| | | | 960 | | | | | | | | | | | | | | | | 198 | | 395 | 8.44 | 1.00 |
| | | | 725 | | | | | | | | | | | | | | | | 149 | | 395 | 6.38 | 1.25 |
| | | | 2900 | 491 | 5.903 | 52 | 2.80 | 1.07 | | | | | | | | | | | 426 | 6.806 | 428 | 19.70 | 0.55 |
| 6 | . | 3 | 1450 | 245 | | 61 | 1.62 | 1.38 | | | | | | | | | | | 213 | | 516 | 11.80 | 0.95 |
| | | | 960 | 162 | | 68 | 1.19 | 1.60 | | | | | | | | | | | 141 | | 516 | 7.84 | 1.31 |
| | | | 725 | 122 | | 72 | 0.95 | 1.78 | | | | | | | | | | | 106 | | 516 | 5.92 | 1.64 |
| | | | 2900 | 363 | 7.974 | 61 | 2.41 | 1.19 | 463 | 6.262 | 251 | 12.60 | 0.99 | 463 | 6.262 | 251 | 12.60 | 0.99 | 380 | 7.628 | 453 | 18.60 | 0.60 |
| 7 | . | 1 | 1450 | 181 | | 71 | 1.40 | 1.54 | 231 | | 286 | 7.16 | 1.44 | 231 | | 286 | 7.16 | 1.44 | 190 | | 542 | 11.10 | 1.04 |
| | | | 960 | 120 | | 79 | 1.03 | 1.79 | 153 | | 286 | 4.74 | 1.80 | 153 | | 286 | 4.74 | 1.80 | 125 | | 556 | 7.54 | 1.44 |
| | | | 725 | 90 | | 84 | 0.82 | 1.98 | 115 | | 287 | 3.58 | 2.11 | 115 | | 287 | 3.58 | 2.11 | 95 | | 557 | 5.69 | 1.78 |
| | | | 2900 | 319 | 9.069 | 65 | 2.25 | 1.25 | 330 | 8.784 | 283 | 10.10 | 1.19 | 330 | 8.784 | 283 | 10.10 | 1.19 | 338 | 8.563 | 477 | 17.50 | 0.66 |
| 9 | . | 0 | 1450 | 159 | | 76 | 1.32 | 1.61 | 165 | | 314 | 5.60 | 1.73 | 165 | | 314 | 5.60 | 1.73 | 169 | | 557 | 10.20 | 1.13 |
| | | | 960 | 105 | | 84 | 0.96 | 1.87 | 109 | | 319 | 3.76 | 2.17 | 109 | | 319 | 3.76 | 2.17 | 112 | | 558 | 6.74 | 1.57 |
| | | | 725 | 79 | | 89 | 0.77 | 2.08 | 82 | | 319 | 2.84 | 2.53 | 82 | | 319 | 2.84 | 2.53 | 84 | | 558 | 5.09 | 1.96 |
| | | | 2900 | 282 | 10.27 | 68 | 2.09 | 1.31 | 299 | 9.680 | 287 | 9.31 | 1.26 | 299 | 9.680 | 287 | 9.31 | 1.26 | 266 | 10.87 | 527 | 15.20 | 0.80 |
| 1 | 0 | . | 1450 | 141 | | 81 | 1.23 | 1.68 | 149 | | 319 | 5.16 | 1.83 | 149 | | 319 | 5.16 | 1.83 | 133 | | 580 | 8.34 | 1.37 |
| | | | 960 | 93 | | 88 | 0.89 | 1.96 | 99 | | 327 | 3.50 | 2.28 | 99 | | 327 | 3.50 | 2.28 | 88 | | 614 | 5.84 | 1.89 |
| | | | 725 | 70 | | 94 | 0.71 | 2.17 | 74 | | 327 | 2.64 | 2.67 | 74 | | 327 | 2.64 | 2.67 | 66 | | 615 | 4.42 | 2.37 |
| | | | 2900 | 220 | 13.14 | 75 | 1.81 | 1.43 | 263 | 10.99 | 292 | 8.34 | 1.35 | 263 | 10.99 | 292 | 8.34 | 1.35 | 235 | 12.33 | 537 | 13.70 | 0.88 |
| 1 | 2 | . | 1450 | 110 | | 89 | 1.06 | 1.84 | 131 | | 326 | 4.65 | 1.96 | 131 | | 326 | 4.65 | 1.96 | 117 | | 591 | 7.49 | 1.51 |
| | | | 960 | 73 | | 97 | 0.77 | 2.14 | 87 | | 329 | 3.10 | 2.45 | 87 | | 329 | 3.10 | 2.45 | 77 | | 625 | 5.24 | 2.10 |
| | | | 725 | 55 | | 104 | 0.62 | 2.37 | 65 | | 329 | 2.34 | 2.87 | 65 | | 329 | 2.34 | 2.87 | 58 | | 630 | 3.99 | 2.62 |
| | | | 2900 | 204 | 14.16 | 76 | 1.72 | 1.47 | 207 | 13.96 | 304 | 6.83 | 1.53 | 207 | 13.96 | 304 | 6.83 | 1.53 | 197 | 14.70 | 550 | 11.70 | 1.01 |
| 1 | 4 | . | 1450 | 102 | | 92 | 1.01 | 1.89 | 103 | | 337 | 3.78 | 2.23 | 103 | | 337 | 3.78 | 2.23 | 98 | | 605 | 6.44 | 1.74 |
| | | | 960 | 67 | | 100 | 0.73 | 2.21 | 68 | | 337 | 2.50 | 2.80 | 68 | | 337 | 2.50 | 2.80 | 65 | | 641 | 4.51 | 2.40 |
| | | | 725 | 51 | | 108 | 0.60 | 2.44 | 51 | | 337 | 1.89 | 3.27 | 51 | | 337 | 1.89 | 3.27 | 49 | | 648 | 3.44 | 2.99 |
| | | | 2900 | 162 | 17.88 | 85 | 1.50 | 1.60 | 182 | 15.86 | 309 | 6.12 | 1.64 | 182 | 15.86 | 309 | 6.12 | 1.64 | 171 | 16.93 | 561 | 10.40 | 1.12 |
| 1 | 6 | . | 1450 | 81 | | 99 | 0.87 | 2.06 | 91 | | 345 | 3.41 | 2.39 | 91 | | 345 | 3.41 | 2.39 | 85 | | 575 | 5.31 | 1.94 |
| | | | 960 | 53 | | 110 | 0.64 | 2.41 | 60 | | 354 | 2.31 | 2.99 | 60 | | 354 | 2.31 | 2.99 | 56 | | 575 | 3.52 | 2.69 |
| | | | 725 | 40 | | 120 | .53] | 2.67 | 45 | | 354 | 1.74 | 3.49 | 45 | | 354 | 1.74 | 3.49 | 42 | | 576 | 2.66 | 3.38 |
| | | | 2900 | 143 | 20.27 | 89 | 1.38 | 1.68 | 148 | 19.46 | 319 | 5.15 | 1.84 | 148 | 19.46 | 319 | 5.15 | 1.84 | 147 | 19.69 | 572 | 9.12 | 1.27 |
| 2 | 0 | . | 1450 | 71 | | 103 | 0.80 | 2.16 | 74 | | 357 | 2.87 | 2.67 | 74 | | 357 | 2.87 | 2.67 | 73 | | 629 | 5.00 | 2.19 |
| | | | 960 | 47 | | 116 | 0.59 | 2.51 | 49 | | 380 | 2.02 | 3.34 | 49 | | 380 | 2.02 | 3.34 | 48 | | 650 | 3.42 | 3.04 |
| | | | 725 | 35 | | 127 | 0.49 | 2.80 | 37 | | 386 | 1.55 | 3.88 | 37 | | 386 | 1.55 | 3.88 | 36 | | 650 | 2.58 | 3.81 |
| | | | 2900 | 125 | 23.16 | 93 | 1.27 | 1.76 | 134 | 21.59 | 326 | 4.74 | 1.94 | 134 | 21.59 | 326 | 4.74 | 1.94 | 131 | 22.03 | 582 | 8.29 | 1.39 |
| 2 | 2 | . | 1450 | 62 | | 108 | 0.73 | 2.27 | 67 | | 362 | 2.63 | 2.82 | 67 | | 362 | 2.63 | 2.82 | 65 | | 639 | 4.55 | 2.40 |
| | | | 960 | 41 | | 123 | 0.55 | 2.64 | 44 | | 380 | 1.83 | 3.54 | 44 | | 380 | 1.83 | 3.54 | 43 | | 677 | 3.19 | 3.31 |
| | | | 725 | 31 | | 129 | 0.44 | 2.93 | 33 | | 380 | 1.38 | 4.13 | 33 | | 380 | 1.38 | 4.13 | 32 | | 684 | 2.43 | 4.18 |
| | | | 2900 | 112 | 25.77 | 96 | 1.18 | 1.83 | 118 | 24.53 | 332 | 4.25 | 2.08 | 118 | 24.53 | 332 | 4.25 | 2.08 | 123 | 23.48 | 587 | 7.85 | 1.46 |
| 2 | 5 | . | 1450 | 56 | | 112 | 0.68 | 2.36 | 59 | | 370 | 2.36 | 3.02 | 59 | | 370 | 2.36 | 3.02 | 61 | | 645 | 4.30 | 2.52 |
| | | | 960 | 37 | | 129 | 0.52 | 2.74 | 39 | | 386 | 1.63 | 3.78 | 39 | | 386 | 1.63 | 3.78 | 40 | | 683 | 3.02 | 3.51 |
| | | | 725 | 28 | | 129 | 0.39 | 3.04 | 29 | | 386 | 1.23 | 4.43 | 29 | | 386 | 1.23 | 4.43 | 30 | | 701 | 2.34 | 4.39 |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0222 | | | | | F0322 | | | | | F0422 | | | | | F0522 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| 6 | 7 | 8 | 102 | 99 | 1.10 | 1.89 | 104 | 338 | 3.82 | 2.22 | 104 | 338 | 3.82 | 2.22 | 104 | 601 | 6.78 | 1.66 | 27.83 | 601 | 6.78 | 1.66 | |
| 2 | 8 | . | 1450 | 51 | 28.41 | 117 | 0.65 | 2.44 | 52 | 27.86 | 375 | 2.11 | 3.23 | 52 | 27.86 | 375 | 2.11 | 3.23 | 52 | 27.83 | 660 | 3.72 | 2.86 |
| | | | 960 | 33 | | 129 | 0.47 | 2.86 | 34 | | 375 | 1.40 | 4.07 | 34 | | 375 | 1.40 | 4.07 | 34 | | 696 | 2.59 | 3.98 |
| | | | 725 | 25 | | 129 | 0.36 | 3.17 | 26 | | 375 | 1.06 | 4.70 | 26 | | 375 | 1.06 | 4.70 | 26 | | 696 | 1.96 | 4.91 |
| | | | 2900 | 92 | 31.26 | 102 | 1.03 | 1.97 | 94 | 30.68 | 343 | 3.52 | 2.35 | 94 | 30.68 | 343 | 3.52 | 2.35 | 97 | 29.71 | 605 | 6.40 | 1.75 |
| 3 | 2 | . | 1450 | 46 | | 121 | 0.61 | 2.53 | 47 | | 374 | 1.91 | 3.41 | 47 | | 374 | 1.91 | 3.41 | 48 | | 667 | 3.52 | 3.04 |
| | | | 960 | 30 | | 129 | 0.43 | 2.96 | 31 | | 374 | 1.27 | 4.27 | 31 | | 374 | 1.27 | 4.27 | 32 | | 699 | 2.44 | 4.18 |
| | | | 725 | 23 | | 129 | 0.32 | 3.26 | 23 | | 375 | 0.96 | 5.02 | 23 | | 375 | 0.96 | 5.02 | 24 | | 699 | 1.84 | 5.23 |
| | | | 2900 | 79 | 36.63 | 107 | 0.92 | 2.08 | 82 | 35.30 | 351 | 3.13 | 2.53 | 82 | 35.30 | 351 | 3.13 | 2.53 | 78 | 36.87 | 623 | 5.32 | 2.08 |
| 3 | 6 | . | 1450 | 39 | | 129 | 0.56 | 2.69 | 41 | | 391 | 1.74 | 3.68 | 41 | | 391 | 1.74 | 3.68 | 39 | | 687 | 2.92 | 3.58 |
| | | | 960 | 26 | | 129 | 0.37 | 3.12 | 27 | | 393 | 1.16 | 4.60 | 27 | | 393 | 1.16 | 4.60 | 26 | | 709 | 2.00 | 4.91 |
| | | | 725 | 19 | | 51 | 0.28 | 3.50 | 20 | | 393 | 0.87 | 5.42 | 20 | | 393 | 0.87 | 5.42 | 19 | | 709 | 1.51 | 6.28 |
| | | | 2900 | 65 | 43.94 | 112 | 0.81 | 2.23 | 75 | 38.37 | 355 | 2.91 | 2.65 | 75 | 38.37 | 355 | 2.91 | 2.65 | 66 | 43.47 | 638 | 4.62 | 2.37 |
| 4 | 0 | . | 1450 | 32 | | 129 | 0.46 | 2.89 | 37 | | 371 | 1.52 | 3.88 | 37 | | 371 | 1.52 | 3.88 | 33 | | 703 | 2.54 | 4.08 |
| | | | 960 | 21 | | 129 | 0.31 | 3.37 | 25 | | 371 | 1.01 | 4.80 | 25 | | 371 | 1.01 | 4.80 | 22 | | 716 | 1.71 | 5.60 |
| | | | 725 | 16 | | 129 | 0.23 | 3.73 | 18 | | 371 | 0.76 | 5.73 | 18 | | 371 | 0.76 | 5.73 | 16 | | 716 | 1.29 | 7.19 |
| | | | 2900 | 56 | 51.22 | 117 | 0.72 | 2.36 | 62 | 46.07 | 366 | 2.50 | 2.94 | 62 | 46.07 | 366 | 2.50 | 2.94 | 60 | 47.60 | 646 | 4.28 | 2.55 |
| 5 | 0 | . | 1450 | 28 | | 129 | 0.40 | 3.04 | 31 | | 391 | 1.34 | 4.27 | 31 | | 391 | 1.34 | 4.27 | 30 | | 712 | 2.35 | 4.39 |
| | | | 960 | 18 | | 129 | 0.26 | 3.57 | 20 | | 392 | 0.89 | 5.42 | 20 | | 392 | 0.89 | 5.42 | 20 | | 720 | 1.57 | 6.03 |
| | | | 725 | 14 | | 129 | 0.20 | 3.91 | 15 | | 392 | 0.67 | 6.33 | 15 | | 392 | 0.67 | 6.33 | 15 | | 720 | 1.19 | 7.56 |
| | | | 2900 | 50 | 56.91 | 122 | 0.68 | 2.46 | 52 | 55.28 | 371 | 2.12 | 3.23 | 52 | 55.28 | 371 | 2.12 | 3.23 | 49 | 58.34 | 522 | 2.83 | 2.99 |
| 5 | 6 | . | 1450 | 25 | | 129 | 0.36 | 3.17 | 26 | | 387 | 1.10 | 4.70 | 26 | | 387 | 1.10 | 4.70 | 24 | | 543 | 1.47 | 5.23 |
| | | | 960 | 16 | | 129 | 0.24 | 3.73 | 17 | | 387 | 0.73 | 5.91 | 17 | | 387 | 0.73 | 5.91 | 16 | | 566 | 1.01 | 7.19 |
| | | | 725 | 12 | | 129 | 0.18 | 4.14 | 13 | | 387 | 0.55 | 6.83 | 13 | | 387 | 0.55 | 6.83 | 12 | | 582 | 0.79 | 9.00 |
| | | | 2900 | 42 | 68.54 | 129 | 0.59 | 2.62 | 46 | 62.29 | 339 | 1.72 | 3.45 | 46 | 62.29 | 339 | 1.72 | 3.45 | 44 | 65.02 | 462 | 2.25 | 3.25 |
| 6 | 3 | . | 1450 | 21 | | 129 | 0.30 | 3.37 | 23 | | 363 | 0.92 | 5.02 | 23 | | 363 | 0.92 | 5.02 | 22 | | 480 | 1.17 | 5.60 |
| | | | 960 | 14 | | 129 | 0.20 | 3.86 | 15 | | 378 | 0.63 | 6.33 | 15 | | 378 | 0.63 | 6.33 | 14 | | 501 | 0.80 | 7.98 |
| | | | 725 | 10 | | 129 | 0.15 | 3.86 | 11 | | 389 | 0.49 | 7.10 | 11 | | 389 | 0.49 | 7.10 | 11 | | 512 | 0.62 | 9.20 |
| | | | 2900 | 36 | 78.56 | 113 | 0.46 | 2.77 | 40 | 72.41 | 293 | 1.28 | 3.72 | 40 | 72.41 | 293 | 1.28 | 3.72 | 39 | 72.92 | 364 | 1.58 | 3.58 |
| 7 | 1 | . | 1450 | 18 | | 113 | 0.22 | 3.57 | 20 | | 314 | 0.69 | 5.42 | 20 | | 314 | 0.69 | 5.42 | 19 | | 364 | 0.79 | 6.28 |
| | | | 960 | 12 | | 113 | 0.15 | 3.86 | 13 | | 328 | 0.47 | 6.83 | 13 | | 328 | 0.47 | 6.83 | 13 | | 364 | 0.52 | 8.46 |
| | | | 725 | 9 | | 113 | 0.11 | 3.86 | 10 | | 337 | 0.37 | 7.10 | 10 | | 337 | 0.37 | 7.10 | 9 | | 364 | 0.40 | 9.20 |
| | | | 2900 | 32 | 89.28 | 105 | 0.37 | 2.89 | 35 | 82.18 | 264 | 1.02 | 4.00 | 35 | 82.18 | 264 | 1.02 | 4.00 | | | | | |
| 9 | 0 | . | 1450 | 16 | | 112 | 0.20 | 3.73 | 17 | | 283 | 0.54 | 5.91 | 17 | | 283 | 0.54 | 5.91 | | | | | |
| | | | 960 | 10 | | 112 | 0.13 | 3.86 | 11 | | 295 | 0.38 | 7.10 | 11 | | 295 | 0.38 | 7.10 | | | | | |
| | | | 725 | 8 | | 112 | 0.10 | 3.86 | 8 | | 303 | 0.29 | 7.10 | 8 | | 303 | 0.29 | 7.10 | | | | | |
| | | | 2900 | | | | | | 93.43 | 31 | 235 | 0.80 | 4.27 | 31 | | 235 | 0.80 | 4.27 | | | | | |
| 1 | 0 | 0 | 1450 | | | | | 15 | | 252 | 0.43 | 6.33 | 15 | 93.43 | 252 | 0.43 | 6.33 | | | | | | |
| | | | 960 | | | | | 10 | | 263 | 0.30 | 7.10 | 10 | | 263 | 0.30 | 7.10 | | | | | | |
| | | | 725 | | | | | 7 | | 270 | 0.23 | 7.10 | 7 | | 270 | 0.23 | 7.10 | | | | | | |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0622 | | | | | F0722 | | | | | F0822 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| 6 | 7 | 8 | | | | | | | | | | | | | | | | |
| | | | 2900 | | | | | | | | | | | | | | | |
| 5 | . | 0 | 1450 | | | | | | | | | | | | | | | |
| | | | 960 | | | | | | | | | | | | | | | |
| | | | 725 | | | | | | | | | | | | | | | |
| | | | 2900 | | | | | | | | | | | | | | | |
| 6 | . | 3 | 1450 | | | | | | | | | | | | | | | |
| | | | 960 | | | | | | | | | | | | | | | |
| | | | 725 | | | | | | | | | | | | | | | |
| | | | 2900 | 465 | 6.224 | 380 | 19.20 | 1.85 | 428 | 6.772 | 560 | 26.10 | 2.05 | 416 | 6.959 | 908 | 41.30 | 2.12 |
| 7 | . | 1 | 1450 | 232 | | 468 | 11.80 | 2.63 | 214 | | 564 | 13.10 | 2.89 | 208 | | 914 | 20.70 | 3.02 |
| | | | 960 | 154 | | 509 | 8.44 | 3.22 | 141 | | 565 | 8.65 | 3.54 | 137 | | 917 | 13.70 | 3.74 |
| | | | 725 | 116 | | 509 | 6.38 | 3.71 | 107 | | 566 | 6.53 | 4.05 | 104 | | 918 | 10.30 | 4.31 |
| | | | 2900 | 331 | 8.750 | 465 | 16.70 | 2.20 | 309 | 9.380 | 771 | 25.90 | 2.41 | 293 | 9.865 | 1290 | 41.30 | 2.54 |
| 9 | . | 0 | 1450 | 165 | | 573 | 10.20 | 3.11 | 154 | | 783 | 13.10 | 3.39 | 146 | | 1300 | 20.70 | 3.62 |
| | | | 960 | 109 | | 649 | 7.66 | 3.83 | 102 | | 784 | 8.65 | 4.15 | 97 | | 1300 | 13.70 | 4.46 |
| | | | 725 | 82 | | 665 | 5.92 | 4.42 | 77 | | 785 | 6.53 | 4.76 | 73 | | 1300 | 10.30 | 5.16 |
| | | | 2900 | 295 | 9.807 | 495 | 15.80 | 2.33 | 275 | 10.54 | 822 | 24.50 | 2.55 | 264 | 10.96 | 1440 | 41.30 | 2.68 |
| 1 | 0 | . | 1450 | 147 | | 610 | 9.72 | 3.30 | 137 | | 880 | 13.10 | 3.59 | 132 | | 1450 | 20.70 | 3.81 |
| | | | 960 | 97 | | 691 | 7.27 | 4.06 | 91 | | 881 | 8.65 | 4.39 | 87 | | 1450 | 13.70 | 4.72 |
| | | | 725 | 73 | | 717 | 5.69 | 4.68 | 68 | | 882 | 6.53 | 5.06 | 66 | | 1450 | 10.30 | 5.43 |
| | | | 2900 | 263 | 11.01 | 526 | 15.00 | 2.47 | 250 | 11.59 | 866 | 23.50 | 2.67 | 237 | 12.19 | 1550 | 39.80 | 2.83 |
| 1 | 2 | . | 1450 | 131 | | 649 | 9.20 | 3.49 | 125 | | 968 | 13.10 | 3.75 | 118 | | 1610 | 20.70 | 4.04 |
| | | | 960 | 87 | | 718 | 6.74 | 4.29 | 82 | | 969 | 8.65 | 4.62 | 78 | | 1610 | 13.70 | 4.99 |
| | | | 725 | 65 | | 719 | 5.09 | 4.96 | 62 | | 970 | 6.53 | 5.29 | 59 | | 1610 | 10.30 | 5.75 |
| | | | 2900 | 207 | 13.98 | 593 | 13.30 | 2.78 | 191 | 15.13 | 986 | 20.40 | 3.05 | 183 | 15.76 | 1750 | 34.90 | 3.23 |
| 1 | 4 | . | 1450 | 103 | | 730 | 8.15 | 3.94 | 95 | | 1210 | 12.50 | 4.30 | 91 | | 2080 | 20.70 | 4.61 |
| | | | 960 | 68 | | 808 | 5.96 | 4.85 | 63 | | 1270 | 8.65 | 5.25 | 60 | | 2090 | 13.70 | 5.70 |
| | | | 725 | 51 | | 808 | 4.50 | 5.60 | 47 | | 1270 | 6.53 | 6.06 | 45 | | 2090 | 10.30 | 6.60 |
| | | | 2900 | 182 | 15.85 | 629 | 12.40 | 2.96 | 168 | 17.21 | 1050 | 19.10 | 3.25 | 163 | 17.70 | 1850 | 32.70 | 3.42 |
| 1 | 6 | . | 1450 | 91 | | 775 | 7.63 | 4.19 | 84 | | 1290 | 11.70 | 4.56 | 81 | | 2270 | 20.10 | 4.89 |
| | | | 960 | 60 | | 825 | 5.37 | 5.16 | 55 | | 1440 | 8.65 | 5.61 | 54 | | 2340 | 13.70 | 6.02 |
| | | | 725 | 45 | | 825 | 4.06 | 5.96 | 42 | | 1440 | 6.53 | 6.41 | 40 | | 2340 | 10.30 | 7.01 |
| | | | 2900 | 153 | 18.90 | 681 | 11.30 | 3.23 | 138 | 20.89 | 1140 | 17.20 | 3.58 | 133 | 21.70 | 2020 | 29.20 | 3.80 |
| 2 | 0 | . | 1450 | 76 | | 838 | 6.92 | 4.59 | 69 | | 1410 | 10.50 | 5.02 | 66 | | 2490 | 17.90 | 5.43 |
| | | | 960 | 50 | | 842 | 4.60 | 5.66 | 45 | | 1520 | 7.54 | 6.19 | 44 | | 2810 | 13.40 | 6.68 |
| | | | 725 | 38 | | 842 | 3.47 | 6.49 | 34 | | 1520 | 5.69 | 7.11 | 33 | | 2870 | 10.30 | 7.73 |
| | | | 2900 | 133 | 21.76 | 723 | 10.40 | 3.47 | 126 | 22.98 | 1190 | 16.20 | 3.74 | 118 | 24.45 | 2120 | 27.20 | 4.04 |
| 2 | 2 | . | 1450 | 66 | | 741 | 5.31 | 4.92 | 63 | | 1470 | 9.98 | 5.25 | 59 | | 2610 | 16.70 | 5.75 |
| | | | 960 | 44 | | 741 | 3.52 | 6.03 | 41 | | 1590 | 7.14 | 6.48 | 39 | | 2950 | 12.50 | 7.10 |
| | | | 725 | 33 | | 741 | 2.66 | 6.96 | 31 | | 1590 | 5.39 | 7.44 | 29 | | 3170 | 10.10 | 8.26 |
| | | | 2900 | 114 | 25.31 | 770 | 9.52 | 3.75 | 109 | 26.41 | 1260 | 14.90 | 4.02 | 101 | 28.46 | 2260 | 24.90 | 4.37 |
| 2 | 5 | . | 1450 | 57 | | 837 | 5.16 | 5.30 | 54 | | 1550 | 9.18 | 5.66 | 50 | | 2780 | 15.30 | 6.26 |
| | | | 960 | 37 | | 837 | 3.42 | 6.58 | 36 | | 1720 | 6.73 | 6.91 | 33 | | 3150 | 11.40 | 7.73 |
| | | | 725 | 28 | | 837 | 2.58 | 7.56 | 27 | | 1720 | 5.08 | 7.96 | 25 | | 3320 | 9.11 | 8.91 |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0622 | | | | | F0722 | | | | | F0822 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|-------|----------|-------|---------|---------|-------|----------|-------|---------|---------|-------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra |
| 6 | 7 | 8 | 2900 | 102 | | 798 | 8.83 | 3.96 | 96 | | 1320 | 13.80 | 4.27 | 91 | | 2320 | 23.10 | 4.61 |
| 2 | 8 | . | 1450 | 51 | 28.32 | 880 | 4.86 | 5.60 | 48 | 29.95 | 1620 | 8.47 | 6.00 | 45 | 31.57 | 2690 | 13.40 | 6.60 |
| | | | 960 | 33 | | 880 | 3.22 | 6.96 | 32 | | 1830 | 6.35 | 7.32 | 30 | | 2700 | 8.85 | 8.12 |
| | | | 725 | 25 | | 880 | 2.43 | 8.00 | 24 | | 1860 | 4.86 | 8.43 | 22 | | 2700 | 6.68 | 9.51 |
| | | | 2900 | 96 | | 828 | 8.59 | 4.08 | 87 | | 1380 | 13.10 | 4.48 | 83 | | 2370 | 21.50 | 4.83 |
| 3 | 2 | . | 1450 | 48 | 30.18 | 891 | 4.61 | 5.77 | 43 | 33.03 | 1690 | 8.03 | 6.33 | 41 | 34.55 | 2580 | 11.70 | 6.92 |
| | | | 960 | 31 | | 892 | 3.06 | 7.18 | 29 | | 1750 | 5.48 | 7.68 | 27 | | 2580 | 7.74 | 8.57 |
| | | | 725 | 24 | | 892 | 2.31 | 8.16 | 21 | | 1750 | 4.14 | 9.00 | 20 | | 2580 | 5.85 | 9.98 |
| | | | 2900 | 81 | | 882 | 7.72 | 4.44 | 76 | | 1450 | 12.00 | 4.79 | 74 | | 2450 | 19.70 | 5.12 |
| 3 | 6 | . | 1450 | 40 | 35.77 | 887 | 3.88 | 6.32 | 38 | 37.83 | 1790 | 7.40 | 6.73 | 37 | 39.09 | 2770 | 11.10 | 7.29 |
| | | | 960 | 26 | | 887 | 2.57 | 7.84 | 25 | | 1800 | 4.93 | 8.26 | 24 | | 2770 | 7.34 | 9.10 |
| | | | 725 | 20 | | 887 | 1.94 | 8.94 | 19 | | 1800 | 3.72 | 9.45 | 18 | | 2770 | 5.54 | 10.53 |
| | | | 2900 | 75 | | 889 | 7.30 | 4.62 | 67 | | 1520 | 11.10 | 5.10 | 65 | | 2510 | 17.80 | 5.47 |
| 4 | 0 | . | 1450 | 37 | 38.19 | 890 | 3.65 | 6.58 | 33 | 42.77 | 1780 | 6.51 | 7.21 | 32 | 44.13 | 2910 | 10.30 | 7.85 |
| | | | 960 | 25 | | 890 | 2.41 | 8.00 | 22 | | 1780 | 4.31 | 8.80 | 21 | | 2910 | 6.84 | 9.74 |
| | | | 725 | 18 | | 890 | 1.82 | 9.43 | 16 | | 1780 | 3.25 | 10.28 | 16 | | 2910 | 5.16 | 11.19 |
| | | | 2900 | 61 | | 890 | 5.89 | 5.12 | 58 | | 1570 | 9.92 | 5.47 | 54 | | 2560 | 15.00 | 6.02 |
| 5 | 0 | . | 1450 | 30 | 47.40 | 892 | 2.95 | 7.30 | 29 | 49.59 | 1790 | 5.66 | 7.68 | 27 | 53.49 | 3160 | 9.26 | 8.57 |
| | | | 960 | 20 | | 893 | 1.95 | 8.94 | 19 | | 1790 | 3.74 | 9.45 | 17 | | 3160 | 6.13 | 10.84 |
| | | | 725 | 15 | | 893 | 1.47 | 10.33 | 14 | | 1790 | 2.83 | 10.98 | 13 | | 3160 | 4.63 | 12.44 |
| | | | 2900 | 51 | | 891 | 5.01 | 5.60 | 49 | | 1620 | 8.62 | 5.94 | 46 | | 2620 | 13.20 | 6.53 |
| 5 | 6 | . | 1450 | 25 | 55.89 | 892 | 2.50 | 8.00 | 24 | 59.14 | 1840 | 4.88 | 8.43 | 23 | 62.38 | 3300 | 8.31 | 9.30 |
