radicon

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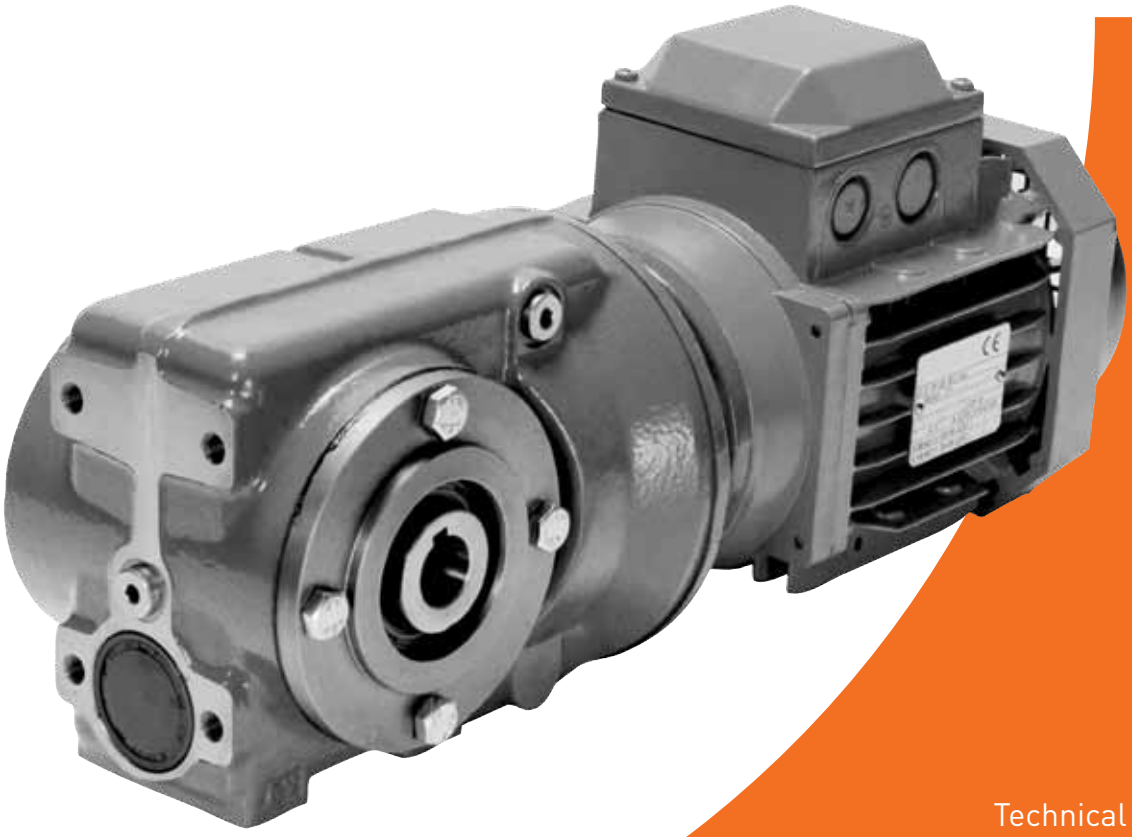
Series C Helical Worm

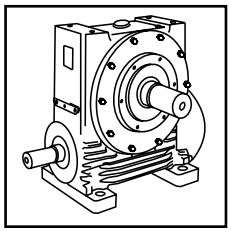


Technical
Up to - 45kW / 10,000 Nm

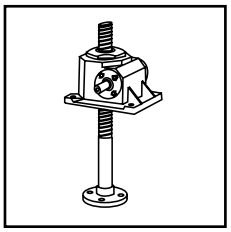
Geared Motors
CC-2.00GB1211

PRODUCTS IN THE RANGE

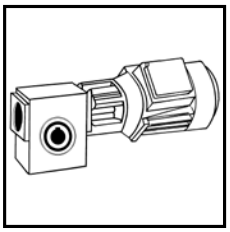
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



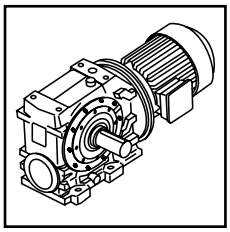
Series A
Worm Gear units and geared motors in single & double reduction types



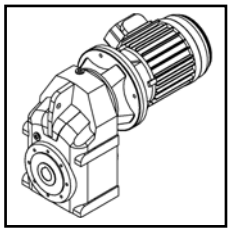
Series BD
Screwjack worm gear unit



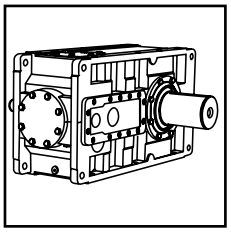
Series BS
Worm gear unit



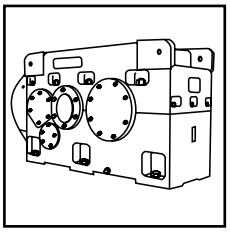
Series C
Right angle drive helical worm geared motors & reducers



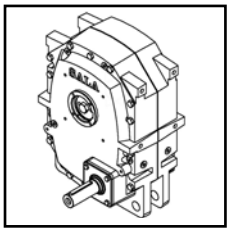
Series F
Parallel angle helical bevel helical geared motors & reducers



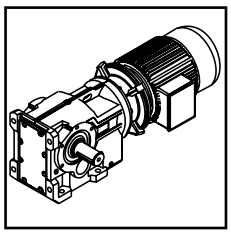
Series G
Helical parallel shaft & bevel helical right angle drive gear units



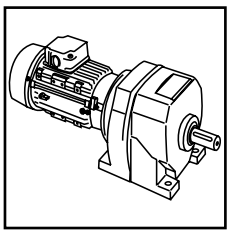
Series H
Large helical parallel shaft & bevel helical right angle drive units



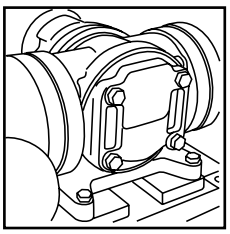
Series J
Shaft mounted helical speed reducers



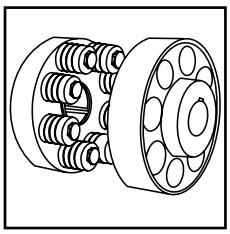
Series K
Right angle helical bevel helical geared motors & reducers



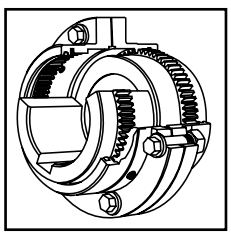
Series M
In-line helical geared motors & reducers



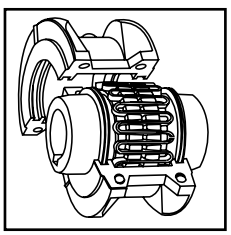
Roloid Gear Pump
Lubrication and fluid transportation pump



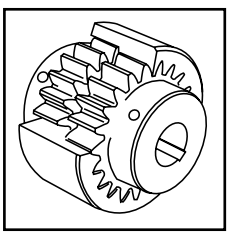
Series X
Cone Ring
Pin and bush elastomer coupling



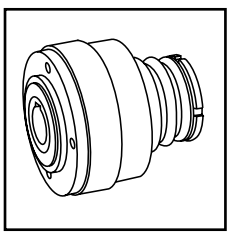
Series X
Gear
Torsionally rigid, high torque coupling



Series X
Grid
Double flexing steel grid coupling



Series X
Nylicon
Gear coupling with nylon sleeve



Series X
Torque Limiter
Overload protection device

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

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

ATEX
Compliance Assured

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

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

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

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

NOTES

SERIES C
CONTENTS

General Description 3

Unit Designations 4

Explanation and use of Ratings and Service Factors 5

Load Classification by Applications 6

Selection Procedure 7 - 8

Output Options 9 - 10

Motor Adaptors 11 - 13

Lubrication 14

Mounting Positions 15

Unit Handings 16

MOTORISED

Motor Performance Data and Standard Motor Variants Available 18

Motor Details 19

Additional Motor Features 20

Additional Gearbox Features 21

Selection Tables - Geared Motors 22 - 61

Dimension Sheets - Geared Motors 62 -67

Motorised Backstop Module 69

REDUCER

Overhung & Axial Loads on Shafts 71

Ratings - Input Power / Output Torque 72 - 92

Dimension Sheets - Speed Reducers 93 - 98

Dimension Sheet - Units fitted with Feet 99 - 100

Thermal Power Ratings / Dimensions of Unit with Fan 101 - 102

Reducer Backstop Module 103

OUTPUT OPTIONS

Dimensions of Outputshaft Options 104

Dimension Sheet - Torque Bracket 105

Dimensions of B5 (D) Flange units 106

Dimensions of B14 (C) Flange units 107

Agitator Units 108

Dimension Sheet - Assembly / Disassembly 109 - 110

Shipping Specification 111 - 112

Product Safety Data 113

Series C right angle helical worm geared motors and reducers provide a highly efficient and compact solution to meet most requirements up to 45 kW with maximum output torque capacity of 10,000Nm.

Following a long line of power transmission products, this product adds to the growing family of new drives which has taken advantage of our many years of accumulated design expertise, together with the use of high quality materials and components. The end result is a series of speed reducing and geared motors offering high load carrying capacity, increased efficiency, quiet running and reliability.

The Range Includes

Eight sizes of units with a ratio coverage of 8:1 to 250:1 in double reduction and 16000:1 in combined units.

Version W - Standard unit (C03 - C06 Only)
Version B - Standard unit with base mounted feet
Version E - Standard unit with end mounted feet
Version R - Standard unit with top mounted feet
Version V - Standard unit with Drywell and output flange for mounting positions 2 & 3 (sizes C07 - C10 only)
Version F/H - Standard unit with output flange
Version G - Standard unit with output flange reduced dia (size C03 only)
Version T/Q - Standard unit with Banjo torque arm
Version U - Standard unit Banjo torque arm Heavy Duty (C10 only)
Version A - Agitator (Sizes C07 - C10 only)

Unit Types:

Unit type M - Motorised with IEC standard motor
Unit type N - Motorised with NEMA standard motor
Unit type H - Motorised with high efficiency motor (IE2 or EPACT)
Unit type E - Motorised with NEMA high efficiency motor (EPACT)
Unit type G - Unit to allow fitting of customers IEC motor

Unit type A - Unit to allow fitting of customers NEMA motor

Unit type R - Reducer unit
Unit type S - Reducer unit with fan kit
Unit type W - Reducer unit with backstop CCW rotation
Unit type X - Reducer unit with backstop CW rotation
Unit type Y - Reducer unit with fan and backstop CW rotation
Unit type Z - Reducer unit with fan and backstop CCW rotation

Design Features Include

Patented standard motor connection (IEC or NEMA).

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

All units are dimensionally interchangeable with other major manufacturers.

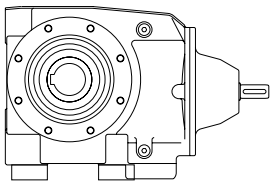
Brake geared motors are available as standard.

Sizes 03, 04, 05 and 06 are lubricated for life.

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

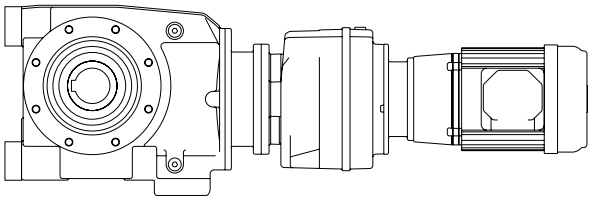
Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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



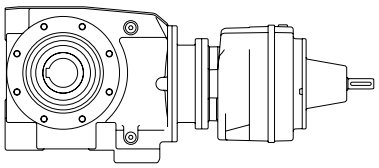
Two stage reduction unit with base mounted feet and hollow output shaft

* C 0 4 2 1 1 8 . B R H - 1 - - - - - - -



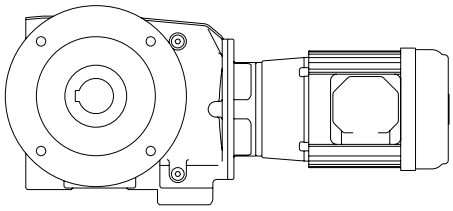
Four stage motorised unit with end mounted feet and hollow output shaft

* C 0 4 4 1 2 8 0 E M H - 1 A . 1 8 A - -



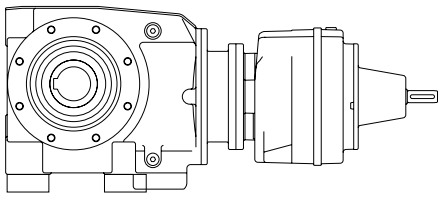
Four stage reduction unit with hollow output shaft

* C 0 5 4 1 2 8 0 W R H - 1 - - - - - - -



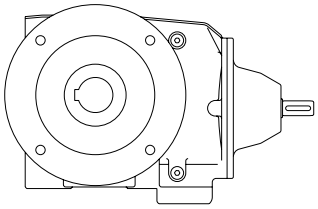
Two stage motorised unit with output flange and single extension output shaft

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



Four stage reduction unit with base mounted feet and hollow output shaft

* C 0 4 4 1 2 8 0 B R H - 1 - - - - - - -

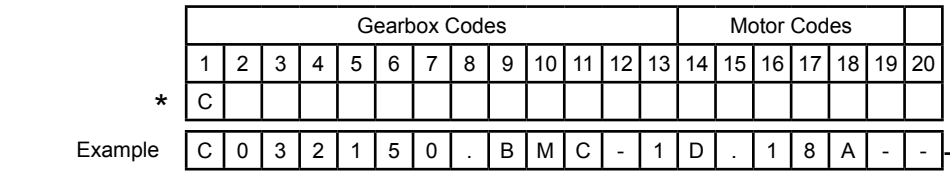


Two stage reduction unit with output flange and single extension output shaft

* C 0 5 2 1 1 6 0 F R C - 1 - - - - - - -

* Typical unit designations

SERIES C
UNIT DESIGNATIONS



1 - Series C

Range [C]

2, 3 - Size of Unit

[0 3] Through [1 0]

4 - No of Reductions

[2] [3] & [4]

5 - Revision Version

[1] For Sizes 03 to 10

6,7,8 - Nominal Overall Ration

eg. [5 0 .]

9 - Unit Version

- [W] - Standard Unit (C03 - C06 Only)
- [B] - Standard Unit with Base Mounted Feet
- [E] - Standard Unit with End Mounted Feet
- [R] - Standard Unit with Top Mounted Feet
- [V] - Standard Unit with Drywell and Output Flange For Mounting Position 2 & 3 (Sizes C07 - C10 only)

Std Unit with Output Flange [F] on Left † [H] on Right †

- [G] - Std Unit with Output Flange Reduced Dia (C03 Only)

Std Unit with Banjo Torque Arm [T] on Left † [Q] on Right †

- [U] - Std Unit Banjo Torque Arm Heavy Duty (C10 Only)

10 - Type of Unit

- [M] - Motorized with IEC standard motor (IE2)
- [N] - Motorized with NEMA standard motor (EPACT)
- [H] - Motorized with IEC high efficiency motor (IE3)
- [E] - Motorized with NEMA high efficiency motor (PREMIUM)
- [G] - Unit to allow fitting of IEC motor (customer own motor)
- [A] - Unit to allow fitting of NEMA motor (customer own motor)
- [R] - Reducer unit
- [S] - Reducer unit with fan kit
- [W] - Reducer unit with backstop CCW rotation
- [X] - Reducer unit with backstop CW rotation
- [Y] - Reducer unit with fan and backstop CW rotation
- [Z] - Reducer unit with fan and backstop CCW rotation

11 - Output Shaft

Standard Single Extension [C] on Left † [E] on Right †
Standard Double Extension [D]
Extended Shaft for Flange Mounted Units [F]
Standard Hollow Shaft [H]
Unit with Hollow Shaft with Reduced Bore Dia [Z]
Heavy Duty Single Extension (Size C06) [J]
Heavy Duty Double Extension (Size C06) [K]

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

For All Other Types Enter [-]

13, 14 - Mounting Position

eg [2 B]

15, 16, 17 - Geared Motor Powers

Motor Power Required

eg [. 7 5]

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

18 - No of Motor Features

[-] No motor

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

[S] Dual speed or special motor

19 - Additional Motor Features

eg [- A]

For Types Without Motor Enter [-]

20 - Additional Gearbox Features

Double Oil Seal, Motorised Backstop Etc

eg [- F]

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

EXPLANATION & USE OF RATINGS & SERVICE FACTORS

Gear unit selection is made by comparing actual loads with catalogue ratings. Catalogue ratings are based on a standard set of loading conditions, whereas actual load conditions vary according to type of application. Service Factors are therefore used to calculate an equivalent load to compare with catalogue ratings.
i.e. Equivalent Load = Actual Load x Service Factor

Mechanical ratings and service factor Fm

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).

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

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

Thermal Rating (For In-line Reducers)

The Thermal Rating is the gearboxes ability to dissipate heat. If exceeded, may cause the lubricant to break down resulting in premature gear failure. A thermal check should be made in accordance with procedure (page 102) for in line reducers.

LOAD CLASSIFICATION BY APPLICATIONS

Table 3

U = Uniform load

M = Moderate shock load

H = Heavy shock load

† = Refer to our Application Engineers

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

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

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

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

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	=	68 rev/min
Application	=	Uniformly loaded belt conveyor
Duration of service (hours per day)	=	24hrs
Mounting position	=	1
Ambient temperature	=	20°C
Running time (%)	=	100%

NOTE.

If selecting a Series C Reducer Unit, a Thermal Check MUST be made in accordance with procedure on page 102

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 3, page 6

Application = Uniformly loaded belt conveyor

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

U = Uniform load

Refer to mechanical service factor (Fm), table 1, page 5

Duration of service (hours per day) = 24hrs

Prime mover	Duration of servicehrs per day	Load classification-drive	
		Uniform	Moderate
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	1.00
	3 to10	1.00	1.25
	Över 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 5)

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

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

$\frac{0.7 \times 9550}{68}$ = 98 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 = 68 rev/min

0.75 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
Output SPEED	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
165	8.59	36	2.24	2841	C 0 3 2 1 8 . 0 _M _ - _ _ . 7 5 A - -	19.5	80A
122	11.61	48	1.81	2837	1 1 .		
107	13.20	54	1.65	2832	1 2 .		
95	14.95	62	1.51	2832	1 4 .		
86	16.36	60	1.44	2827	1 6 .		
74	19.12	78	1.27	2821	1 8 .		
69	20.61	84	1.2	2821	2 0 .		
64	22.11	80	1.18	2821	2 2 .		
56	25.14	90	1.08	2810	2 5 .		
50	28.48	101	1	2810	2 8 .		

Go to point 4

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 = 98 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
74	19.12	78	1.27	2821	C 0 3 2 1 1 8 . _ M _ - _ _ . 7 5 A - -	19.5	80A
69	20.61	84	1.2	2821	2 0 .		
64	22.11	80	1.18	2821	2 2 .		

However the output torque is only 84 against the requirement of 98 Nm, hence a unit fitted with a 1.1 kW motor is required (page 41).

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 Frame Size
74	19.12	115	0.86	2800	C 0 3 2 1 1 8 . _ M _ - _ _ 1 - 1 A - -	24.5	90S
68	20.61	123	0.82	2800	2 0 .		
64	22.11	117	1.8	2800	2 2 .		

Selected unit's output torque (M2) = 123 Nm, therefore the torque from a 1.1 kW motor is acceptable.