| | | | 960 | 17 | | 893 | 1.66 | 9.70 | 16 | | 1840 | 3.23 | 10.28 | 15 | | 3380 | 5.63 | 11.56 |
| | | | 725 | 12 | | 893 | 1.25 | 11.30 | 12 | | 1840 | 2.44 | 11.84 | 11 | | 3380 | 4.25 | 13.54 |
| | | | 2900 | 47 | | 858 | 4.41 | 5.83 | 44 | | 1640 | 7.97 | 6.26 | 42 | | 2670 | 12.30 | 6.84 |
| 6 | 3 | . | 1450 | 23 | 61.20 | 892 | 2.29 | 8.34 | 22 | 64.77 | 1840 | 4.48 | 8.80 | 21 | 68.52 | 3370 | 7.73 | 9.74 |
| | | | 960 | 15 | | 893 | 1.52 | 10.33 | 14 | | 1840 | 2.96 | 10.98 | 14 | | 3390 | 5.14 | 11.97 |
| | | | 725 | 11 | | 893 | 1.15 | 11.30 | 11 | | 1840 | 2.24 | 12.35 | 10 | | 3390 | 3.88 | 14.22 |
| | | | 2900 | 38 | | 673 | 2.83 | 6.49 | 37 | | 1490 | 6.05 | 6.82 | 34 | | 2740 | 10.20 | 7.62 |
| 7 | 1 | . | 1450 | 19 | 75.00 | 699 | 1.47 | 9.18 | 18 | 77.72 | 1590 | 3.23 | 9.70 | 17 | 83.97 | 3390 | 6.34 | 10.84 |
| | | | 960 | 12 | | 729 | 1.01 | 11.30 | 12 | | 1650 | 2.21 | 11.84 | 11 | | 3390 | 4.20 | 13.54 |
| | | | 725 | 9 | | 750 | 0.79 | 11.30 | 9 | | 1650 | 1.67 | 13.63 | 8 | | 3390 | 3.17 | 15.93 |
| | | | 2900 | 34 | | 595 | 2.25 | 6.86 | 32 | | 1220 | 4.30 | 7.32 | 31 | | 2760 | 9.47 | 7.98 |
| 9 | 0 | . | 1450 | 17 | 83.59 | 619 | 1.17 | 9.70 | 16 | 89.42 | 1270 | 2.23 | 10.28 | 15 | 91.70 | 3300 | 5.65 | 11.56 |
| | | | 960 | 11 | | 645 | 0.80 | 11.30 | 10 | | 1290 | 1.51 | 12.94 | 10 | | 3300 | 3.74 | 14.22 |
| | | | 725 | 8 | | 659 | 0.62 | 11.30 | 8 | | 1290 | 1.14 | 14.44 | 7 | | 3300 | 2.82 | 17.05 |
| | | | 2900 | 30 | | 468 | 1.58 | 7.30 | 29 | | 1070 | 3.41 | 7.68 | 27 | | 2700 | 8.06 | 8.57 |
| 1 | 0 | 0 | 1450 | 15 | 93.75 | 469 | 0.79 | 10.33 | 14 | 99.36 | 1100 | 1.75 | 10.98 | 13 | 105.6 | 2690 | 4.03 | 12.44 |
| | | | 960 | 10 | | 469 | 0.52 | 11.30 | 9 | | 1100 | 1.16 | 13.63 | 9 | | 2920 | 2.89 | 15.00 |
| | | | 725 | 7 | | 469 | 0.40 | 11.30 | 7 | | 1100 | 0.87 | 15.42 | 6 | | 2940 | 2.19 | 18.45 |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0921 | | | | | F1021 | | | | | F1121 | | | | | F1221 | | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|--|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | |
| 6 | 7 | 8 | 2900 | - | | | | | | | | | | 640 | | | | | 626 | | | | | |
| 4 | . | 5 | 1450 | - | | | | | | | | | | 320 | | | | | 3798 | 125.5 | 17.9 | 313 | | |
| | | | 960 | - | | | | | | | | | | 212 | | | | | 3798 | 81.65 | 21.3 | 207 | | |
| | | | 725 | - | | | | | | | | | | 160 | | | | | 3798 | 61.45 | 23.9 | 157 | | |
| | | | 2900 | 570 | | | | | 568 | | | | | 562 | | | | | 580 | | | | | |
| 5 | . | 0 | 1450 | 285 | 5.085 | 1960 | 60.30 | 32.00 | 284 | 5.107 | 2560 | 78.20 | 43.00 | 281 | 5.160 | 4326 | 125.5 | 18.10 | 290 | | 4445 | 133.1 | 22.2 | |
| | | | 960 | 189 | | 2220 | 45.20 | 32.00 | 188 | | 2560 | 51.80 | 43.00 | 186 | | 4326 | 81.65 | 21.80 | 192 | | 4445 | 86.55 | 26.3 | |
| | | | 725 | 143 | | 2420 | 37.10 | 32.00 | 142 | | 2560 | 39.10 | 43.00 | 141 | | 4326 | 61.45 | 24.50 | 145 | | 4445 | 65.15 | 29.4 | |
| | | | 2900 | - | | | | | | | | | | 524 | | | | | 506 | | | | | |
| 5 | . | 6 | 1450 | - | | | | | | | | | | 262 | | | | | 4642 | 125.5 | 18.40 | 253 | | |
| | | | 960 | - | | | | | | | | | | 174 | | | | | 4642 | 81.65 | 22.10 | 168 | | |
| | | | 725 | - | | | | | | | | | | 131 | | | | | 4642 | 61.45 | 24.90 | 127 | | |
| | | | 2900 | 442 | | | | | 451 | | | | | 460 | | | | | 468 | | | | | |
| 6 | . | 3 | 1450 | 221 | 6.567 | 2270 | 54.20 | 32.00 | 225 | 6.433 | 3020 | 73.60 | 43.00 | 230 | 6.300 | 5288 | 125.5 | 18.60 | 234 | | 5505 | 133.1 | 23.10 | |
| | | | 960 | 146 | | 2570 | 40.50 | 32.00 | 149 | | 3220 | 51.80 | 43.00 | 152 | | 5288 | 81.65 | 22.40 | 155 | | 5505 | 86.55 | 27.50 | |
| | | | 725 | 110 | | 2800 | 33.20 | 32.00 | 113 | | 3220 | 39.10 | 43.00 | 115 | | 5288 | 61.45 | 25.30 | 117 | | 5505 | 65.15 | 30.80 | |
| | | | 2900 | 414 | | | | | 407 | | | | | 403 | | | | | 397 | | | | | |
| 7 | . | 1 | 1450 | 207 | 7.000 | 2340 | 52.30 | 32.00 | 203 | 7.133 | 3200 | 70.00 | 43.00 | 201 | 7.200 | 6037 | 125.5 | 18.90 | 198 | | 6500 | 133.1 | 23.60 | |
| | | | 960 | 137 | | 2650 | 39.10 | 32.00 | 135 | | 3580 | 51.80 | 43.00 | 133 | | 6037 | 81.65 | 22.90 | 131 | | 6500 | 86.55 | 28.30 | |
| | | | 725 | 104 | | 2890 | 32.10 | 32.00 | 102 | | 3580 | 39.10 | 43.00 | 101 | | 6037 | 61.45 | 25.90 | 99 | | 6500 | 65.15 | 31.80 | |
| | | | 2900 | 362 | | | | | 370 | | | | | 354 | | | | | 367 | | | | | |
| 8 | . | 0 | 1450 | 181 | 8.012 | 2490 | 49.50 | 32.00 | 185 | 7.846 | 3340 | 67.20 | 43.00 | 177 | 8.200 | 6852 | 125.5 | 18.90 | 184 | | 7021 | 133.1 | 23.90 | |
| | | | 960 | 120 | | 2820 | 37.00 | 32.00 | 122 | | 3780 | 50.30 | 43.00 | 117 | | 6852 | 81.65 | 23.10 | 122 | | 7021 | 86.55 | 28.70 | |
| | | | 725 | 90 | | 3070 | 30.40 | 32.00 | 92 | | 3900 | 39.10 | 43.00 | 88 | | 6852 | 61.45 | 26.30 | 92 | | 7021 | 65.15 | 32.30 | |
| | | | 2900 | 329 | | | | | 329 | | | | | 331 | | | | | 316 | | | | | |
| 9 | . | 0 | 1450 | 165 | 8.807 | 2640 | 46.80 | 32.00 | 165 | 8.810 | 3560 | 63.10 | 43.00 | 166 | 8.750 | 7141 | 122.2 | 19.30 | 158 | | 8166 | 133.1 | 24.20 | |
| | | | 960 | 109 | | 2990 | 35.00 | 32.00 | 109 | | 4040 | 47.20 | 43.00 | 110 | | 7192 | 80.04 | 23.60 | 104 | | 8166 | 86.55 | 29.30 | |
| | | | 725 | 82 | | 3250 | 28.80 | 32.00 | 82 | | 4390 | 38.80 | 43.00 | 83 | | 7192 | 60.25 | 26.80 | 79 | | 8166 | 65.15 | 33.10 | |
| | | | 2900 | 286 | | | | | 297 | | | | | 291 | | | | | 292 | | | | | |
| 1 | 0 | . | 1450 | 143 | 10.13 | 2850 | 44.00 | 32.00 | 148 | 9.772 | 3770 | 60.40 | 43.00 | 145 | 9.970 | 7224 | 108.5 | 20.30 | 146 | | 8820 | 133.1 | 24.50 | |
| | | | 960 | 95 | | 3220 | 32.90 | 32.00 | 98 | | 4270 | 45.20 | 43.00 | 96 | | 8193 | 80.03 | 23.60 | 97 | | 8820 | 86.55 | 29.70 | |
| | | | 725 | 72 | | 3510 | 27.00 | 32.00 | 74 | | 4550 | 37.10 | 43.00 | 73 | | 8193 | 60.23 | 27.00 | 73 | | 8820 | 65.15 | 33.60 | |
| | | | 2900 | 256 | | | | | 253 | | | | | 256 | | | | | 6328 | 167.3 | 16.50 | 251 | | |
| 1 | 1 | . | 1450 | 128 | 11.35 | 2990 | 41.10 | 32.00 | 126 | 11.48 | 4040 | 55.00 | 43.00 | 128 | 11.33 | 7791 | 103.0 | 21.00 | 126 | | 10268 | 133.1 | 24.60 | |
| | | | 960 | 85 | | 3380 | 30.80 | 32.00 | 84 | | 4580 | 41.10 | 43.00 | 85 | | 8370 | 71.94 | 25.00 | 83 | | 10268 | 86.55 | 30.10 | |
| | | | 725 | 64 | | 3680 | 25.30 | 32.00 | 63 | | 4980 | 33.80 | 43.00 | 64 | | 8370 | 54.15 | 28.50 | 63 | | 10268 | 65.15 | 34.20 | |
| | | | 2900 | 229 | | | | | 234 | | | | | 225 | | | | | 6340 | 147.2 | 17.50 | 232 | | |
| 1 | 2 | . | 1450 | 114 | 12.68 | 3140 | 38.60 | 32.00 | 117 | 12.39 | 4170 | 52.50 | 43.00 | 112 | 12.90 | 7806 | 90.61 | 22.20 | 116 | | 11090 | 133.1 | 24.50 | |
| | | | 960 | 76 | | 3550 | 28.90 | 32.00 | 77 | | 4720 | 39.30 | 43.00 | 74 | | 8881 | 67.04 | 25.80 | 77 | | 11090 | 86.55 | 30.40 | |
| | | | 725 | 57 | | 3850 | 23.60 | 32.00 | 59 | | 5140 | 32.30 | 43.00 | 56 | | 9434 | 54.17 | 28.70 | 58 | | 11090 | 65.15 | 34.60 | |
| | | | 2900 | 198 | | | | | 201 | | | | | 212 | | | | | 6733 | 147.6 | 17.60 | 209 | | |
| 1 | 4 | . | 1450 | 99 | 14.66 | 3390 | 36.20 | 32.00 | 100 | 14.46 | 4530 | 49.00 | 43.00 | 106 | 13.66 | 8289 | 90.86 | 22.40 | 104 | | 9398 | 202.8 | 17.70 | |
| | | | 960 | 65 | | 3840 | 27.10 | 32.00 | 66 | | 5130 | 36.70 | 43.00 | 70 | | 8744 | 62.34 | 26.90 | 69 | | 11993 | 129.4 | 21.40 | |
| | | | 725 | 49 | | 4180 | 22.20 | 32.00 | 50 | | 5580 | 30.10 | 43.00 | 53 | | 8744 | 46.92 | 30.60 | 52 | | 11993 | 84.14 | 30.90 | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0921 | | | | | F1021 | | | | | F1121 | | | | | F1221 | | | | | |
|--------------|---|---|----------------------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|--|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | |
| 6 | 7 | 8 | (rpm) | | | | | | | | | | | | | | | | | | | | | |
| | | | 2900 | 177 | 16.37 | - | - | - | 186 | 15.61 | - | - | - | 186 | 15.56 | 6708 | 129.1 | 18.60 | 193 | 14.99 | 10138 | 202.5 | 15.90 | |
| 1 | 6 | . | 1450 | 89 | | 3550 | 33.90 | 32.00 | 93 | | 4670 | 46.80 | 43.00 | 93 | | 8258 | 79.47 | 23.70 | 97 | | 12954 | 129.4 | 19.00 | |
| | | | 960 | 59 | | 4020 | 25.40 | 32.00 | 61 | | 5290 | 35.00 | 43.00 | 62 | | 9396 | 58.80 | 27.60 | 64 | | 12954 | 84.16 | 31.10 | |
| | | | 725 | 44 | | 4310 | 20.50 | 32.00 | 46 | | 5750 | 28.80 | 43.00 | 47 | | 9960 | 46.92 | 30.80 | 48 | | 12954 | 63.34 | 35.60 | |
| | | | 2900 | 165 | 17.58 | - | - | - | 160 | 18.07 | - | - | - | 163 | 17.76 | 7357 | 122.68 | 19.3 | 163 | 17.77 | 10577 | 178.3 | 17.00 | |
| 1 | 8 | . | 1450 | 82 | | 3610 | 32.00 | 32.00 | 80 | | 4910 | 42.40 | 43.00 | 82 | | 9058 | 75.52 | 24.6 | 82 | | 13884 | 116.99 | 17.90 | |
| | | | 960 | 55 | | 4090 | 24.00 | 32.00 | 53 | | 5560 | 31.70 | 43.00 | 54 | | 10120 | 54.87 | 28.8 | 54 | | 15151 | 83.03 | 26.10 | |
| | | | 725 | 41 | | 4310 | 19.10 | 32.00 | 40 | | 6050 | 26.10 | 43.00 | 41 | | 10120 | 41.3 | 32.8 | 41 | | 15254 | 62.92 | 35.90 | |
| | | | 2900 | 145 | 20.04 | - | - | - | 142 | 20.46 | - | - | - | 142 | 20.46 | 7282 | 106.59 | 20.50 | 151 | 19.19 | 11409 | 178.1 | 14.90 | |
| 2 | 0 | . | 1450 | 72 | | 3760 | 29.20 | 32.00 | 71 | | 5150 | 39.30 | 43.00 | 71 | | 8965 | 65.61 | 26.10 | 76 | | 14966 | 116.78 | 15.10 | |
| | | | 960 | 48 | | 4240 | 21.80 | 32.00 | 47 | | 5830 | 29.40 | 43.00 | 47 | | 10200 | 48.55 | 30.30 | 50 | | 15852 | 80.44 | 26.10 | |
| | | | 725 | 36 | | 4240 | 16.50 | 32.00 | 35 | | 6340 | 24.10 | 43.00 | 35 | | 10617 | 38.04 | 34.10 | 38 | | 15957 | 60.95 | 36.70 | |
| | | | 2900 | 128 | 22.70 | 3300 | 45.60 | 32.00 | 127 | 22.76 | 4440 | 61.20 | 43.00 | 129 | 22.42 | 7854 | 104.91 | 20.90 | 127 | 22.84 | 11145 | 146.1 | 20.60 | |
| 2 | 2 | . | 1450 | 64 | | 4070 | 28.00 | 32.00 | 64 | | 5470 | 37.60 | 43.00 | 65 | | 9669 | 64.58 | 26.60 | 63 | | 14520 | 95.85 | 22.40 | |
| | | | 960 | 42 | | 4310 | 19.60 | 32.00 | 42 | | 6190 | 28.10 | 43.00 | 43 | | 10120 | 43.96 | 31.90 | 42 | | 16005 | 68.24 | 31.30 | |
| | | | 725 | 32 | | 4310 | 14.80 | 32.00 | 32 | | 6740 | 23.10 | 43.00 | 32 | | 10120 | 33.09 | 36.30 | 32 | | 16100 | 51.67 | 39.50 | |
| | | | 2900 | 112 | 25.88 | 3480 | 42.10 | 32.00 | 113 | 25.77 | 4650 | 56.60 | 43.00 | 114 | 25.54 | 7732 | 90.66 | 22.20 | 118 | 24.67 | 12019 | 145.9 | 18.50 | |
| 2 | 5 | . | 1450 | 56 | | 4280 | 25.80 | 32.00 | 56 | | 5730 | 34.80 | 43.00 | 57 | | 9519 | 55.81 | 28.30 | 59 | | 15757 | 95.64 | 19.60 | |
| | | | 960 | 37 | | 4310 | 17.20 | 32.00 | 37 | | 6480 | 26.00 | 43.00 | 38 | | 10617 | 40.48 | 33.10 | 39 | | 15946 | 62.95 | 36.10 | |
| | | | 725 | 28 | | 4310 | 13.00 | 32.00 | 28 | | 7050 | 21.40 | 43.00 | 28 | | 10617 | 30.47 | 37.70 | 29 | | 16039 | 47.65 | 41.20 | |
| | | | 2900 | 102 | 28.41 | 3220 | 35.50 | 32.00 | 103 | 28.04 | 4730 | 52.80 | 43.00 | 102 | 28.40 | 8433 | 88.93 | 22.60 | 100 | 28.92 | 11582 | 119.9 | 25.30 | |
| 2 | 8 | . | 1450 | 51 | | 4060 | 22.30 | 32.00 | 52 | | 5820 | 32.40 | 43.00 | 51 | | 10120 | 53.36 | 29.10 | 50 | | 15188 | 78.64 | 28.10 | |
| | | | 960 | 34 | | 4240 | 15.40 | 32.00 | 34 | | 6400 | 23.50 | 43.00 | 34 | | 10120 | 34.7 | 35.50 | 33 | | 16086 | 54.17 | 38.60 | |
| | | | 725 | 26 | | 4240 | 11.60 | 32.00 | 26 | | 6400 | 17.80 | 43.00 | 26 | | 10120 | 26.12 | 40.30 | 25 | | 16172 | 40.99 | 44.10 | |
| | | | 2900 | 92 | 31.56 | 3250 | 32.30 | 32.00 | 92 | 31.60 | 4910 | 49.30 | 43.00 | 90 | 32.34 | 8302 | 76.88 | 24.10 | 93 | 31.23 | 12488 | 119.8 | 23.2 | |
| 3 | 2 | . | 1450 | 46 | | 4110 | 20.30 | 32.00 | 46 | | 6040 | 30.30 | 43.00 | 45 | | 10221 | 47.32 | 30.70 | 46 | | 15874 | 76.11 | 28.30 | |
| | | | 960 | 30 | | 4240 | 13.90 | 32.00 | 30 | | 6400 | 21.20 | 43.00 | 30 | | 10617 | 31.97 | 36.90 | 31 | | 16024 | 49.97 | 40.30 | |
| | | | 725 | 23 | | 4240 | 10.50 | 32.00 | 23 | | 6400 | 15.00 | 43.00 | 22 | | 10617 | 24.06 | 41.80 | 23 | | 16108 | 37.81 | 45.90 | |
| | | | 2900 | 79 | 36.69 | 3960 | 33.80 | 32.00 | 82 | 35.32 | 5240 | 46.60 | 43.00 | 83 | 34.96 | 9043 | 77.46 | 24.3 | 81 | 35.61 | 11943 | 100.4 | 28.40 | |
| 3 | 6 | . | 1450 | 40 | | 4310 | 18.40 | 32.00 | 41 | | 6460 | 28.60 | 43.00 | 41 | | 10120 | 43.35 | 32.10 | 41 | | 15465 | 64.03 | 35.20 | |
| | | | 960 | 26 | | 4310 | 12.20 | 32.00 | 27 | | 7250 | 21.30 | 43.00 | 27 | | 10120 | 28.19 | 39.00 | 27 | | 16150 | 44.17 | 42.50 | |
| | | | 725 | 20 | | 4310 | 9.18 | 32.00 | 21 | | 7250 | 16.00 | 43.00 | 21 | | 10120 | 21.22 | 44.10 | 20 | | 16229 | 33.41 | 48.40 | |
| | | | 2900 | 71 | 40.76 | 4100 | 31.60 | 32.00 | 74 | 39.25 | 5440 | 43.50 | 43.00 | 73 | 39.83 | 8893 | 66.87 | 25.90 | 75 | 38.46 | 12874 | 100.3 | 27.90 | |
| 4 | 0 | . | 1450 | 36 | | 4310 | 16.60 | 32.00 | 37 | | 6690 | 26.70 | 43.00 | 36 | | 10617 | 39.91 | 33.30 | 38 | | 15951 | 62.10 | 36.30 | |
| | | | 960 | 24 | | 4310 | 11.00 | 32.00 | 24 | | 7250 | 19.10 | 43.00 | 24 | | 10617 | 25.96 | 40.50 | 25 | | 16087 | 40.73 | 44.40 | |
| | | | 725 | 18 | | 4310 | 8.27 | 32.00 | 18 | | 7250 | 14.50 | 43.00 | 18 | | 10617 | 19.54 | 45.80 | 19 | | 16163 | 30.80 | 50.30 | |
| | | | 2900 | 65 | 44.58 | 3460 | 24.30 | 32.00 | 65 | 44.43 | 5570 | 39.30 | 43.00 | 64 | 45.04 | 8153 | 54.57 | 28.40 | 66 | 43.75 | 10498 | 71.86 | 32.80 | |
| 4 | 5 | . | 1450 | 33 | | 4310 | 15.10 | 32.00 | 33 | | 6400 | 22.50 | 43.00 | 32 | | 8545 | 28.60 | 37.80 | 33 | | 13655 | 46.74 | 40.90 | |
| | | | 960 | 22 | | 4310 | 10.00 | 32.00 | 22 | | 6400 | 14.90 | 43.00 | 21 | | 8710 | 18.96 | 45.10 | 22 | | 14114 | 31.42 | 48.90 | |
| | | | 725 | 16 | | 4310 | 7.57 | 32.00 | 16 | | 6400 | 11.20 | 43.00 | 16 | | 8780 | 14.38 | 50.50 | 17 | | 14233 | 23.85 | 55.10 | |
| | | | 2900 | 59 | 49.22 | 3500 | 22.30 | 32.00 | 57 | 51.19 | 5850 | 35.80 | 43.00 | 57 | 51.30 | 9287 | 54.58 | 28.50 | 61 | 47.26 | 11310 | 71.67 | 33.20 | |
| 5 | 0 | . | 1450 | 29 | | 4240 | 13.50 | 32.00 | 28 | | 6400 | 19.50 | 43.00 | 28 | | 9733 | 28.60 | 38.40 | 31 | | 14749 | 46.73 | 41.30 | |
| | | | 960 | 20 | | 4240 | 8.92 | 32.00 | 19 | | 6400 | 12.90 | 43.00 | 19 | | 9921 | 18.96 | 45.90 | 20 | | 15244 | 31.41 | | |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0921 | | | | | F1021 | | | | | F1121 | | | | | F1221 | | | | |
|--------------|---|---|----------------------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| | | | | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra |
| 6 | 7 | 8 | (rpm) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) |
| | | | 2900 | 50 | 57.58 | 4310 | 23.50 | 32.00 | 52 | 55.97 | 6160 | 34.60 | 43.00 | 56 | 51.85 | 7406 | 42.78 | 31.20 | 54 | 53.75 | 10598 | 58.74 | 35.90 |
| 5 | 6 | . | 1450 | 25 | | 4310 | 11.70 | 32.00 | 26 | | 7250 | 20.30 | 43.00 | 28 | | 7617 | 22.00 | 41.40 | 27 | | 11213 | 31.08 | 47.50 |
| | | | 960 | 17 | | 4310 | 7.77 | 32.00 | 17 | | 7250 | 13.40 | 43.00 | 19 | | 7720 | 14.50 | 49.10 | 18 | | 11370 | 20.49 | 56.50 |
| | | | 725 | 13 | | 4310 | 5.87 | 32.00 | 13 | | 7250 | 10.10 | 43.00 | 14 | | 7779 | 11.00 | 54.80 | 13 | | 11458 | 15.54 | 62.20 |
| | | | 2900 | 46 | 63.56 | 4310 | 21.30 | 32.00 | 45 | 64.49 | 6460 | 31.50 | 43.00 | 49 | 59.06 | 8435 | 42.77 | 31.60 | 50 | 58.06 | 11471 | 59.86 | 36.30 |
| 6 | 3 | . | 1450 | 23 | | 4310 | 10.60 | 32.00 | 22 | | 7250 | 17.60 | 43.00 | 25 | | 8677 | 22.00 | 42.20 | 25 | | 12112 | 31.08 | 48.20 |
| | | | 960 | 15 | | 4310 | 7.03 | 32.00 | 15 | | 7250 | 11.70 | 43.00 | 16 | | 8794 | 14.50 | 50.20 | 17 | | 12281 | 20.49 | 57.40 |
| | | | 725 | 11 | | 4310 | 5.31 | 32.00 | 11 | | 7250 | 8.82 | 43.00 | 12 | | 8860 | 11.00 | 56.00 | 12 | | 12376 | 15.54 | 62.20 |
| | | | 2900 | 43 | 67.71 | 3610 | 16.80 | 32.00 | 42 | 69.24 | 6160 | 27.90 | 43.00 | - | | - | - | - | | - | - | - | - |
| 7 | 1 | . | 1450 | 21 | | 3950 | 9.16 | 32.00 | 21 | | 6170 | 14.00 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 960 | 14 | | 3950 | 6.06 | 32.00 | 14 | | 6170 | 9.25 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 725 | 11 | | 3950 | 4.58 | 32.00 | 10 | | 6170 | 6.98 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 2900 | 38 | 76.14 | 3610 | 14.90 | 32.00 | 39 | 74.39 | 5600 | 23.70 | 43.00 | - | | - | - | - | | - | - | - | - |
| 8 | 0 | . | 1450 | 19 | | 3660 | 7.56 | 32.00 | 19 | | 5610 | 11.80 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 960 | 13 | | 3660 | 5.01 | 32.00 | 13 | | 5610 | 7.84 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 725 | 10 | | 3660 | 3.78 | 32.00 | 10 | | 5610 | 5.92 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 2900 | 33 | 87.44 | 4310 | 15.50 | 32.00 | 33 | 87.21 | 7080 | 25.60 | 43.00 | - | | - | - | - | | - | - | - | - |
| 9 | 0 | . | 1450 | 17 | | 4310 | 7.75 | 32.00 | 17 | | 7250 | 13.10 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 960 | 11 | | 4310 | 5.13 | 32.00 | 11 | | 7250 | 8.66 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 725 | 8 | | 4310 | 3.87 | 32.00 | 8 | | 7250 | 6.54 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 2900 | 29 | 98.32 | 4310 | 13.80 | 32.00 | 31 | 93.70 | 7040 | 23.70 | 43.00 | - | | - | - | - | | - | - | - | - |
| 1 | 0 | 0 | 1450 | 15 | | 4310 | 6.91 | 32.00 | 15 | | 7040 | 11.80 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 960 | 10 | | 4310 | 4.57 | 32.00 | 10 | | 7050 | 7.84 | 43.00 | - | | - | - | - | | - | - | - | - |
| | | | 725 | 7 | | 4310 | 3.45 | 32.00 | 8 | | 7050 | 5.92 | 43.00 | - | | - | - | - | | - | - | - | - |

SERIES F

DOUBLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0232 | | | | | F0332 | | | | | F0432 | | | | | F0532 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| 6 | 7 | 8 | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| | | | 2900 | | | | | | | | | | | | | | | | 36 | | 448 | 1.82 | 3.81 |
| 8 | 0 | . | 1450 | | | | | | | | | | | | | | | | 18 | 78.8 | 530 | 1.07 | 6.55 |
| | | | 960 | | | | | | | | | | | | | | | | 12 | | 617 | 0.82 | 9.00 |
| | | | 725 | | | | | | | | | | | | | | | | 9 | | 685 | 0.69 | 9.20 |
| | | | 2900 | 31 | | 128 | 0.45 | 2.93 | | | | | | | | | | | 33 | | 433 | 1.59 | 4.08 |
| 9 | 0 | . | 1450 | 15 | 92.02 | 129 | 0.23 | 3.81 | | | | | | | | | | | 16 | 86.8 | 519 | 0.95 | 7.19 |
| | | | 960 | 10 | | 135 | 0.16 | 3.86 | | | | | | | | | | | 11 | | 605 | 0.73 | 9.20 |
| | | | 725 | 7 | | 141 | 0.12 | 3.86 | | | | | | | | | | | 8 | | 673 | 0.62 | 9.20 |
| | | | 2900 | 28 | | 129 | 0.41 | 3.04 | 29 | | 303 | 0.98 | 4.43 | 29 | | 303 | 0.98 | 4.43 | 29 | | 447 | 1.43 | 4.51 |
| 1 | 0 | 0 | 1450 | 14 | 101.5 | 129 | 0.20 | 3.86 | 14 | 99.52 | 366 | 0.59 | 6.57 | 14 | 99.52 | 366 | 0.59 | 6.57 | 14 | 99.86 | 547 | 0.87 | 7.98 |
| | | | 960 | 9 | | 137 | 0.14 | 3.86 | 9 | | 417 | 0.44 | 7.10 | 9 | | 417 | 0.44 | 7.10 | 9 | | 638 | 0.67 | 9.20 |
| | | | 725 | 7 | | 144 | 0.11 | 3.86 | 7 | | 424 | 0.34 | 7.10 | 7 | | 424 | 0.34 | 7.10 | 7 | | 710 | 0.57 | 9.20 |
| | | | 2900 | 25 | | 129 | 0.37 | 3.17 | 26 | | 309 | 0.90 | 4.70 | 26 | | 309 | 0.90 | 4.70 | 26 | | 457 | 1.35 | 4.91 |
| 1 | 1 | 2 | 1450 | 12 | 111.6 | 130 | 0.19 | 3.86 | 13 | 109.7 | 380 | 0.55 | 6.83 | 13 | 109.7 | 380 | 0.55 | 6.83 | 13 | 108.6 | 566 | 0.83 | 8.46 |
| | | | 960 | 8 | | 139 | 0.13 | 3.86 | 8 | | 423 | 0.41 | 7.10 | 8 | | 423 | 0.41 | 7.10 | 8 | | 660 | 0.64 | 9.20 |
| | | | 725 | 6 | | 146 | 0.10 | 3.86 | 6 | | 425 | 0.31 | 7.10 | 6 | | 425 | 0.31 | 7.10 | 6 | | 735 | 0.54 | 9.20 |
| | | | 2900 | 22 | | 129 | 0.32 | 3.32 | 24 | | 319 | 0.85 | 4.91 | 24 | | 319 | 0.85 | 4.91 | 22 | | 480 | 1.18 | 5.60 |
| 1 | 2 | 5 | 1450 | 11 | 130.8 | 133 | 0.16 | 3.86 | 12 | 120.7 | 398 | 0.53 | 7.10 | 12 | 120.7 | 398 | 0.53 | 7.10 | 11 | 130.3 | 609 | 0.74 | 9.20 |
| | | | 960 | 7 | | 143 | 0.12 | 3.86 | 7 | | 429 | 0.38 | 7.10 | 7 | | 429 | 0.38 | 7.10 | 7 | | 712 | 0.58 | 9.20 |
| | | | 725 | 5 | | 147 | 0.09 | 3.86 | 6 | | 429 | 0.28 | 7.10 | 6 | | 429 | 0.28 | 7.10 | 5 | | 771 | 0.47 | 9.20 |
| | | | 2900 | 18 | | 129 | 0.27 | 3.57 | 20 | | 332 | 0.75 | 5.42 | 20 | | 332 | 0.75 | 5.42 | 18 | | 502 | 1.03 | 6.55 |
| 1 | 6 | 0 | 1450 | 9 | 156.9 | 138 | 0.14 | 3.86 | 10 | 141.5 | 413 | 0.47 | 7.10 | 10 | 141.5 | 413 | 0.47 | 7.10 | 9 | 156.4 | 650 | 0.66 | 9.20 |
| | | | 960 | 6 | | 147 | 0.10 | 3.86 | 6 | | 431 | 0.32 | 7.10 | 6 | | 431 | 0.32 | 7.10 | 6 | | 761 | 0.51 | 9.20 |
| | | | 725 | 4 | | 147 | 0.08 | 3.86 | 5 | | 431 | 0.24 | 7.10 | 5 | | 431 | 0.24 | 7.10 | 4 | | 771 | 0.39 | 9.20 |
| | | | 2900 | 15 | | 129 | 0.23 | 3.81 | 17 | | 348 | 0.66 | 5.91 | 17 | | 348 | 0.66 | 5.91 | 16 | | 526 | 0.96 | 7.19 |
| 1 | 8 | 0 | 1450 | 7 | 182.9 | 141 | 0.12 | 3.86 | 8 | 169.7 | 425 | 0.40 | 7.10 | 8 | 169.7 | 425 | 0.40 | 7.10 | 8 | 176.2 | 682 | 0.62 | 9.20 |
| | | | 960 | 5 | | 147 | 0.09 | 3.86 | 5 | | 433 | 0.27 | 7.10 | 5 | | 433 | 0.27 | 7.10 | 5 | | 771 | 0.46 | 9.20 |
| | | | 725 | 3 | | 147 | 0.07 | 3.86 | 4 | | 433 | 0.20 | 7.10 | 4 | | 433 | 0.20 | 7.10 | 4 | | 771 | 0.35 | 9.20 |
| | | | 2900 | 14 | | 129 | 0.21 | 3.86 | 14 | | 376 | 0.61 | 6.57 | 14 | | 376 | 0.61 | 6.57 | 14 | | 561 | 0.88 | 7.98 |
| 2 | 0 | 0 | 1450 | 7 | 203.3 | 144 | 0.11 | 3.86 | 7 | 197.8 | 436 | 0.35 | 7.10 | 7 | 197.8 | 436 | 0.35 | 7.10 | 7 | 204.9 | 728 | 0.57 | 9.20 |
| | | | 960 | 4 | | 147 | 0.08 | 3.86 | 4 | | 441 | 0.24 | 7.10 | 4 | | 441 | 0.24 | 7.10 | 4 | | 771 | 0.40 | 9.20 |
| | | | 725 | 3 | | 147 | 0.06 | 3.86 | 3 | | 441 | 0.18 | 7.10 | 3 | | 441 | 0.18 | 7.10 | 3 | | 771 | 0.30 | 9.20 |
| | | | 2900 | 11 | | 132 | 0.17 | 3.86 | 13 | | 390 | 0.57 | 6.83 | 13 | | 390 | 0.57 | 6.83 | 12 | | 591 | 0.81 | 9.00 |
| 2 | 2 | 5 | 1450 | 5 | 244.8 | 147 | 0.10 | 3.86 | 6 | 219.8 | 441 | 0.32 | 7.10 | 6 | 219.8 | 441 | 0.32 | 7.10 | 6 | 232.5 | 731 | 0.50 | 9.20 |
| | | | 960 | 3 | | 147 | 0.06 | 3.86 | 4 | | 441 | 0.21 | 7.10 | 4 | | 441 | 0.21 | 7.10 | 4 | | 762 | 0.35 | 9.20 |
| | | | 725 | 2 | | 147 | 0.05 | 3.86 | 3 | | 441 | 0.16 | 7.10 | 3 | | 441 | 0.16 | 7.10 | 3 | | 771 | 0.27 | 9.20 |
| | | | 2900 | 10 | | 132 | 0.16 | 3.86 | 10 | | 408 | 0.49 | 7.10 | 10 | | 408 | 0.49 | 7.10 | 10 | | 621 | 0.75 | 9.20 |
| 2 | 8 | 0 | 1450 | 5 | 280.6 | 147 | 0.08 | 3.86 | 5 | 264.7 | 442 | 0.27 | 7.10 | 5 | 264.7 | 442 | 0.27 | 7.10 | 5 | 264.3 | 651 | 0.39 | 9.20 |
| | | | 960 | 3 | | 147 | 0.06 | 3.86 | 3 | | 442 | 0.18 | 7.10 | 3 | | 442 | 0.18 | 7.10 | 3 | | 679 | 0.27 | 9.20 |
| | | | 725 | 2 | | 147 | 0.04 | 3.86 | 2 | | 442 | 0.13 | 7.10 | 2 | | 442 | 0.13 | 7.10 | 2 | | 699 | 0.21 | 9.20 |
| | | | 2900 | 9 | | 138 | 0.14 | 3.86 | 9 | | 418 | 0.44 | 7.10 | 9 | | 418 | 0.44 | 7.10 | | | | | |
| 3 | 1 | 5 | 1450 | 4 | 318.8 | 147 | 0.07 | 3.86 | 4 | 303.4 | 432 | 0.23 | 7.10 | 4 | 303.4 | 432 | 0.23 | 7.10 | | | | | |
| | | | 960 | 3 | | 147 | 0.05 | 3.86 | 3 | | 432 | 0.15 | 7.10 | 3 | | 432 | 0.15 | 7.10 | | | | | |
| | | | 725 | 2 | | 147 | 0.04 | 3.86 | 2 | | 432 | 0.11 | 7.10 | 2 | | 432 | 0.11 | 7.10 | | | | | |
| | | | 2900 | | | | | | 8 | | 401 | 0.37 | 7.10 | 8 | | 401 | 0.37 | 7.10 | | | | | |
| 3 | 6 | 0 | 1450 | | | | | | 4 | | 425 | 0.20 | 7.10 | 4 | | 425 | 0.20 | 7.10 | | | | | |
| | | | 960 | | | | | | 2 | | 425 | 0.13 | 7.10 | 2 | | 425 | 0.13 | 7.10 | | | | | |
| | | | 725 | | | | | | 2 | | 425 | 0.10 | 7.10 | 2 | | 425 | 0.10 | 7.10 | | | | | |

SERIES F

TRIPLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0632 | | | | | F0732 | | | | | F0832 | | | | |
|--------------|------|----|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| 6 | 7 | 8 | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| 2900 | 28 | | 578 | 1.82 | 4.62 | 26 | | 1060 | 3.11 | 8.10 | 25 | | 3100 | 8.70 | 8.91 | | | |
| 1 0 0 | 1450 | 14 | 101.4 | 682 | 1.07 | 8.36 | 13 | 108.6 | 1240 | 1.82 | 11.38 | 12 | 114.2 | 3390 | 4.72 | 12.95 | | |
| | 960 | 9 | | 795 | 0.82 | 11.30 | 8 | | 1430 | 1.38 | 14.44 | 8 | | 3390 | 3.12 | 15.93 | | |
| | 725 | 7 | | 883 | 0.69 | 11.30 | 6 | | 1580 | 1.16 | 16.63 | 6 | | 3390 | 2.36 | 18.45 | | |
| | 2900 | 25 | | 557 | 1.59 | 5.09 | 25 | | 1010 | 2.80 | 8.26 | 23 | | 3000 | 7.69 | 9.30 | | |
| 1 1 2 | 1450 | 12 | 111.6 | 668 | 0.95 | 9.53 | 12 | 115.7 | 1190 | 1.63 | 11.84 | 11 | 124.9 | 3390 | 4.31 | 13.54 | | |
| | 960 | 8 | | 779 | 0.73 | 11.30 | 8 | | 1380 | 1.25 | 14.44 | 7 | | 3390 | 2.85 | 17.05 | | |
| | 725 | 6 | | 866 | 0.62 | 11.30 | 6 | | 1530 | 1.05 | 16.63 | 5 | | 3390 | 2.15 | 19.70 | | |
| | 2900 | 22 | | 576 | 1.43 | 5.68 | 21 | | 1060 | 2.47 | 9.00 | 20 | 137.1 | 3120 | 7.05 | 9.98 | | |
| 1 2 5 | 1450 | 11 | 128.4 | 704 | 0.87 | 10.27 | 10 | 115.7 | 1270 | 1.47 | 12.94 | 10 | | 3390 | 3.81 | 14.22 | | |
| | 960 | 7 | | 822 | 0.67 | 11.30 | 7 | | 1470 | 1.13 | 15.42 | 6 | | 3390 | 2.52 | 18.45 | | |
| | 725 | 5 | | 915 | 0.57 | 11.30 | 5 | | 1640 | 0.95 | 17.00 | 5 | | 3390 | 1.90 | 19.00 | | |
| | 2900 | 20 | | 589 | 1.35 | 6.16 | 19 | | 1080 | 2.35 | 9.45 | 18 | 141.3 | 3220 | 6.45 | 10.53 | | |
| 1 6 0 | 1450 | 10 | 139.6 | 729 | 0.83 | 11.15 | 9 | 146.4 | 1300 | 1.41 | 13.63 | 9 | | 3390 | 3.38 | 15.00 | | |
| | 960 | 6 | | 851 | 0.64 | 11.30 | 6 | | 1510 | 1.09 | 16.63 | 6 | | 3390 | 2.23 | 18.45 | | |
| | 725 | 5 | | 932 | 0.53 | 11.30 | 4 | | 1680 | 0.91 | 17.00 | 4 | | 3440 | 1.71 | 19.70 | | |
| | 2900 | 17 | | 618 | 1.18 | 7.08 | 15 | | 1140 | 2.00 | 10.61 | 14 | 181.7 | 3380 | 5.59 | 11.97 | | |
| 1 8 0 | 1450 | 8 | 167.6 | 784 | 0.74 | 11.30 | 7 | 181.7 | 1420 | 1.24 | 15.42 | 7 | | 3390 | 2.79 | 17.05 | | |
| | 960 | 5 | | 917 | 0.58 | 11.30 | 5 | | 1650 | 0.96 | 17.00 | 4 | | 3390 | 1.85 | 19.00 | | |
| | 725 | 4 | | 959 | 0.45 | 11.30 | 3 | | 1840 | 0.80 | 17.00 | 3 | | 3540 | 1.45 | 19.70 | | |
| | 2900 | 14 | 201.1 | 647 | 1.03 | 8.36 | 13 | 214.2 | 1190 | 1.77 | 11.38 | 12 | 193.4 | 3390 | 4.81 | 12.95 | | |
| 2 0 0 | 1450 | 7 | | 837 | 0.66 | 11.30 | 6 | | 1510 | 1.12 | 16.63 | 6 | | 3390 | 2.40 | 18.45 | | |
| | 960 | 4 | | 944 | 0.50 | 11.30 | 4 | | 1770 | 0.87 | 17.00 | 4 | | 3480 | 1.62 | 19.70 | | |
| | 725 | 3 | | 988 | 0.39 | 11.30 | 3 | | 1970 | 0.73 | 17.00 | 3 | | 3600 | 1.27 | 19.70 | | |
| | 2900 | 12 | 226.6 | 677 | 0.96 | 9.53 | 12 | 234.6 | 1220 | 1.66 | 11.84 | 11 | 247.7 | 3390 | 4.38 | 13.54 | | |
| 2 2 5 | 1450 | 6 | | 878 | 0.62 | 11.30 | 6 | | 1570 | 1.06 | 17.00 | 5 | | 3390 | 2.18 | 19.70 | | |
| | 960 | 4 | | 962 | 0.45 | 11.30 | 4 | | 1830 | 0.82 | 17.00 | 3 | | 3530 | 1.50 | 19.70 | | |
| | 725 | 3 | | 1010 | 0.35 | 11.30 | 3 | | 2040 | 0.69 | 17.00 | 2 | | 3600 | 1.15 | 19.70 | | |
| | 2900 | 11 | 263.4 | 722 | 0.88 | 11.30 | 10 | 287.5 | 1310 | 1.46 | 12.94 | 9 | 303.6 | 3390 | 3.57 | 15.00 | | |
| 2 8 0 | 1450 | 5 | | 923 | 0.56 | 11.30 | 5 | | 1700 | 0.94 | 17.00 | 4 | | 3420 | 1.79 | 19.70 | | |
| | 960 | 3 | | 985 | 0.39 | 11.30 | 3 | | 1990 | 0.73 | 17.00 | 3 | | 3600 | 1.25 | 19.70 | | |
| | 725 | 2 | | 1010 | 0.31 | 11.30 | 2 | | 2120 | 0.59 | 17.00 | 2 | | 3600 | 0.94 | 19.70 | | |
| | 2900 | 9 | 298.9 | 761 | 0.81 | 11.30 | 9 | 320.4 | 1400 | 1.39 | 13.63 | 8 | 331.5 | 3390 | 3.27 | 15.93 | | |
| 3 1 5 | 1450 | 4 | | 941 | 0.50 | 11.30 | 4 | | 1810 | 0.90 | 17.00 | 4 | | 3460 | 1.66 | 19.70 | | |
| | 960 | 3 | | 981 | 0.35 | 11.30 | 2 | | 2100 | 0.69 | 17.00 | 2 | | 3600 | 1.14 | 19.70 | | |
| | 725 | 2 | | 1010 | 0.27 | 11.30 | 2 | | 2120 | 0.53 | 17.00 | 2 | | 3600 | 0.86 | 19.70 | | |
| | 2900 | 8 | 339.8 | 800 | 0.75 | 11.30 | 8 | 359.4 | 1460 | 1.30 | 14.44 | 7 | 381.8 | 3390 | 2.85 | 17.05 | | |
| 3 6 0 | 1450 | 4 | | 839 | 0.39 | 11.30 | 4 | | 1780 | 0.79 | 17.00 | 3 | | 3540 | 1.48 | 19.70 | | |
| | 960 | 2 | | 875 | 0.27 | 11.30 | 2 | | 1780 | 0.52 | 17.00 | 2 | | 3600 | 1.00 | 19.70 | | |
| | 725 | 2 | | 900 | 0.21 | 11.30 | 2 | | 1780 | 0.40 | 17.00 | 1 | | 3600 | 0.75 | 19.70 | | |