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

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 Frame Size
74	19.12	115	0.86	2800	C 0 3 2 1 1 8 . _ M _ - _ _ 1 - 1 A - -	24.5	90S
68	20.61	123	0.82	2800	2 0 .		
64	22.11	117	0.8	2800	2 2 .		
86	16.36	91	1.57	5275	C 0 4 2 1 1 6. 0 _ M _ - _ _ 1 - 1 A - -	26.5	90S
74	19.12	117	1.43	5275	C 0 4 2 1 1 8. 0		
68	20.61	125	1.36.	5275	C 0 4 2 1 2 0. 0		
64	22.11	121	1.28.	5275	C 0 4 2 1 2 2. 0		

The service factor (Fm) is only 0.82, therefore this unit is not acceptable.and a larger C0421 unit must be selected with a service factor (Fm) of 1.36

5 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft 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)

1.1 kW

4 POLE

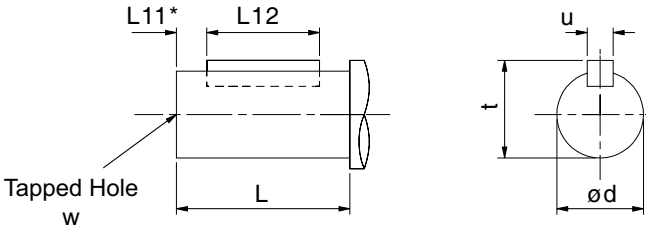
N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
Output SPEED	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
164	8.59	54	2.51	5286	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 - 1 A - -	24.5	90S
121	11.61	72	2.04	5279	1 1 .		
107	13.20	82	1.87	5280	1 2 .		
94	14.95	92	1.71	5275	1 4 .		
86	16.36	91	1.57	5275	1 6 .		
74	19.12	117	1.43	5275	1 8 .		
68	20.61	125	1.36	5275	2 0 .		
64	22.11	121	1.28	5275	2 2 .		

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

a) Inertia of the Driven Machine (Referred to motor speed) >10
Inertia of Gear Unit plus Motor

b) Ambient temperature is above 40°C

OUTPUTSHAFT OPTIONS, COLUMN 11 ENTRY



* Inch shafts have open ended keyways, therefore no 'L11' dimension is required

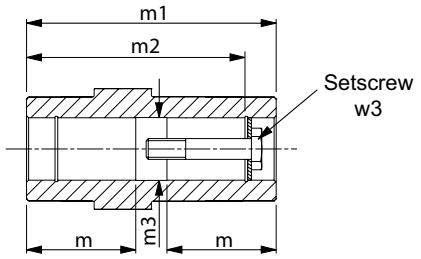
Column 11 Entry

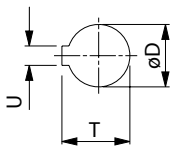
Standard Single Extension [C] on Left [E] on Right
Standard Double Extension [D]
Std Extended Shaft for Flange Mounted Units [F]
Std Heavy Duty Single Extension (Size C06) [J]
Std Heavy Duty Double Extension (Size C06) [K]
Inch Single Extension [N] on Left [B] on Right
Inch Double Extension [P]
Inch Extended Shaft for Flange Mount Units [G]
Inch Heavy Duty Single Extension (Size C06) [L]

SIZE OF UNIT	TYPE OF OUTPUT SHAFT	COLUMN 11 ENTRY	DIMENSIONS IN MM (Inch shaft in inches)						
			ød	L	L11	L12	t	u	w
C03	Standard	C, E, D	20.015 / 20.002	35	3	31 2	2.5	6	M6 x 1.0 x 16 Deep
	Inch	N, B, P	0.7500" / 0.7495"	1.38"	*	1.28"	0.83"	0.19"	$^1/_4$ UNF x 0.63" Deep
C04	Standard	C, E,D	25.015 / 25.002	46	3	42	28	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.0000" / 0.9995"	1.81"	*	1.69"	1.10"	0.25"	$^1/_4$ UNF x 0.63" Deep
C05	Standard	C, E, D	30.015 / 30.002	60	3	53	33	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.2500" / 1.2494"	2.36"	*	2.125"	1.36"	0.25"	$^3/_8$ UNF x 0.87" Deep
C06	Standard	C, E, D	35.018 / 35.002	63	3	55	38	10	M12 x 1.75 x 22 Deep
	Standard Heavy Duty	J, K	45.018 / 45.002	98	5	80	48.5	14	M16 x 2.0 x 36 Deep
	Inch	N, B, P	1.3750" / 1.3744"	2.48"	*	2.34"	1.51"	0.313"	$^1/_2$ UNF x 1.125" Deep
	Inch Heavy Duty	L	1.7500" / 1.7494"	3.86"	*	3.75"	1.92"	0.375"	$^5/_8$ UNF x 1.44" Deep
C07	Standard	C, E, D	45.018 / 45.002	76	3	70	48.5	14	M16 x 2.0 x 36 Deep
	Std Extended Shaft	F	45.018 / 45.002	90	3	84	48.5	14	M16 x 2 x 36 Deep
	Inch	N, B	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	$^5/_8$ UNF x 1.44" Deep
	Inch Extended Shaft	G	1.7500" / 1.7494"	3.54"	*	2.75"	1.91"	0.375"	$^5/_8$ UNF x 1.44" Deep
	Inch Double Ext	P	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	$^5/_8$ UNF x 1.44" Deep
C08	Standard	C, E, D	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42 Deep
	Std Extended Shaft	F	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42 Deep
	Inch	N, B	2.3750" / 2.3744"	4.72"	*	4.125"	2.646"	0.625"	$^3/_4$ UNF x 1.75" Deep
	Inch Extended Shaft	G	2.3750" / 2.3744"	4.72"	*	3.25"	2.64"	0.625"	$^3/_4$ UNF x 1.75" Deep
	Inch Double Ext	P	2.3125" / 2.3115"	4.72"	*	4.125"	2.582"	0.625"	$^3/_4$ UNF x 1.75" Deep
C09	Standard	C, E, D	70.030 / 70.011	135	3	125	74.5	20	M20 x 2.5 x 42 Deep
	Std Extended Shaft	F	70.030 / 70.011	140	3	125	74.5	20	M20 x 2.5 x 42 Deep
	Inch	N, B	2.8750" / 2.8740"	5.12"	*	4.5"	3.20"	0.75"	$^3/_4$ UNF x 1.75" Deep
	Inch Extended Shaft	G	2.8750" / 2.8740"	5.51"	*	3.50"	3.20"	0.75"	$^3/_4$ UNF x 1.75" Deep
	Inch Double Ext	P	2.6875" / 2.6865"	5.12"	*	4.5"	2.963"	0.625"	$^3/_4$ UNF x 1.75" Deep
C10	Standard	C, E, D	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50 Deep
	Std Extended Shaft	F	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50 Deep
	Inch	N, B	3.6250" / 3.6240"	6.69"	*	5.875"	4.009"	0.875"	1 UNF x 2.25" Deep
	Inch Extended Shaft	G	3.6250" / 3.6240"	6.69"	*	5.51"	4.00"	0.875"	1 UNF x 2.25" Deep
	Inch Double Ext	P	3.1875" / 3.1865"	6.69"	*	5.875"	3.518"	0.750"	1 UNF x 2.25" Deep

OUTPUT BORE OPTIONS, COLUMN 11 ENTRY

Standard / Inch Hollow Shaft





Output Shaft Bore

Column 11 Entry

Metric Hollow Shaft	H
Inch Hollow Shaft	A
Metric Hollow Shaft with reduced bore diameter	Z

SIZE OF UNIT	TYPE OF BORE	COLUMN 11 ENTRY	DIMENSIONS IN MM (Inch shaft in inches)							
			øD	m	m1	m2	øm3	T	U	w3
C03	Standard	H	20.021/20.000	52	124	104	20.2	22.9	6	M6 x 1.0, 40
	Inch	A	0.7508”/0.7500”	2.05”	4.88”	4.13”	0.76”	0.84”	0.188”	$^{1}/_{4}$” UNF x $1^{1}/_{2}$”
C04	Standard	H	30.021/30.000	54	130	122	30.2	33.5	8	M10 x 1.5, 50
	Reduced Dia	Z	25.021/25.000	54	130	125	25.2	28.5	8	M10 x 1.5, 50
	Inch	A	1.2510”/1.2500”	2.13”	5.12”	4.81”	1.26”	1.37”	0.25”	$^{3}/_{8}$ UNF x 2”
C05	Standard	H	35.025/35.000	56	140	127	35.3	38.5	10	M12 x 1.75, 55
	Reduced Dia	Z	30.021/30.000	56	140	127	30.3	33.5	8	M10 x 1.5 x 45
	Inch	A	1.3760”/1.3750”	2.20”	5.52”	5.00”	1.39”	1.53”	0.313”	$^{1}/_{2}$” UNF x 2”
C06	Standard	H	45.025/45.000	70	180	156	45.3	49	14	M16 x 2.0, 70
	Reduced Dia	Z	40.025/40.000	70	180	156	40.3	43.5	12	M16 x 2.0, 70
	Inch	A	1.5010”/1.5000”	2.76”	7.08”	6.14”	1.51”	1.67”	0.375”	$^{5}/_{8}$” UNF x $2^{3}/_{4}$”
C07	Standard	H	60.030/60.000	79	218	188	60.5	64.6	18	M20 x 2.5, 80
	Reduced Dia	Z	50.030/50.000	79	218	191	50.5	54	14	M16 x 2.0, x 70
	Inch	A	2.0010”/2.0000”	3.11”	8.58”	7.41”	2.02”	2.23”	0.50”	$^{5}/_{8}$” UNF x 3”
C08	Standard	H	70.030/70.000	90	250	220	70.5	75.1	20	M20 x 2.5, 80
	Reduced Dia	Z	60.030/60.000	90	250	220	60.5	64.6	18	M20 x 2.5, 80
	Inch	A	2.3760”/2.3750”	3.54”	9.84	8.68”	2.40”	2.66”	0.625”	$^{3}/_{4}$” UNF x 3”
C09	Standard	H	90.035/90.000	107.5	300	265	90.5	95.6	25	M24 x 3.0, 110
	Reduced Dia	Z	70.030/70.000	107.5	300	270	70.5	75.1	20	M20 x 2.5, 100
	Inch	A	2.7510”/2.7500”	4.23”	11.82”	10.65”	2.76”	3.04”	0.625”	$^{3}/_{4}$” UNF x $4^{1}/_{4}$”
C10	Standard	H	100.035/100.000	132.5	350	313	100.5	106.6	28	M24 x 3.0, 110
	Reduced Dia	Z	80.030/80.000	132.5	350	313	80.5	85.6	22	M20 x 2.5, 100
	Inch	A	3.2510”/3.2500”	5.22”	13.78”	12.32”	3.26”	3.59”	0.75”	1” UNF x $4^{1}/_{4}$”

DOUBLE REDUCTION UNITS

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
		C0321		C0421		C0521		C0621		C0721	
	RATIO COVERAGE	8.0 -28. 36. - 40.	32. 45. - 250	8.0 -28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250
71	COLUMN 12 ENTRY	H	H	H	H	-	H	-	-	-	-
80		B	K	B	K	B	K	-	G	-	G
90		D	R	D	R	D	R	Z	J	-	J
100		E	S	E	S	E	S	B	L	B	L
112		E	S	E	S	E	S	B	L	B	L
132		-	-	-	-	-	-	-	-	D	N

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																	
		C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021		
	RATIO COVERAGE	8.0 -28. 36. - 40.	32. 45. - 250	8.0 -28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	
63	COLUMN 12 ENTRY	F	F	F	F	-	F	-	V	-	-	-	-	-	-	-	-	
71		G	G	G	G	-	G	-	D	-	-	-	-	-	-	-	-	
80		A	J	A	J	A	J	W	F	-	F	-	D	-	E	-	-	
90		C	Q	C	Q	C	Q	Y	H	-	H	-	E	-	F	-	-	
100		-	-	-	-	-	-	A	K	A	K	A	F	-	G	-	E	
112		-	-	-	-	-	-	A	K	A	K	A	F	-	G	-	E	
132		-	-	-	-	-	-	N	P	C	M	B	G	-	H	-	F	
160		-	-	-	-	-	-	-	-	E	-	C	H	A	J	A	G	
180		-	-	-	-	-	-	-	-	-	-	-	-	B	K	B	H	
200		-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	-	
225		-	-	-	-	-	-	-	-	-	-	-	-	D	-	D	-	

Limited Availability / Non Preferred

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																	
		C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021		
	RATIO COVERAGE	8.0 -28. 36. - 40.	32. 45. - 250	8.0 -28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	
56c	COLUMN 12 ENTRY	T	U	T	U	T	U	-	Q	-	Q	-	M	-	-	-	-	
143/145TC		V	W	V	W	V	W	-	R	-	R	-	N	-	-	-	-	
182/184TC		X	-	X	-	X	-	S	T	S	T	J	P	-	S	-	P	
213/215TC		-	-	-	-	-	-	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	

TRIPLE REDUCTION UNITS

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
		C0331		C0431		C0531		C0631		C0731	
	RATIO COVERAGE	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
71	COLUMN 12	H	H	H	H	H	H	-	H	-	-
80		B	K	B	K	B	K	B	K	-	G
90		D	R	D	R	D	R	D	R	Z	J
100		E	S	E	S	E	S	E	S	B	L
112		-	-	-	-	-	-	-	-	B	L

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
		C0331		C0431		C0531		C0631		C0731	
	RATIO COVERAGE	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
63	COLUMN 12	F	F	F	F	F	F	-	F	-	V
71		G	G	G	G	G	G	-	G	-	D
80		A	J	A	J	A	J	A	J	W	F
90		C	Q	C	Q	C	Q	C	Q	Y	H
100		-	-	-	-	-	-	-	-	A	K
112		-	-	-	-	-	-	-	-	A	K
132		-	-	-	-	-	-	-	-	N	P

Limited Availability / Non Preferred

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
		C0331		C0431		C0531		C0631		C0731	
	RATIO COVERAGE	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
56c	COLUMN 12	T	U	T	U	T	U	T	U	-	Q
143/145TC		V	W	V	W	V	W	V	W	-	R
182/184TC		X	-	X	-	X	-	X	-	S	T
213/215TC		-	-	-	-	-	-	-	-	U	-

QUADRUPLE REDUCTION UNITS

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER											
		C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	RATIO COVERAGE	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 & Over	500	560 & Over	450	560 & Over
71	COLUMN 12 ENTRY	H	H	H	H	H	-	-	-	-	-	-
80		K	K	K	K	K	-	G	-	G	-	G
90		R	R	R	R	R	Z	J	Z	J	-	J
100		S	S	S	S	S	B	L	B	L	B	L
112		-	-	-	-	-	B	L	B	L	B	L
132		-	-	-	-	-	-	-	-	-	D	N

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER											
		C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	RATIO COVERAGE	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 & Over	500	560 & Over	450	560 & Over
63	COLUMN 12 ENTRY	F	F	F	F	F	-	V	-	V	-	-
71		G	G	G	G	G	-	D	-	D	-	-
80		J	J	J	J	J	W	F	W	F	-	F
90		Q	Q	Q	Q	Q	Y	H	Y	H	-	H
100		-	-	-	-	-	A	K	A	K	A	K
112		-	-	-	-	-	A	K	A	K	K	K
132		-	-	-	-	-	N	P	N	P	C	M
160		-	-	-	-	-	-	-	-	-	E	-

Limited Availability / Non Preferred

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER											
		C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	RATIO COVERAGE	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 & Over	500	560 & Over	450	560 & Over
56c	COLUMN 12 ENTRY	U	U	U	U	U	-	Q	-	Q	-	Q
143/145TC		W	W	W	W	W	-	R	-	R	-	R
182/184TC		-	-	-	-	-	S	T	S	T	S	T
213/215TC		-	-	-	-	-	U	-	U	-	U	V

LUBRICANT AND QUANTITY

Unit sizes C03, 04, 05 and 06 are factory filled with a grade 6G lubricant.

Unit sizes C07, 08, 09 and 10 will be despatched without oil.

Note: Catalogue ratings are based on the polyglycol range of synthetic oils recommended on this page. The use of mineral or special oils will require a derate, please contact our Application Engineers.

The oil grade is stamped on the name plate and the oil level should be established by filling until the oil escapes via the level plug,

The grade and level are determined from the operating speed of the gear unit and the ambient temperature range, which if not given when ordering will be assumed to be 1450 rev / min input and ambient temperature range 0 to 35ºC. Oil grades and oil level should always be checked before installation, Consult the Installation and Maintenance instructions provided with the gear unit.
To determine the oil grade refer to table 1, and then refer to the Installation and Maintenance istructions to select an approved lubricant
To determine the oil capacity refer to appropriate table 2 or 3. Oil capacities are only approximate and units should be filled until oil escapes from the level plug holes. Do not overfill as excess will cause overheating and leakage.

Always fill with correct lubricant as marked on the nameplate. Never mix lubricant grades.

See Installation and Maintenance instructions for for lists of approved lubricants within the grades.

stated with the order these are the operating conditions that will be assumed

TABLE 1 SERIES C OIL GRADES

GEAR UNIT DETAILS			AMBIENT TEMPERATURE RANGE *		
UNIT TYPE	**RATIO RANGE**	**INPUT SPEED(REV / MIN)**	**-30ºC to 20ºC**	**0ºC to 35ºC**	**20ºC to 50ºC**
DOUBLES	8 - 18	0 - 750	6G	6G	8G
		0>750 - 2000	5G	6G	7G
		>2000 - 3000	4G	6G	6G
	20 - 36	0 - 2000	6G	6G	8G
		>2000 - 3000	5G	6G	7G
	40 - 250	0 - 3000	6G	6G	8G
QUADRUPLES	< - 2800	0 - 750	6G	7G	9G
		>750 - 3000	6G	6G	8G
	3200 - 16000	0 - 3000	6G	7G	9G

* For other ambient temperatures please refer to our Application Engineers.

TABLE 2 LUBRICANT QUANTITY (Litres) (double reduction and final stage quadruple reduction)

DOUBLE, TRIPLE AND FINAL STAGE QUADRUPLE REDUCTION															
Unit Size			**C0321**	**C0331**	**C0421**	**C0431**	**C0521**	**C0531**	**C0621**	**C0631**	**C0721**	**C0731**	**C0821**	**C0921**	**C1021**
MOUNTING POSITION	1	Level 1 *	0.3	0.4	0.4	0.5	0.7	0.9	1.5	2.1	4.5	4.8	7.1	17	28
		Level 2 *									3.0	3.8	5.9	11	17
	2		0.5	0.8	0.7	0.9	1.0	1.4	2.3	2.5	3.5	3.7	6.2	12	21
	3		0.5	0.8	0.7	0.9	1.0	1.4	2.2	2.5	3.7	3.7	6.2	12	21
	4	Level 1 *	0.7	1.2	1.0	1.5	1.4	2.1	3.1	4.0	5.1	5.9	9.5	17	26
		Level 2 *									3.0	3.6	4.8	8.3	14
	5		0.6	1.0	0.9	1.3	1.4	2.0	3.0	4.6	5.6	6.6	9.6	18	31
	6	Level 1 *	0.7	1.2	1.0	1.5	1.4	1.9	3.2	4.0	7.4	9.2	12	25	42
		Level 2 *									5.1	6.9	9.5	17	28

* Use Level 1 for output speeds lower than 100 rpm * Use Level 2 for output speeds of 100 rpm and higher.