SERIES F

TRIPLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0931 | | | | | F1031 | | | | | F1131 | | | | | F1231 | | | | | |
|--------------|---|------|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|-------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | |
| 6 | 7 | 8 | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2900 | | | | | | | | | | | 64 | | 6470 | 42.49 | 30.70 | 65 | | | | | | |
| 4 | 5 | . | 1450 | | | | | | | | | | 32 | | 7965 | 26.15 | 38.90 | 32 | | 45.0 | 15873 | 52.86 | 39.1 | |
| | | 960 | | | | | | | | | | | 21 | | 9063 | 19.35 | 45.00 | 21 | | | 16216 | 35.12 | 47.3 | |
| | | 725 | | | | | | | | | | | 16 | | 9869 | 15.86 | 49.60 | 16 | | | 16286 | 26.55 | 53.6 | |
| | | 2900 | | | | | | | | | | | 56 | | 7369 | 42.49 | 31.10 | 60 | | | | | | |
| 5 | 0 | . | 1450 | | | | | | | | | | 28 | | 9073 | 26.16 | 39.50 | 30 | | 48.6 | 16031 | 49.43 | 40.50 | |
| | | 960 | | | | | | | | | | | 18 | | 10323 | 19.35 | 45.80 | 20 | | | 16153 | 32.39 | 49.20 | |
| | | 725 | | | | | | | | | | | 14 | | 10617 | 14.98 | 51.20 | 15 | | | 16222 | 24.49 | 55.70 | |
| | | 2900 | | | | | | | | | | | 52 | | 6965 | 37.47 | 32.70 | 50 | | | 14174 | 72.85 | 33.30 | |
| 5 | 6 | . | 1450 | | | | | | | | | | 26 | | 8575 | 23.06 | 41.50 | 25 | | 58.3 | 16169 | 41.55 | 43.80 | |
| | | 960 | | | | | | | | | | | 17 | | 9756 | 17.07 | 48.00 | 16 | | | 16281 | 27.21 | 53.00 | |
| | | 725 | | | | | | | | | | | 13 | | 10120 | 13.32 | 53.50 | 12 | | | 16343 | 20.56 | 60.00 | |
| | | 2900 | | | | | | | | | | | 46 | | 7933 | 37.46 | 33.20 | 46 | | | 15310 | 72.85 | 32.10 | |
| 6 | 3 | . | 1450 | | | | | | | | | | 23 | | 9767 | 23.06 | 42.10 | 23 | | 62.9 | 16108 | 38.22 | 45.60 | |
| | | 960 | | | | | | | | | | | 15 | | 10617 | 16.30 | 49.40 | 15 | | | 16216 | 25.09 | 55.10 | |
| | | 725 | | | | | | | | | | | 11 | | 10617 | 12.27 | 55.70 | 12 | | | 16277 | 18.96 | 62.20 | |
| | | 2900 | | | | | | | | | | | 40 | | 7641 | 31.67 | 35.60 | 40 | | | 15403 | 63.92 | 35.60 | |
| 7 | 1 | . | 1450 | | | | | | | | | | 20 | | 9408 | 19.50 | 45.20 | 20 | | 72.2 | 16227 | 33.67 | 48.20 | |
| | | 960 | | | | | | | | | | | 13 | | 10120 | 13.64 | 53.00 | 13 | | | 16328 | 22.03 | 58.20 | |
| | | 725 | | | | | | | | | | | 10 | | 10120 | 10.27 | 56.00 | 10 | | | 16385 | 16.54 | 62.20 | |
| | | 2900 | | | | | | | | | | | 35 | | 8704 | 31.67 | 36.20 | 37 | | | 15958 | 61.31 | 36.60 | |
| 8 | 0 | . | 1450 | | | | | | | | | | 18 | | 10617 | 19.32 | 46.00 | 19 | | 78.0 | 16164 | 31.05 | 50.20 | |
| | | 960 | | | | | | | | | | | 12 | | 10617 | 12.56 | 55.10 | 12 | | | 16263 | 20.32 | 60.40 | |
| | | 725 | | | | | | | | | | | 9 | | 10617 | 9.46 | 56.00 | 9 | | | 16317 | 15.34 | 62.20 | |
| | | 2900 | | | | | | | | | | | 32 | | 8354 | 27.63 | 38.3 | 31 | | | 16102 | 51.61 | 39.5 | |
| 9 | 0 | . | 1450 | | | | | | | | | | 16 | | 10120 | 16.73 | 48.70 | 16 | | 93.4 | 16290 | 26.11 | 54.00 | |
| | | 960 | | | | | | | | | | | 11 | | 10120 | 10.88 | 56.00 | 10 | | | 16380 | 17.07 | 62.20 | |
| | | 725 | | | | | | | | | | | 8 | | 10120 | 8.19 | 56.00 | 8 | | | 16430 | 12.89 | 62.20 | |
| | | 2900 | 28 | | 102.5 | 4130 | 13.34 | 32.00 | 28 | 102.8 | 6370 | 19.62 | 43.00 | 28 | 103.2 | 9516 | 27.63 | 38.80 | 29 | | | 16043 | 47.61 | 41.20 |
| 1 | 0 | 0 | 1450 | 14 | | 4130 | 6.67 | 32.00 | 14 | | 6370 | 9.81 | 43.00 | 14 | | 10617 | 15.41 | 50.60 | 14 | | 100.9 | 16226 | 24.08 | 56.10 |
| | | 960 | 9 | | | 4130 | 4.42 | 32.00 | 9 | | 6370 | 6.49 | 43.00 | 9 | | 10617 | 10.02 | 56.00 | 10 | | | 16313 | 15.74 | 62.20 |
| | | 725 | 7 | | | 4130 | 3.34 | 32.00 | 7 | | 6370 | 4.91 | 43.00 | 7 | | 10617 | 7.54 | 56.00 | 7 | | | 16361 | 11.88 | 62.20 |
| | | 2900 | 25 | | 113.9 | 4130 | 12.00 | 32.00 | 25 | 114.2 | 6400 | 17.74 | 43.00 | 26 | 110.9 | 8801 | 23.76 | 41.40 | 25 | | | 16166 | 41.96 | 43.60 |
| 1 | 1 | 2 | 1450 | 12 | | 4130 | 6.00 | 32.00 | 13 | | 6400 | 8.87 | 43.00 | 13 | | 10120 | 13.66 | 53.00 | 13 | | 115.4 | 16337 | 21.20 | 59.20 |
| | | 960 | 8 | | | 4130 | 3.97 | 32.00 | 8 | | 6400 | 5.87 | 43.00 | 9 | | 10120 | 8.88 | 56.00 | 8 | | | 16417 | 13.85 | 62.20 |
| | | 725 | 6 | | | 4130 | 3.00 | 32.00 | 6 | | 6400 | 4.44 | 43.00 | 7 | | 10120 | 6.69 | 56.00 | 6 | | | 16463 | 10.46 | 62.20 |
| | | 2900 | 21 | | 132.3 | 4220 | 10.16 | 32.00 | 22 | 129.5 | 7250 | 17.80 | 43.00 | 23 | 126.4 | 10024 | 23.76 | 41.80 | 23 | | | 16105 | 38.70 | 45.40 |
| 1 | 2 | 5 | 1450 | 10 | | 4220 | 5.08 | 32.00 | 11 | | 7250 | 8.90 | 43.00 | 11 | | 10617 | 12.58 | 55.10 | 12 | | 124.6 | 16271 | 19.55 | 61.40 |
| | | 960 | 7 | | | 4220 | 3.36 | 32.00 | 7 | | 7250 | 5.89 | 43.00 | 8 | | 10617 | 8.18 | 56.00 | 8 | | | 16349 | 12.77 | 62.20 |
| | | 725 | 5 | | | 4220 | 2.54 | 32.00 | 6 | | 7250 | 4.45 | 43.00 | 6 | | 10617 | 6.16 | 56.00 | 6 | | | 16393 | 9.64 | 62.20 |
| | | 2900 | 19.728 | | 147.0 | 4220 | 9.14 | 32.00 | 20 | 143.9 | 7250 | 16.02 | 43.00 | 21 | 140.8 | 9664 | 20.56 | 44.40 | 21 | | | 16219 | 34.72 | 47.50 |
| 1 | 4 | 0 | 1450 | 9.864 | | 4220 | 4.57 | 32.00 | 10 | | 7250 | 8.01 | 43.00 | 10 | | 10120 | 10.76 | 56.00 | 10 | | 139.9 | 16375 | 17.53 | 62.20 |
| | | 960 | 6.531 | | | 4220 | 3.03 | 32.00 | 7 | | 7250 | 5.30 | 43.00 | 7 | | 10120 | 7.00 | 56.00 | 7 | | | 16449 | 11.45 | 62.20 |
| | | 725 | 4.932 | | | 4220 | 2.29 | 32.00 | 5 | | 7250 | 4.01 | 43.00 | 5 | | 10120 | 5.27 | 56.00 | 5 | | | 16490 | 8.64 | 62.20 |

SERIES F

TRIPLE REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0931 | | | | | F1031 | | | | | F1131 | | | | | F1231 | | | | |
|--------------|---|---|----------------------|-------------|----------|------------|------------|-------------|-------------|----------|------------|------------|-------------|-------------|----------|------------|------------|-------------|-------------|----------|------------|------------|-------------|
| | | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| 6 | 7 | 8 | 2900 | 18 | 4310 | 8.52 | 32.00 | 18 | 6400 | 12.44 | 43.00 | 18 | 10617 | 19.83 | 45.50 | 19 | 16156 | 32.03 | 49.50 | | | | |
| 1 | 6 | 0 | 1450 | 9 | 4310 | 4.26 | 32.00 | 9 | 6400 | 6.22 | 43.00 | 9 | 10617 | 9.91 | 56.00 | 10 | 16308 | 16.16 | 62.20 | | | | |
| | | | 960 | 5 | 4310 | 2.82 | 32.00 | 6 | 6400 | 4.12 | 43.00 | 6 | 10617 | 6.45 | 56.00 | 6 | 16379 | 10.56 | 62.20 | | | | |
| | | | 725 | 4 | 4310 | 2.13 | 32.00 | 4 | 6400 | 3.11 | 43.00 | 5 | 10617 | 4.85 | 56.00 | 5 | 16409 | 7.97 | 62.20 | | | | |
| | | | 2900 | 16 | 4310 | 7.70 | 32.00 | 15 | 6400 | 10.80 | 43.00 | 16 | 10120 | 17.02 | 48.40 | 16 | 16283 | 26.90 | 53.30 | | | | |
| 1 | 8 | 0 | 1450 | 8 | 4310 | 3.85 | 32.00 | 8 | 6400 | 5.40 | 43.00 | 8 | 10120 | 8.51 | 56.00 | 8 | 16421 | 13.56 | 62.20 | | | | |
| | | | 960 | 5 | 4310 | 2.55 | 32.00 | 5 | 6400 | 3.58 | 43.00 | 5 | 10120 | 5.53 | 56.00 | 5 | 16486 | 8.86 | 62.20 | | | | |
| | | | 725 | 4 | 4310 | 1.93 | 32.00 | 4 | 6400 | 2.70 | 43.00 | 4 | 10120 | 4.17 | 56.00 | 4 | 16523 | 6.68 | 62.20 | | | | |
| | | | 2900 | 13 | 4230 | 6.48 | 32.00 | 14 | 7250 | 11.24 | 43.00 | 14 | 10617 | 15.68 | 50.30 | 15 | 16219 | 24.81 | 55.40 | | | | |
| 2 | 0 | 0 | 1450 | 6 | 4230 | 3.24 | 32.00 | 7 | 7250 | 5.62 | 43.00 | 7 | 10617 | 7.84 | 56.00 | 7 | 16353 | 12.51 | 62.20 | | | | |
| | | | 960 | 4 | 4230 | 2.15 | 32.00 | 5 | 7250 | 3.72 | 43.00 | 5 | 10617 | 5.10 | 56.00 | 5 | 16416 | 8.17 | 62.20 | | | | |
| | | | 725 | 3 | 4230 | 1.62 | 32.00 | 4 | 7250 | 2.81 | 43.00 | 4 | 10617 | 3.84 | 56.00 | 4 | 16451 | 6.16 | 62.20 | | | | |
| | | | 2900 | 12 | 4230 | 5.86 | 32.00 | 12 | 7250 | 9.76 | 43.00 | 13 | 10120 | 13.44 | 53.30 | 13 | 16334 | 21.31 | 59.00 | | | | |
| 2 | 2 | 5 | 1450 | 6 | 4230 | 2.93 | 32.00 | 6 | 7250 | 4.88 | 43.00 | 6 | 10120 | 6.72 | 56.00 | 6 | 16459 | 10.74 | 62.20 | | | | |
| | | | 960 | 4 | 4230 | 1.94 | 32.00 | 4 | 7250 | 3.23 | 43.00 | 4 | 10120 | 4.37 | 56.00 | 4 | 16517 | 7.01 | 62.20 | | | | |
| | | | 725 | 3 | 4230 | 1.47 | 32.00 | 3 | 7250 | 2.44 | 43.00 | 3 | 10120 | 3.29 | 56.00 | 3 | 16549 | 5.28 | 62.20 | | | | |
| | | | 2900 | 11.876 | 4310 | 5.62 | 32.00 | 11 | 6400 | 8.00 | 43.00 | 11 | 10617 | 12.38 | 55.50 | 12 | 16289 | 19.65 | 61.30 | | | | |
| 2 | 5 | 0 | 1450 | 5.938 | 4310 | 2.81 | 32.00 | 6 | 6400 | 4.00 | 43.00 | 6 | 10617 | 6.19 | 56.00 | 6 | 16389 | 9.90 | 62.20 | | | | |
| | | | 960 | 3.931 | 4310 | 1.86 | 32.00 | 4 | 6400 | 2.65 | 43.00 | 4 | 10617 | 4.03 | 56.00 | 4 | 16445 | 6.46 | 62.20 | | | | |
| | | | 725 | 2.969 | 4310 | 1.41 | 32.00 | 3 | 6400 | 2.00 | 43.00 | 3 | 10617 | 3.03 | 56.00 | 3 | 16447 | 4.87 | 62.20 | | | | |
| | | | 2900 | 10 | 4310 | 5.00 | 32.00 | 11 | 6400 | 7.46 | 43.00 | 10 | 10120 | 10.93 | 56.00 | 10 | 16379 | 17.19 | 62.20 | | | | |
| 2 | 8 | 0 | 1450 | 5 | 4310 | 2.50 | 32.00 | 5 | 6400 | 3.73 | 43.00 | 5 | 10120 | 5.47 | 56.00 | 5 | 16489 | 8.65 | 62.20 | | | | |
| | | | 960 | 3 | 4310 | 1.66 | 32.00 | 4 | 6400 | 2.47 | 43.00 | 3 | 10120 | 3.55 | 56.00 | 3 | 16542 | 5.65 | 62.20 | | | | |
| | | | 725 | 2 | 4310 | 1.25 | 32.00 | 3 | 6400 | 1.87 | 43.00 | 3 | 10120 | 2.68 | 56.00 | 3 | 16560 | 4.25 | 62.20 | | | | |
| | | | 2900 | 9 | 4230 | 4.28 | 32.00 | 9 | 7250 | 7.22 | 43.00 | 9 | 10617 | 10.07 | 56.00 | 9 | 16311 | 15.85 | 62.20 | | | | |
| 3 | 1 | 5 | 1450 | 4 | 4230 | 2.14 | 32.00 | 5 | 7250 | 3.61 | 43.00 | 5 | 10617 | 5.03 | 56.00 | 5 | 16419 | 7.98 | 62.20 | | | | |
| | | | 960 | 3 | 4230 | 1.42 | 32.00 | 3 | 7250 | 2.39 | 43.00 | 3 | 10617 | 3.27 | 56.00 | 3 | 16470 | 5.20 | 62.20 | | | | |
| | | | 725 | 2 | 4230 | 1.07 | 32.00 | 2 | 7250 | 1.81 | 43.00 | 2 | 10617 | 2.46 | 56.00 | 2 | 16498 | 3.92 | 62.20 | | | | |
| | | | 2900 | 8 | 4230 | 3.80 | 32.00 | 8 | 7250 | 6.74 | 43.00 | | | | | | | | | | | | |
| 3 | 6 | 0 | 1450 | 4 | 4230 | 1.90 | 32.00 | 4 | 7250 | 3.37 | 43.00 | | | | | | | | | | | | |
| | | | 960 | 2 | 4230 | 1.26 | 32.00 | 3 | 7250 | 2.23 | 43.00 | | | | | | | | | | | | |
| | | | 725 | 2 | 4230 | 0.95 | 32.00 | 2 | 7250 | 1.69 | 43.00 | | | | | | | | | | | | |

SERIES F

QUAD REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0342 | | | | | F0442 | | | | | F0542 | | | | | F0642 | | | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|--|--|
| 6 | 7 | 8 | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | | |
| | | | 2900 | | | | | | | | | | | 9.22 | | | | | | | | | | | |
| 3 | 2 | 0 | 1450 | | | | | | | | | | | 4.61 | | | | | 314 | 651 | 0.66 | 9.2 | | | |
| | | | 960 | | | | | | | | | | | 3.05 | | | | | 651 | 0.33 | 9.2 | | | | |
| | | | 720 | | | | | | | | | | | 2.29 | | | | | 651 | 0.22 | 9.2 | | | | |
| | | | 2900 | | | | | | | | | | | 8.24 | | | | | 352 | 679 | 0.62 | 9.2 | | | |
| 3 | 6 | 0 | 1450 | | | | | | | | | | | 4.12 | | | | | 679 | 0.31 | 9.2 | | | | |
| | | | 960 | | | | | | | | | | | 2.73 | | | | | 679 | 0.20 | 9.2 | | | | |
| | | | 720 | | | | | | | | | | | 2.05 | | | | | 679 | 0.15 | 9.2 | | | | |
| | | | 2900 | 7.07 | | | | | 375 | 0.29 | 7.1 | 7.07 | | 375 | 0.29 | 7.1 | 7.02 | | 413 | 679 | 0.53 | 9.2 | 7.18 | | |
| 4 | 0 | 0 | 1450 | 3.54 | | | | | 375 | 0.15 | 7.1 | 3.54 | | 375 | 0.15 | 7.1 | 3.51 | | 413 | 679 | 0.26 | 9.2 | 3.59 | | |
| | | | 960 | 2.34 | | | | | 375 | 0.10 | 7.1 | 2.34 | | 375 | 0.10 | 7.1 | 2.33 | | 413 | 679 | 0.17 | 9.2 | 2.38 | | |
| | | | 720 | 1.76 | | | | | 375 | 0.073 | 7.1 | 1.76 | | 375 | 0.07 | 7.1 | 1.74 | | 413 | 679 | 0.13 | 9.2 | 1.78 | | |
| | | | 2900 | 6.36 | | | | | 375 | 0.26 | 7.1 | 6.36 | | 375 | 0.26 | 7.1 | 6.53 | | 444 | 679 | 0.49 | 9.2 | 6.52 | | |
| 4 | 5 | 0 | 1450 | 3.18 | | | | | 375 | 0.13 | 7.1 | 3.18 | | 375 | 0.13 | 7.1 | 3.26 | | 444 | 679 | 0.24 | 9.2 | 3.26 | | |
| | | | 960 | 2.10 | | | | | 375 | 0.087 | 7.1 | 2.10 | | 375 | 0.09 | 7.1 | 2.16 | | 444 | 679 | 0.16 | 9.2 | 2.16 | | |
| | | | 720 | 1.58 | | | | | 375 | 0.065 | 7.1 | 1.58 | | 375 | 0.07 | 7.1 | 1.62 | | 444 | 679 | 0.12 | 9.2 | 1.62 | | |
| | | | 2900 | 5.77 | | | | | 375 | 0.24 | 7.1 | 5.77 | | 375 | 0.24 | 7.1 | 5.93 | | 489 | 679 | 0.44 | 9.2 | 5.82 | | |
| 5 | 0 | 0 | 1450 | 2.88 | | | | | 375 | 0.12 | 7.1 | 2.88 | | 375 | 0.12 | 7.1 | 2.96 | | 489 | 679 | 0.22 | 9.2 | 2.91 | | |
| | | | 960 | 1.91 | | | | | 375 | 0.079 | 7.1 | 1.91 | | 375 | 0.08 | 7.1 | 1.96 | | 489 | 679 | 0.15 | 9.2 | 1.93 | | |
| | | | 720 | 1.43 | | | | | 375 | 0.059 | 7.1 | 1.43 | | 375 | 0.06 | 7.1 | 1.47 | | 489 | 679 | 0.11 | 9.2 | 1.45 | | |
| | | | 2900 | 5.02 | | | | | 393 | 0.22 | 7.1 | 5.02 | | 393 | 0.22 | 7.1 | 5.15 | | 563 | 679 | 0.39 | 9.2 | 5.08 | | |
| 5 | 6 | 0 | 1450 | 2.51 | | | | | 393 | 0.109 | 7.1 | 2.51 | | 393 | 0.11 | 7.1 | 2.58 | | 563 | 679 | 0.19 | 9.2 | 2.54 | | |
| | | | 960 | 1.66 | | | | | 393 | 0.072 | 7.1 | 1.66 | | 393 | 0.07 | 7.1 | 1.71 | | 563 | 679 | 0.13 | 9.2 | 1.68 | | |
| | | | 720 | 1.25 | | | | | 393 | 0.054 | 7.1 | 1.25 | | 393 | 0.054 | 7.1 | 1.28 | | 563 | 679 | 0.10 | 9.2 | 1.26 | | |
| | | | 2900 | 4.55 | | | | | 393 | 0.20 | 7.1 | 4.55 | | 393 | 0.20 | 7.1 | 4.74 | | 612 | 679 | 0.35 | 9.2 | 4.61 | | |
| 6 | 3 | 0 | 1450 | 2.28 | | | | | 393 | 0.099 | 7.1 | 2.28 | | 393 | 0.10 | 7.1 | 2.37 | | 612 | 679 | 0.18 | 9.2 | 2.31 | | |
| | | | 960 | 1.51 | | | | | 393 | 0.065 | 7.1 | 1.51 | | 393 | 0.07 | 7.1 | 1.57 | | 612 | 679 | 0.12 | 9.2 | 1.53 | | |
| | | | 720 | 1.13 | | | | | 393 | 0.049 | 7.1 | 1.13 | | 393 | 0.049 | 7.1 | 1.18 | | 612 | 679 | 0.09 | 9.2 | 1.14 | | |
| | | | 2900 | 4.14 | | | | | 393 | 0.18 | 7.1 | 4.14 | | 393 | 0.18 | 7.1 | 4.18 | | 694 | 679 | 0.31 | 9.2 | 4.01 | | |
| 7 | 0 | 0 | 1450 | 2.07 | | | | | 393 | 0.090 | 7.1 | 2.07 | | 393 | 0.09 | 7.1 | 2.09 | | 694 | 679 | 0.16 | 9.2 | 2.00 | | |
| | | | 960 | 1.37 | | | | | 393 | 0.059 | 7.1 | 1.37 | | 393 | 0.059 | 7.1 | 1.38 | | 694 | 679 | 0.10 | 9.2 | 1.33 | | |
| | | | 720 | 1.03 | | | | | 393 | 0.044 | 7.1 | 1.03 | | 393 | 0.044 | 7.1 | 1.04 | | 694 | 679 | 0.08 | 9.2 | 1.04 | | |
| | | | 2900 | 3.53 | | | | | 393 | 0.15 | 7.1 | 3.53 | | 393 | 0.15 | 7.1 | 3.46 | | 837 | 679 | 0.26 | 9.2 | 3.69 | | |
| 8 | 0 | 0 | 1450 | 1.77 | | | | | 393 | 0.076 | 7.1 | 1.77 | | 393 | 0.08 | 7.1 | 1.73 | | 837 | 679 | 0.13 | 9.2 | 1.84 | | |
| | | | 960 | 1.17 | | | | | 393 | 0.051 | 7.1 | 1.17 | | 393 | 0.051 | 7.1 | 1.15 | | 837 | 679 | 0.09 | 9.2 | 1.22 | | |
| | | | 720 | 0.88 | | | | | 393 | 0.038 | 7.1 | 0.88 | | 393 | 0.038 | 7.1 | 0.86 | | 837 | 679 | 0.06 | 9.2 | 0.92 | | |
| | | | 2900 | 3.17 | | | | | 392 | 0.14 | 7.1 | 3.17 | | 392 | 0.14 | 7.1 | 3.11 | | 932 | 675 | 0.23 | 9.2 | 3.25 | | |
| 9 | 0 | 0 | 1450 | 1.58 | | | | | 392 | 0.068 | 7.1 | 1.58 | | 392 | 0.07 | 7.1 | 1.56 | | 932 | 675 | 0.12 | 9.2 | 1.62 | | |
| | | | 960 | 1.05 | | | | | 392 | 0.045 | 7.1 | 1.05 | | 392 | 0.045 | 7.1 | 1.03 | | 932 | 675 | 0.08 | 9.2 | 1.08 | | |
| | | | 720 | 0.79 | | | | | 392 | 0.034 | 7.1 | 0.79 | | 392 | 0.034 | 7.1 | 0.77 | | 932 | 675 | 0.06 | 9.2 | 0.81 | | |

SERIES F

QUAD REDUCTION RATINGS

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

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

| Column Entry | | Input Speed N1 | F0342 | | | | | F0442 | | | | | F0542 | | | | | F0642 | | | | | |
|--------------|---|----------------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|-------------|----------|------------|------------|-------|-------|
| | | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra | |
| 6 | 7 | 8 | | | | | | | | | | | | | | | | | | | | | |
| | | | 2900 | 2.91 | 998 | 402 | 0.13 | 7.1 | 2.91 | 998 | 402 | 0.13 | 7.1 | 2.83 | 1026 | 679 | 0.21 | 9.2 | 2.95 | 983 | 907 | 0.30 | 11.30 |
| 1 | 0 | C | 1450 | 1.45 | | 402 | 0.064 | 7.1 | 1.45 | | 402 | 0.06 | 7.1 | 1.41 | | 679 | 0.11 | 9.2 | 1.48 | | 907 | 0.15 | 11.30 |
| | | | 960 | 0.96 | | 402 | 0.043 | 7.1 | 0.96 | | 402 | 0.043 | 7.1 | 0.94 | | 679 | 0.07 | 9.2 | 0.98 | | 907 | 0.10 | 11.30 |
| | | | 720 | 0.72 | | 402 | 0.032 | 7.1 | 0.72 | | 402 | 0.032 | 7.1 | 0.70 | | 679 | 0.053 | 9.2 | 0.73 | | 907 | 0.07 | 11.30 |
| | | | 2900 | 2.64 | 1098 | 402 | 0.12 | 7.1 | 2.64 | 1098 | 402 | 0.12 | 7.1 | 2.53 | 1148 | 679 | 0.19 | 9.2 | 2.57 | 1130 | 907 | 0.26 | 11.30 |
| 1 | 1 | C | 1450 | 1.32 | | 402 | 0.059 | 7.1 | 1.32 | | 402 | 0.06 | 7.1 | 1.26 | | 679 | 0.09 | 9.2 | 1.28 | | 907 | 0.13 | 11.30 |
| | | | 960 | 0.87 | | 402 | 0.039 | 7.1 | 0.87 | | 402 | 0.039 | 7.1 | 0.84 | | 679 | 0.063 | 9.2 | 0.85 | | 907 | 0.08 | 11.30 |
| | | | 720 | 0.66 | | 402 | 0.029 | 7.1 | 0.66 | | 402 | 0.029 | 7.1 | 0.63 | | 679 | 0.047 | 9.2 | 0.64 | | 907 | 0.064 | 11.30 |
| | | | 2900 | 2.34 | 1237 | 402 | 0.104 | 7.1 | 2.34 | 1237 | 402 | 0.10 | 7.1 | 2.46 | 1180 | 679 | 0.18 | 9.2 | 2.34 | 1238 | 907 | 0.23 | 11.30 |
| 1 | 2 | C | 1450 | 1.17 | | 402 | 0.052 | 7.1 | 1.17 | | 402 | 0.052 | 7.1 | 1.23 | | 679 | 0.09 | 9.2 | 1.17 | | 907 | 0.12 | 11.30 |
| | | | 960 | 0.78 | | 402 | 0.034 | 7.1 | 0.78 | | 402 | 0.034 | 7.1 | 0.81 | | 679 | 0.061 | 9.2 | 0.78 | | 907 | 0.08 | 11.30 |
| | | | 720 | 0.58 | | 402 | 0.026 | 7.1 | 0.58 | | 402 | 0.026 | 7.1 | 0.61 | | 679 | 0.046 | 9.2 | 0.58 | | 907 | 0.058 | 11.30 |
| | | | 2900 | 2.00 | 1449 | 402 | 0.089 | 7.1 | 2.00 | 1449 | 402 | 0.09 | 7.1 | 2.11 | 1377 | 679 | 0.16 | 9.2 | 2.16 | 1346 | 907 | 0.22 | 11.30 |
| 1 | 4 | C | 1450 | 1.00 | | 402 | 0.044 | 7.1 | 1.00 | | 402 | 0.044 | 7.1 | 1.05 | | 679 | 0.08 | 9.2 | 1.08 | | 907 | 0.11 | 11.30 |
| | | | 960 | 0.66 | | 402 | 0.029 | 7.1 | 0.66 | | 402 | 0.029 | 7.1 | 0.70 | | 679 | 0.052 | 9.2 | 0.71 | | 907 | 0.071 | 11.30 |
| | | | 720 | 0.50 | | 402 | 0.022 | 7.1 | 0.50 | | 402 | 0.022 | 7.1 | 0.52 | | 679 | 0.039 | 9.2 | 0.54 | | 907 | 0.053 | 11.30 |
| | | | 2900 | 1.88 | 1543 | 402 | 0.083 | 7.1 | 1.88 | 1543 | 402 | 0.08 | 7.1 | 1.87 | 1552 | 679 | 0.14 | 9.2 | 1.80 | 1615 | 907 | 0.18 | 11.30 |
| 1 | 6 | C | 1450 | 0.94 | | 402 | 0.042 | 7.1 | 0.94 | | 402 | 0.042 | 7.1 | 0.93 | | 679 | 0.07 | 9.2 | 0.90 | | 907 | 0.09 | 11.30 |
| | | | 960 | 0.62 | | 402 | 0.028 | 7.1 | 0.62 | | 402 | 0.028 | 7.1 | 0.62 | | 679 | 0.046 | 9.2 | 0.59 | | 907 | 0.059 | 11.30 |
| | | | 720 | 0.47 | | 402 | 0.021 | 7.1 | 0.47 | | 402 | 0.021 | 7.1 | 0.46 | | 679 | 0.035 | 9.2 | 0.45 | | 907 | 0.045 | 11.30 |
| | | | 2900 | 1.61 | 1799 | 402 | 0.071 | 7.1 | 1.61 | 1799 | 402 | 0.07 | 7.1 | 1.57 | 1848 | 675 | 0.12 | 9.2 | 1.64 | 1770 | 907 | 0.16 | 11.30 |
| 1 | 8 | C | 1450 | 0.81 | | 402 | 0.036 | 7.1 | 0.81 | | 402 | 0.036 | 7.1 | 0.78 | | 675 | 0.058 | 9.2 | 0.82 | | 907 | 0.08 | 11.30 |
| | | | 960 | 0.53 | | 402 | 0.024 | 7.1 | 0.53 | | 402 | 0.024 | 7.1 | 0.52 | | 675 | 0.039 | 9.2 | 0.54 | | 907 | 0.054 | 11.30 |
| | | | 720 | 0.40 | | 402 | 0.018 | 7.1 | 0.40 | | 402 | 0.018 | 7.1 | 0.39 | | 675 | 0.029 | 9.2 | 0.41 | | 907 | 0.041 | 11.30 |
| | | | 2900 | 1.43 | 2027 | 402 | 0.063 | 7.1 | 1.43 | 2027 | 402 | 0.06 | 7.1 | 1.39 | 2082 | 675 | 0.10 | 9.2 | 1.45 | 1995 | 907 | 0.15 | 11.30 |
| 2 | 0 | C | 1450 | 0.72 | | 402 | 0.032 | 7.1 | 0.72 | | 402 | 0.032 | 7.1 | 0.70 | | 675 | 0.052 | 9.2 | 0.73 | | 907 | 0.07 | 11.30 |
| | | | 960 | 0.47 | | 402 | 0.021 | 7.1 | 0.47 | | 402 | 0.021 | 7.1 | 0.46 | | 675 | 0.034 | 9.2 | 0.48 | | 907 | 0.048 | 11.30 |
| | | | 720 | 0.36 | | 402 | 0.016 | 7.1 | 0.36 | | 402 | 0.016 | 7.1 | 0.35 | | 675 | 0.026 | 9.2 | 0.36 | | 907 | 0.036 | 11.30 |
| | | | 2900 | 1.29 | 2252 | 402 | 0.057 | 7.1 | 1.29 | 2252 | 402 | 0.057 | 7.1 | 1.29 | 2242 | 675 | 0.10 | 9.2 | 1.33 | 2184 | 907 | 0.13 | 11.30 |
| 2 | 2 | C | 1450 | 0.64 | | 402 | 0.029 | 7.1 | 0.64 | | 402 | 0.029 | 7.1 | 0.65 | | 675 | 0.048 | 9.2 | 0.66 | | 907 | 0.066 | 11.30 |
| | | | 960 | 0.43 | | 402 | 0.019 | 7.1 | 0.43 | | 402 | 0.019 | 7.1 | 0.43 | | 675 | 0.032 | 9.2 | 0.44 | | 907 | 0.044 | 11.30 |
| | | | 720 | 0.32 | | 402 | 0.014 | 7.1 | 0.32 | | 402 | 0.014 | 7.1 | 0.32 | | 675 | 0.024 | 9.2 | 0.33 | | 907 | 0.033 | 11.30 |
| | | | 2900 | 1.20 | 2407 | 402 | 0.053 | 7.1 | 1.20 | 2407 | 402 | 0.053 | 7.1 | 1.20 | 2421 | 675 | 0.09 | 9.2 | 1.14 | 2539 | 907 | 0.11 | 11.30 |
| 2 | 5 | C | 1450 | 0.60 | | 402 | 0.027 | 7.1 | 0.60 | | 402 | 0.027 | 7.1 | 0.60 | | 675 | 0.045 | 9.2 | 0.57 | | 907 | 0.057 | 11.30 |
| | | | 960 | 0.40 | | 402 | 0.018 | 7.1 | 0.40 | | 402 | 0.018 | 7.1 | 0.40 | | 675 | 0.030 | 9.2 | 0.38 | | 907 | 0.038 | 11.30 |
| | | | 720 | 0.30 | | 402 | 0.013 | 7.1 | 0.30 | | 402 | 0.013 | 7.1 | 0.30 | | 675 | 0.022 | 9.2 | 0.28 | | 907 | 0.028 | 11.30 |
| | | | 2900 | 1.05 | 2759 | 402 | 0.047 | 7.1 | 1.05 | 2759 | 402 | 0.047 | 7.1 | 1.06 | 2747 | 675 | 0.08 | 9.2 | 1.01 | 2882 | 907 | 0.10 | 11.30 |
| 2 | 8 | C | 1450 | 0.53 | | 402 | 0.023 | 7.1 | 0.53 | | 402 | 0.023 | 7.1 | 0.53 | | 675 | 0.039 | 9.2 | 0.50 | | 907 | 0.050 | 11.30 |
| | | | 960 | 0.35 | | 402 | 0.015 | 7.1 | 0.35 | | 402 | 0.015 | 7.1 | 0.35 | | 675 | 0.026 | 9.2 | 0.33 | | 907 | 0.033 | 11.30 |
| | | | 720 | 0.26 | | 402 | 0.012 | 7.1 | 0.26 | | 402 | 0.012 | 7.1 | 0.26 | | 675 | 0.019 | 9.2 | 0.25 | | 907 | 0.025 | 11.30 |

SERIES F

QUAD REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0342 | | | | | F0442 | | | | | F0542 | | | | | F0642 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| 6 | 7 | 8 | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| | | | 3153 | 2900 | 0.92 | 377 | 0.038 | 7.1 | 0.92 | 3578 | 377 | 0.038 | 7.1 | 0.93 | 3123 | 675 | 0.07 | 9.2 | 0.93 | 3112 | 869 | 0.09 | 11.30 |
| 3 | 2 | C | | 1450 | 0.46 | 377 | 0.019 | 7.1 | 0.41 | | 377 | 0.019 | 7.1 | 0.46 | | 675 | 0.035 | 9.2 | 0.47 | | 869 | 0.045 | 11.30 |
| | | | | 960 | 0.30 | 377 | 0.013 | 7.1 | 0.27 | | 377 | 0.013 | 7.1 | 0.31 | | 675 | 0.023 | 9.2 | 0.31 | | 869 | 0.030 | 11.30 |
| | | | | 720 | 0.23 | 377 | 0.009 | 7.1 | 0.20 | | 377 | 0.009 | 7.1 | 0.23 | | 675 | 0.017 | 9.2 | 0.23 | | 869 | 0.022 | 11.30 |
| | | | 3578 | 2900 | 0.81 | 339 | 0.030 | 7.1 | 0.81 | 3578 | 339 | 0.030 | 7.1 | 0.83 | 3481 | 512 | 0.047 | 9.2 | 0.82 | 3532 | 869 | 0.08 | 11.30 |
| 3 | 6 | C | | 1450 | 0.41 | 339 | 0.015 | 7.1 | 0.41 | | 339 | 0.015 | 7.1 | 0.42 | | 512 | 0.024 | 9.2 | 0.41 | | 869 | 0.039 | 11.30 |
| | | | | 960 | 0.27 | 339 | 0.010 | 7.1 | 0.27 | | 339 | 0.010 | 7.1 | 0.28 | | 512 | 0.016 | 9.2 | 0.27 | | 869 | 0.026 | 11.30 |
| | | | | 720 | 0.20 | 339 | 0.008 | 7.1 | 0.20 | | 339 | 0.008 | 7.1 | 0.21 | | 512 | 0.012 | 9.2 | 0.20 | | 869 | 0.020 | 11.30 |
| | | | 4102 | 2900 | 0.71 | 339 | 0.026 | 7.1 | 0.71 | 4102 | 339 | 0.026 | 7.1 | 0.74 | 3904 | 365 | 0.030 | 9.2 | 0.74 | 3937 | 660 | 0.05 | 11.30 |
| 4 | 0 | C | | 1450 | 0.35 | 339 | 0.013 | 7.1 | 0.35 | | 339 | 0.013 | 7.1 | 0.37 | | 365 | 0.015 | 9.2 | 0.37 | | 660 | 0.027 | 11.30 |
| | | | | 960 | 0.23 | 339 | 0.009 | 7.1 | 0.23 | | 339 | 0.009 | 7.1 | 0.25 | | 365 | 0.010 | 9.2 | 0.24 | | 660 | 0.018 | 11.30 |
| | | | | 720 | 0.18 | 339 | 0.007 | 7.1 | 0.18 | | 339 | 0.007 | 7.1 | 0.18 | | 365 | 0.007 | 9.2 | 0.18 | | 660 | 0.013 | 11.30 |
| | | | 4663 | 2900 | 0.62 | 302 | 0.021 | 7.1 | 0.62 | 4663 | 302 | 0.021 | 7.1 | | | | | | 0.66 | 4415 | 470 | 0.034 | 11.30 |
| 4 | 5 | C | | 1450 | 0.31 | 302 | 0.010 | 7.1 | 0.31 | | 302 | 0.010 | 7.1 | | | | | | 0.33 | | 470 | 0.017 | 11.30 |
| | | | | 960 | 0.21 | 302 | 0.007 | 7.1 | 0.21 | | 302 | 0.007 | 7.1 | | | | | | 0.22 | | 470 | 0.011 | 11.30 |
| | | | | 720 | 0.15 | 302 | 0.005 | 7.1 | 0.15 | | 302 | 0.005 | 7.1 | | | | | | 0.16 | | 470 | 0.008 | 11.30 |
| | | | 5299 | 2900 | 0.55 | 302 | 0.018 | 7.1 | 0.55 | 5299 | 302 | 0.018 | 7.1 | | | | | | 0.58 | 5019 | 470 | 0.030 | 11.30 |
| 5 | 0 | C | | 1450 | 0.27 | 302 | 0.009 | 7.1 | 0.27 | | 302 | 0.009 | 7.1 | | | | | | 0.29 | | 470 | 0.015 | 11.30 |
| | | | | 960 | 0.18 | 302 | 0.006 | 7.1 | 0.18 | | 302 | 0.006 | 7.1 | | | | | | 0.19 | | 470 | 0.010 | 11.30 |
| | | | | 720 | 0.14 | 302 | 0.005 | 7.1 | 0.14 | | 302 | 0.005 | 7.1 | | | | | | 0.14 | | 470 | 0.007 | 11.30 |
| | | | | 2900 | | | | | | | | | | | | | | | | | | | |
| 5 | 6 | C | | 1450 | | | | | | | | | | | | | | | | | | | |
| | | | | 960 | | | | | | | | | | | | | | | | | | | |
| | | | | 720 | | | | | | | | | | | | | | | | | | | |

SERIES F

QUAD REDUCTION RATINGS

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

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

| Column Entry | | Input Speed N1 | F0742 | | | | | F0842 | | | | | F0941 | | | | | F1041 | | | | | |
|--------------|---|----------------|-------|-------|------|------|------|-------|-----|------|------|-------|-------|-----|------|------|-------|-------|-----|------|------|-------|--|
| | | | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | |
| 6 | 7 | 8 | (rpm) | (rpm) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | |
| | | 2900 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 0 | 1450 | | | | | | | | | | | | | | | | | | | | |
| | | 960 | | | | | | | | | | | | | | | | | | | | | |
| | | 720 | | | | | | | | | | | | | | | | | | | | | |
| | | 2900 | | | | | | | | | | | | | | | | | | | | | |
| 3 | 6 | 0 | 1450 | | | | | | | | | | | | | | | | | | | | |
| | | 960 | | | | | | | | | | | | | | | | | | | | | |
| | | 720 | | | | | | | | | | | | | | | | | | | | | |
| | | 2900 | 7.18 | 404 | 1590 | 1.26 | 17.0 | 7.33 | 396 | 2700 | 2.18 | 19.70 | 7.33 | 396 | 4230 | 3.42 | 32.90 | 7.24 | 401 | 7250 | 5.78 | 43.30 | |
| 4 | 0 | 0 | 1450 | | 1590 | 0.63 | 17.0 | 3.66 | | 2700 | 1.09 | 19.70 | 3.66 | | 4230 | 1.71 | 32.90 | 3.62 | | 7250 | 2.89 | 43.30 | |
| | | 960 | 2.38 | | 1590 | 0.42 | 17.0 | 2.43 | | 2700 | 0.72 | 19.70 | 2.43 | | 4230 | 1.13 | 32.90 | 2.40 | | 7250 | 1.91 | 43.30 | |
| | | 720 | 1.78 | | 1590 | 0.31 | 17.0 | 1.82 | | 2700 | 0.54 | 19.70 | 1.82 | | 4230 | 0.85 | 32.90 | 1.80 | | 7250 | 1.44 | 43.30 | |
| | | 2900 | 6.25 | 464 | 1720 | 1.18 | 17.0 | 6.30 | 460 | 2700 | 1.87 | 19.70 | 6.30 | 460 | 4230 | 2.94 | 32.90 | 6.51 | 445 | 7250 | 5.20 | 43.30 | |
| 4 | 5 | 0 | 1450 | | 1720 | 0.59 | 17.0 | 3.15 | | 2700 | 0.94 | 19.70 | 3.15 | | 4230 | 1.47 | 32.90 | 3.26 | | 7250 | 2.60 | 43.30 | |
| | | 960 | 2.07 | | 1720 | 0.39 | 17.0 | 2.09 | | 2700 | 0.62 | 19.70 | 2.09 | | 4230 | 0.97 | 32.90 | 2.16 | | 7250 | 1.72 | 43.30 | |
| | | 720 | 1.55 | | 1720 | 0.29 | 17.0 | 1.56 | | 2700 | 0.47 | 19.70 | 1.56 | | 4230 | 0.73 | 32.90 | 1.62 | | 7250 | 1.29 | 43.30 | |
| | | 2900 | 5.43 | 534 | 1720 | 1.03 | 17.0 | 5.92 | 490 | 2770 | 1.81 | 19.70 | 5.68 | 511 | 4230 | 2.65 | 32.90 | 5.92 | 490 | 7250 | 4.73 | 43.30 | |
| 5 | 0 | 0 | 1450 | | 1720 | 0.51 | 17.0 | 2.96 | | 2770 | 0.90 | 19.70 | 2.84 | | 4230 | 1.32 | 32.90 | 2.96 | | 7250 | 2.37 | 43.30 | |
| | | 960 | 1.80 | | 1720 | 0.34 | 17.0 | 1.96 | | 2770 | 0.60 | 19.70 | 1.88 | | 4230 | 0.88 | 32.90 | 1.96 | | 7250 | 1.57 | 43.30 | |
| | | 720 | 1.35 | | 1720 | 0.26 | 17.0 | 1.47 | | 2770 | 0.45 | 19.70 | 1.41 | | 4230 | 0.66 | 32.90 | 1.47 | | 7250 | 1.17 | 43.30 | |
| | | 2900 | 4.99 | 581 | 1720 | 0.95 | 17.0 | 5.09 | 570 | 2770 | 1.55 | 19.70 | 4.88 | 594 | 4230 | 2.28 | 32.90 | 5.15 | 563 | 7250 | 4.12 | 43.30 | |
| 5 | 6 | 0 | 1450 | | 1720 | 0.47 | 17.0 | 2.54 | | 2770 | 0.78 | 19.70 | 2.44 | | 4230 | 1.14 | 32.90 | 2.58 | | 7250 | 2.06 | 43.30 | |
| | | 960 | 1.65 | | 1720 | 0.31 | 17.0 | 1.68 | | 2770 | 0.51 | 19.70 | 1.62 | | 4230 | 0.75 | 32.90 | 1.71 | | 7250 | 1.36 | 43.30 | |
| | | 720 | 1.24 | | 1720 | 0.24 | 17.0 | 1.26 | | 2770 | 0.39 | 19.70 | 1.21 | | 4230 | 0.56 | 32.90 | 1.28 | | 7250 | 1.02 | 43.30 | |
| | | 2900 | 4.40 | 658 | 1860 | 0.90 | 17.0 | 4.55 | 638 | 2770 | 1.39 | 19.70 | 4.36 | 665 | 4230 | 2.03 | 32.90 | 4.54 | 638 | 7250 | 3.63 | 43.30 | |
| 6 | 3 | 0 | 1450 | | 1860 | 0.45 | 17.0 | 2.27 | | 2770 | 0.69 | 19.70 | 2.18 | | 4230 | 1.02 | 32.90 | 2.27 | | 7250 | 1.82 | 43.30 | |
| | | 960 | 1.46 | | 1860 | 0.30 | 17.0 | 1.51 | | 2770 | 0.46 | 19.70 | 1.44 | | 4230 | 0.67 | 32.90 | 1.50 | | 7250 | 1.20 | 43.30 | |
| | | 720 | 1.09 | | 1860 | 0.22 | 17.0 | 1.13 | | 2770 | 0.34 | 19.70 | 1.08 | | 4230 | 0.50 | 32.90 | 1.13 | | 7250 | 0.90 | 43.30 | |
| | | 2900 | 3.99 | 726 | 1890 | 0.83 | 17.0 | 4.27 | 680 | 2770 | 1.30 | 19.70 | 4.09 | 709 | 4230 | 1.91 | 32.90 | 4.12 | 704 | 7250 | 3.29 | 43.30 | |
| 7 | 0 | 0 | 1450 | | 1890 | 0.42 | 17.0 | 2.13 | | 2770 | 0.65 | 19.70 | 2.05 | | 4230 | 0.95 | 32.90 | 2.06 | | 7250 | 1.65 | 43.30 | |
| | | 960 | 1.32 | | 1890 | 0.28 | 17.0 | 1.41 | | 2770 | 0.43 | 19.70 | 1.35 | | 4230 | 0.63 | 32.90 | 1.36 | | 7250 | 1.09 | 43.30 | |
| | | 720 | 0.99 | | 1890 | 0.21 | 17.0 | 1.06 | | 2770 | 0.32 | 19.70 | 1.02 | | 4230 | 0.47 | 32.90 | 1.02 | | 7250 | 0.82 | 43.30 | |
| | | 2900 | 3.49 | 832 | 1890 | 0.73 | 17.0 | 3.60 | 806 | 2770 | 1.10 | 19.70 | 3.45 | 840 | 4230 | 1.61 | 32.90 | 3.60 | 806 | 7250 | 2.87 | 43.30 | |
| 8 | 0 | 0 | 1450 | | 1890 | 0.36 | 17.0 | 1.80 | | 2770 | 0.55 | 19.70 | 1.73 | | 4230 | 0.80 | 32.90 | 1.80 | | 7250 | 1.44 | 43.30 | |
| | | 960 | 1.15 | | 1890 | 0.24 | 17.0 | 1.19 | | 2770 | 0.36 | 19.70 | 1.14 | | 4230 | 0.53 | 32.90 | 1.19 | | 7250 | 0.95 | 43.30 | |
| | | 720 | 0.87 | | 1890 | 0.18 | 17.0 | 0.89 | | 2770 | 0.27 | 19.70 | 0.86 | | 4230 | 0.40 | 32.90 | 0.89 | | 7250 | 0.71 | 43.30 | |
| | | 2900 | 3.07 | 944 | 1890 | 0.64 | 17.0 | 3.19 | 910 | 3200 | 1.12 | 19.70 | 3.13 | 927 | 4230 | 1.46 | 32.90 | 3.14 | 925 | 7250 | 2.51 | 43.30 | |
| 9 | 0 | 0 | 1450 | | 1890 | 0.32 | 17.0 | 1.59 | | 3200 | 0.56 | 19.70 | 1.56 | | 4230 | 0.73 | 32.90 | 1.57 | | 7250 | 1.25 | 43.30 | |
| | | 960 | 1.02 | | 1890 | 0.21 | 17.0 | 1.06 | | 3200 | 0.37 | 19.70 | 1.04 | | 4230 | 0.48 | 32.90 | 1.04 | | 7250 | 0.83 | 43.30 | |
| | | 720 | 0.76 | | 1890 | 0.16 | 17.0 | 0.79 | | 3200 | 0.28 | 19.70 | 0.78 | | 4230 | 0.36 | 32.90 | 0.78 | | 7250 | 0.62 | 43.30 | |