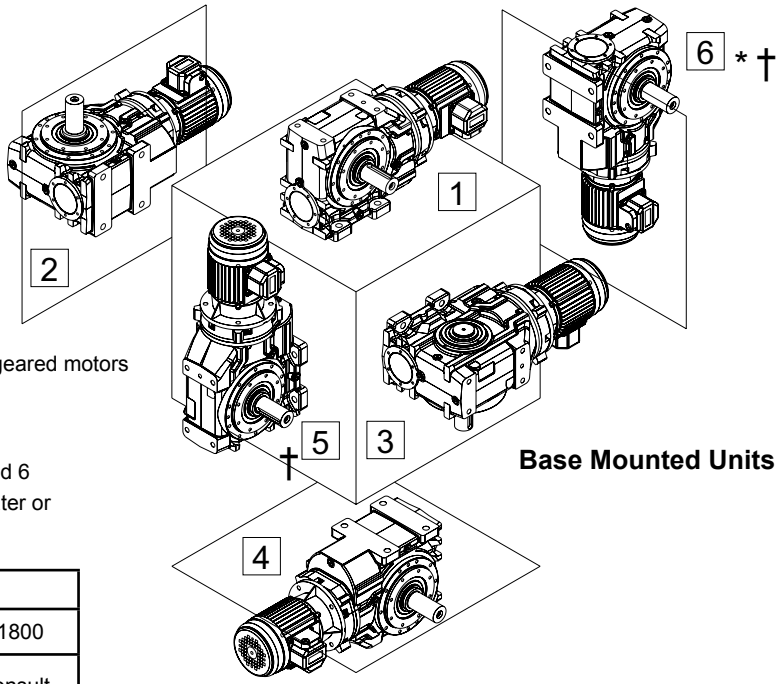
TABLE 3 LUBRICANT QUANTITY (Litres) (primary stage quadruple reduction)

PRIMARY STAGE QUADRUPLE REDUCTION									
Unit Size		**C0341**	**C0441**	**C0541**	**C0641**	**C0741**	**C0841**	**C0941**	**C1041**
SECONDARY UNIT (Lubricant quantity see table 2)		**C0321**	**C0421**	**C0521**	**C0621**	**C0721**	**C0821**	**C0921**	**C1021**
PRIMARY UNIT		**M0122**	**M0122**	**M0122**	**M0322**	**M0322**	**M0522**	**M0522**	**M0722**
PRIMARY QUANTITY • (Unit lubricant)	1 to 4	0.5	0.5	0.5	0.8	0.8	1.5	1.5	2.6
	5 & 6	1.0	1.0	1.0	1.4	1.4	2.6	2.6	4.7

• Unit filled with Grade 6E lubricant suitable for all ambient temperatures between 0ºC to 35ºC and are 'lubricated for life'

COLUMN 13 ENTRY

Enter [-] for units with no oil fill

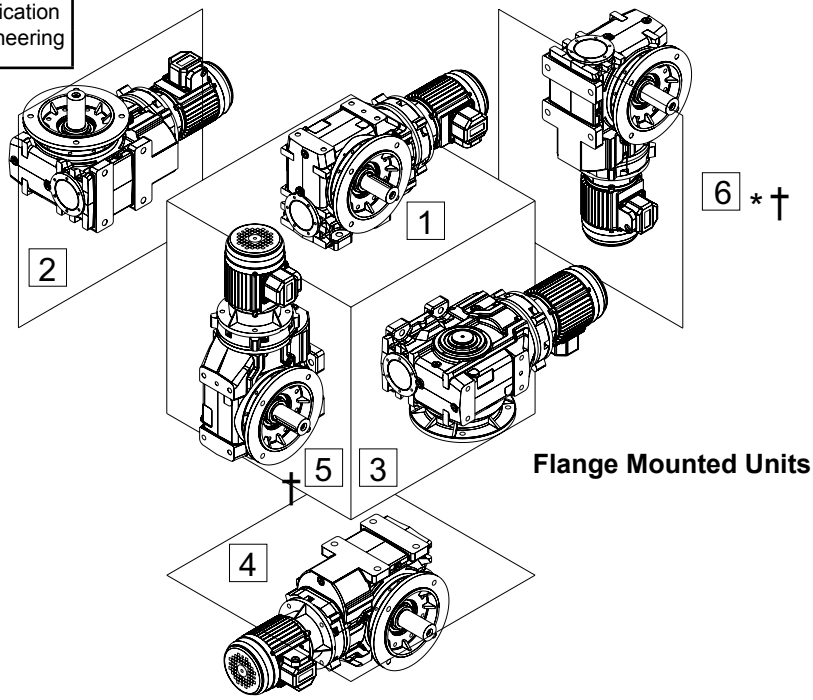


Base Mounted Units

* Mounting Position 6 is not recommended for geared motors - Consult Application Engineering

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

Unit Size	Input Speed (rpm)			
	1000	1500	1800	>1800
C03-C08	All	All	All	Consult Application Engineering
C09	18:1	18:1	25:1	
C10	18:1	40:1	63:1	

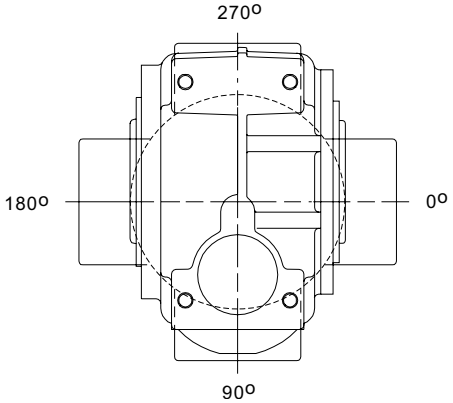


Flange Mounted Units

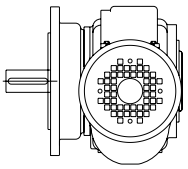
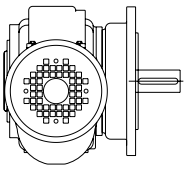
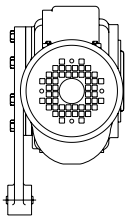
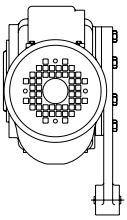
MOUNTING POSITIONS - SHOWN AS MOTORISED - APPLIES ALSO FOR REDUCERS

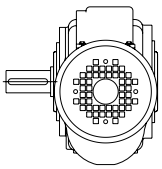
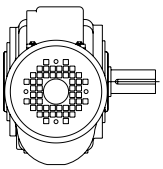
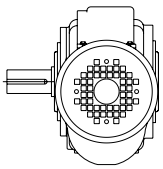
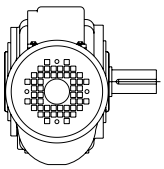
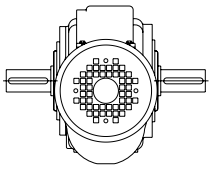
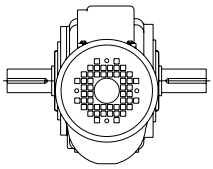
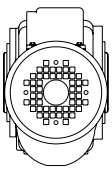
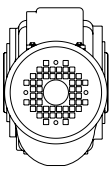
COLUMN 14 ENTRY

ALL MOTORS



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

Column 9 Entry	Left	Right
Std Unit with Output Flange	F 	H 
Std Unit with Torque Bracket	T 	Q 

Column 11 Entry	Metric		Inch	
	Left	Right	Left	Right
Single Output Shaft	C 	E 	N 	B 
Double Output Shaft	D 		P 	
Hollow Shaft	H 		A 	

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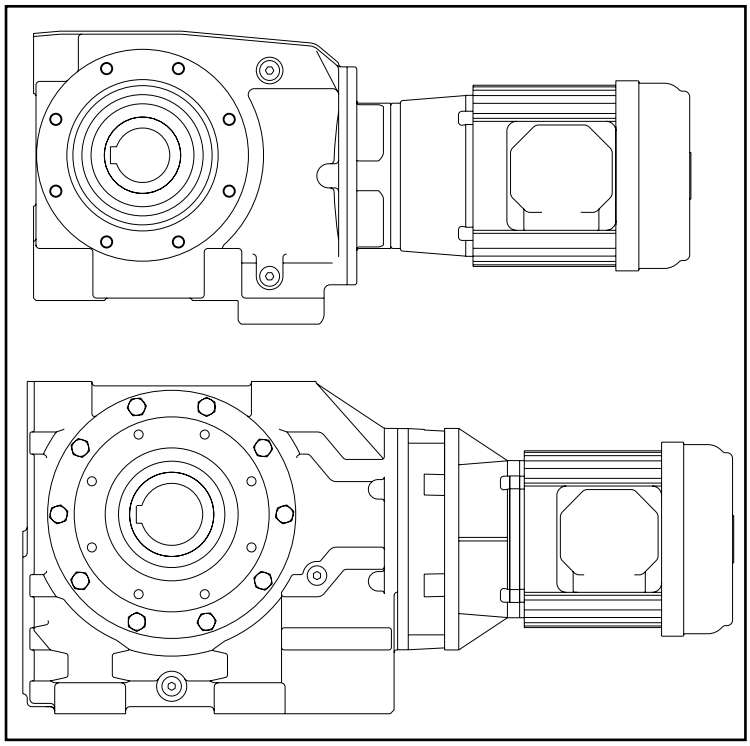


MOTORISED

SERIES C

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

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

High Power Motor (Non Standard)

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

Recalculation Factors

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

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

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

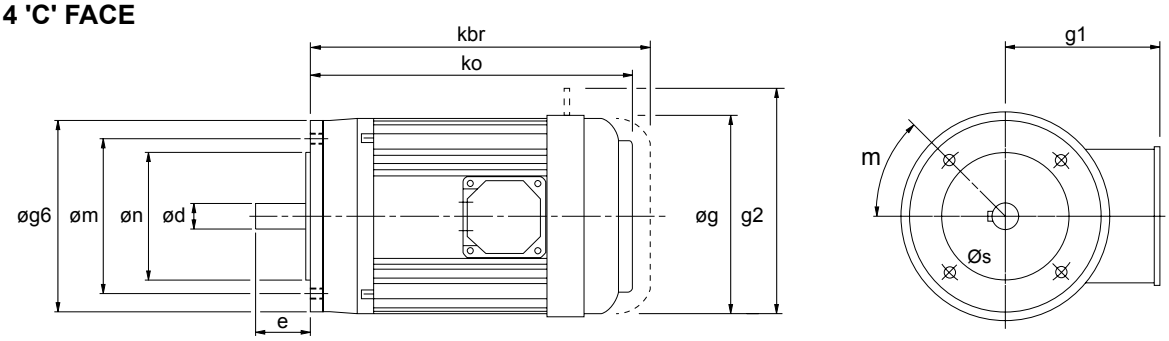
Output Power Kw	Frame Size	Speed (RPM)	I (A)	Ist / I	Tst / T	J (Kgm2)
0.12	63	900	0.6	2.1	2.1	0.000
0.18	71	920	0.75	2.5	2	0.001
0.25	71	920	0.92	3	2	0.001
0.37	80A	920	1.25	3.5	2.1	0.002
0.55	80B	930	1.78	3.5	2.1	0.002
0.75	90S	930	2.36	4	1.9	0.003
1.1	90L	930	3.25	4	1.9	0.004
1.5	100L	940	5.8	4.5	1.9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

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

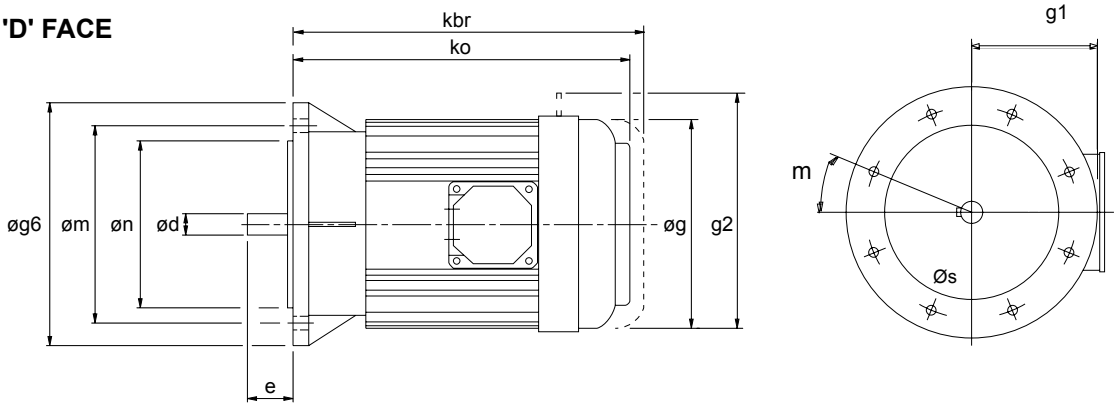
Motor wound for 50 Hz and	Connected to 60 Hz and	Data at 60 Hz in percentage of values at 50 Hz					
		P	n	I	Ist/I	T	Tst/T
		kW	rpm	A		Nm	
400V	380V	100	120	100	80	83	66
	400V	100	120	98	83	83	70
	415V	105	120	100	88	86	78
	440V	110	120	100	95	91	85
	460V	115	120	100	100	96	95
	480V	120	120	100	105	100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

B14 'C' FACE



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

B5 'D' FACE



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

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

ADDITIONAL MOTOR FEATURES - COLUMN 19 ENTRY

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

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

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

ADDITIONAL GEARBOX FEATURES

ADDITIONAL MOTOR FEATURES - COLUMN 20 ENTRY

Column 20 Entry	Double Output Shaft Oil Seals	Oil Level Glass C07 - C10	* Motorised Backstop		Special
			CW Rotation	CCW Rotation	
-					
A	•				
B		•			
C	•	•			
D			•		
E	•		•		
F		•	•		
G	•	•	•		
H				•	
I	•			•	
J		•		•	
K	•	•		•	
L					•

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

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

IEC B5 frame sizes 100 - 200 and NEMA frame sizes 182TC -326TC - see page 70 for details

0.12 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
158	8.59	6	13.44	2860	C 0 3 2 1 8 . 0 _ M _ - _ _ . 1 2 A - -	14.5	63
117	11.61	8	10.86	2860	1 1 .		
103	13.20	9	9.93	2860	1 2 .		
91	14.95	10	9.07	2860	1 4 .		
83	16.36	10	8.68	2860	1 6 .		
71	19.12	13	7.61	2860	1 8 .		
66	20.61	14	7.21	2860	2 0 .		
62	22.11	13	7.10	2860	2 2 .		
54	25.14	15	6.50	2860	2 5 .		
48	28.48	16	5.98	2860	2 8 .		
40	33.71	22	5.03	2850	3 2 .		
37	36.43	21	5.04	2850	3 6 .		
35	39.26	22	4.80	2850	4 0 .		
30	45.50	30	4.05	2850	4 5 .		
26	53.31	35	3.63	2840	5 0 .		
24	56.19	32	3.74	2850	5 6 .		
21	64.21	36	3.42	2840	6 3 .		
18	74.55	48	2.98	2840	7 1 .		
16	82.83	53	2.76	2830	8 0 .		
16	86.67	48	2.89	2840	9 0 .		
13	101.54	55	2.57	2830	1 0 0		
12	114.33	72	1.78	2820	1 1 2		
10	129.94	82	1.54	2820	1 2 5		
10	142.00	75	1.96	2820	1 4 0		
8.6	157.78	83	1.78	2820	1 6 0		
6.2	217.78	113	1.31	2800	2 1 2		
5.5	247.50	127	1.16	2800	2 5 0		
13	105.36	65	2.26	2830	C 0 3 3 1 1 0 0 _ M _ - _ _ . 1 2 A - -	17.5	63
11	120.39	75	1.99	2820	1 1 8		
10	130.10	68	2.16	2830	1 3 2		
10	140.21	73	2.03	2820	1 5 0		
8.4	162.50	100	1.49	2810	1 6 0		
7.1	190.38	116	1.27	2800	1 8 0		
6.8	200.68	103	1.45	2810	2 0 0		
5.9	229.32	116	1.27	2800	2 2 5		
5.1	266.25	161	0.92	2780	2 6 5		
4.6	295.83	178	0.84	2770	2 8 0		
4.4	309.52	154	0.96	2780	3 1 5		
3.8	362.64	179	0.83	2770	3 6 0		
16	82.83	53	3.56	5290	C 0 4 2 1 8 0 . _ M _ - _ _ . 1 2 A - -	16.5	63
12	114.33	72	1.78	5290	1 1 2		
10	129.94	83	1.54	5290	1 2 5		
10	142.00	77	3.25	5290	1 4 0		
8.6	157.78	85	3.01	5290	1 6 0		
6.2	217.78	115	1.78	5290	2 1 2		
5.5	247.50	130	1.54	5280	2 5 0		
13	105.36	67	3.04	5290	C 0 4 3 1 1 0 0 _ M _ - _ _ . 1 2 A - -	20.5	63
11	120.39	76	2.66	5290	1 1 8		
10	130.10	70	3.40	5290	1 3 2		
10	140.21	75	3.25	5290	1 5 0		
8.4	162.50	102	1.97	5290	1 6 0		
7.1	190.38	118	1.69	5290	1 8 0		
6.8	200.68	105	2.61	5290	2 0 0		
5.9	229.32	120	2.31	5290	2 2 5		
5.1	266.25	164	1.20	5270	2 6 5		
4.6	295.83	181	1.09	5270	2 8 0		
4.4	309.52	159	1.74	5280	3 1 5		
3.8	362.64	185	1.50	5270	3 6 0		
2.7	507.14	254	1.09	5240	5 0 0		
5.7	240.00	131	3.67	7440	C 0 5 2 1 2 5 0 _ M _ - _ _ . 1 2 A - -	18.5	63
8.5	160.26	103	3.82	7440	C 0 5 3 1 1 6 0 _ M _ - _ _ . 1 2 A - -	21.5	63
7.2	187.76	120	3.27	7440	1 8 0		
5.9	229.81	125	3.85	7440	2 2 5		
5.2	262.58	165	2.34	7440	2 6 5		
4.7	291.75	183	2.11	7440	2 8 0		
4.4	310.18	165	2.91	7440	3 1 5		
3.7	363.40	192	2.50	7440	3 6 0		
3.4	402.70	251	1.53	7440	4 0 0		
3.0	457.66	285	1.34	7440	4 5 0		
2.7	508.21	264	1.82	7440	5 0 0		
2.4	564.68	292	1.65	7440	5 6 0		
1.7	779.42	397	1.21	7430	8 0 0		
1.5	885.79	450	1.07	7420	9 0 0		
4.5	299.67	200	3.83	11800	C 0 6 3 1 2 8 0 _ M _ - _ _ . 1 2 A - -	37.5	63
3.8	357.32	200	3.83	11900	3 6 0		
3.4	395.39	262	2.92	11800	4 0 0		
3.0	449.50	296	2.59	11800	4 5 0		
2.6	514.75	281	2.72	11800	5 0 0		
2.3	580.00	315	2.43	11800	5 6 0		
1.8	765.28	410	1.87	11700	8 0 0		
1.6	870.00	462	1.66	11700	9 0 0		