SERIES F

QUAD REDUCTION RATINGS

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

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

| Column Entry | | | Input Speed N1 (rpm) | F0742 | | | | | F0842 | | | | | F0941 | | | | | F1041 | | | | |
|--------------|---|---|----------------------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|----------|-------|---------|---------|----------|
| 6 | 7 | 8 | | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) | N2 (rpm) | i (i) | M2 (Nm) | Pm (kW) | fra (kN) |
| | | | 2900 | 2.79 | | 1890 | 0.58 | 17.0 | 2.85 | | 3200 | 1.01 | 19.70 | 2.80 | | 4230 | 1.30 | 32.90 | 2.77 | | 7250 | 2.21 | 43.30 |
| 1 | 0 | C | 1450 | 1.39 | 1040 | 1890 | 0.29 | 17.0 | 1.42 | 1018 | 3200 | 0.50 | 19.70 | 1.40 | 1037 | 4230 | 0.65 | 32.90 | 1.38 | 1049 | 7250 | 1.10 | 43.30 |
| | | | 960 | 0.92 | | 1890 | 0.19 | 17.0 | 0.94 | | 3200 | 0.33 | 19.70 | 0.93 | | 4230 | 0.43 | 32.90 | 0.92 | | 7250 | 0.73 | 43.30 |
| | | | 720 | 0.69 | | 1890 | 0.14 | 17.0 | 0.71 | | 3200 | 0.25 | 19.70 | 0.69 | | 4230 | 0.32 | 32.90 | 0.69 | | 7250 | 0.55 | 43.30 |
| | | | 2900 | 2.66 | | 1890 | 0.55 | 17.0 | 2.67 | | 3200 | 0.94 | 19.70 | 2.62 | | 4230 | 1.22 | 32.90 | 2.51 | 1157 | 7250 | 2.00 | 43.30 |
| 1 | 1 | C | 1450 | 1.33 | 1090 | 1890 | 0.28 | 17.0 | 1.34 | 1085 | 3200 | 0.47 | 19.70 | 1.31 | 1105 | 4230 | 0.61 | 32.90 | 1.25 | | 7250 | 1.00 | 43.30 |
| | | | 960 | 0.88 | | 1890 | 0.18 | 17.0 | 0.89 | | 3200 | 0.31 | 19.70 | 0.87 | | 4230 | 0.41 | 32.90 | 0.83 | | 7250 | 0.66 | 43.30 |
| | | | 720 | 0.66 | | 1890 | 0.14 | 17.0 | 0.66 | | 3200 | 0.23 | 19.70 | 0.65 | | 4230 | 0.30 | 32.90 | 0.62 | | 7250 | 0.50 | 43.30 |
| | | | 2900 | 2.42 | | 1890 | 0.51 | 17.0 | 2.43 | | 3200 | 0.86 | 19.70 | 2.46 | | 4230 | 1.15 | 32.90 | 2.19 | 1325 | 7250 | 1.75 | 43.30 |
| 1 | 2 | C | 1450 | 1.21 | 1196 | 1890 | 0.25 | 17.0 | 1.22 | 1191 | 3200 | 0.43 | 19.70 | 1.23 | 1177 | 4230 | 0.57 | 32.90 | 1.09 | | 7250 | 0.87 | 43.30 |
| | | | 960 | 0.80 | | 1890 | 0.17 | 17.0 | 0.81 | | 3200 | 0.28 | 19.70 | 0.82 | | 4230 | 0.38 | 32.90 | 0.72 | | 7250 | 0.58 | 43.30 |
| | | | 720 | 0.60 | | 1890 | 0.13 | 17.0 | 0.60 | | 3200 | 0.21 | 19.70 | 0.61 | | 4230 | 0.29 | 32.90 | 0.54 | | 7250 | 0.43 | 43.30 |
| | | | 2900 | 2.15 | | 1890 | 0.45 | 17.0 | 2.05 | | 3200 | 0.72 | 19.70 | 2.08 | | 4230 | 0.97 | 32.90 | 1.94 | 1498 | 7250 | 1.55 | 43.30 |
| 1 | 4 | C | 1450 | 1.07 | 1350 | 1890 | 0.22 | 17.0 | 1.03 | 1412 | 3200 | 0.36 | 19.70 | 1.04 | 1395 | 4230 | 0.48 | 32.90 | 0.97 | | 7250 | 0.77 | 43.30 |
| | | | 960 | 0.71 | | 1890 | 0.15 | 17.0 | 0.68 | | 3200 | 0.24 | 19.70 | 0.69 | | 4230 | 0.32 | 32.90 | 0.64 | | 7250 | 0.51 | 43.30 |
| | | | 720 | 0.53 | | 1890 | 0.11 | 17.0 | 0.51 | | 3200 | 0.18 | 19.70 | 0.52 | | 4230 | 0.24 | 32.90 | 0.48 | | 7250 | 0.38 | 43.30 |
| | | | 2900 | 1.85 | | 1890 | 0.38 | 17.0 | 1.82 | | 3200 | 0.64 | 19.70 | 1.91 | | 4230 | 0.89 | 32.90 | 1.85 | 1564 | 7250 | 1.48 | 43.30 |
| 1 | 6 | C | 1450 | 0.92 | 1571 | 1890 | 0.19 | 17.0 | 0.91 | 1594 | 3200 | 0.32 | 19.70 | 0.95 | 1520 | 4230 | 0.44 | 32.90 | 0.93 | | 7250 | 0.74 | 43.30 |
| | | | 960 | 0.61 | | 1890 | 0.13 | 17.0 | 0.60 | | 3200 | 0.21 | 19.70 | 0.63 | | 4230 | 0.29 | 32.90 | 0.61 | | 7250 | 0.49 | 43.30 |
| | | | 720 | 0.46 | | 1890 | 0.10 | 17.0 | 0.45 | | 3200 | 0.16 | 19.70 | 0.47 | | 4230 | 0.22 | 32.90 | 0.46 | | 7250 | 0.37 | 43.30 |
| | | | 2900 | 1.64 | | 1890 | 0.34 | 17.0 | 1.53 | | 3200 | 0.54 | 19.70 | 1.61 | | 4230 | 0.75 | 32.90 | 1.62 | 1792 | 7250 | 1.29 | 43.30 |
| 1 | 8 | C | 1450 | 0.82 | 1770 | 1890 | 0.17 | 17.0 | 0.77 | 1890 | 3200 | 0.27 | 19.70 | 0.80 | 1802 | 4230 | 0.38 | 32.90 | 0.81 | | 7250 | 0.65 | 43.30 |
| | | | 960 | 0.54 | | 1890 | 0.11 | 17.0 | 0.51 | | 3200 | 0.18 | 19.70 | 0.53 | | 4230 | 0.25 | 32.90 | 0.54 | | 7250 | 0.43 | 43.30 |
| | | | 720 | 0.41 | | 1890 | 0.08 | 17.0 | 0.38 | | 3200 | 0.13 | 19.70 | 0.40 | | 4230 | 0.19 | 32.90 | 0.40 | | 7250 | 0.32 | 43.30 |
| | | | 2900 | 1.41 | | 1890 | 0.29 | 17.0 | 1.44 | | 3200 | 0.51 | 19.70 | 1.51 | | 4230 | 0.70 | 32.90 | 1.43 | 2026 | 7250 | 1.14 | 43.30 |
| 2 | 0 | C | 1450 | 0.71 | 2052 | 1890 | 0.15 | 17.0 | 0.72 | 2017 | 3200 | 0.25 | 19.70 | 0.75 | 1924 | 4230 | 0.35 | 32.90 | 0.72 | | 7250 | 0.57 | 43.30 |
| | | | 960 | 0.47 | | 1890 | 0.10 | 17.0 | 0.48 | | 3200 | 0.17 | 19.70 | 0.50 | | 4230 | 0.23 | 32.90 | 0.47 | | 7250 | 0.38 | 43.30 |
| | | | 720 | 0.35 | | 1890 | 0.07 | 17.0 | 0.36 | | 3200 | 0.13 | 19.70 | 0.37 | | 4230 | 0.17 | 32.90 | 0.36 | | 7250 | 0.28 | 43.30 |
| | | | 2900 | 1.25 | | 1890 | 0.26 | 17.0 | 1.26 | | 3200 | 0.45 | 19.70 | 1.33 | | 4230 | 0.62 | 32.90 | 1.23 | 2349 | 7250 | 0.99 | 43.30 |
| 2 | 2 | C | 1450 | 0.63 | 2312 | 1890 | 0.13 | 17.0 | 0.63 | 2293 | 3200 | 0.22 | 19.70 | 0.67 | 2180 | 4230 | 0.31 | 32.90 | 0.62 | | 7250 | 0.49 | 43.30 |
| | | | 960 | 0.42 | | 1890 | 0.09 | 17.0 | 0.42 | | 3200 | 0.15 | 19.70 | 0.44 | | 4230 | 0.21 | 32.90 | 0.41 | | 7250 | 0.33 | 43.30 |
| | | | 720 | 0.31 | | 1890 | 0.065 | 17.0 | 0.31 | | 3200 | 0.11 | 19.70 | 0.33 | | 4230 | 0.15 | 32.90 | 0.31 | | 7250 | 0.24 | 43.30 |
| | | | 2900 | 1.18 | | 1890 | 0.25 | 17.0 | 1.16 | | 3200 | 0.41 | 19.70 | 1.21 | | 4230 | 0.57 | 32.90 | 1.15 | 2523 | 7050 | 0.89 | 43.30 |
| 2 | 5 | C | 1450 | 0.59 | 2454 | 1890 | 0.12 | 17.0 | 0.58 | 2503 | 3200 | 0.20 | 19.70 | 0.61 | 2387 | 4230 | 0.28 | 32.90 | 0.57 | | 7050 | 0.45 | 43.30 |
| | | | 960 | 0.39 | | 1890 | 0.08 | 17.0 | 0.38 | | 3200 | 0.14 | 19.70 | 0.40 | | 4230 | 0.19 | 32.90 | 0.38 | | 7050 | 0.30 | 43.30 |
| | | | 720 | 0.29 | | 1890 | 0.061 | 17.0 | 0.29 | | 3200 | 0.10 | 19.70 | 0.30 | | 4230 | 0.14 | 32.90 | 0.29 | | 7050 | 0.22 | 43.30 |
| | | | 2900 | 1.04 | | 1890 | 0.22 | 17.0 | 1.07 | | 3200 | 0.38 | 19.70 | 1.03 | | 4230 | 0.48 | 32.90 | 1.04 | 2801 | 7250 | 0.83 | 43.30 |
| 2 | 8 | C | 1450 | 0.52 | 2785 | 1890 | 0.11 | 17.0 | 0.54 | 2703 | 3200 | 0.19 | 19.70 | 0.52 | 2815 | 4230 | 0.24 | 32.90 | 0.52 | | 7250 | 0.41 | 43.30 |
| | | | 960 | 0.34 | | 1890 | 0.072 | 17.0 | 0.36 | | 3200 | 0.13 | 19.70 | 0.34 | | 4230 | 0.16 | 32.90 | 0.34 | | 7250 | 0.27 | 43.30 |
| | | | 720 | 0.26 | | 1890 | 0.054 | 17.0 | 0.27 | | 3200 | 0.09 | 19.70 | 0.26 | | 4230 | 0.12 | 32.90 | 0.26 | | 7250 | 0.21 | 43.30 |

SERIES F

QUAD REDUCTION RATINGS

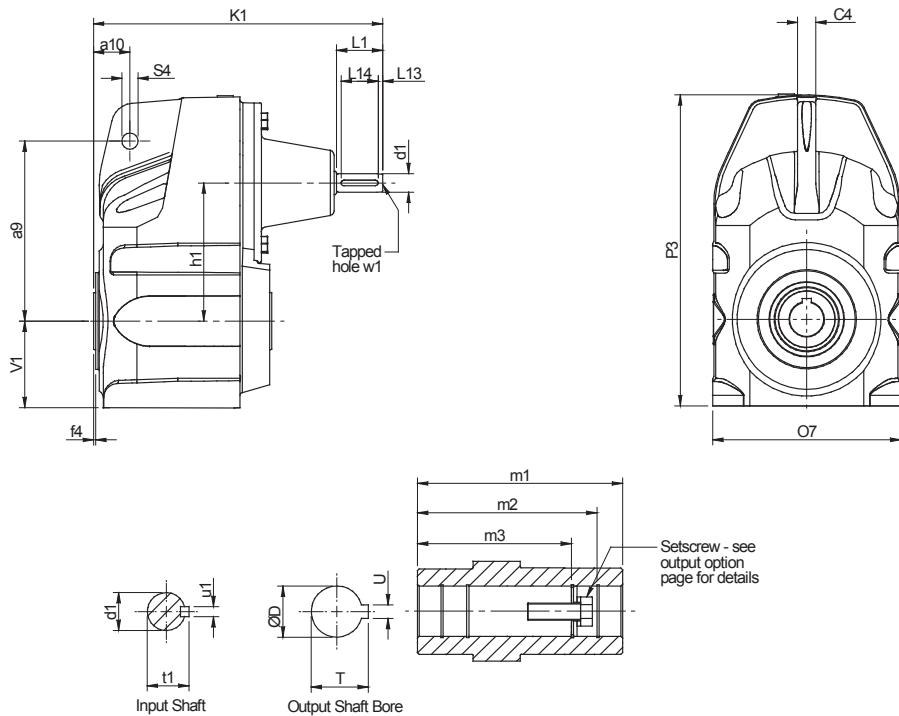
Note: Input Power, Pm may exceed thermal limit,
Check thermal power

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

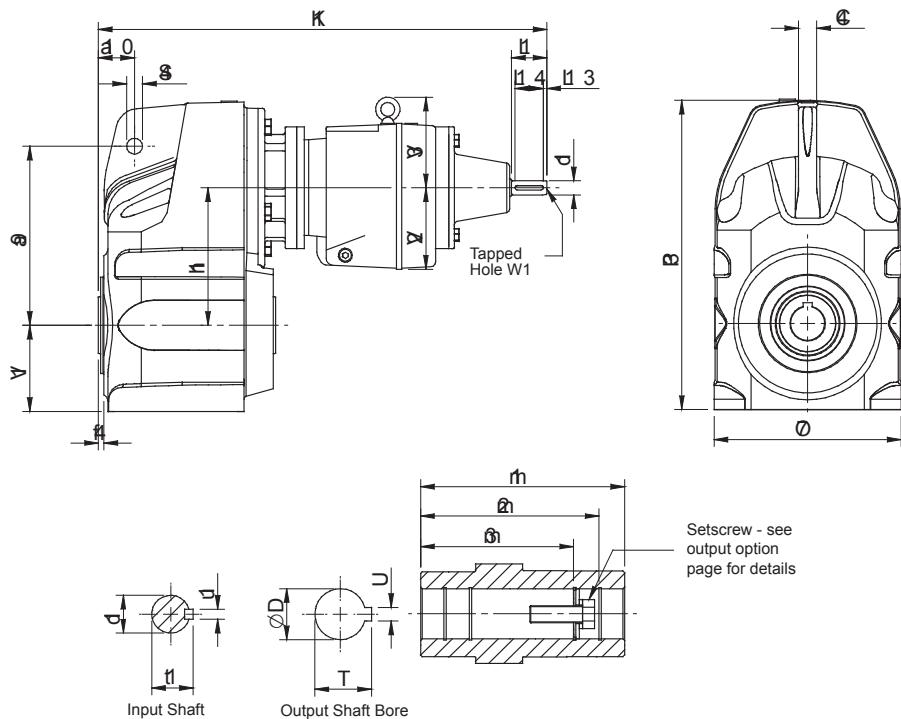
| Column Entry | | Input Speed N1 | F0742 | | | | | F0842 | | | | | F0941 | | | | | F1041 | | | | | |
|--------------|---|----------------|-------|-------|------|------|-------|-------|------|------|------|-------|-------|------|------|------|-------|-------|------|------|------|------|-------|
| | | | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | N2 | i | M2 | Pm | fra | |
| 6 | 7 | 8 | (rpm) | (rpm) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | (rpm) | (i) | (Nm) | (kW) | (kN) | |
| | | | 2900 | 0.90 | 3225 | 1650 | 0.16 | 17.0 | 0.90 | 3232 | 3200 | 0.32 | 19.70 | 0.94 | 3082 | 4230 | 0.44 | 32.90 | 0.95 | 3068 | 7250 | 0.76 | 43.30 |
| 3 | 2 | C | 1450 | 0.45 | | 1650 | 0.08 | 17.0 | 0.45 | | 3200 | 0.16 | 19.70 | 0.47 | | 4230 | 0.22 | 32.90 | 0.47 | | 7250 | 0.38 | 43.30 |
| | | | 960 | 0.30 | | 1650 | 0.054 | 17.0 | 0.30 | | 3200 | 0.10 | 19.70 | 0.31 | | 4230 | 0.15 | 32.90 | 0.31 | | 7250 | 0.25 | 43.30 |
| | | | 720 | 0.22 | | 1650 | 0.041 | 17.0 | 0.22 | | 3200 | 0.08 | 19.70 | 0.23 | | 4230 | 0.11 | 32.90 | 0.23 | | 7250 | 0.19 | 43.30 |
| | | | 2900 | 0.79 | 3660 | 1650 | 0.14 | 17.0 | 0.80 | 3628 | 3200 | 0.28 | 19.70 | 0.79 | 3656 | 4230 | 0.37 | 32.90 | 0.79 | 3681 | 7250 | 0.63 | 43.30 |
| 3 | 6 | C | 1450 | 0.40 | | 1650 | 0.07 | 17.0 | 0.40 | | 3200 | 0.14 | 19.70 | 0.40 | | 4230 | 0.18 | 32.90 | 0.39 | | 7250 | 0.31 | 43.30 |
| | | | 960 | 0.26 | | 1650 | 0.048 | 17.0 | 0.26 | | 3200 | 0.09 | 19.70 | 0.26 | | 4230 | 0.12 | 32.90 | 0.26 | | 7250 | 0.21 | 43.30 |
| | | | 720 | 0.20 | | 1650 | 0.036 | 17.0 | 0.20 | | 3200 | 0.070 | 19.70 | 0.20 | | 4230 | 0.092 | 32.90 | 0.20 | | 7250 | 0.16 | 43.30 |
| | | | 2900 | 0.70 | 4161 | 1650 | 0.13 | 17.0 | 0.73 | 3961 | 3200 | 0.26 | 19.70 | 0.77 | 3777 | 4230 | 0.36 | 32.90 | 0.68 | 4235 | 7250 | 0.55 | 43.30 |
| 4 | 0 | C | 1450 | 0.35 | | 1650 | 0.06 | 17.0 | 0.37 | | 3200 | 0.13 | 19.70 | 0.38 | | 4230 | 0.18 | 32.90 | 0.34 | | 7250 | 0.27 | 43.30 |
| | | | 960 | 0.23 | | 1650 | 0.042 | 17.0 | 0.24 | | 3200 | 0.09 | 19.70 | 0.25 | | 4230 | 0.12 | 32.90 | 0.23 | | 7250 | 0.18 | 43.30 |
| | | | 720 | 0.17 | | 1650 | 0.031 | 17.0 | 0.18 | | 3200 | 0.064 | 19.70 | 0.19 | | 4230 | 0.089 | 32.90 | 0.17 | | 7250 | 0.14 | 43.30 |
| | | | 2900 | 0.62 | 4679 | 1290 | 0.09 | 17.0 | 0.66 | 4415 | 3200 | 0.23 | 19.70 | 0.69 | 4210 | 4230 | 0.32 | 32.90 | 0.64 | 4550 | 7050 | 0.50 | 43.30 |
| 4 | 5 | C | 1450 | 0.31 | | 1290 | 0.044 | 17.0 | 0.33 | | 3200 | 0.12 | 19.70 | 0.34 | | 4230 | 0.16 | 32.90 | 0.32 | | 7050 | 0.25 | 43.30 |
| | | | 960 | 0.21 | | 1290 | 0.029 | 17.0 | 0.22 | | 3200 | 0.08 | 19.70 | 0.23 | | 4230 | 0.11 | 32.90 | 0.21 | | 7050 | 0.16 | 43.30 |
| | | | 720 | 0.15 | | 1290 | 0.022 | 17.0 | 0.16 | | 3200 | 0.058 | 19.70 | 0.17 | | 4230 | 0.080 | 32.90 | 0.16 | | 7050 | 0.12 | 43.30 |
| | | | 2900 | 0.55 | 5319 | 1100 | 0.07 | 17.0 | 0.59 | 4952 | 3200 | 0.21 | 19.70 | 0.61 | 4722 | 4230 | 0.29 | 32.90 | 0.62 | 4706 | 7250 | 0.49 | 43.30 |
| 5 | 0 | C | 1450 | 0.27 | | 1100 | 0.033 | 17.0 | 0.29 | | 3200 | 0.10 | 19.70 | 0.31 | | 4230 | 0.14 | 32.90 | 0.31 | | 7250 | 0.25 | 43.30 |
| | | | 960 | 0.18 | | 1100 | 0.022 | 17.0 | 0.19 | | 3200 | 0.068 | 19.70 | 0.20 | | 4230 | 0.095 | 32.90 | 0.20 | | 7250 | 0.16 | 43.30 |
| | | | 720 | 0.14 | | 1100 | 0.016 | 17.0 | 0.15 | | 3200 | 0.051 | 19.70 | 0.15 | | 4230 | 0.071 | 32.90 | 0.15 | | 7250 | 0.12 | 43.30 |
| | | | 2900 | | | | | | 0.51 | 5702 | 2940 | 0.16 | 19.70 | 0.55 | 5310 | 4220 | 0.25 | 32.90 | 0.57 | 5056 | 7050 | 0.45 | 43.30 |
| 5 | 6 | C | 1450 | | | | | | 0.25 | | 2940 | 0.08 | 19.70 | 0.27 | | 4220 | 0.13 | 32.90 | 0.29 | | 7050 | 0.22 | 43.30 |
| | | | 960 | | | | | | 0.17 | | 2940 | 0.055 | 19.70 | 0.18 | | 4220 | 0.084 | 32.90 | 0.19 | | 7050 | 0.15 | 43.30 |
| | | | 720 | | | | | | 0.13 | | 2940 | 0.041 | 19.70 | 0.14 | | 4220 | 0.063 | 32.90 | 0.14 | | 7050 | 0.11 | 43.30 |