NOTE

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

0.12 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
1.3	1021.77	655	1.17	11402	C 0 6 4 1 1 0 C _ M _ - _ _ . 1 2 A - -	50.5	63
1.2	1110.85	711	1.08	11402	1 1 C		
1. 0	1299.84	815	0.94	11402	1 2 C		
0.91	1495.14	937	0.82	11402	1 4 C		
2.7	499.88	321	3.95	29200	C 0 7 3 1 5 0 0 _ M _ - _ _ . 1 2 A - -	84.5	63
2.5	547.35	350	3.62	29200	5 6 0		
1.8	747.66	471	2.67	29200	8 0 0		
1.6	838.50	526	2.39	29200	9 0 0		
1.3	1009.20	679	1.97	28931	C 0 7 4 1 1 0 C _ M _ - _ _ . 1 2 A - -	88.5	63
1.2	1097.19	738	1.82	28931	1 1 C		
1.1	1213.28	806	1.66	28931	1 2 C		
0.97	1395.57	926	1.45	28931	1 4 C		
0.90	1517.24	1006	1.33	28931	1 6 C		
0.82	1661.54	1097	1.22	28931	1 8 C		
0.68	1994.66	1314	1.02	28931	2 0 C		
0.62	2185.71	1441	0.93	28931	2 2 C		
0.55	2462.77	1619	0.83	28931	2 5 C		
1.3	1083.79	737	3.86	41656	C 0 8 4 1 1 1 C _ M _ - _ _ . 1 2 A - -	141.5	63
1.1	1191.45	812	3.34	41656	1 2 C		
0.97	1404.96	954	2.84	41656	1 4 C		
0.89	1532.14	1030	3.18	41545	1 6 C		
0.72	1901.25	1276	2.57	41545	1 8 C		
0.65	2088.45	1396	2.40	41545	2 0 C		
0.61	2241.96	1501	2.18	41545	2 2 C		
0.55	2462.71	1643	2.04	41545	2 5 C		
0.50	2696.62	1797	1.87	41545	2 8 C		
0.41	3304.80	2194	1.53	41545	3 2 C		
0.36	3760.71	2492	1.31	41545	3 6 C		
0.71	1908.45	1307	3.77	53383	C 0 9 4 1 1 8 C _ M _ - _ _ . 1 2 A - -	209.5	63
0.65	2106.88	1440	3.44	53383	2 0 C		
0.60	2250.46	1538	3.20	53383	2 2 C		
0.55	2484.44	1694	2.92	53383	2 5 C		
0.50	2720.42	1852	2.67	53383	2 8 C		
0.41	3333.96	2262	2.19	53383	3 2 C		
0.36	3774.96	2554	1.93	53383	3 6 C		

0.12 kW

6 POLE

101	8.59	9	9.52	2860	C 0 3 2 1 8 . 0 _ M _ - _ _ . 1 2 C - -	14.5	63
75	11.61	12	7.78	2860	1 1 .		
66	13.20	14	7.04	2860	1 2 .		
58	14.95	15	6.45	2860	1 4 .		
53	16.36	15	6.26	2860	1 6 .		
45	19.12	20	5.38	2850	1 8 .		
42	20.61	21	5.11	2850	2 0 .		
39	22.11	20	5.11	2850	2 2 .		
35	25.14	22	4.67	2850	2 5 .		
31	28.48	25	4.29	2850	2 8 .		
26	33.71	34	3.59	2850	3 2 .		
24	36.43	32	3.61	2850	3 6 .		
22	39.26	34	3.43	2850	4 0 .		
19	45.50	46	2.98	2840	4 5 .		
16	53.31	53	2.70	2830	5 0 .		
15	56.19	49	2.67	2840	5 6 .		
14	64.21	55	2.44	2830	6 3 .		
12	74.55	74	2.01	2820	7 1 .		
11	82.83	81	1.82	2820	8 0 .		
10	86.67	73	2.04	2830	9 0 .		
8.6	101.54	84	1.76	2820	1 0 0		
7.6	114.33	112	1.14	2800	1 1 2		
6.7	129.94	126	0.99	2800	1 2 5		
6.1	142.00	116	1.28	2800	1 4 0		
5.5	157.78	128	1.16	2800	1 6 0		
4. 0	217.78	174	0.85	2770	2 1 2		
8.3	105.36	102	1.46	2810	C 0 3 3 1 1 0 0 _ M _ - _ _ . 1 2 C - -	17.5	63
7.2	120.39	116	1.28	2800	1 1 8		
6.7	130.10	104	1.42	2810	1 3 2		
6.2	140.21	112	1.32	2800	1 5 0		
5.4	162.50	155	0.96	2780	1 6 0		
4.6	190.38	181	0.82	2770	1 8 0		
4.3	200.68	157	0.94	2780	2 0 0		
3.8	229.32	179	0.83	2770	2 2 5		
16	53.31	54	3.78	5290	C 0 4 2 1 5 0 . _ M _ - _ _ . 1 2 C - -	16.5	63
14	64.21	56	3.90	5290	6 3 .		
12	74.55	74	2.71	5290	7 1 .		

NOTE

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

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
11	82.83	82	2.28	5290	C 0 4 2 1 8 0 . _ M _ - _ _ . 1 2 C - -	16.5	63
10	86.67	74	3.31	5290	9 0 .		
8.6	101.54	86	2.95	5290	1 0 0		
7.6	114.33	113	1.14	5290	1 1 2		
6.7	129.94	127	0.99	5280	1 2 5		
6.1	142.00	118	2.35	5290	1 4 0		
5.5	157.78	130	2.13	5280	1 6 0		
4.0	217.78	176	1.14	5270	2 1 2		
3.5	247.50	198	0.99	5260	2 5 0		
8.3	105.36	103	1.94	5290	C 0 4 3 1 1 0 0 _ M _ - _ _ . 1 2 C - -	20.5	63
7.2	120.39	117	1.70	5290	1 1 8		
6.7	130.10	107	2.55	5290	1 3 2		
6.2	140.21	115	2.40	5290	1 5 0		
5.4	162.50	156	1.26	5280	1 6 0		
4.6	190.38	182	1.08	5270	1 8 0		
4.3	200.68	162	1.71	5280	2 0 0		
3.8	229.32	184	1.51	5270	2 2 5		
2.8	309.52	243	1.14	5250	3 1 5		
2.4	362.64	283	0.98	5240	3 6 0		
8.0	109.07	111	3.49	7440	C 0 5 2 1 1 1 2 _ M _ - _ _ . 1 2 C - -	18.5	63
7.0	124.00	125	3.04	7440	1 2 5		
6.1	142.00	122	3.93	7440	1 4 0		
5.4	160.00	136	3.52	7440	1 6 0		
4.1	211.11	178	2.70	7440	2 1 2		
3.6	240.00	200	2.40	7440	2 5 0		
8.4	103.90	105	3.76	7440	C 0 5 3 1 1 0 0 _ M _ - _ _ . 1 2 C - -	21.5	63
7.3	118.73	119	3.29	7440	1 1 8		
5.4	160.26	159	2.45	7440	1 6 0		
4.6	187.76	186	2.08	7440	1 8 0		
4.3	201.10	168	2.85	7440	2 0 0		
3.8	229.81	191	2.51	7440	2 2 5		
3.3	262.58	257	1.50	7440	2 6 5		
3.0	291.75	284	1.35	7440	2 8 0		
2.8	310.18	254	1.90	7440	3 1 5		
2.4	363.40	295	1.63	7440	3 6 0		
2.2	402.70	391	0.97	7430	4 0 0		
1.9	457.66	441	0.86	7420	4 5 0		
1.7	508.21	406	1.19	7430	5 0 0		
1.5	564.68	449	1.07	7420	5 6 0		
7.0	124.00	132	3.95	11900	C 0 6 2 1 1 2 5 _ M _ - _ _ . 1 2 C - -	32.5	63
3.6	240.00	211	3.62	11900	2 5 0		
4.7	184.62	193	3.95	11900	C 0 6 3 1 1 8 0 _ M _ - _ _ . 1 2 C - -	37.5	63
3.3	265.95	275	2.78	11800	2 6 5		
2.9	299.67	309	2.48	11800	2 8 0		
2.6	328.67	282	2.71	11800	3 1 5		
2.4	357.32	305	2.51	11800	3 6 0		
2.2	395.39	405	1.89	11700	4 0 0		
1.9	449.50	458	1.67	11700	4 5 0		
1.7	514.75	431	1.77	11700	5 0 0		
1.5	580.00	482	1.59	11700	5 6 0		
1.1	765.28	629	1.22	11600	8 0 0		
1.0	870.00	709	1.08	11500	9 0 0		
2.7	319.95	323	3.93	29200	C 0 7 3 1 3 1 5 _ M _ - _ _ . 1 2 C - -	84.5	63
2.5	341.61	344	3.69	29200	3 6 0		
2.3	373.83	400	3.35	29200	4 0 0		
2.1	419.25	446	3.00	29200	4 5 0		
1.7	499.88	495	2.55	29200	5 0 0		
1.6	547.35	539	2.33	29200	5 6 0		
1.2	747.66	731	1.72	29200	8 0 0		
1.0	838.50	817	1.54	29200	9 0 0		
0.86	1009.20	1059	1.27	28931	C 0 7 4 1 1 0 C _ M _ - _ _ . 1 2 C - -	88.5	63
0.79	1097.19	1150	1.17	28931	1 1 C		
0.72	1213.28	1260	1.06	28931	1 2 C		
0.62	1395.57	1446	0.93	28931	1 4 C		
0.57	1517.24	1570	0.85	28931	1 6 C		
1.4	636.31	682	3.98	41656	C 0 8 4 1 6 3 0 _ M _ - _ _ . 1 2 C - -	141.5	63
1.2	711.92	761	3.57	41656	7 1 0		
1.1	758.79	812	3.34	41656	8 0 0		
0.97	899.27	959	2.83	41656	9 0 0		
0.91	960.14	1023	2.65	41656	1 0 C		
0.80	1083.79	1151	2.47	41656	1 1 C		
0.73	1191.45	1264	2.15	41656	1 2 C		
0.62	1404.96	1484	1.83	41656	1 4 C		
0.57	1532.14	1610	2.03	41545	1 6 C		
0.46	1901.25	1991	1.64	41545	1 8 C		
0.42	2088.45	2180	1.54	41545	2 0 C		
0.39	2241.96	2340	1.40	41545	2 2 C		
0.35	2462.71	2563	1.31	41545	2 5 C		
0.32	2696.62	2801	1.20	41545	2 8 C		
0.26	3304.80	3414	0.98	41545	3 2 C		

NOTE

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

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
0.23	3760.71	3866	0.85	41545	C 0 8 4 1 3 6 C _ M _ - _ _ . 1 2 C - -	141.5	63
0.72	1216.09	1319	3.62	53383	C 0 9 4 1 1 2 C _ M _ - _ _ . 1 2 C - -	209.5	63
0.61	1434.02	1549	3.09	53383	1 4 C		
0.57	1537.95	1649	2.99	53383	1 6 C		
0.46	1908.45	2039	2.41	53383	1 8 C		
0.41	2106.88	2247	2.20	53383	2 0 C		
0.39	2250.46	2397	2.05	53383	2 2 C		
0.35	2484.44	2641	1.88	53383	2 5 C		
0.32	2720.42	2886	1.72	53383	2 8 C		
0.26	3333.96	3518	1.41	53383	3 2 C		
0.23	3774.96	3963	1.24	53383	3 6 C		

0.18 kW

4 POLE

159	8.59	8	9.03	2858	C 0 3 2 1 8 . 0 _ M _ - _ _ . 1 8 A - -	14.5	63
118	11.61	12	7.30	2857	1 1 .		
104	13.20	13	6.67	2857	1 2 .		
92	14.95	15	6.09	2857	1 4 .		
84	16.36	14	5.83	2856	1 6 .		
72	19.12	19	5.11	2856	1 8 .		
66	20.61	20	4.84	2856	2 0 .		
62	22.11	19	4.77	2856	2 2 .		
54	25.14	22	4.36	2855	2 5 .		
48	28.48	25	4.02	2855	2 8 .		
41	33.71	33	3.38	2844	3 2 .		
38	36.43	31	3.39	2844	3 6 .		
35	39.26	34	3.22	2844	4 0 .		
30	45.50	44	2.72	2841	4 5 .		
26	53.31	52	2.44	2831	5 0 .		
24	56.19	47	2.51	2841	5 6 .		
21	64.21	54	2.29	2830	6 3 .		
18	74.55	71	2.00	2825	7 1 .		
17	82.83	79	1.85	2818	8 0 .		
16	86.67	71	1.94	2825	9 0 .		
13	101.54	82	1.73	2816	1 0 0		
12	114.33	107	1.20	2801	1 1 2		
11	129.94	122	1.03	2796	1 2 5		
10	142.00	113	1.32	2801	1 4 0		
8.7	157.78	124	1.20	2796	1 6 0		
6.3	217.78	168	0.88	2770	2 1 2		
13	105.36	98	1.52	2810	C 0 3 3 1 1 0 0 _ M _ - _ _ . 1 8 A - -	17.5	63
11	120.39	111	1.33	2801	1 1 8		
11	130.10	102	1.45	2811	1 3 2		
10	140.21	109	1.36	2801	1 5 0		
8.4	162.50	149	1.00	2782	1 6 0		
7.2	190.38	174	0.86	2770	1 8 0		
6.8	200.68	153	0.97	2780	2 0 0		
6.0	229.32	174	0.86	2770	2 2 5		
26	53.31	52	3.97	5286	C 0 4 2 1 5 0 . _ M _ - _ _ . 1 8 A - -	16.5	63
21	64.21	55	3.67	5286	6 3 .		
18	74.55	72	2.84	5284	7 1 .		
17	82.83	80	2.39	5284	8 0 .		
16	86.67	73	3.11	5287	9 0 .		
13	101.54	84	2.77	5285	1 0 0		
12	114.33	108	1.20	5280	1 1 2		
11	129.94	123	1.03	5278	1 2 5		
10	142.00	115	2.18	5280	1 4 0		
8.7	157.78	127	2.02	5278	1 6 0		
6.3	217.78	172	1.20	5271	2 1 2		
5.5	247.50	194	1.03	5261	2 5 0		
13	105.36	99	2.04	5281	C 0 4 3 1 1 0 0 _ M _ - _ _ . 1 8 A - -	20.5	63
11	120.39	113	1.78	5280	1 1 8		
11	130.10	104	2.28	5281	1 3 2		
10	140.21	112	2.18	5280	1 5 0		
8.4	162.50	151	1.32	5275	1 6 0		
7.2	190.38	176	1.13	5270	1 8 0		
6.8	200.68	157	1.75	5275	2 0 0		
6.0	229.32	178	1.55	5271	2 2 5		
5.1	266.25	244	0.81	5246	2 6 5		
4.4	309.52	237	1.17	5250	3 1 5		
3.8	362.64	275	1.01	5240	3 6 0		
13	109.07	107	3.66	7438	C 0 5 2 1 1 1 2 _ M _ - _ _ . 1 8 A - -	18.5	63
11	124.00	121	3.19	7438	1 2 5		
8.6	160.00	133	3.61	7436	1 6 0		
6.5	211.11	173	2.78	7433	2 1 2		
5.7	240.00	195	2.47	7437	2 5 0		

NOTE

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

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
13	103.90	101	3.95	7436	C 0 5 3 1 1 0 0 _ M _ - _ _ . 1 8 A - -	21.5	63
12	118.73	115	3.46	7435	1 1 8		
8.5	160.26	153	2.57	7434	1 6 0		
7.3	187.76	179	2.19	7434	1 8 0		
6.8	201.10	163	2.94	7435	2 0 0		
6.0	229.81	186	2.59	7434	2 2 5		
5.2	262.58	247	1.57	7432	2 6 5		
4.7	291.75	273	1.42	7430	2 8 0		
4.4	310.18	246	1.95	7432	3 1 5		
3.8	363.40	286	1.68	7428	3 6 0		
3.4	402.70	374	1.03	7421	4 0 0		
3.0	457.66	425	0.90	7416	4 5 0		
2.7	508.21	394	1.22	7421	5 0 0		
2.4	564.68	435	1.11	7420	5 6 0		
1.8	779.42	592	0.81	7390	8 0 0		
5.7	240.00	206	3.71	11852	C 0 6 2 1 2 5 0 _ M _ - _ _ . 1 8 A - -	32.5	63
5.2	265.95	265	2.89	11830	C 0 6 3 1 2 6 5 _ M _ - _ _ . 1 8 A - -	37.5	63
4.6	299.67	297	2.57	11728	2 8 0		
4.2	328.67	275	2.78	11828	3 1 5		
3.8	357.32	297	2.57	11828	3 6 0		
3.5	395.39	390	1.96	11704	4 0 0		
3.0	449.50	440	1.74	11661	4 5 0		
2.7	514.75	419	1.83	11707	5 0 0		
2.4	580.00	469	1.63	11707	5 6 0		
1.8	765.28	610	1.25	11600	8 0 0		
1.6	870.00	688	1.11	11500	9 0 0		
4.0	341.61	330	3.84	28143	C 0 7 3 1 3 6 0 _ M _ - _ _ . 1 8 A - -	84.5	63
3.7	373.83	384	3.49	27930	4 0 0		
3.3	419.25	429	3.12	29161	4 5 0		
2.7	499.88	479	2.65	29152	5 0 0		
2.5	547.35	522	2.43	29152	5 6 0		
1.8	747.66	701	1.80	29130	8 0 0		
1.6	838.50	784	1.61	29116	9 0 0		
1.4	1009.20	1012	1.33	28931	C 0 7 4 1 1 0 C _ M _ - _ _ . 1 8 A - -	88.5	63
1.2	1097.19	1099	1.22	28931	1 1 C		
1.1	1213.28	1201	1.12	28931	1 2 C		
0.98	1395.57	1379	0.97	28931	1 4 C		
0.90	1517.24	1498	0.90	28931	1 6 C		
0.82	1661.54	1634	0.82	28931	1 8 C		
1.9	711.92	726	3.74	41656	C 0 8 4 1 7 1 0 _ M _ - _ _ . 1 8 A - -	141.5	63
1.8	758.79	774	3.51	41656	8 0 0		
1.5	899.27	916	2.96	41656	9 0 0		
1.4	960.14	977	2.78	41656	1 0 C		
1.3	1083.79	1098	2.59	41656	1 1 C		
1.1	1191.45	1209	2.25	41656	1 2 C		
0.98	1404.96	1421	1.91	41656	1 4 C		
0.89	1532.14	1534	2.14	41545	1 6 C		
0.72	1901.25	1900	1.72	41545	1 8 C		
0.66	2088.45	2079	1.61	41545	2 0 C		
0.61	2241.96	2236	1.47	41545	2 2 C		
0.56	2462.71	2447	1.37	41545	2 5 C		
0.51	2696.62	2676	1.25	41545	2 8 C		
0.41	3304.80	3268	1.03	41545	3 2 C		
0.36	3760.71	3711	0.88	41545	3 6 C		
1.1	1216.09	1261	3.79	53383	C 0 9 4 1 1 2 C _ M _ - _ _ . 1 8 A - -	209.5	63
0.96	1434.02	1483	3.22	53383	1 4 C		
0.89	1537.95	1572	3.13	53383	1 6 C		
0.72	1908.45	1947	2.53	53383	1 8 C		
0.65	2106.88	2144	2.31	53383	2 0 C		
0.61	2250.46	2291	2.15	53383	2 2 C		
0.55	2484.44	2523	1.96	53383	2 5 C		
0.50	2720.42	2759	1.80	53383	2 8 C		
0.41	3333.96	3368	1.47	53383	3 2 C		
0.36	3774.96	3803	1.30	53383	3 6 C		