SERIES F

DIMENSIONS REDUCER



SERIES F
DIMENSIONS
REDUCER QUAD



| UNIT SIZE | a9 | a10 | C4 | f4 | h1 | K1 | O7 | P3 | S4 | V1 | V2 | V3 |
|-----------|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| F0342 | 158 | 32 | 16 | 5 | 121 | 438 | 171 | 273 | 15 | 76 | 76 | 74 |
| F0442 | 170 | 32 | 16 | 5 | 121 | 438 | 171 | 273 | 15 | 76 | 76 | 74 |
| F0542 | 198 | 41 | 16 | 5 | 144 | 490 | 206 | 318 | 15 | 80 | 91 | 90 |
| F0642 | 218 | 41 | 16 | 6 | 165 | 501 | 231 | 365 | 15 | 101 | 91 | 90 |
| F0742 | 278 | 50 | 20 | 7 | 200 | 536 | 282 | 442 | 24 | 127 | 91 | 90 |
| F0842 | 346 | 62 | 26 | 3 | 243 | 614 | 346 | 536 | 24 | 156 | 115 | 93 |
| F0941 | 395 | 70 | 30 | 5 | 274 | 663 | 400 | 612 | 27 | 175 | 115 | 93 |
| F1041 | 485 | 88 | 36 | 5.5 | 332 | 750 | 470 | 748 | 27 | 216 | 140 | 155 |

| UNIT SIZE | Input Shaft | | | | | | | Hollow Output Bore | | | | | |
|-----------|-------------|----|-----|-----|------|----|-------|--------------------|-------|-----|-----|------|----|
| | d1 | L1 | L13 | L14 | t1 | u1 | w1 | D | m1 | m2 | m3 | T | U |
| F0342 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5X12 | 30 | 156.5 | 122 | 105 | 33.5 | 8 |
| F0442 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5X12 | 35 | 156.5 | 132 | 122 | 38.5 | 10 |
| F0542 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5X12 | 40 | 179 | 174 | 142 | 43.5 | 12 |
| F0642 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5X12 | 40 | 205 | 174 | 156 | 43.5 | 12 |
| F0742 | 16 k6 | 40 | 4 | 32 | 18 | 5 | M5X12 | 50 | 233.5 | 198 | 183 | 54 | 14 |
| F0842 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6X16 | 60 | 270 | 230 | 210 | 64.6 | 18 |
| F0941 | 19 k6 | 40 | 4 | 32 | 21.5 | 6 | M6X16 | 70 | 330 | 270 | - | 75 | 20 |
| F1041 | 24 k6 | 50 | 5 | 40 | 27 | 8 | M8X19 | 80 | 370 | 313 | - | 85.5 | 22 |

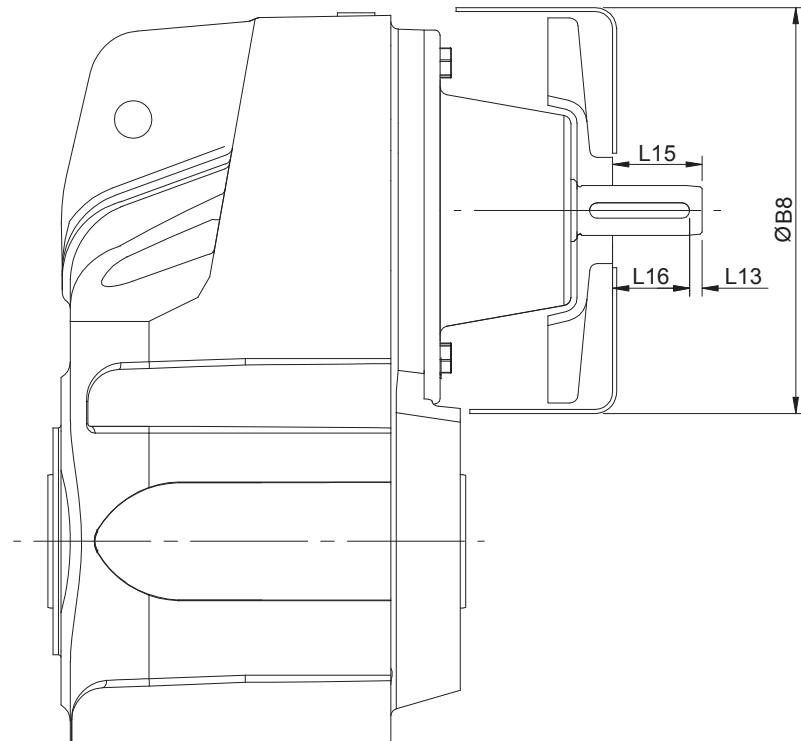
FAN COOLED UNITS

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

| UNIT SIZE | ØB8 | L13 | L15 | L16 |
|-----------|-----|-----|-----|-----|
| F0722 | 225 | 5 | 35 | 30 |
| F0822 | 265 | 5 | 45 | 40 |
| F0921 | 320 | 5 | 65 | 60 |
| F1021 | 380 | 10 | 95 | 85 |

SERIES F

REDUCER BACKSTOP MODULE

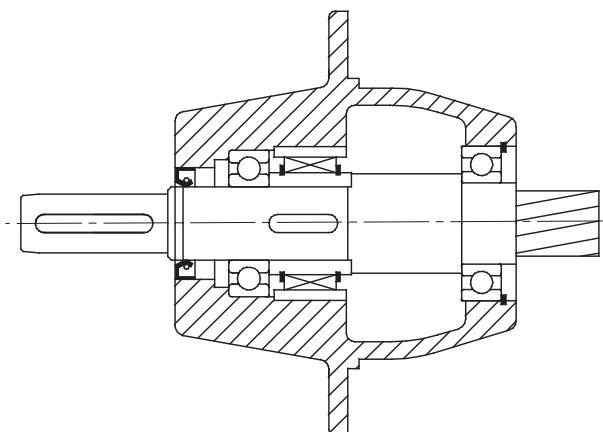
The reducer units listed below can be fitted with an internal backstop, this has no effect of the external unit size. The backstop device incorporates high quality centrifugal lift off sprags which are wear free above the lift off speed (n min). To ensure correct operation input speed must exceed lift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

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

Column 10 Entry

For reducer backstop modules enter

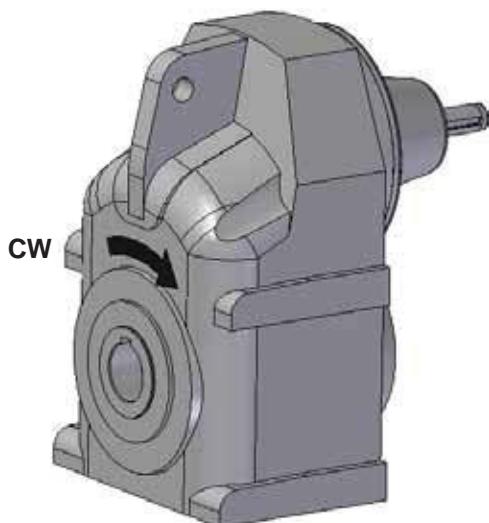
| | | | |
|----------------------------|------------------|---------------------------------|--|
| <input type="checkbox"/> W | for CCW rotation | (or <input type="checkbox"/> Z) | if used in conjunction with a fan kit) |
| <input type="checkbox"/> X | for CW rotation | (or <input type="checkbox"/> Y) | 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) |
|-----------|--|---|
| F05 | 800 | 100 |
| F06 | 800 | 100 |
| F07 | 670 | 170 |
| F08 | 670 | 170 |
| F09 | 670 | 300 |
| F10 | 670 | 300 |

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 |



Advantages with Kibo taper bushes

- Simple design
- Easy to mount
- Easy to dismount, built in puller
- Tapered bushes assure a safe mounting
- Reduces risk for shearing of key
- Bushings for different bore dimensions are available

The Kibo bush kit comprises of: bushes, locking nuts, end plate, fastening bolt, shaft key and protective cover.

Mounting

For correct mounting of speed reducer it is important that both bushings get the same squeezing force.

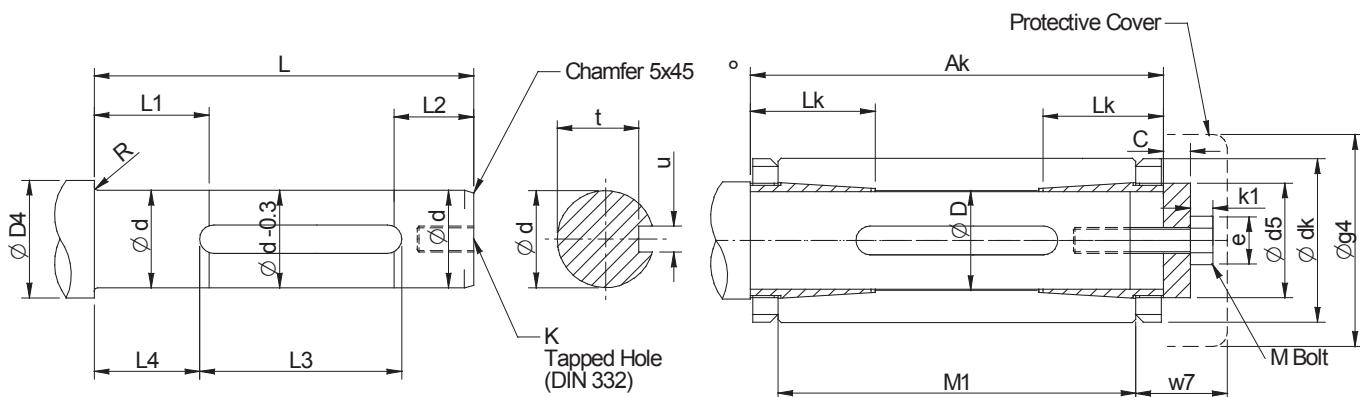
1. Mount the inner bushing with the nut in its outer position. The bushing should be mounted against the shoulder or circlip. The shoulder should not exceed inside diameter of nut.
2. Fit the key in the keyway.
3. Mount the reducer on the machine-shaft and press it against the inner bushing
4. Mount the outer bushing with the nut in its inner position. Check that the bushing is not squeezed but the nut is in contact with the shaft sleeve.
5. Mount the end plate with its fixing bolt. Tighten the bolt with correct torque. The inner bushing is now locked.
6. Loosen the bolt, so the outer bushing is loose. Turn the nut on the bushing, in its outer position.
7. Tighten the bolt once again with correct torque. The outer bushing is now locked.
The thicker end plate may be changed to the thinner one in order to gain more space at the hollow shaft end. The thinner end plate should be tightened with a torque of 25% of the value given in the table below.
8. Screw the nuts against the hollow shaft by hand, mounting is completed.
9. Fit protective cover.

Dismounting

- Loosen the bolt and take away the end plate.
- Pull out the outer bushing with the nut, by turning the nut with an adequate tool. Take out the bushing.
- Press the reducer from the inner bushing with the nut, dismounting is completed.

NOTE:

If reducer is mounted in a corrosive environment, ensure machine shaft bushings and nuts are oiled or greased.
Do NOT use grease based on molybdenum disulfide.



SERIES F

KIBO BUSHES

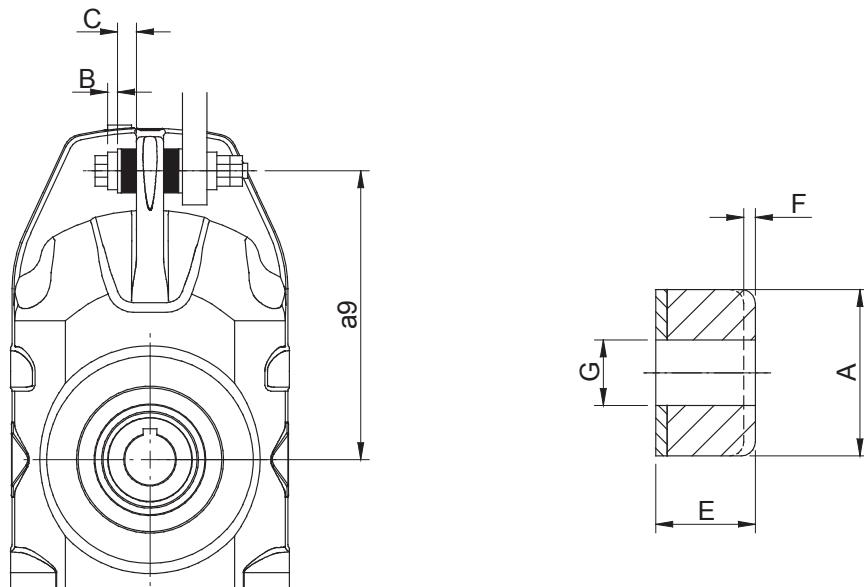
| Unit Size | Customers Shaft | | | | | | | | | | | |
|-----------|-----------------|-----|-----|---------------|-----|----|----|-----|------|------------|------|-----------|
| | φd (h8) | φD4 | | K Din(332) | L | L1 | L2 | L3 | L4 | R (max) | t | u (N9) |
| | | min | max | | | | | | | | | |
| F04 | 35 | 40 | 42 | M12x28 | 175 | 40 | 36 | 60 | 60 | 1.2 | 30 | 10 |
| | 30 | 35 | | M10x22 | | | | | | | 26 | 8 |
| | 25 | 30 | | | | | | | | | 21 | 8 |
| F05 | 40 | 45 | 51 | M16x36 | 198 | 50 | 42 | 77 | 65 | 1.2 | 35 | 12 |
| | 35 | 40 | | M12x28 | | | | | | | 30 | 10 |
| | 30 | 35 | | M10x22 | | | | | | | 26 | 8 |
| F06 | 40 | 45 | 51 | M16x36 | 225 | 50 | 45 | 77 | 78 | 1.2 | 35 | 12 |
| | 35 | 40 | | M12x28 | | | | | | | 30 | 10 |
| | 30 | 35 | | M10x22 | | | | | | | 26 | 8 |
| F07 | 50 | 55 | 61 | M16x36 | 258 | 58 | 52 | 79 | 93 | 1.2 | 44.5 | 14 |
| | 45 | 50 | | M12x28 | | | | | | | 39.5 | 14 |
| | 40 | 45 | | M10x22 | | | | | | | 35 | 12 |
| F08 | 60 | 66 | 71 | M20x42 | 293 | 61 | 52 | 108 | 97.5 | 1.6 | 53 | 18 |
| | 55 | 61 | | M16x36 | | | | | | | 49 | 16 |
| | 50 | 56 | | | | | | | | | 44.5 | 14 |
| F09 | 70 | 76 | 81 | M20x42 | 340 | 70 | 50 | 131 | 75 | 1.6 | 62.5 | 20 |
| | 65 | 71 | | | | | | | | | 58 | 18 |
| | 60 | 66 | | | | | | | | | 53 | 18 |
| F10 | 80 | 88 | 96 | M20x42 | 390 | 70 | 60 | 141 | 115 | 1.6 | 71 | 22 |
| | 75 | 83 | | | | | | | | | 67.5 | 20 |
| | 70 | 78 | | | | | | | | | 62.5 | 20 |
| F11 | 90 | 99 | 101 | M24x50 | 368 | 70 | 73 | 181 | 110 | 2 | 81 | 25 |
| | 85 | 94 | | | | | | | | | 76 | 22 |
| | 80 | 89 | | | | | | | | | 71 | 22 |
| F12 | 100 | 109 | 116 | M24x50 | 428 | 80 | 83 | 200 | 111 | 2.5 | 90 | 28 |
| | 95 | 104 | | | | | | | | | 86 | 25 |
| | 90 | 99 | | | | | | | | | 81 | 25 |

| Unit Size | Customers Shaft | | | | | | | End Plate | | | | | Cover | | |
|-----------|-----------------|---------------|-----------------|-----|-------|-------|------|-----------|----|-------------|----|----|----------------------|-----|----|
| | φD | KIBO Bush Kit | Column 11 entry | φdk | m1 | Ak | Lk | φd5 | C | Fixing Bolt | | | Tightening Torque Nm | φg4 | w7 |
| | | | | | | | | | | M | e | K1 | | | |
| F04 | 35 | C38214-S1 | 1 | 65 | 156.5 | 180 | 40 | 45 | 10 | M12 | 22 | 8 | 56 | 78 | 34 |
| | 30 | C38214-S3 | 2 | | | | | | | M10 | 20 | 7 | 40 | | |
| | 25 | C38214-S4 | 3 | | | | | | | | | | | | |
| F05 | 40 | C38364-S2 | 1 | 75 | 179 | 207 | 50 | 55 | 12 | M16 | 28 | 10 | 124 | 80 | 41 |
| | 35 | C38364-S3 | 2 | | | | | | | M12 | 22 | 8 | 70 | | |
| | 30 | C38364-S4 | 3 | | | | | | | M10 | 20 | 7 | 40 | | |
| F06 | 40 | C38364-S2 | 1 | 75 | 205 | 233 | 50 | 55 | 12 | M16 | 28 | 10 | 124 | 80 | 41 |
| | 35 | C38364-S3 | 2 | | | | | | | M12 | 22 | 8 | 70 | | |
| | 30 | C38364-S4 | 3 | | | | | | | M10 | 20 | 7 | 40 | | |
| F07 | 50 | C38464-S9 | 1 | 80 | 233.6 | 264.5 | 58 | 65 | 14 | M16 | 28 | 10 | 154 | 118 | 42 |
| | 45 | C38464-S10 | 2 | | | | | | | M12 | 22 | 8 | 70 | | |
| | 40 | C38464-S11 | 3 | | | | | | | M10 | 20 | 7 | 40 | | |
| F08 | 60 | C38614-S1 | 1 | 98 | 270 | 303 | 61 | 75 | 16 | M20 | 35 | 13 | 240 | 142 | 51 |
| | 55 | C38614-S2 | 2 | | | | | | | M16 | 28 | 10 | 169 | | |
| | 50 | C38614-S3 | 3 | | | | | | | | | | | | |
| F09 | 70 | C38684-S1 | 1 | 110 | 330 | 369 | 67.5 | 85 | 20 | M20 | 35 | 13 | 290 | 154 | 65 |
| | 65 | C38684-S2 | 2 | | | | | | | M20 | 35 | 13 | 290 | | |
| | 60 | C38684-S3 | 3 | | | | | | | | | | | | |
| F10 | 80 | B93404-S1 | 1 | 125 | 370 | 410 | 52 | 95 | 22 | M20 | 35 | 13 | 274 | 154 | 65 |
| | 75 | B93404-S2 | 2 | | | | | | | M20 | 35 | 13 | 274 | | |
| | 70 | B93404-S3 | 3 | | | | | | | | | | | | |
| F11 | 90 | B91884-S1 | 1 | 140 | | 390 | 57 | 105 | 26 | M24 | 42 | 15 | 290 | | |
| | 85 | B91884-S2 | 2 | | | | | | | M24 | 42 | 15 | 290 | | |
| | 80 | B91884-S3 | 3 | | | | | | | | | | | | |
| F12 | 100 | C38834-S1 | 1 | 155 | | 450 | 83 | 130 | 7 | M24 | 42 | 15 | 451 | | |
| | 95 | C38834-S2 | 2 | | | | | | | M24 | 42 | 15 | 451 | | |
| | 90 | C38834-S3 | 3 | | | | | | | | | | | | |

SERIES F

TORQUE BUSH

RUBBER BUFFERS FOR TORQUE ARM



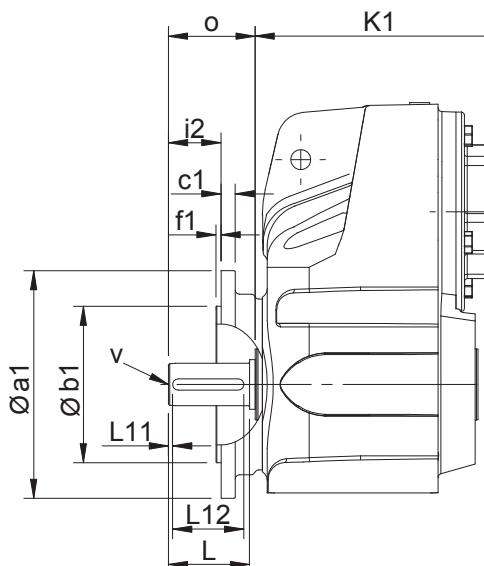
| UNIT SIZE | A | B (min thickness) | C | a9 | E | F | G |
|-----------|-----|----------------------|------|-----|----|-----|----|
| F02 | 40 | 2 | 18.5 | 140 | 20 | 1.5 | 13 |
| F03 | 40 | 2 | 18 | 158 | 20 | 2 | 13 |
| F04 | 40 | 2 | 18 | 170 | 20 | 2 | 13 |
| F05 | 40 | 2 | 18 | 198 | 20 | 2 | 13 |
| F06 | 40 | 2 | 18 | 218 | 20 | 2 | 13 |
| F07 | 62 | 10 | 30 | 278 | 33 | 3 | 23 |
| F08 | 62 | 10 | 29 | 346 | 33 | 4 | 23 |
| F09 | 82 | 12 | 40 | 395 | 44 | 4 | 26 |
| F10 | 82 | 12 | 38 | 485 | 44 | 5 | 26 |
| F11 | 82 | 12 | 38 | 485 | 44 | 6 | 26 |
| F12 | 102 | 12 | 48 | 550 | 54 | 6 | 33 |

SERIES F

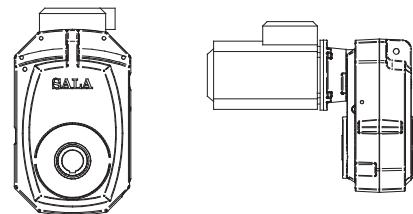
DIMENSIONS D (B5) FLANGE

Column 9 Entry

F B5 (D) Output Flange



F11 & F12



Please Note: The appearance of the F11 & F12 units is different to the other units.

See pictures above.