NOTE

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0.18 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
105	8.59	13	6.56	2857	C 0 3 2 1 8 . 0 _ M _ - _ _ . 1 8 C - -	15.5	71
78	11.61	17	5.36	2856	1 1 .		
68	13.20	20	4.85	2856	1 2 .		
60	14.95	22	4.45	2855	1 4 .		
55	16.36	22	4.32	2855	1 6 .		
47	19.12	29	3.71	2845	1 8 .		
44	20.61	31	3.52	2844	2 0 .		
41	22.11	29	3.53	2845	2 2 .		
36	25.14	33	3.22	2844	2 5 .		
32	28.48	37	2.96	2843	2 8 .		
27	33.71	50	2.48	2840	3 2 .		
25	36.43	46	2.49	2841	3 6 .		
23	39.26	50	2.36	2840	4 0 .		
20	45.50	67	2.06	2827	4 5 .		
17	53.31	77	1.86	2816	5 0 .		
16	56.19	71	1.84	2827	5 6 .		
14	64.21	80	1.68	2816	6 3 .		
12	74.55	107	1.39	2800	7 1 .		
11	82.83	118	1.26	2798	8 0 .		
10	86.67	105	1.41	2810	9 0 .		
8.9	101.54	122	1.21	2796	1 0 0		
6.3	142.00	168	0.89	2772	1 4 0		
5.7	157.78	185	0.80	2338	1 6 0		
8.5	105.36	148	1.01	2135	C 0 3 3 1 1 0 0 _ M _ - _ _ . 1 8 C - -	19.5	71
7.5	120.39	168	0.89	2772	1 1 8		
6.9	130.10	152	0.98	2782	1 3 2		
6.4	140.21	163	0.91	2772	1 5 0		
25	36.43	48	3.97	5286	C 0 4 2 1 3 6 . _ M _ - _ _ . 1 8 C - -	18.5	71
23	39.26	51	3.79	5286	4 0 .		
20	45.50	67	3.05	5285	4 5 .		
17	53.31	79	2.60	5284	5 0 .		
16	56.19	72	2.95	5285	5 6 .		
14	64.21	81	2.69	5283	6 3 .		
12	74.55	108	1.87	5281	7 1 .		
11	82.83	120	1.57	5278	8 0 .		
10	86.67	108	2.28	5280	9 0 .		
8.9	101.54	125	2.03	5278	1 0 0		
6.3	142.00	171	1.62	5273	1 4 0		
5.7	157.78	189	1.47	5263	1 6 0		
8.5	105.36	150	1.34	5276	C 0 4 3 1 1 0 0 _ M _ - _ _ . 1 8 C - -	21.5	71
7.5	120.39	170	1.17	5273	1 1 8		
6.9	130.10	156	1.76	5274	1 3 2		
6.4	140.21	167	1.66	5273	1 5 0		
5.5	162.50	227	0.87	5256	1 6 0		
4.5	200.68	235	1.18	5256	2 0 0		
3.9	229.32	266	1.04	5242	2 2 5		
12	73.37	109	3.64	7436	C 0 5 2 1 7 1 . _ M _ - _ _ . 1 8 C - -	21.5	71
11	82.67	123	3.23	7435	8 0 .		
9.1	98.57	126	3.81	7435	1 0 0		
8.3	109.07	161	2.41	7434	1 1 2		
7.3	124.00	181	2.09	7434	1 2 5		
6.3	142.00	177	2.71	7434	1 4 0		
5.6	160.00	198	2.43	7431	1 6 0		
4.3	211.11	258	1.86	6731	2 1 2		
3.8	240.00	291	1.66	7428	2 5 0		
8.7	103.90	152	2.59	7037	C 0 5 3 1 1 0 0 _ M _ - _ _ . 1 8 C - -	25.5	71
7.6	118.73	173	2.27	6984	1 1 8		
6.9	130.38	162	2.96	6984	1 3 2		
6.4	140.51	174	2.77	6984	1 5 0		
5.6	160.26	231	1.69	6731	1 6 0		
4.8	187.76	269	1.44	7427	1 8 0		
4.5	201.10	244	1.97	7430	2 0 0		
3.9	229.81	277	1.73	7427	2 2 5		
3.4	262.58	373	1.03	7420	2 6 5		
3.1	291.75	411	0.93	7418	2 8 0		
2.9	310.18	368	1.31	7423	3 1 5		
2.5	363.40	428	1.12	7094	3 6 0		
1.8	508.21	589	0.82	7393	5 0 0		
7.3	124.00	192	2.72	11852	C 0 6 2 1 1 2 5 _ M _ - _ _ . 1 8 C - -	34.5	71
5.7	156.67	206	3.71	11852	1 6 0		
4.2	214.00	275	2.78	11833	2 1 2		
3.8	240.00	307	2.49	11823	2 5 0		
5.3	169.81	259	2.95	11833	C 0 6 3 1 1 6 0 _ M _ - _ _ . 1 8 C - -	39.5	71
4.9	184.62	281	2.72	11823	1 8 0		
3.4	265.95	399	1.92	11702	2 6 5		
3.0	299.67	448	1.71	11680	2 8 0		
2.7	328.67	409	1.87	11704	3 1 5		
2.5	357.32	442	1.73	11704	3 6 0		
2.3	395.39	588	1.30	11556	4 0 0		
2.0	449.50	665	1.15	11515	4 5 0		
1.7	514.75	625	1.22	11561	5 0 0		

NOTE

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

0.18 kW

6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
1.6	580.00	700	1.09	11515	C 0 6 3 1 5 6 0 _ M _ - _ _ . 1 8 C - -	39.5	71
1.2	765.28	913	0.84	11400	8 0 0		
4.0	226.39	334	3.79	29180	C 0 7 3 1 2 2 5 _ M _ - _ _ . 1 8 C - -	86.5	71
3.6	249.94	392	3.41	29171	2 6 5		
3.3	273.68	428	3.12	29161	2 8 0		
2.8	319.95	468	2.71	29161	3 1 5		
2.6	341.61	499	2.54	29152	3 6 0		
2.4	373.83	580	2.31	29144	4 0 0		
2.1	419.25	648	2.07	29144	4 5 0		
1.8	499.88	717	1.76	29130	5 0 0		
1.6	547.35	782	1.61	29116	5 6 0		
1.2	747.66	1061	1.19	29080	8 0 0		
1.1	838.50	1185	1.06	29056	9 0 0		
0.89	1009.20	1536	0.87	28931	C 0 7 4 1 1 0 C _ M _ - _ _ . 1 8 C - -	90.5	71
0.82	1097.19	1667	0.80	28931	1 1 C		
1.6	547.09	852	3.19	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 1 8 C - -	143.5	71
1.4	636.31	989	2.74	41656	6 3 0		
1.3	711.92	1104	2.46	41656	7 1 0		
1.2	758.79	1177	2.31	41656	8 0 0		
1.0	899.27	1391	1.95	41656	9 0 0		
0.94	960.14	1484	1.83	41656	1 0 C		
0.83	1083.79	1669	1.70	41656	1 1 C		
0.76	1191.45	1833	1.48	41656	1 2 C		
0.64	1404.96	2152	1.26	41656	1 4 C		
0.59	1532.14	2335	1.40	41545	1 6 C		
0.47	1901.25	2887	1.13	41545	1 8 C		
0.43	2088.45	3162	1.06	41545	2 0 C		
0.40	2241.96	3394	0.97	41545	2 2 C		
0.37	2462.71	3716	0.90	41545	2 5 C		
0.33	2696.62	4061	0.83	41545	2 8 C		
1.2	774.48	1227	3.90	53383	C 0 9 4 1 8 0 0 _ M _ - _ _ . 1 8 C - -	211.5	71
0.98	917.87	1451	3.29	53383	9 0 0		
0.92	980.00	1547	3.09	53383	1 0 C		
0.83	1088.78	1713	2.81	53383	1 1 C		
0.74	1216.09	1912	2.50	53383	1 2 C		
0.63	1434.02	2246	2.13	53383	1 4 C		
0.59	1537.95	2391	2.06	53383	1 6 C		
0.47	1908.45	2957	1.67	53383	1 8 C		
0.43	2106.88	3258	1.52	53383	2 0 C		
0.40	2250.46	3476	1.42	53383	2 2 C		
0.36	2484.44	3830	1.29	53383	2 5 C		
0.33	2720.42	4185	1.18	53383	2 8 C		
0.27	3333.96	5102	0.97	53383	3 2 C		
0.24	3774.96	5746	0.86	53383	3 6 C		

0.25 kW

4 POLE

163	8.59	12	6.64	2856	C 0 3 2 1 8 . 0 _ M _ - _ _ . 2 5 A - -	15.5	71
121	11.61	16	5.37	2855	1 1 .		
106	13.20	18	4.90	2854	1 2 .		
94	14.95	20	4.48	2854	1 4 .		
86	16.36	20	4.29	2853	1 6 .		
73	19.12	26	3.76	2852	1 8 .		
68	20.61	28	3.56	2852	2 0 .		
63	22.11	26	3.51	2852	2 2 .		
56	25.14	30	3.21	2849	2 5 .		
49	28.48	34	2.95	2849	2 8 .		
42	33.71	45	2.49	2837	3 2 .		
38	36.43	42	2.49	2837	3 6 .		
36	39.26	46	2.37	2837	4 0 .		
31	45.50	60	2.00	2831	4 5 .		
26	53.31	70	1.79	2821	5 0 .		
25	56.19	64	1.85	2831	5 6 .		
22	64.21	73	1.69	2818	6 3 .		
19	74.55	97	1.47	2808	7 1 .		
17	82.83	107	1.36	2804	8 0 .		
16	86.67	97	1.43	2808	9 0 .		
14	101.54	112	1.27	2800	1 0 0		
12	114.33	146	0.88	2780	1 1 2		
10	142.00	153	0.97	2780	1 4 0		
8.9	157.78	169	0.88	2770	1 6 0		
13	105.36	133	1.12	2788	C 0 3 3 1 1 0 0 _ M _ - _ _ . 2 5 A - -	19.5	71
12	120.39	151	0.98	2780	1 1 8		
11	130.10	138	1.07	2790	1 3 2		
10	140.21	148	1.00	2780	1 5 0		

NOTE

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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
38	36.43	44	3.98	5286	C 0 4 2 1 3 6 . _ M _ - _ _ . 2 5 A - -	18.5	71
36	39.26	47	3.78	5286	4 0 .		
31	45.50	61	3.35	5285	4 5 .		
26	53.31	71	2.92	5281	5 0 .		
25	56.19	66	2.96	5283	5 6 .		
22	64.21	74	2.70	5281	6 3 .		
19	74.55	98	2.09	5277	7 1 .		
17	82.83	109	1.76	5277	8 0 .		
16	86.67	99	2.29	5284	9 0 .		
14	101.54	114	2.04	5279	1 0 0		
12	114.33	147	0.88	5269	1 1 2		
10	142.00	156	1.61	5269	1 4 0		
8.9	157.78	172	1.49	5264	1 6 0		
6.4	217.78	233	0.88	5250	2 1 2		
13	105.36	135	1.50	5271	C 0 4 3 1 1 0 0 _ M _ - _ _ . 2 5 A - -	21.5	71
12	120.39	154	1.31	5268	1 1 8		
11	130.10	142	1.68	5271	1 3 2		
10	140.21	152	1.61	5269	1 5 0		
8.6	162.50	206	0.97	5258	1 6 0		
7.4	190.38	239	0.83	5248	1 8 0		
7.0	200.68	213	1.29	5258	2 0 0		
6.1	229.32	243	1.14	5250	2 2 5		
19	73.37	99	3.83	7437	C 0 5 2 1 7 1 . _ M _ - _ _ . 2 5 A - -	21.5	71
17	82.67	111	3.45	7436	8 0 .		
13	109.07	145	2.70	7435	1 1 2		
11	124.00	164	2.34	7436	1 2 5		
10	142.00	162	2.97	7436	1 4 0		
8.8	160.00	181	2.65	7431	1 6 0		
6.6	211.11	235	2.04	7425	2 1 2		
5.8	240.00	265	1.82	7434	2 5 0		
13	103.90	137	2.91	7433	C 0 5 3 1 1 0 0 _ M _ - _ _ . 2 5 A - -	25.5	71
12	118.73	156	2.55	7430	1 1 8		
11	130.38	148	3.25	7432	1 3 2		
10	140.51	159	3.03	7430	1 5 0		
8.7	160.26	209	1.89	7427	1 6 0		
7.5	187.76	243	1.61	7427	1 8 0		
7.0	201.10	222	2.16	7430	2 0 0		
6.1	229.81	253	1.90	7427	2 2 5		
5.3	262.58	335	1.16	7424	2 6 5		
4.8	291.75	372	1.04	7419	2 8 0		
4.5	310.18	335	1.44	7424	3 1 5		
3.9	363.40	390	1.24	7414	3 6 0		
2.8	508.21	535	0.90	7400	5 0 0		
11	124.00	173	3.05	11838	C 0 6 2 1 1 2 5 _ M _ - _ _ . 2 5 A - -	34.5	71
6.5	214.00	252	3.03	11817	2 1 2		
5.8	240.00	280	2.73	11796	2 5 0		
8.2	169.81	234	3.27	11817	C 0 6 3 1 1 6 0 _ M _ - _ _ . 2 5 A - -	39.5	71
7.6	184.62	253	3.02	11796	1 8 0		
5.3	265.95	360	2.12	11748	2 6 5		
4.7	299.67	404	1.89	11644	2 8 0		
4.3	328.67	374	2.05	11744	3 1 5		
3.9	357.32	404	1.89	11744	3 6 0		
3.5	395.39	530	1.44	11592	4 0 0		
3.1	449.50	599	1.28	11500	4 5 0		
2.7	514.75	569	1.34	11600	5 0 0		
2.4	580.00	637	1.20	11600	5 6 0		
5.6	249.94	354	3.78	29152	C 0 7 3 1 2 6 5 _ M _ - _ _ . 2 5 A - -	86.5	71
5.1	273.68	386	3.46	29143	2 8 0		
4.4	319.95	422	3.01	28013	3 1 5		
4.1	341.61	449	2.82	26909	3 6 0		
3.7	373.83	522	2.56	26449	4 0 0		
3.3	419.25	584	2.29	29117	4 5 0		
2.8	499.88	651	1.95	29096	5 0 0		
2.6	547.35	710	1.79	29096	5 6 0		
1.9	747.66	953	1.32	29048	8 0 0		
1.7	838.50	1066	1.18	29018	9 0 0		
1.4	1009.20	1375	0.97	28931	C 0 7 4 1 1 0 C _ M _ - _ _ . 2 5 A - -	90.5	71
1.3	1097.19	1494	0.90	28931	1 1 C		
1.2	1213.28	1632	0.82	28931	1 2 C		
2.6	547.09	760	3.57	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 2 5 A - -	143.5	71
2.2	636.31	883	3.07	41656	6 3 0		
2.0	711.92	986	2.75	41656	7 1 0		
1.8	758.79	1052	2.58	41656	8 0 0		
1.6	899.27	1245	2.18	41656	9 0 0		
1.5	960.14	1328	2.04	41656	1 0 C		
1.3	1083.79	1493	1.90	41656	1 1 C		
1.2	1191.45	1643	1.65	41656	1 2 C		
0.99	1404.96	1932	1.41	41656	1 4 C		

NOTE

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

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
0.91	1532.14	2085	1.57	41545	C 0 8 4 1 1 6 C _ M _ - _ _ . 2 5 A - -	143.5	71
0.74	1901.25	2582	1.27	41545	1 8 C		
0.67	2088.45	2826	1.19	41545	2 0 C		
0.62	2241.96	3039	1.08	41545	2 2 C		
0.57	2462.71	3326	1.01	41545	2 5 C		
0.52	2696.62	3637	0.92	41545	2 8 C		
1.5	917.87	1298	3.68	53383	C 0 9 4 1 9 0 0 _ M _ - _ _ . 2 5 A - -	211.5	71
1.4	980.00	1385	3.45	53383	1 0 C		
1.3	1088.78	1533	3.14	53383	1 1 C		
1.2	1216.09	1713	2.79	53383	1 2 C		
0.98	1434.02	2015	2.37	53383	1 4 C		
0.91	1537.95	2137	2.30	53383	1 6 C		
0.73	1908.45	2646	1.86	53383	1 8 C		
0.66	2106.88	2914	1.70	53383	2 0 C		
0.62	2250.46	3113	1.58	53383	2 2 C		
0.56	2484.44	3429	1.44	53383	2 5 C		
0.51	2720.42	3749	1.32	53383	2 8 C		
0.42	3333.96	4578	1.08	53383	3 2 C		
0.37	3774.96	5168	0.95	53383	3 6 C		

0.25 kW

6 POLE

105	8.59	18	4.72	2854	C 0 3 2 1 8 . 0 _ M _ - _ _ . 2 5 C - -	15.5	71
78	11.61	24	3.86	2852	1 1 .		
68	13.20	28	3.49	2851	1 2 .		
60	14.95	31	3.20	2850	1 4 .		
55	16.36	30	3.11	2850	1 6 .		
47	19.12	40	2.67	2839	1 8 .		
44	20.61	43	2.54	2838	2 0 .		
41	22.11	40	2.54	2839	2 2 .		
36	25.14	46	2.32	2837	2 5 .		
32	28.48	52	2.13	2835	2 8 .		
27	33.71	70	1.79	2829	3 2 .		
25	36.43	65	1.79	2831	3 6 .		
23	39.26	70	1.70	2829	4 0 .		
20	45.50	93	1.48	2812	4 5 .		
17	53.31	108	1.34	2799	5 0 .		
16	56.19	98	1.33	2812	5 6 .		
14	64.21	111	1.21	2799	6 3 .		
12	74.55	149	1.00	2778	7 1 .		
11	82.83	164	0.9	2773	8 0 .		
10	86.67	147	1.01	2788	9 0 .		
8.9	101.54	170	0.87	2770	1 0 0		
36	25.14	47	3.70	5285	C 0 4 2 1 2 5 . _ M _ - _ _ . 2 5 C - -	18.5	71
32	28.48	53	3.40	5284	2 8 .		
27	33.71	70	2.95	5281	3 2 .		
25	36.43	67	2.86	5283	3 6 .		
23	39.26	71	2.73	5282	4 0 .		
20	45.50	94	2.19	5279	4 5 .		
17	53.31	109	1.88	5277	5 0 .		
16	56.19	100	2.13	5279	5 6 .		
14	64.21	113	1.94	5275	6 3 .		
12	74.55	150	1.35	5271	7 1 .		
11	82.83	166	1.13	5265	8 0 .		
10	86.67	150	1.64	5269	9 0 .		
8.9	101.54	174	1.46	5264	1 0 0		
6.3	142.00	238	1.17	5253	1 4 0		
5.7	157.78	262	1.06	5243	1 6 0		
8.5	105.36	208	0.96	5259	C 0 4 3 1 1 0 0 _ M _ - _ _ . 2 5 C - -	21.5	71
7.5	120.39	237	0.84	5253	1 1 8		
6.9	130.10	216	1.26	5256	1 3 2		
6.4	140.21	233	1.19	5253	1 5 0		
4.5	200.68	326	0.85	5228	2 0 0		
12	73.37	152	2.62	7432	C 0 5 2 1 7 1 . _ M _ - _ _ . 2 5 C - -	21.5	71
11	82.67	170	2.33	7430	8 0 .		
10	90.67	162	2.97	7430	9 0 .		
9.1	98.57	175	2.74	7429	1 0 0		
8.3	109.07	223	1.73	7427	1 1 2		
7.3	124.00	252	1.51	7427	1 2 5		
6.3	142.00	246	1.95	7427	1 4 0		
5.6	160.00	275	1.75	7421	1 6 0		
4.3	211.11	359	1.34	5904	2 1 2		
3.8	240.00	404	1.19	7414	2 5 0		
8.7	103.90	211	1.87	6567	C 0 5 3 1 1 0 0 _ M _ - _ _ . 2 5 C - -	25.5	71
7.6	118.73	240	1.63	6453	1 1 8		
6.9	130.38	225	2.13	6453	1 3 2		
6.4	140.51	242	1.99	6453	1 5 0		

NOTE

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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
5.6	160.26	320	1.22	5904	C 0 5 3 1 1 6 0 _ M _ - _ _ . 2 5 C - -	25.5	71
4.8	187.76	374	1.03	7412	1 8 0		
4.5	201.10	340	1.42	7418	2 0 0		
3.9	229.81	385	1.25	7412	2 2 5		
2.9	310.18	512	0.94	7403	3 1 5		
2.5	363.40	595	0.81	6691	3 6 0		
11	80.94	176	3.9	11834	C 0 6 2 1 8 0 . _ M _ - _ _ . 2 5 C - -	34.5	71
8.1	110.57	239	2.99	11807	1 1 2		
7.3	124.00	266	1.96	11796	1 2 5		
6.3	143.08	263	2.91	11817	1 4 0		
5.7	156.67	286	2.67	11796	1 6 0		
4.2	214.00	383	2.00	11755	2 1 2		
3.8	240.00	426	1.8	11734	2 5 0		
5.3	169.81	360	2.13	11755	C 0 6 3 1 1 6 0 _ M _ - _ _ . 2 5 C - -	39.5	71
4.9	184.62	390	1.96	11734	1 8 0		
3.4	265.95	555	1.38	11588	2 6 5		
3.0	299.67	622	1.23	11540	2 8 0		
2.7	328.67	568	1.35	11592	3 1 5		
2.5	357.32	615	1.25	11592	3 6 0		
2.3	395.39	817	0.94	11388	4 0 0		
2.0	449.50	924	0.83	11300	4 5 0		
1.7	514.75	869	0.88	11400	5 0 0		
5.6	159.98	353	3.79	29152	C 0 7 3 1 1 6 0 _ M _ - _ _ . 2 5 C - -	86.5	71
5.3	170.81	377	3.55	29152	1 8 0		
4.6	194.65	404	3.14	29143	2 0 0		
4.0	226.39	465	2.73	29158	2 2 5		
3.6	249.94	545	2.46	29138	2 6 5		
3.3	273.68	595	2.25	29117	2 8 0		
2.8	319.95	651	1.95	29117	3 1 5		
2.6	341.61	693	1.83	29096	3 6 0		
2.4	373.83	806	1.66	29079	4 0 0		
2.1	419.25	900	1.49	29079	4 5 0		
1.8	499.88	997	1.26	29048	5 0 0		
1.6	547.35	1087	1.16	29018	5 6 0		
1.2	747.66	1473	0.86	28940	8 0 0		
1.6	547.09	1183	2.29	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 2 5 C - -	143.5	71
1.4	636.31	1374	1.98	41656	6 3 0		
1.3	711.92	1534	1.77	41656	7 1 0		
1.2	758.79	1635	1.66	41656	8 0 0		
1.0	899.27	1933	1.40	41656	9 0 0		
0.94	960.14	2061	1.32	41656	1 0 C		
0.83	1083.79	2318	1.23	41656	1 1 C		
0.76	1191.45	2546	1.07	41656	1 2 C		
0.64	1404.96	2989	0.91	41656	1 4 C		
0.59	1532.14	3243	1.01	41545	1 6 C		
0.47	1901.25	4010	0.82	41545	1 8 C		
1.6	558.41	1233	3.88	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 2 5 C - -	211.5	71
1.4	649.47	1432	3.34	53383	6 3 0		
1.2	726.65	1598	2.99	53383	7 1 0		
1.2	774.48	1704	2.80	53383	8 0 0		
0.98	917.87	2015	2.37	53383	9 0 0		
0.92	980.00	2149	2.22	53383	1 0 C		
0.83	1088.78	2379	2.02	53383	1 1 C		
0.74	1216.09	2656	1.80	53383	1 2 C		
0.63	1434.02	3120	1.53	53383	1 4 C		
0.59	1537.95	3321	1.48	53383	1 6 C		
0.47	1908.45	4108	1.20	53383	1 8 C		
0.43	2106.88	4525	1.09	53383	2 0 C		
0.40	2250.46	4828	1.02	53383	2 2 C		
0.36	2484.44	5319	0.93	53383	2 5 C		
0.33	2720.42	5813	0.85	53383	2 8 C		

0.37 kW

4 POLE

163	8.59	18	4.49	2852	C 0 3 2 1 8 . 0 _ M _ - _ _ . 3 7 A - -	15.5	71
121	11.61	24	3.63	2850	1 1 .		
106	13.20	27	3.31	2849	1 2 .		
94	14.95	30	3.03	2849	1 4 .		
86	16.36	30	2.90	2847	1 6 .		
73	19.12	39	2.54	2844	1 8 .		
68	20.61	41	2.41	2844	2 0 .		
63	22.11	39	2.37	2844	2 2 .		
56	25.14	45	2.17	2840	2 5 .		
49	28.48	50	2.00	2840	2 8 .		
42	33.71	67	1.68	2826	3 2 .		
38	36.43	63	1.68	2826	3 6 .		

NOTE

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0.37 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
36	39.26	68	1.60	2826	C 0 3 2 1 4 0 . _ M _ - _ _ . 3 7 A - -	15.5	71
31	45.50	90	1.35	2815	4 5 .		
26	53.31	104	1.21	2805	5 0 .		
25	56.19	96	1.25	2815	5 6 .		
22	64.21	108	1.14	2799	6 3 .		
19	74.55	143	0.99	2780	7 1 .		
17	82.83	159	0.92	2780	8 0 .		
16	86.67	143	0.97	2780	9 0 .		
63	22.11	41	3.78	5286	C 0 4 2 1 2 2 . _ M _ - _ _ . 3 7 A - -	18.5	71
56	25.14	46	3.47	5284	2 5 .		
49	28.48	52	3.21	5284	2 8 .		
42	33.71	68	2.82	5280	3 2 .		
38	36.43	65	2.69	5282	3 6 .		
36	39.26	70	2.55	5282	4 0 .		
31	45.50	91	2.26	5282	4 5 .		
26	53.31	105	1.97	5274	5 0 .		
25	56.19	98	2.00	5278	5 6 .		
22	64.21	110	1.82	5274	6 3 .		
19	74.55	145	1.41	5266	7 1 .		
17	82.83	161	1.19	5266	8 0 .		
16	86.67	146	1.54	5280	9 0 .		
14	101.54	169	1.38	5270	1 0 0		
10	142.00	232	1.09	5250	1 4 0		
8.9	157.78	255	1.00	5240	1 6 0		
13	105.36	200	1.02	5255	C 0 4 3 1 1 0 0 _ M _ - _ _ . 3 7 A - -	21.5	71
12	120.39	228	0.89	5249	1 1 8		
11	130.10	210	1.14	5255	1 3 2		
10	140.21	225	1.09	5250	1 5 0		
7.0	200.68	316	0.87	5230	2 0 0		
19	73.37	147	2.59	7434	C 0 5 2 1 7 1 . _ M _ - _ _ . 3 7 A - -	21.5	71
17	82.67	165	2.33	7432	8 0 .		
15	90.67	159	3.00	7432	9 0 .		
14	98.57	171	2.82	7429	1 0 0		
13	109.07	215	1.82	7432	1 1 2		
11	124.00	243	1.58	7434	1 2 5		
10	142.00	240	2.00	7434	1 4 0		
8.8	160.00	268	1.79	7424	1 6 0		
6.6	211.11	349	1.38	7412	2 1 2		
5.8	240.00	392	1.23	7430	2 5 0		
13	103.90	204	1.96	7427	C 0 5 3 1 1 0 0 _ M _ - _ _ . 3 7 A - -	25.5	71
12	118.73	232	1.72	7422	1 1 8		
11	130.38	219	2.19	7424	1 3 2		
10	140.51	235	2.05	7422	1 5 0		
8.7	160.26	309	1.28	7416	1 6 0		
7.5	187.76	360	1.09	7416	1 8 0		
7.0	201.10	329	1.46	7422	2 0 0		
6.1	229.81	374	1.29	7416	2 2 5		
4.5	310.18	496	0.97	7410	3 1 5		
3.9	363.40	577	0.84	7390	3 6 0		
17	80.94	171	3.55	11909	C 0 6 2 1 8 0 . _ M _ - _ _ . 3 7 A - -	34.5	71
13	110.57	230	2.74	11797	1 1 2		
11	124.00	257	2.06	11780	1 2 5		
10	143.08	257	2.97	11780	1 4 0		
8.9	156.67	279	2.74	11780	1 6 0		
6.5	214.00	373	2.05	11741	2 1 2		
5.8	240.00	415	1.84	11701	2 5 0		
8.2	169.81	346	2.21	11741	C 0 6 3 1 1 6 0 _ M _ - _ _ . 3 7 A -	39.5	71
7.6	184.62	375	2.04	11701	1 8 0		
5.3	265.95	533	1.44	11609	2 6 5		
4.7	299.67	599	1.28	11500	2 8 0		
4.3	328.67	553	1.38	11600	3 1 5		
3.9	357.32	599	1.28	11600	3 6 0		
3.5	395.39	784	0.98	11400	4 0 0		
8.8	159.98	340	3.94	29139	C 0 7 3 1 1 6 0 _ M _ - _ _ . 3 7 A - -	86.5	71
8.2	170.81	361	3.71	29145	1 8 0		
7.2	194.65	389	3.05	29145	2 0 0		
6.2	226.39	449	2.71	29127	2 2 5		
5.6	249.94	523	2.56	29109	2 6 5		
5.1	273.68	572	2.34	29091	2 8 0		
4.4	319.95	624	2.03	26917	3 1 5		
4.1	341.61	665	1.91	24796	3 6 0		
3.7	373.83	773	1.73	23910	4 0 0		
3.3	419.25	864	1.55	29041	4 5 0		
2.8	499.88	963	1.32	29001	5 0 0		
2.6	547.35	1051	1.21	29001	5 6 0		
1.9	747.66	1411	0.89	28909	8 0 0		
2.6	547.09	1125	2.41	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 3 7 A - -	143.5	71
2.2	636.31	1307	2.08	41656	6 3 0		
2.0	711.92	1460	1.86	41656	7 1 0		
1.8	758.79	1557	1.74	41656	8 0 0		

NOTE

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0.37 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
1.6	899.27	1842	1.47	41656	C 0 8 4 1 9 0 0 _ M _ - _ _ . 3 7 A - -	143.5	71
1.5	960.14	1966	1.38	41656	1 0 C		
1.3	1083.79	2210	1.29	41656	1 1 C		
1.2	1191.45	2432	1.12	41656	1 2 C		
0.99	1404.96	2860	0.95	41656	1 4 C		
0.91	1532.14	3086	1.06	41545	1 6 C		
0.74	1901.25	3822	0.86	41545	1 8 C		
0.67	2088.45	4183	0.80	41545	2 0 C		
2.2	649.47	1363	3.51	53383	C 0 9 4 1 6 3 0 _ M _ - _ _ . 3 7 A - -	211.5	71
1.9	726.65	1522	3.14	53383	7 1 0		
1.8	774.48	1624	2.94	53383	8 0 0		
1.5	917.87	1921	2.49	53383	9 0 0		
1.4	980.00	2050	2.33	53383	1 0 C		
1.3	1088.78	2268	2.12	53383	1 1 C		
1.2	1216.09	2536	1.88	53383	1 2 C		
0.98	1434.02	2983	1.60	53383	1 4 C		
0.91	1537.95	3163	1.56	53383	1 6 C		
0.73	1908.45	3916	1.26	53383	1 8 C		
0.66	2106.88	4313	1.15	53383	2 0 C		
0.62	2250.46	4608	1.07	53383	2 2 C		
0.56	2484.44	5075	0.98	53383	2 5 C		
0.51	2720.42	5549	0.89	53383	2 8 C		

0.37 kW

6 POLE

107	8.59	27	3.26	2849	C 0 3 2 1 8 . 0 _ M _ - _ _ . 3 7 C - -	19.5	80A
79	11.61	36	2.67	2845	1 1 .		
70	13.20	41	2.41	2843	1 2 .		
62	14.95	46	2.21	2841	1 4 .		
56	16.36	44	2.15	2842	1 6 .		
48	19.12	58	1.84	2829	1 8 .		
45	20.61	62	1.75	2827	2 0 .		
42	22.11	59	1.75	2829	2 2 .		
37	25.14	66	1.60	2826	2 5 .		
32	28.48	75	1.47	2822	2 8 .		
27	33.71	101	1.23	2810	3 2 .		
25	36.43	94	1.24	2814	3 6 .		
23	39.26	102	1.18	2810	4 0 .		
20	45.50	134	1.02	2787	4 5 .		
17	53.31	156	0.92	2771	5 0 .		
16	56.19	142	0.92	2787	5 6 .		
14	64.21	161	0.84	2771	6 3 .		
62	14.95	47	3.68	5283	C 0 4 2 1 1 4 . _ M _ - _ _ . 3 7 C - -	22.5	80A
56	16.36	45	3.44	5283	1 6 .		
48	19.12	59	3.06	5282	1 8 .		
45	20.61	63	2.93	5280	2 0 .		
42	22.11	60	2.80	5280	2 2 .		
37	25.14	68	2.55	5280	2 5 .		
32	28.48	77	2.35	5279	2 8 .		
27	33.71	102	2.04	5273	3 2 .		
25	36.43	97	1.98	5277	3 6 .		
23	39.26	104	1.88	5274	4 0 .		
20	45.50	136	1.52	5270	4 5 .		
17	53.31	159	1.30	5266	5 0 .		
16	56.19	145	1.47	5270	5 6 .		
14	64.21	164	1.34	5262	6 3 .		
12	74.55	218	0.93	5255	7 1 .		
11	86.67	217	1.13	5250	9 0 .		
9.1	101.54	252	1.01	5240	1 0 0		
6.5	142.00	345	0.81	5220	1 4 0		
7.1	130.10	313	0.87	5226	C 0 4 3 1 1 3 2 _ M _ - _ _ . 3 7 C - -	25.5	80A
6.6	140.21	337	0.82	5220	1 5 0		
28	32.55	101	3.81	7440	C 0 5 2 1 3 2 . _ M _ - _ _ . 3 7 C - -	25.5	80A
23	40.74	111	3.76	7440	4 0 .		
20	46.84	143	2.82	7440	4 5 .		
18	50.93	156	2.59	7440	5 0 .		
17	55.45	149	3.00	7440	5 6 .		
15	63.00	167	2.75	7440	6 3 .		
13	73.37	220	1.81	7424	7 1 .		
11	82.67	247	1.61	7422	8 0 .		
10	90.67	235	2.05	7422	9 0 .		
9.3	98.57	254	1.90	7419	1 0 0		
8.4	109.07	324	1.20	7416	1 1 2		
7.4	124.00	365	1.04	7416	1 2 5		
6.5	142.00	357	1.35	7416	1 4 0		
5.8	160.00	399	1.21	7404	1 6 0		
4.4	211.11	519	0.93	4487	2 1 2		
3.8	240.00	585	0.82	7390	2 5 0		

NOTE

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

0.37 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
8.9	103.90	306	1.29	5761	C 0 5 3 1 1 0 0 _ M _ - _ _ . 3 7 C - -	29.5	80A
7.7	118.73	348	1.13	5542	1 1 8		
7.1	130.38	327	1.47	5542	1 3 2		
6.5	140.51	350	1.38	5542	1 5 0		
5.7	160.26	464	0.84	4487	1 6 0		
4.6	201.10	492	0.98	7399	2 0 0		
4.0	229.81	558	0.86	7387	2 2 5		
12	73.92	236	3.24	11791	C 0 6 2 1 7 1 . _ M _ - _ _ . 3 7 C - -	37.5	80A
11	80.94	256	2.69	11773	8 0 .		
10	91.58	252	3.03	11873	9 0 .		
9.4	97.78	268	2.85	11773	1 0 0		
8.3	110.57	346	2.06	11721	1 1 2		
7.4	124.00	386	1.35	11701	1 2 5		
6.4	143.08	381	2.01	11741	1 4 0		
5.9	156.67	415	1.84	11701	1 6 0		
4.3	214.00	554	1.38	11622	2 1 2		
3.8	240.00	617	1.24	11582	2 5 0		
8.9	103.86	324	2.36	11800	C 0 6 3 1 1 0 0 _ M _ - _ _ . 3 7 C - -	43.5	80A
7.8	117.99	366	2.09	11700	1 1 8		
7.1	130.00	345	2.22	11800	1 3 2		
6.2	147.69	389	1.97	11700	1 5 0		
5.4	169.81	521	1.47	11622	1 6 0		
5.0	184.62	565	1.35	11582	1 8 0		
4.6	201.02	519	1.47	11600	2 0 0		
4.0	228.38	585	1.31	11600	2 2 5		
3.5	265.95	803	0.95	11393	2 6 5		
3.1	299.67	901	0.85	11300	2 8 0		
2.8	328.67	823	0.93	11400	3 1 5		
2.6	357.32	890	0.86	11400	3 6 0		
9.2	99.79	312	3.65	29200	C 0 7 2 1 1 0 0 _ M _ - _ _ . 3 7 C - -	80.5	80A
8.8	104.32	339	3.24	29200	1 1 2		
7.9	115.92	375	2.93	29200	1 2 5		
6.7	138.00	425	2.82	29200	1 4 0		
6.1	151.12	461	2.64	29200	1 6 0		
4.4	208.65	627	2.03	29200	2 1 2		
4.0	231.83	693	1.83	29200	2 5 0		
8.1	113.20	366	3.65	29139	C 0 7 3 1 1 1 8 _ M _ - _ _ . 3 7 C - -	89.5	80A
7.4	125.04	379	3.11	29200	1 3 2		
6.5	141.75	432	2.80	29200	1 5 0		
5.8	159.98	512	2.62	29109	1 6 0		
5.4	170.81	546	2.45	29109	1 8 0		
4.7	194.65	585	2.17	29091	2 0 0		
4.1	226.39	673	1.89	29120	2 2 5		
3.7	249.94	789	1.70	29080	2 6 5		
3.4	273.68	862	1.55	29041	2 8 0		
2.9	319.95	942	1.35	29041	3 1 5		
2.7	341.61	1004	1.26	29001	3 6 0		
2.5	373.83	1167	1.15	28967	4 0 0		
2.2	419.25	1303	1.03	28967	4 5 0		
1.8	499.88	1443	0.87	28909	5 0 0		
1.7	547.35	1574	0.80	28851	5 6 0		
3.9	235.77	712	3.68	41900	C 0 8 2 1 2 5 0 _ M _ - _ _ . 3 7 C - -	130.5	80A
1.7	547.09	1713	1.58	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 3 7 C - -	146.5	80A
1.4	636.31	1990	1.36	41656	6 3 0		
1.3	711.92	2221	1.22	41656	7 1 0		
1.2	758.79	2368	1.15	41656	8 0 0		
1.0	899.27	2798	0.97	41656	9 0 0		
0.96	960.14	2984	0.91	41656	1 0 C		
0.85	1083.79	3357	0.85	41656	1 1 C		
1.6	558.41	1785	2.68	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 3 7 C - -	214.5	80A
1.4	649.47	2073	2.31	53383	6 3 0		
1.3	726.65	2314	2.07	53383	7 1 0		
1.2	774.48	2468	1.94	53383	8 0 0		
1.0	917.87	2917	1.64	53383	9 0 0		
0.94	980.00	3112	1.54	53383	1 0 C		
0.84	1088.78	3445	1.40	53383	1 1 C		
0.76	1216.09	3846	1.24	53383	1 2 C		
0.64	1434.02	4518	1.06	53383	1 4 C		
0.60	1537.95	4809	1.02	53383	1 6 C		
0.48	1908.45	5947	0.83	53383	1 8 C		