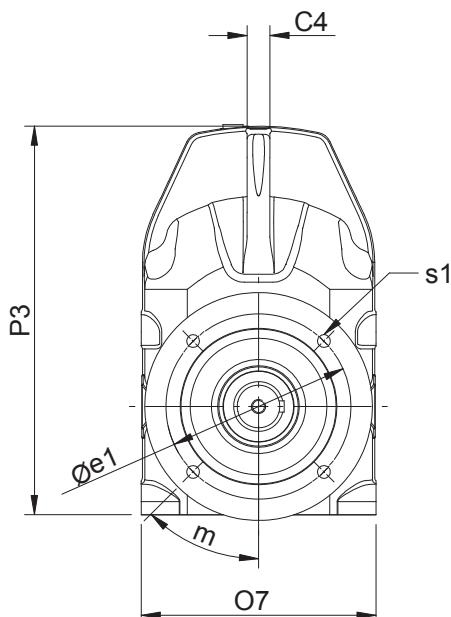
Column 11 Entry

C with Metric Shaft

H without Shaft



Output Shaft



See Motorised or Reducer Dimension Pages

| UNIT SIZE | a1 | b1 | c1 | C4 | e1 | f1 | K1 | m | o | O7 | P3 | s1 | Output Shaft | | | | | | | |
|------------|-----|-----------|----|----|-----|-----|--|------|-----|-----|-----|--------|--------------|-----|-----|-----|-----|------|----|--------|
| | | | | | | | | | | | | | d | i2 | L | L11 | L12 | t | u | v |
| F02 | 160 | 110 j6 | 10 | 15 | 130 | 3.5 | See Motorised or Reducer Dimension Pages | 45 | - | 150 | 224 | 4 x 9 | - | - | - | - | - | - | - | - |
| F03 | 160 | 110 j6 | 10 | 16 | 130 | 3.5 | | 45 | 50 | 171 | 273 | 4 x 9 | 25 | 26 | 47 | 3 | 40 | 28 | 8 | M10x22 |
| F04 | 160 | 110 j6 | 10 | 16 | 130 | 3.5 | | 45 | 60 | 171 | 273 | 4 x 9 | 30 | 36 | 56 | 3 | 50 | 33 | 8 | M12x28 |
| F05 | 250 | 180 j6 | 16 | 16 | 215 | 4 | | 45 | 70 | 206 | 318 | 4 x 14 | 35 | 44 | 66 | 3 | 60 | 38 | 10 | M16x36 |
| F06 | 250 | 180 j6 | 18 | 16 | 215 | 4 | | 45 | 81 | 231 | 365 | 4 x 14 | 40 | 40 | 76 | 3 | 70 | 43 | 12 | M16x36 |
| F07 | 300 | 230 j6 | 18 | 20 | 265 | 4 | | 45 | 101 | 282 | 442 | 4 x 14 | 50 | 61 | 95 | 3 | 80 | 53.5 | 14 | M16x36 |
| F08 | 350 | 250 h6 | 18 | 26 | 300 | 5 | | 45 | 120 | 346 | 536 | 4 x 18 | 60 | 73 | 114 | 3 | 100 | 64 | 18 | M20x42 |
| F09 | 450 | 350 h6 | 20 | 30 | 400 | 5 | | 22.5 | 141 | 400 | 612 | 8 x 18 | 70 | 90 | 135 | 3 | 110 | 74.5 | 20 | M20x42 |
| F10 | 450 | 350 h6 | 22 | 36 | 400 | 5 | | 22.5 | 172 | 470 | 748 | 8 x 18 | 90 | 112 | 172 | 5 | 140 | 95 | 25 | M20x42 |
| F11 | 552 | 450 h6 | 20 | 40 | 500 | 5 | | 22.5 | 137 | 498 | 784 | 8 x 18 | 90 | 170 | 141 | 14 | 141 | 95 | 25 | M24x50 |
| F12 | 650 | 550 h6 | 25 | 50 | 600 | 5 | | 22.5 | 151 | 550 | 877 | 8 x 22 | 110 | 210 | 160 | 25 | 160 | 116 | 28 | M24x50 |

SERIES F

DIMENSIONS

C (B14) FLANGE

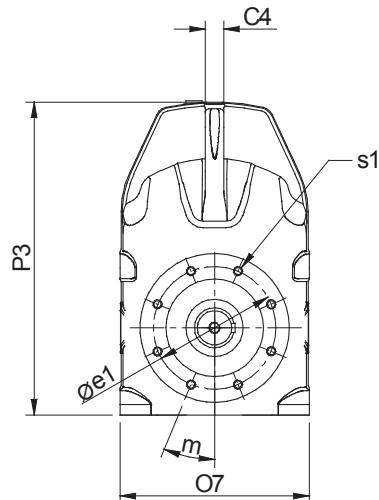
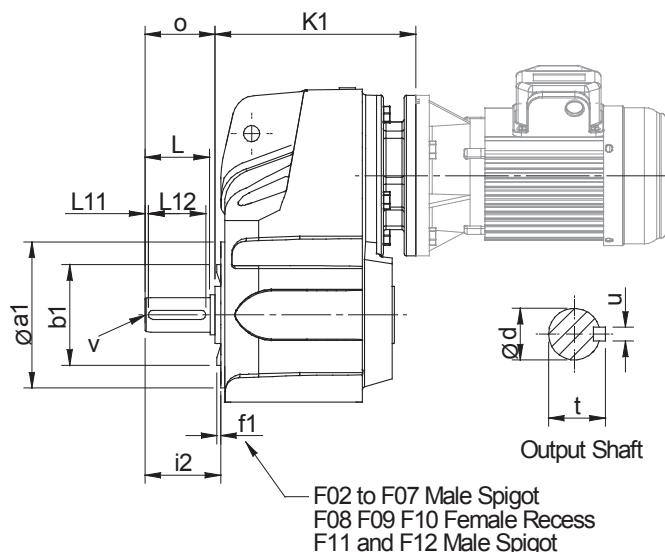
Column 9 Entry

T or W B14 (C) Flange (see page 2 for further details)

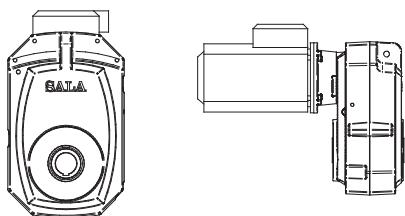
Column 11 Entry

C with Metric Shaft

H without Shaft



F11 & F12



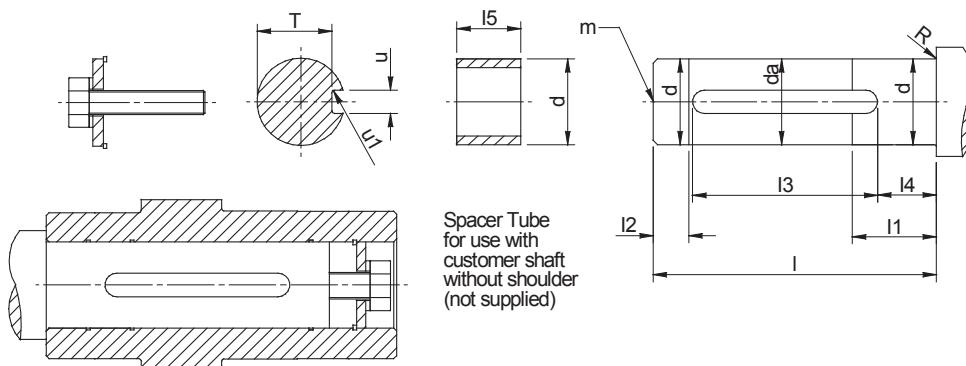
Please Note: The appearance of the F11 & F12 units is different to the other units.
See pictures above.

| UNIT SIZE | a1 | b1 | C4 | e1 | f1 Male | F1 Female | K1 | m | o | O7 | P3 | s1 | Output Shaft | | | | | | | |
|-----------|-----|-----------|----|-----|------------|--------------|--|------|-----|-----|-----|-------------|--------------|-------|-----|-----|-----|------|----|--------|
| | | | | | | | | | | | | | d | i2 | L | L11 | L12 | t | u | v |
| F02 | 117 | 85 j6 | 15 | 107 | 3 | - | See Motorised or Reducer Dimension Pages | 67.5 | - | 150 | 224 | 4 - M8x12 | - | - | - | - | - | - | - | - |
| F03 | 122 | 85 j6 | 16 | 107 | 3 | - | | 22.5 | 50 | 171 | 273 | 4 - M8x12 | 25 | 55 | 47 | 3 | 40 | 28 | 8 | M10x22 |
| F04 | 122 | 85 j6 | 16 | 107 | 3 | - | | 22.5 | 60 | 171 | 273 | 4 - M8x12 | 30 | 65 | 56 | 3 | 50 | 33 | 8 | M12x28 |
| F05 | 145 | 105 j6 | 16 | 125 | 3 | - | | 30 | 70 | 206 | 318 | 6 - M10x17 | 35 | 75 | 66 | 3 | 60 | 38 | 10 | M16x36 |
| F06 | 181 | 130 j6 | 16 | 150 | 4 | - | | 0 | 81 | 231 | 365 | 8 - M10x20 | 40 | 87 | 76 | 3 | 70 | 43 | 12 | M16x36 |
| F07 | 181 | 130 j6 | 20 | 150 | 4 | - | | 0 | 101 | 282 | 442 | 8 - M10x20 | 50 | 108 | 95 | 3 | 80 | 53.5 | 14 | M16x36 |
| F08 | 227 | 150 H7 | 26 | 195 | - | -5 | | 22.5 | 120 | 346 | 536 | 8 - M12x20 | 60 | 123 | 114 | 3 | 100 | 64 | 18 | M20x42 |
| F09 | 280 | 180 H7 | 30 | 230 | - | -6 | | 0 | 141 | 400 | 612 | 6 - M16x27 | 70 | 146 | 135 | 3 | 110 | 74.5 | 20 | M20x42 |
| F10 | 310 | 210 H7 | 36 | 280 | - | -7 | | 0 | 172 | 470 | 748 | 10 - M16x27 | 90 | 177.5 | 172 | 5 | 140 | 95 | 25 | M20x42 |
| F11 | 320 | 230 J7 | 40 | 265 | 5 | - | | 0 | 208 | 498 | 784 | 8 - M20x35 | 90 | 498 | 170 | 14 | 141 | 95 | 25 | M24 |
| F12 | 350 | 250 J7 | 50 | 300 | 5 | - | | 22.5 | 253 | 550 | 877 | 8 - M20x35 | 110 | 550 | 210 | 25 | 160 | 116 | 28 | M24 |

SERIES F

DIMENSIONS STANDARD BORE ASSEMBLY

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



| Size | d | da | I | I1 | I2 | I3 | I4 | I5 | m | N | R | T | u | u1 |
|------|-----------------|------|-----|-----|-----|-----|----|----|--------------------|--------|------|-----------|-----------------|------------|
| F02 | 24.993 / 24.980 | 24.6 | 82 | 40 | 13 | 70 | 3 | 23 | M10 x 1.5 22 deep | 15 Nm | 0.8R | 21 20.8 | 8.000 / 7.964 | 0.16 0.25R |
| F03 | 29.993 / 29.980 | 29.6 | 82 | 45 | 15 | 70 | 3 | 23 | M10 x 1.5 22 deep | 15 Nm | 0.8R | 26 25.8 | 8.000 / 7.964 | 0.16 0.25R |
| F04 | 34.991 / 34.975 | 34.6 | 109 | 60 | 20 | 90 | 3 | 23 | M12 x 1.75 30 deep | 20 Nm | 0.8R | 30 29.8 | 10.000 / 9.964 | 0.16 0.25R |
| F05 | 39.991 / 39.975 | 39.6 | 112 | 60 | 20 | 92 | 3 | 30 | M16 x 2 38 deep | 45 Nm | 0.8R | 35 34.8 | 12.000 / 11.957 | 0.4 0.25R |
| F06 | 39.991 / 39.975 | 39.6 | 126 | 75 | 25 | 100 | 3 | 30 | M16 x 2 38 deep | 45 Nm | 0.8R | 35 34.8 | 12.000 / 11.957 | 0.4 0.25R |
| F07 | 49.991 / 49.975 | 49.6 | 153 | 90 | 30 | 130 | 3 | 30 | M16 x 2 38 deep | 45 Nm | 0.8R | 44.5 44.3 | 14.000 / 13.957 | 0.4 0.25R |
| F08 | 59.990 / 59.971 | 59.6 | 173 | 90 | 30 | 148 | 3 | 37 | M20 x 2.5 42 deep | 85 Nm | 0.8R | 53 52.8 | 18.000 / 17.957 | 0.4 0.25R |
| F09 | 69.990 / 69.971 | 69.6 | 232 | 105 | 35 | 161 | 3 | 38 | M20 x 2.5P 42 deep | 85 Nm | 0.8R | 62.5 62.3 | 20.000 / 19.948 | 0.6 0.4R |
| F10 | 79.990 / 79.971 | 79.6 | 275 | 120 | 40 | 188 | 5 | 37 | M20 x 2.5P 42 deep | 85 Nm | 0.8R | 71 70.8 | 22.000 / 21.948 | 0.6 0.4R |
| F11 | 89.988 / 89.966 | 99.6 | 327 | 150 | 277 | 206 | 10 | - | M24 x 3 50 deep | 200 Nm | 0.8R | 90 89.8 | 28.000/ 27.948 | 0.6 0.4R |
| F12 | 99.988 / 99.966 | 99.6 | 327 | 150 | 277 | 228 | 10 | - | M24 x 3 50 deep | 200 Nm | 0.8R | 90 89.8 | 28.000/ 27.948 | 0.6 0.4R |

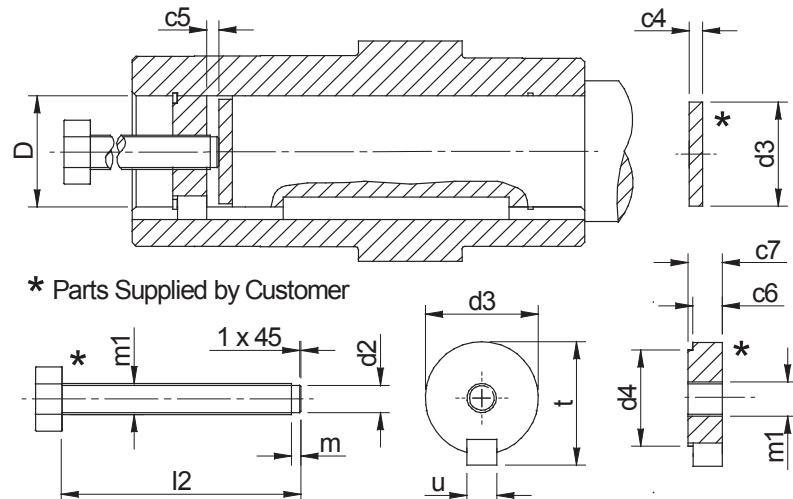
Assembly Instructions

1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent anti-scuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve. (except F11 & F12 units)
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve. (except F11 & F12 units)
5. Secure in place with the washer and bolt. Torque tighten to the values stated in column N of the above table.
6. Fit protective cover.

SERIES F

DIMENSIONS STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



| Size | c4 | c5 | c6 | c7 | D | d2 | d3 | d4 | l2 | m | m1 | t | u |
|------|----|----|----|----|----|----|------|------|-----|---|------------|------|----|
| F02 | 5 | 3 | 15 | 17 | 25 | 10 | 24.9 | 16 | 120 | 3 | M12 x 1.75 | 28 | 8 |
| F03 | 5 | 3 | 15 | 17 | 30 | 13 | 29.9 | 20.8 | 130 | 3 | M16 x 2 | 33 | 8 |
| F04 | 5 | 3 | 15 | 17 | 35 | 13 | 34.9 | 25.2 | 160 | 3 | M16 x 2 | 38 | 10 |
| F05 | 5 | 4 | 20 | 23 | 40 | 20 | 39.9 | 29.9 | 190 | 3 | M24 x 3 | 43 | 12 |
| F06 | 5 | 4 | 20 | 23 | 40 | 20 | 39.9 | 29.9 | 190 | 3 | M24 x 3 | 43 | 12 |
| F07 | 5 | 4 | 20 | 23 | 50 | 20 | 49.9 | 39 | 220 | 3 | M24 x 3 | 53.5 | 14 |
| F08 | 8 | 5 | 24 | 27 | 60 | 26 | 59.9 | 47.4 | 250 | 5 | M30 x 3.5 | 64 | 18 |
| F09 | 8 | 6 | 24 | 27 | 70 | 26 | 69.9 | 56.4 | 310 | 5 | M30 x 3.5 | 74.5 | 20 |
| F10 | 8 | 6 | 24 | 27 | 80 | 26 | 79.9 | 65.5 | 360 | 5 | M30 x 3.5 | 95 | 22 |
| F11 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| F12 | - | - | - | - | - | - | - | - | - | - | - | - | - |

SHIPPING SPECIFICATION

| UNIT SIZE & No OF REDUCTIONS | | | F0222 | F0232 | F0322 | F0332 | F0342 | F0422 | F0432 | F0442 | F0522 | F0532 | F0542 |
|------------------------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| REDUCER VERSION | | | 13 | 14 | 20 | 21 | 30 | 21 | 22 | 31 | 31 | 31 | 44 |
| OUTPUT SHAFT | | | N/A | N/A | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 |
| OUTPUT FLANGE | | | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 4.2 | 4.2 | 4.2 |
| MOTORISED | 63 | Without Motor | 12 | 13 | 19 | 20 | 29 | 19 | 20 | 29 | 27 | 28 | 40 |
| | | With Motor | 17 | 18 | 24 | 25 | 34 | 24 | 25 | 34 | 32 | 33 | 45 |
| | 71 | Without Motor | 11 | 12 | 19 | 20 | 29 | 19 | 20 | 29 | 27 | 28 | 39 |
| | | With Motor | 18 | 19 | 26 | 27 | 36 | 26 | 27 | 36 | 34 | 35 | 46 |
| | 80A | Without Motor | 12 | 13 | 19 | 20 | 29 | 19 | 20 | 29 | 27 | 28 | 39 |
| | | With Motor | 22 | 23 | 29 | 30 | 39 | 29 | 30 | 39 | 37 | 38 | 49 |
| | 80B | Without Motor | 12 | 13 | 19 | 20 | 29 | 19 | 20 | 29 | 27 | 28 | 39 |
| | | With Motor | 23 | 24 | 30 | 31 | 40 | 30 | 31 | 40 | 38 | 39 | 50 |
| | 90S | Without Motor | 12 | 13 | 20 | 21 | 30 | 20 | 21 | 30 | 28 | 29 | 40 |
| | | With Motor | 26 | 27 | 34 | 35 | 44 | 34 | 35 | 44 | 42 | 43 | 54 |
| | 90L | Without Motor | 12 | 13 | 20 | 21 | 30 | 20 | 21 | 30 | 28 | 29 | 40 |
| | | With Motor | 28 | 29 | 36 | 37 | 46 | 36 | 37 | 46 | 44 | 45 | 56 |
| | 100L | Without Motor | | | 23 | | | 23 | | | 31 | | |
| | | With Motor | | | 48 | | | 48 | | | 56 | | |
| | 112M | Without Motor | | | 23 | | | 23 | | | 31 | | |
| | | With Motor | | | 54 | | | 54 | | | 62 | | |
| | 132S | Without Motor | | | | | | | | | 32 | | |
| | | With Motor | | | | | | | | | 72 | | |
| | 132M | Without Motor | | | | | | | | | 32 | | |
| | | With Motor | | | | | | | | | 120 | | |
| | 160M | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 180M | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 200L | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 225S | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 250M | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 280S | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |
| | 280M | Without Motor | | | | | | | | | | | |
| | | With Motor | | | | | | | | | | | |

SHIPPING SPECIFICATION

| UNIT SIZE & NO OF REDUCTIONS | | | F0622 | F0632 | F0642 | F0722 | F0732 | F0742 | F0822 | F0832 | F0842 | F0921 | F0931 | F0941 |
|------------------------------|------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| REDUCER VERSION | | | 45 | 45 | 56 | 70 | 77 | 117 | 115 | 121 | 134 | 171 | 180 | 218 |
| OUTPUT SHAFT | | | 1.9 | 1.9 | 1.9 | 3.7 | 3.7 | 3.7 | 7 | 7 | 7 | 11 | 11 | 11 |
| OUTPUT FLANGE | | | 5.6 | 5.6 | 5.6 | 7.2 | 7.2 | 7.2 | 13 | 13 | 13 | 15 | 15 | 15 |
| MOTORISED | 63 | Without Motor | 42 | 43 | 54 | | | 74 | | | 133 | | | |
| | 63 | With Motor | 47 | 48 | 59 | | | 79 | | | 138 | | | |
| | 71 | Without Motor | 42 | 43 | 54 | | | 74 | | | 133 | | | |
| | 71 | With Motor | 49 | 50 | 61 | | | 81 | | | 140 | | | |
| | 80A | Without Motor | 42 | 43 | 54 | 63 | 68 | 74 | 114 | 116 | 133 | 174 | 184 | 218 |
| | 80A | With Motor | 52 | 53 | 64 | 73 | 78 | 84 | 124 | 126 | 143 | 184 | 194 | 228 |
| | 80B | Without Motor | 42 | 43 | 54 | 63 | 68 | 74 | 114 | 116 | 133 | 174 | 184 | 218 |
| | 80B | With Motor | 53 | 54 | 65 | 74 | 79 | 85 | 125 | 127 | 144 | 185 | 195 | 229 |
| | 90S | Without Motor | 42 | 43 | 55 | 64 | 69 | 75 | 114 | 116 | 134 | 174 | 184 | 218 |
| | 90S | With Motor | 56 | 57 | 69 | 78 | 83 | 89 | 128 | 130 | 148 | 188 | 198 | 232 |
| | 90L | Without Motor | 42 | 43 | 55 | 64 | 69 | 75 | 114 | 116 | 134 | 174 | 184 | 218 |
| | 90L | With Motor | 58 | 59 | 71 | 80 | 85 | 91 | 130 | 132 | 150 | 190 | 200 | 234 |
| | 100L | Without Motor | 45 | 43 | | 65 | 70 | | 116 | 118 | | 174 | 184 | 224 |
| | 100L | With Motor | 70 | 68 | | 90 | 95 | | 141 | 143 | | 199 | 209 | 249 |
| NON MOTORIZED | 112M | Without Motor | 45 | 46 | | 65 | 70 | | 116 | 118 | | 174 | 184 | 224 |
| | 112M | With Motor | 76 | 77 | | 96 | 101 | | 147 | 149 | | 205 | 211 | 255 |
| | 132S | Without Motor | 46 | | | 65 | 70 | | 119 | 121 | | 174 | | 225 |
| | 132S | With Motor | 86 | | | 105 | 110 | | 159 | 161 | | 214 | | 265 |
| | 132M | Without Motor | 46 | | | 65 | 70 | | 119 | 121 | | 174 | | 225 |
| | 132M | With Motor | 134 | | | 153 | 158 | | 207 | 209 | | 262 | | 313 |
| | 160M | Without Motor | | | | 65 | | | 119 | 121 | | 181 | | 229 |
| | 160M | With Motor | | | | 146 | | | 200 | 202 | | 262 | | 310 |
| | 160L | Without Motor | | | | 65 | | | 119 | 121 | | 181 | | 229 |
| | 160L | With Motor | | | | 168 | | | 222 | 224 | | 284 | | 332 |
| | 180L | Without Motor | | | | | | | | | | 181 | | |
| | 180L | With Motor | | | | | | | | | | 348 | | |
| | 200L | Without Motor | | | | | | | | | | 181 | | |
| | 200L | With Motor | | | | | | | | | | 362 | | |
| EXTRALARGE | 225S | Without Motor | | | | | | | | | | 195 | | |
| | 225S | With Motor | | | | | | | | | | 427 | | |
| | 225M | Without Motor | | | | | | | | | | 195 | | |
| | 225M | With Motor | | | | | | | | | | 482 | | |
| | 250M | Without Motor | | | | | | | | | | 195 | | |
| | 250M | With Motor | | | | | | | | | | 517 | | |
| | 280S | Without Motor | | | | | | | | | | | | |
| | 280S | With Motor | | | | | | | | | | | | |
| | 280M | Without Motor | | | | | | | | | | | | |
| | 280M | With Motor | | | | | | | | | | | | |

SHIPPING SPECIFICATION

| UNIT SIZE & No OF REDUCTIONS | | | F1021 | F1031 | F1041 | F1121 | F1131 | F1221 | F1231 |
|------------------------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|
| REDUCER VERSION | | | 261 | 270 | 332 | N/A | N/A | N/A | N/A |
| OUTPUT SHAFT | | | 18.5 | 18.5 | 18.5 | 25 | 25 | 40 | 40 |
| OUTPUT FLANGE | | | 26 | 26 | 26 | 20 | 20 | 30 | 30 |
| MOTORISED | 63 | Without Motor | | | | | | | |
| | | With Motor | | | | | | | |
| | 71 | Without Motor | | | | | | | |
| | | With Motor | | | | | | | |
| | 80A | Without Motor | | 273 | 325 | | | | |
| | | With Motor | | 283 | 335 | | | | |
| | 80B | Without Motor | | 273 | 325 | | | | |
| | | With Motor | | 284 | 336 | | | | |
| | 90S | Without Motor | | 273 | 326 | | | | |
| | | With Motor | | 287 | 340 | | | | |
| | 90L | Without Motor | | 273 | 326 | | | | |
| | | With Motor | | 289 | 342 | | | | |
| NON MOTORIZED | 100L | Without Motor | 254 | 273 | 328 | | 320 | | |
| | | With Motor | 279 | 298 | 353 | | 345 | | |
| | 112M | Without Motor | 254 | 273 | 328 | | 320 | | |
| | | With Motor | 285 | 304 | 359 | | 351 | | |
| | 132S | Without Motor | 254 | 273 | 332 | | 320 | | 506 |
| | | With Motor | 294 | 313 | 372 | | 360 | | 546 |
| | 132M | Without Motor | 254 | 273 | 332 | | 320 | | 506 |
| | | With Motor | 342 | 361 | 420 | | 408 | | 594 |
| | 160M | Without Motor | 263 | 280 | 333 | 345 | 332 | 500 | 495 |
| | | With Motor | 344 | 361 | 414 | 426 | 413 | 581 | 576 |
| GEARLESS | 160L | Without Motor | 263 | 280 | 333 | 645 | 332 | 500 | 495 |
| | | With Motor | 366 | 383 | 436 | 448 | 435 | 603 | 598 |
| | 180M | Without Motor | 263 | 280 | | 345 | 332 | 500 | 495 |
| | | With Motor | 430 | 447 | | 512 | 499 | 667 | 662 |
| | 180L | Without Motor | 263 | 280 | | 345 | 332 | 500 | 495 |
| | | With Motor | 444 | 461 | | 526 | 499 | 681 | 676 |
| | 200L | Without Motor | 263 | 281 | | 345 | | 500 | 506 |
| | | With Motor | 495 | 513 | | 577 | | 732 | 738 |
| | 225S | Without Motor | 277 | 295 | | 359 | | 514 | 509 |
| | | With Motor | 564 | 582 | | 646 | | 801 | 796 |
| GEARED | 225M | Without Motor | 277 | 295 | | 359 | | 514 | 509 |
| | | With Motor | 599 | 617 | | 681 | | 836 | 831 |
| | 250M | Without Motor | | | | 375 | | 530 | |
| | | With Motor | | | | 825 | | 980 | |
| | 280S | Without Motor | | | | | 530 | | |
| | | With Motor | | | | | 1090 | | |
| 280M | Without Motor | | | | | | 530 | | |
| | With Motor | | | | | | 1130 | | |

PRODUCT SAFETY

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.

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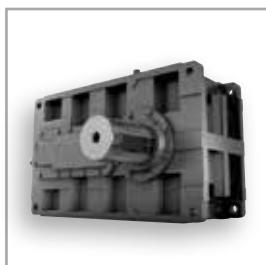
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