NOTE

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

0.55 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
165	8.59	26	3.06	2847	C 0 3 2 1 8 . 0 _ M _ - _ _ . 5 5 A - -	19.5	80A
122	11.61	35	2.47	2844	1 1 .		
108	13.20	39	2.26	2841	1 2 .		
95	14.95	45	2.07	2841	1 4 .		
87	16.36	44	1.98	2838	1 6 .		
74	19.12	57	1.73	2833	1 8 .		
69	20.61	61	1.64	2833	2 0 .		
64	22.11	58	1.62	2833	2 2 .		
56	25.14	66	1.48	2825	2 5 .		
50	28.48	74	1.36	2825	2 8 .		
42	33.71	98	1.15	2809	3 2 .		
39	36.43	93	1.15	2809	3 6 .		
36	39.26	100	1.09	2809	4 0 .		
31	45.50	132	0.92	2790	4 5 .		
27	53.31	153	0.83	2780	5 0 .		
25	56.19	140	0.85	2790	5 6 .		
108	13.20	40	3.76	5285	C 0 4 2 1 1 2 . _ M _ - _ _ . 5 5 A - -	22.5	80A
95	14.95	46	3.45	5283	1 4 .		
87	16.36	45	3.17	5283	1 6 .		
74	19.12	58	2.88	5283	1 8 .		
69	20.61	62	2.74	5283	2 0 .		
64	22.11	60	2.58	5283	2 2 .		
56	25.14	67	2.37	5280	2 5 .		
50	28.48	76	2.19	5280	2 8 .		
42	33.71	99	1.92	5274	3 2 .		
39	36.43	95	1.83	5276	3 6 .		
36	39.26	102	1.74	5276	4 0 .		
31	45.50	133	1.54	5276	4 5 .		
27	53.31	155	1.35	5262	5 0 .		
25	56.19	143	1.36	5269	5 6 .		
22	64.21	162	1.24	5262	6 3 .		
19	74.55	213	0.97	5250	7 1 .		
17	82.83	236	0.81	5250	8 0 .		
44	32.55	99	3.44	7440	C 0 5 2 1 3 2 . _ M _ - _ _ . 5 5 A - -	25.5	80A
40	35.86	98	3.85	7440	3 6 .		
35	40.74	110	3.51	7440	4 0 .		
30	46.84	141	2.71	7440	4 5 .		
28	50.93	152	2.56	7440	5 0 .		
26	55.45	147	2.81	7440	5 6 .		
23	63.00	165	2.58	7440	6 3 .		
19	73.37	215	1.76	7431	7 1 .		
17	82.67	241	1.59	7426	8 0 .		
16	90.67	233	2.05	7426	9 0 .		
14	98.57	250	1.92	7422	1 0 0		
13	109.07	316	1.24	7426	1 1 2		
11	124.00	357	1.08	7430	1 2 5		
10	142.00	352	1.37	7430	1 4 0		
8.9	160.00	394	1.22	7412	1 6 0		
6.7	211.11	511	0.94	7392	2 1 2		
14	103.90	299	1.34	7418	C 0 5 3 1 1 0 0 _ M _ - _ _ . 5 5 A - -	29.5	80A
12	118.73	340	1.17	7409	1 1 8		
11	130.38	321	1.50	7413	1 3 2		
10	140.51	345	1.40	7409	1 5 0		
8.9	160.26	453	0.87	7399	1 6 0		
7.1	201.10	483	1.00	7410	2 0 0		
6.2	229.81	549	0.88	7400	2 2 5		
22	64.80	180	3.99	11896	C 0 6 2 1 6 3 . _ M _ - _ _ . 5 5 A - -	37.5	80A
19	73.92	230	3.31	11844	7 1 .		
18	80.94	251	2.42	11844	8 0 .		
16	91.58	250	3.06	11844	9 0 .		
15	97.78	265	2.88	11844	1 0 0		
13	110.57	338	1.87	11724	1 1 2		
11	124.00	376	1.41	11695	1 2 5		
10	143.08	377	2.03	11695	1 4 0		
9.1	156.67	409	1.87	11695	1 6 0		
6.6	214.00	548	1.40	11626	2 1 2		
5.9	240.00	609	1.26	11558	2 5 0		
14	103.86	316	2.42	11800	C 0 6 3 1 1 0 0 _ M _ - _ _ . 5 5 A - -	43.5	80A
12	117.99	358	2.14	11700	1 1 8		
11	130.00	341	2.24	11800	1 3 2		
10	147.69	384	1.99	11700	1 5 0		
8.4	169.81	508	1.51	11626	1 6 0		
7.7	184.62	550	1.39	11558	1 8 0		
7.1	201.02	512	1.50	11600	2 0 0		
6.2	228.38	577	1.33	11600	2 2 5		
5.3	265.95	782	0.98	11400	2 6 5		
19	75.56	243	3.85	29200	C 0 7 2 1 8 0 . _ M _ - _ _ . 5 5 A - -	80.5	80A
16	88.26	271	3.79	29200	9 0 .		
14	99.79	303	3.45	29200	1 0 0		
14	104.32	330	2.94	29200	1 1 2		
12	115.92	366	2.64	29200	1 2 5		
10	138.00	413	2.71	29200	1 4 0		
9.4	151.12	454	2.51	29200	1 6 0		

NOTE

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0.55 kW
4 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
6.8	208.65	612	1.96	29200	C 0 7 2 1 2 12 _ M _ - _ _ . 5 5 A - -	80.5	80A
6.1	231.83	678	1.80	29200	2 5 0		
13	113.20	356	3.76	29125	C 0 7 3 1 1 1 8 _ M _ - _ _ . 5 5 A - -	89.5	80A
11	125.04	372	2.96	29200	1 3 2		
10	141.75	416	2.69	29200	1 5 0		
8.9	159.98	498	2.69	29096	1 6 0		
8.3	170.81	529	2.53	29106	1 8 0		
7.3	194.65	571	2.08	29106	2 0 0		
6.3	226.39	658	1.85	29075	2 2 5		
5.7	249.94	767	1.74	29044	2 6 5		
5.2	273.68	838	1.60	29013	2 8 0		
4.4	319.95	915	1.39	25273	3 1 5		
4.2	341.61	975	1.30	21625	3 6 0		
3.8	373.83	1133	1.18	20101	4 0 0		
3.4	419.25	1266	1.06	28926	4 5 0		
2.8	499.88	1412	0.90	28858	5 0 0		
2.6	547.35	1540	0.82	28858	5 6 0		
6.0	235.77	699	3.61	41900	C 0 8 2 1 2 5 0 _ M _ - _ _ . 5 5 A - -	130.5	80A
2.6	547.09	1649	1.65	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 5 5 A - -	146.5	80A
2.2	636.31	1916	1.42	41656	6 3 0		
2.0	711.92	2140	1.27	41656	7 1 0		
1.9	758.79	2282	1.19	41656	8 0 0		
1.6	899.27	2700	1.01	41656	9 0 0		
1.5	960.14	2881	0.94	41656	1 0 C		
1.3	1083.79	3239	0.88	41656	1 1 C		
2.5	558.41	1719	2.78	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 5 5 A - -	214.5	80A
2.2	649.47	1998	2.39	53383	6 3 0		
2.0	726.65	2231	2.14	53383	7 1 0		
1.8	774.48	2380	2.01	53383	8 0 0		
1.5	917.87	2816	1.70	53383	9 0 0		
1.4	980.00	3004	1.59	53383	1 0 C		
1.3	1088.78	3325	1.45	53383	1 1 C		
1.2	1216.09	3717	1.29	53383	1 2 C		
0.99	1434.02	4371	1.09	53383	1 4 C		
0.92	1537.95	4636	1.06	53383	1 6 C		
0.74	1908.45	5740	0.86	53383	1 8 C		

0.55 kW
6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
107	8.59	40	2.20	2841	C 0 3 2 1 8 . 0 _ M _ - _ _ . 5 5 C - -	21	80B
79	11.61	53	1.79	2835	1 1 .		
70	13.20	61	1.62	2831	1 2 .		
62	14.95	68	1.49	2828	1 4 .		
56	16.36	66	1.44	2829	1 6 .		
48	19.12	87	1.24	2814	1 8 .		
45	20.61	93	1.18	2810	2 0 .		
42	22.11	88	1.18	2814	2 2 .		
37	25.14	99	1.08	2809	2 5 .		
32	28.48	112	0.99	2802	2 8 .		
27	33.71	150	0.83	2781	3 2 .		
25	36.43	140	0.83	2788	3 6 .		
107	8.59	41	3.64	5285	C 0 4 2 1 8 . 0 _ M _ - _ _ . 5 5 C - -	24	80B
79	11.61	55	2.96	5281	1 1 .		
70	13.20	61	2.70	5279	1 2 .		
62	14.95	69	2.47	5279	1 4 .		
56	16.36	68	2.32	5279	1 6 .		
48	19.12	89	2.06	5277	1 8 .		
45	20.61	94	1.97	5274	2 0.		
42	22.11	90	1.88	5274	2 2 .		
37	25.14	101	1.72	5274	2 5 .		
32	28.48	114	1.58	5271	2 8 .		
27	33.71	152	1.37	5261	3 2 .		
25	36.43	144	1.33	5268	3 6 .		
23	39.26	154	1.27	5263	4 0 .		
20	45.50	203	1.02	5255	4 5 .		
17	53.31	236	0.87	5249	5 0 .		
16	56.19	215	0.99	5255	5 6 .		
14	64.21	244	0.90	5242	6 3 .		
50	18.53	87	3.69	7439	C 0 5 2 1 1 8 . _ M _ - _ _ . 5 5 C - -	27	80B
44	21.05	98	3.42	7438	2 0 .		
41	22.56	95	3.89	7439	2 2 .		
37	24.86	104	3.62	7438	2 5 .		
33	28.24	118	3.29	7437	2 8 .		
28	32.55	151	2.56	7435	3 2 .		
26	35.86	147	2.77	7435	3 6 .		

NOTE

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0.55 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
23	40.74	166	2.53	7434	C 0 5 2 1 4 0 . _ M _ - _ _ . 5 5 C - -	27	80B
20	46.84	213	1.90	7432	4 5 .		
18	50.93	232	1.74	7430	5 0 .		
17	55.45	222	2.02	7432	5 6 .		
15	63.00	249	1.85	7430	6 3 .		
13	73.37	328	1.22	7413	7 1 .		
11	82.67	367	1.08	7409	8 0 .		
10	90.67	349	1.38	7409	9 0 .		
9.3	98.57	377	1.28	7404	1 0 0		
8.4	109.07	481	0.81	7399	1 1 2		
6.5	142.00	530	0.91	7400	1 4 0		
5.8	160.00	593	0.81	7378	1 6 0		
8.9	103.90	455	0.87	4552	C 0 5 3 1 1 0 0 _ M _ - _ _ . 5 5 C - -	31	80B
7.1	130.38	486	0.99	4175	1 3 2		
6.5	140.51	520	0.93	4175	1 5 0		
19	47.32	228	3.35	11865	C 0 6 2 1 4 5 . _ M _ - _ _ . 5 5 C - -	39	80B
18	50.52	242	3.15	11855	5 0 .		
17	55.71	236	3.19	11855	5 6 .		
14	64.80	271	2.82	11834	6 3 .		
12	73.92	351	2.18	11713	7 1 .		
11	80.94	380	1.81	11681	8 0 .		
10	91.58	375	2.04	11781	9 0 .		
9.4	97.78	399	1.92	11681	1 0 0		
8.3	110.57	515	1.39	11592	1 1 2		
7.4	124.00	573	0.91	11558	1 2 5		
6.4	143.08	567	1.35	11626	1 4 0		
5.9	156.67	617	1.24	11558	1 6 0		
4.3	214.00	824	0.93	11422	2 1 2		
3.8	240.00	917	0.83	11353	2 5 0		
8.9	103.86	482	1.59	11676	C 0 6 3 1 1 0 0 _ M _ - _ _ . 5 5 C - -	45	80B
7.8	117.99	545	1.40	11576	1 1 8		
7.1	130.00	513	1.49	11676	1 3 2		
6.2	147.69	578	1.32	11576	1 5 0		
5.4	169.81	775	0.99	11422	1 6 0		
5.0	184.62	840	0.91	11353	1 8 0		
4.6	201.02	772	0.99	11457	2 0 0		
4.0	228.38	870	0.88	11410	2 2 5		
18	49.90	248	3.85	29180	C 0 7 2 1 5 0 . _ M _ - _ _ . 5 5 C - -	82	80B
17	53.62	254	3.97	29179	5 6 .		
15	61.62	292	3.55	29179	6 3 .		
13	69.00	338	3.10	29172	7 1 .		
12	75.56	370	2.86	29165	8 0 .		
10	88.26	410	2.70	29168	9 0 .		
9.2	99.79	464	2.46	29168	1 0 0		
8.8	104.32	505	2.18	29168	1 1 2		
7.9	115.92	558	1.97	29152	1 2 5		
6.7	138.00	631	1.90	29150	1 4 0		
6.1	151.12	686	1.78	29150	1 6 0		
4.4	208.65	932	1.36	29105	2 1 2		
4.0	231.83	1030	1.23	29057	2 5 0		
9.5	97.33	471	2.84	29117	C 0 7 3 1 1 0 0 _ M _ - _ _ . 5 5 C - -	91	80B
8.1	113.20	545	2.46	29096	1 1 8		
7.4	125.04	564	2.09	29150	1 3 2		
6.5	141.75	642	1.88	29136	1 5 0		
5.8	159.98	761	1.76	29044	1 6 0		
5.4	170.81	812	1.65	29044	1 8 0		
4.7	194.65	870	1.46	29013	2 0 0		
4.1	226.39	1001	1.27	29063	2 2 5		
3.7	249.94	1174	1.14	28995	2 6 5		
3.4	273.68	1281	1.05	28926	2 8 0		
2.9	319.95	1401	0.91	28926	3 1 5		
2.7	341.61	1493	0.85	28858	3 6 0		
6.6	139.29	644	3.85	41880	C 0 8 2 1 1 4 0 _ M _ - _ _ . 5 5 C - -	132	80B
6.0	153.00	705	3.57	41880	1 6 0		
4.5	204.75	931	2.82	41868	2 1 2		
3.9	235.77	1058	2.47	41868	2 5 0		
1.7	547.09	2547	1.07	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 5 5 C - -	148	80B
1.4	636.31	2958	0.92	41656	6 3 0		
1.3	711.92	3301	0.82	41656	7 1 0		
1.6	558.41	2654	1.80	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 5 5 C - -	216	80B
1.4	649.47	3082	1.55	53383	6 3 0		
1.3	726.65	3441	1.39	53383	7 1 0		
1.2	774.48	3668	1.30	53383	8 0 0		
1.0	917.87	4337	1.10	53383	9 0 0		
0.94	980.00	4626	1.03	53383	1 0 C		
0.84	1088.78	5121	0.94	53383	1 1 C		
0.76	1216.09	5717	0.84	53383	1 2 C		
1.9	495.31	2376	3.57	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ . 5 5 C - -	334	80B
1.7	544.84	2611	3.24	87299	5 6 0		

NOTE

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

0.55 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
1.5	626.07	2997	2.83	87299	C 1 0 4 1 6 3 0 _ M _ - _ _ . 5 5 C - -	334	80B
1.3	709.95	3391	2.50	87299	7 1 0		
1.2	783.06	3741	2.27	87299	8 0 0		
1.0	896.77	4277	1.98	87299	9 0 0		
0.91	1013.93	4827	1.76	87299	1 0 C		
0.82	1126.71	5342	1.55	87375	1 1 C		
0.78	1175.54	5582	1.52	87299	1 2 C		
0.66	1402.11	6635	1.28	87299	1 4 C		
0.57	1606.71	7534	1.14	87299	1 6 C		
0.49	1862.80	8716	0.98	87299	1 8 C		
0.43	2146.36	9991	0.86	87299	2 0 C		
0.41	2221.83	10366	0.83	87299	2 2 C		

0.75 kW

4 POLE

165	8.59	36	2.24	2841	C 0 3 2 1 8 . 0 _ M _ - _ _ . 7 5 A - -	19.5	80A
122	11.61	48	1.81	2837	1 1 .		
107	13.20	54	1.65	2832	1 2 .		
95	14.95	62	1.51	2832	1 4 .		
86	16.36	60	1.44	2827	1 6 .		
74	19.12	78	1.27	2821	1 8 .		
69	20.61	84	1.20	2821	2 0 .		
64	22.11	80	1.18	2821	2 2 .		
56	25.14	90	1.08	2810	2 5 .		
50	28.48	101	1.00	2810	2 8.		
42	33.71	134	0.84	2790	3 2 .		
39	36.43	127	0.84	2790	3 6 .		
165	8.59	37	3.70	5287	C 0 4 2 1 8 . 0 _ M _ - _ _ . 7 5 A - -	22.5	80A
122	11.61	49	3.01	5283	1 1 .		
107	13.20	56	2.75	5283	1 2 .		
95	14.95	62	2.52	5280	1 4 .		
86	16.36	62	2.32	5280	1 6 .		
74	19.12	79	2.11	5280	1 8 .		
69	20.61	85	2.00	5280	2 0 .		
64	22.11	82	1.89	5280	2 2 .		
56	25.14	93	1.73	5276	2 5 .		
50	28.48	104	1.60	5276	2 8 .		
42	33.71	136	1.41	5267	3 2 .		
39	36.43	131	1.34	5270	3 6 .		
36	39.26	140	1.27	5270	4 0 .		
31	45.50	182	1.13	5270	4 5 .		
27	53.31	212	0.98	5250	5 0 .		
25	56.19	196	1.00	5260	5 6 .		
22	64.21	222	0.91	5250	6 3 .		
76	18.53	79	3.57	7440	C 0 5 2 1 1 8 . _ M _ - _ _ . 7 5 A - -	25.5	80A
67	21.05	89	3.30	7439	2 0 .		
63	22.56	87	3.94	7439	2 2 .		
57	24.86	95	3.68	7439	2 5 .		
50	28.24	107	3.37	7438	2 8 .		
43	32.55	135	2.51	7437	3 2 .		
39	35.86	134	2.81	7437	3 6 .		
35	40.74	151	2.56	7437	4 0 .		
30	46.84	193	1.98	7437	4 5 .		
28	50.93	208	1.87	7435	5 0 .		
26	55.45	201	2.06	7435	5 6 .		
22	63.00	226	1.89	7433	6 3 .		
19	73.37	295	1.29	7427	7 1 .		
17	82.67	330	1.16	7420	8 0 .		
16	90.67	319	1.50	7420	9 0 .		
14	98.57	343	1.41	7414	1 0 0		
13	109.07	432	0.91	7420	1 1 2		
8.8	160.00	539	0.89	7400	1 6 0		
14	103.90	409	0.98	7407	C 0 5 3 1 1 0 0 _ M _ - _ _ . 7 5 A - -	29.5	80A
12	118.73	465	0.86	7395	1 1 8		
11	130.38	440	1.09	7401	1 3 2		
10	140.51	472	1.02	7395	1 5 0		
30	47.32	205	3.38	11868	C 0 6 2 1 4 5 . _ M _ - _ _ . 7 5 A - -	37.5	80A
28	50.52	218	3.24	11848	5 0 .		
25	55.71	215	3.24	11878	5 6 .		
22	64.80	247	2.91	11848	6 3 .		
19	73.92	314	2.42	11771	7 1 .		
17	80.94	344	1.77	11771	8 0 .		
15	91.58	342	2.24	11771	9 0 .		
14	97.78	363	2.11	11771	1 0 0		
13	110.57	462	1.37	11642	1 1 2		
11	124.00	515	1.03	11600	1 2 5		
10	143.08	516	1.48	11600	1 4 0		

NOTE

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

0.75 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
9	156.67	560	1.37	11600	C 0 6 2 1 1 6 0 _ M _ - _ _ . 7 5 A - -	37.5	80A
6.6	214.00	749	1.02	11500	2 1 2		
5.9	240.00	833	0.92	11400	2 5 0		
14	103.86	432	1.77	11690	C 0 6 3 1 1 0 0 _ M _ - _ _ . 7 5 A - -	43.5	80A
12	117.99	490	1.56	11590	1 1 8		
11	130.00	467	1.64	11690	1 3 2		
10	147.69	525	1.46	11627	1 5 0		
8.3	169.81	695	1.10	11500	1 6 0		
7.7	184.62	753	1.02	11400	1 8 0		
7.0	201.02	700	1.09	11500	2 0 0		
6.2	228.38	790	0.97	11400	2 2 5		
28	49.90	222	3.96	29187	C 0 7 2 1 5 0 . _ M _ - _ _ . 7 5 A - -	80.5	80A
23	61.62	262	3.70	29182	6 3 .		
21	69.00	304	3.04	29182	7 1 .		
19	75.56	333	2.81	29176	8 0 .		
16	88.26	371	2.77	29175	9 0 .		
14	99.79	415	2.52	29175	1 0 0		
14	104.32	452	2.15	29175	1 1 2		
12	115.92	502	1.93	29163	1 2 5		
10	138.00	566	1.98	29157	1 4 0		
9.4	151.12	621	1.83	29157	1 6 0		
6.8	208.65	838	1.43	29127	2 1 2		
6.1	231.83	928	1.31	29090	2 5 0		
15	97.33	422	3.17	29134	C 0 7 3 1 1 0 0 _ M _ - _ _ . 7 5 A - -	89.5	80A
13	113.20	488	2.75	29090	1 1 8		
11	125.04	509	2.16	29159	1 3 2		
10	141.75	570	1.96	29163	1 5 0		
8.8	159.98	682	1.96	29048	1 6 0		
8.3	170.81	725	1.85	29063	1 8 0		
7.3	194.65	781	1.52	29063	2 0 0		
6.3	226.39	901	1.35	29017	2 2 5		
5.7	249.94	1050	1.28	28971	2 6 5		
5.2	273.68	1148	1.17	28926	2 8 0		
4.4	319.95	1252	1.01	23447	3 1 5		
4.1	341.61	1335	0.95	18101	3 6 0		
3.8	373.83	1550	0.86	15869	4 0 0		
10	139.29	578	3.99	41882	C 0 8 2 1 1 4 0 _ M _ - _ _ . 7 5 A - -	130.5	80A
9.2	153.00	633	3.71	41883	1 6 0		
6.9	204.75	836	2.95	41867	2 1 2		
6.0	235.77	957	2.64	41875	2 5 0		
2.6	547.09	2256	1.20	41656	C 0 8 4 1 5 6 0 _ M _ - _ _ . 7 5 A - -	146.5	80A
2.2	636.31	2622	1.04	41656	6 3 0		
2.0	711.92	2929	0.93	41656	7 1 0		
1.9	758.79	3123	0.87	41656	8 0 0		
2.5	558.41	2353	2.03	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 7 5 A - -	214.5	80A
2.2	649.47	2734	1.75	53383	6 3 0		
1.9	726.65	3054	1.57	53383	7 1 0		
1.8	774.48	3257	1.47	53383	8 0 0		
1.5	917.87	3853	1.24	53383	9 0 0		
1.4	980.00	4111	1.16	53383	1 0 C		
1.3	1088.78	4550	1.06	53383	1 1 C		
1.2	1216.09	5087	0.94	53383	1 2 C		
2.6	544.84	2314	3.66	87299	C 1 0 4 1 5 6 0 _ M _ - _ _ . 7 5 A - -	332.5	80A
2.3	626.07	2657	3.19	87299	6 3 0		
2.0	709.95	3008	2.82	87299	7 1 0		
1.8	783.06	3319	2.55	87299	8 0 0		
1.6	896.77	3797	2.23	87299	9 0 0		
1.4	1013.93	4288	1.98	87299	1 0 C		
1.3	1126.71	4744	1.75	87375	1 1 C		
1.2	1175.54	4962	1.71	87299	1 2 C		
1.0	1402.11	5904	1.44	87299	1 4 C		
0.88	1606.71	6682	1.28	87299	1 6 C		
0.76	1862.80	7737	1.11	87299	1 8 C		
0.66	2146.36	8864	0.97	87299	2 0 C		
0.64	2221.83	9211	0.93	87299	2 2 C		
0.55	2560.05	10553	0.81	87299	2 5 C		

NOTE

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

0.75 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
107	8.59	55	1.61	2832	C 0 3 2 1 8 . 0 _ M _ - _ _ . 7 5 C - -	24.5	90S
79	11.61	73	1.32	2823	1 1 .		
70	13.20	83	1.19	2818	1 2 .		
62	14.95	93	1.09	2814	1 4 .		
56	16.36	90	1.06	2815	1 6 .		
48	19.12	118	0.91	2798	C 0 3 2 1 1 8 . _ M _ - _ _ . 7 5 C - -	24.5	90S
45	20.61	127	0.86	2792	2 0 .		
42	22.11	120	0.87	2798	2 2 .		
107	8.59	56	2.67	5283	C 0 4 2 1 8 . 0 _ M _ - _ _ . 7 5 C - -	26.5	90S
79	11.61	75	2.17	5277	1 1 .		
70	13.20	84	1.98	5274	1 2 .		
62	14.95	95	1.81	5274	1 4 .		
56	16.36	92	1.70	5274	1 6 .		
48	19.12	121	1.51	5271	1 8 .		
45	20.61	129	1.44	5267	2 0 .		
42	22.11	123	1.38	5267	2 2 .		
37	25.14	138	1.26	5267	2 5 .		
32	28.48	156	1.16	5262	2 8 .		
27	33.71	207	1.01	5248	3 2 .		
25	36.43	196	0.97	5257	3 6 .		
23	39.26	210	0.93	5251	4 0 .		
79	11.66	76	3.60	7440	C 0 5 2 1 1 1 . _ M _ - _ _ . 7 5 C - -	30.5	90S
72	12.85	84	3.40	7440	1 2 .		
63	14.59	95	3.14	7440	1 4 .		
57	16.09	95	3.65	7440	1 6 .		
50	18.53	119	2.71	7437	1 8 .		
44	21.05	134	2.50	7435	2 0 .		
41	22.56	130	2.85	7437	2 2 .		
37	24.86	142	2.66	7435	2 5 .		
33	28.24	161	2.41	7433	2 8 .		
28	32.55	206	1.88	7429	3 2 .		
26	35.86	201	2.03	7429	3 6 .		
23	40.74	226	1.85	7427	4 0 .		
20	46.84	291	1.39	7423	4 5 .		
18	50.93	316	1.28	7419	5 0 .		
17	55.45	302	1.48	7423	5 6 .		
15	63.00	340	1.35	7419	6 3 .		
13	73.37	447	0.89	7401	7 1 .		
10	90.67	476	1.01	7395	9 0 .		
9.3	98.57	515	0.94	7388	1 0 0		
33	28.18	170	3.82	11937	C 0 6 2 1 2 8 . _ M _ - _ _ . 7 5 C - -	42.5	90S
27	33.48	223	3.17	11816	3 2 .		
26	35.79	213	3.22	11826	3 6 .		
23	40.57	239	2.94	11813	4 0 .		
19	47.32	312	2.45	11803	4 5 .		
18	50.52	331	2.31	11787	5 0 .		
17	55.71	322	2.34	11787	5 6 .		
14	64.80	370	2.07	11757	6 3 .		
12	73.92	479	1.60	11626	7 1 .		
11	80.94	519	1.33	11580	8 0 .		
10	91.58	512	1.49	11680	9 0 .		
9.4	97.78	544	1.41	11580	1 0 0		
8.3	110.57	703	1.02	11450	1 1 2		
6.4	143.08	773	0.99	11500	1 4 0		
5.9	156.67	841	0.91	11400	1 6 0		
8.9	103.86	658	1.16	11539	C 0 6 3 1 1 0 0 _ M _ - _ _ . 7 5 C - -	47.5	90S
7.8	117.99	743	1.03	11439	1 1 8		
7.1	130.00	700	1.09	11539	1 3 2		
6.2	147.69	788	0.97	11439	1 5 0		
21	44.13	300	3.14	29168	C 0 7 2 1 4 5 . _ M _ - _ _ . 7 5 C - -	84.5	90S
18	49.90	339	2.82	29158	5 0 .		
17	53.62	346	2.91	29156	5 6 .		
15	61.62	398	2.61	29156	6 3 .		
13	69.00	461	2.27	29142	7 1 .		
12	75.56	505	2.10	29127	8 0 .		
10	88.26	560	1.98	29132	9 0 .		
9.2	99.79	632	1.80	29132	1 0 0		
8.8	104.32	688	1.60	29132	1 1 2		
7.9	115.92	761	1.44	29099	1 2 5		
6.7	138.00	861	1.39	29095	1 4 0		
6.1	151.12	936	1.30	29095	1 6 0		
4.4	208.65	1270	1.00	29000	2 1 2		
4.0	231.83	1405	0.90	28900	2 5 0		

NOTE

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

0.75 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
9.5	97.33	643	2.08	29078	C 0 7 3 1 1 0 0 _ M _ - _ _ . 7 5 C - -	93.5	90S
8.1	113.20	743	1.8	29048	1 1 8		
7.4	125.04	769	1.53	29096	1 3 2		
6.5	141.75	876	1.38	29065	1 5 0		
5.8	159.98	1038	1.29	28971	1 6 0		
5.4	170.81	1107	1.21	28971	1 8 0		
4.7	194.65	1187	1.07	28926	2 0 0		
4.1	226.39	1365	0.93	29000	2 2 5		
3.7	249.94	1601	0.84	28900	2 6 5		
9.3	98.53	631	3.71	41871	C 0 8 2 1 1 0 0 _ M _ - _ _ . 7 5 C - -	134.5	90S
7.8	117.89	782	3.72	41879	1 2 5		
6.6	139.29	878	2.82	41858	1 4 0		
6.0	153.00	962	2.62	41858	1 6 0		
4.5	204.75	1270	2.07	41832	C 0 8 2 1 2 1 2 _ M _ - _ _ . 7 5 C - -	134.5	90S
3.9	235.77	1443	1.81	41832	2 5 0		
3.7	249.73	1526	3.65	53800	C 0 9 2 1 2 5 0 _ M _ - _ _ . 7 5 C - -	197.5	90S
1.6	558.41	3619	1.32	53383	C 0 9 4 1 5 6 0 _ M _ - _ _ . 7 5 C - -	218.5	90S
1.4	649.47	4203	1.14	53383	6 3 0		
1.3	726.65	4692	1.02	53383	7 1 0		
1.2	774.48	5003	0.96	53383	8 0 0		
1.0	917.87	5914	0.81	53383	9 0 0		
1.9	495.31	3240	2.62	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ . 7 5 C - -	336.5	90S
1.7	544.84	3561	2.38	87299	5 6 0		
1.5	626.07	4087	2.07	87299	6 3 0		
1.3	709.95	4625	1.83	87299	7 1 0		
1.2	783.06	5101	1.66	87299	8 0 0		
1.0	896.77	5832	1.45	87299	9 0 0		
0.91	1013.93	6582	1.29	87299	1 0 C		
0.82	1126.71	7285	1.14	87375	1 1 C		
0.78	1175.54	7612	1.11	87299	1 2 C		
0.66	1402.11	9048	0.94	87299	1 4 C		
0.57	1606.71	10274	0.83	87299	1 6 C		

1.1 kW

4 POLE

164	8.59	53	1.52	2831	C 0 3 2 1 8 . 0 _ M _ - _ _ 1 . 1 A - -	24.5	90S
121	11.61	71	1.23	2824	1 1 .		
107	13.20	80	1.12	2817	1 2 .		
94	14.95	91	1.03	2817	1 4 .		
86	16.36	88	0.98	2810	1 6 .		
74	19.12	115	0.86	2800	1 8 .		
68	20.61	123	0.82	2800	2 0 .		
64	22.11	117	0.80	2800	2 2 .		
164	8.59	54	2.51	5286	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 . 1 A - -	26.5	90S
121	11.61	72	2.04	5279	1 1 .		
107	13.20	82	1.87	5280	1 2 .		
94	14.95	92	1.71	5275	1 4 .		
86	16.36	91	1.57	5275	1 6 .		
74	19.12	117	1.43	5275	1 8 .		
68	20.61	125	1.36	5275	2 0 .		
64	22.11	121	1.28	5275	2 2 .		
56	25.14	136	1.18	5268	2 5 .		
50	28.48	153	1.09	5268	2 8 .		
42	33.71	201	0.95	5254	3 2 .		
39	36.43	193	0.91	5260	3 6 .		
36	39.26	206	0.87	5260	4 0 .		
170	8.31	53	3.88	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 1 . 1 A - -	30.5	90S
121	11.66	74	3.20	7440	1 1 .		
110	12.85	81	3.02	7440	1 2 .		
97	14.59	92	2.80	7438	1 4 .		
88	16.09	93	3.41	7440	1 6 .		
76	18.53	116	2.42	7440	1 8 .		
67	21.05	131	2.25	7437	2 0 .		
62	22.56	128	2.68	7437	2 2 .		
57	24.86	140	2.50	7437	2 5 .		
50	28.24	158	2.29	7435	2 8 .		
43	32.55	199	1.71	7433	3 2 .		
39	35.86	197	1.91	7433	3 6 .		
35	40.74	222	1.74	7433	4 0 .		
30	46.84	284	1.34	7434	4 5 .		
28	50.93	307	1.27	7428	5 0 .		
25	55.45	297	1.40	7428	5 6 .		
22	63.00	333	1.28	7422	6 3 .		
19	73.37	434	0.88	7420	7 1 .		
16	90.67	470	1.02	7410	9 0 .		
14	98.57	504	0.95	7400	1 0 0		

NOTE

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

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
67	20.96	137	3.86	11944	C 0 6 2 1 2 0 . _ M _ - _ _ 1 . 1 A - -	42.5	90S
56	25.11	149	3.97	11944	2 5 .		
50	28.18	167	3.65	11936	2 8 .		
42	33.48	216	2.88	11820	3 2 .		
39	35.79	208	3.05	11836	3 6 .		
35	40.57	235	2.77	11832	4 0 .		
30	47.32	302	2.30	11795	4 5 .		
28	50.52	322	2.20	11764	5 0 .		
25	55.71	317	2.20	11811	5 6 .		
22	64.80	364	1.98	11764	6 3 .		
19	73.92	463	1.64	11644	7 1 .		
17	80.94	506	1.20	11644	8 0 .		
15	91.58	503	1.52	11644	C 0 6 2 1 9 0 . _ M _ - _ _ 1 . 1 A - -	42.5	90S
14	97.78	534	1.43	11644	1 0 0		
13	110.57	680	0.93	11500	1 1 2		
14	103.86	637	1.20	11500	C 0 6 3 1 1 0 0 _ M _ - _ _ 1 . 1 A - -	47.5	90S
12	117.99	722	1.06	11400	1 1 8		
11	130.00	687	1.11	11500	1 3 2		
10	147.69	773	0.99	11500	1 5 0		
46	30.81	205	3.86	29049	C 0 7 2 1 3 2 . _ M _ - _ _ 1 . 1 A - -	84.5	90S
32	44.13	290	3.00	29166	4 5 .		
28	49.90	327	2.69	29166	5 0 .		
26	53.62	338	2.79	29168	5 6 .		
23	61.62	386	2.51	29152	6 3 .		
20	69.00	448	2.07	29152	7 1 .		
19	75.56	490	1.91	29136	8 0 .		
16	88.26	547	1.88	29133	9 0 .		
14	99.79	612	1.71	29133	1 0 0		
14	104.32	665	1.46	29133	1 1 2		
12	115.92	739	1.31	29100	1 2 5		
10	138.00	833	1.34	29084	1 4 0		
9.3	151.12	914	1.25	29084	1 6 0		
6.8	208.65	1234	0.97	29000	2 1 2		
6.1	231.83	1366	0.89	28900	2 5 0		
14	97.33	621	2.16	29097	C 0 7 3 1 1 0 0 _ M _ - _ _ 1 . 1 A - -	93.5	90S
12	113.20	718	1.87	29029	1 1 8		
11	125.04	749	1.47	29087	1 3 2		
10	141.75	839	1.33	29100	1 5 0		
16	87.29	546	3.88	41877	C 0 8 2 1 9 0 . _ M _ - _ _ 1 . 1 A - -	134.5	90S
14	98.53	612	3.53	41884	1 0 0		
12	117.89	756	3.77	41868	1 2 5		
10	139.29	851	2.71	41852	1 4 0		
9.2	153.00	932	2.52	41855	1 6 0		
6.9	204.75	1230	2.01	41810	2 1 2		
6.0	235.77	1409	1.79	41833	2 5 0		
9.0	156.45	952	2.85	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 1 . 1 A - -	150.5	90S
8.0	176.60	1069	2.66	41656	1 8 0		
6.4	219.96	1338	2.03	41656	2 1 2		
5.7	248.29	1503	1.89	41656	2 5 0		
5.1	276.74	1683	1.61	41656	2 8 0		
4.5	312.37	1891	1.50	41656	3 1 5		
4.0	351.44	2137	1.27	41656	3 6 0		
3.5	398.40	2421	1.12	41656	4 0 0		
3.1	449.70	2720	1.05	41656	4 5 0		
3.0	475.14	2886	0.94	41656	5 0 0		
2.6	547.09	3321	0.82	41656	5 6 0		
5.6	249.73	1485	3.76	53800	C 0 9 2 1 2 5 0 _ M _ - _ _ 1 . 1 A - -	197.5	90S
6.3	224.51	1396	3.42	53383	C 0 9 4 1 2 1 2 _ M _ - _ _ 1 . 1 A - -	218.5	90S
5.7	249.43	1544	3.12	53383	2 5 0		
5.0	282.46	1756	2.72	53383	2 8 0		
4.5	313.81	1942	2.48	53383	3 1 5		
3.9	358.71	2229	2.14	53383	3 6 0		
3.5	406.64	2526	1.89	53383	4 0 0		
3.1	451.77	2794	1.72	53383	4 5 0		
2.9	484.97	3010	1.59	53383	5 0 0		
2.5	558.41	3464	1.38	53383	5 6 0		
2.2	649.47	4025	1.19	53383	6 3 0		
1.9	726.65	4495	1.06	53383	7 1 0		
1.8	774.48	4794	1.00	53383	8 0 0		
1.5	917.87	5672	0.84	53383	9 0 0		

NOTE

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

1.1 kW
4 POLE

1.1 kW
6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
2.8	495.31	3098	2.74	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 1 . 1 A - -	336.5	90S
2.6	544.84	3407	2.49	87299	5 6 0		
2.3	626.07	3912	2.17	87299	6 3 0		
2.0	709.95	4428	1.91	87299	7 1 0		
1.8	783.06	4885	1.73	87299	8 0 0		
1.6	896.77	5589	1.52	87299	9 0 0		
1.4	1013.93	6311	1.34	87299	1 0 C		
1.3	1126.71	6983	1.19	87375	1 1 C		
1.2	1175.54	7304	1.16	87299	1 2 C		
1.0	1402.11	8690	0.98	87299	1 4 C		
0.88	1606.71	9836	0.87	87299	1 6 C		
108	8.59	80	1.10	2817	C 0 3 2 1 8 . 0 _ M _ - _ _ 1 . 1 C - -	25.5	90L
80	11.61	106	0.90	2803	1 1 .		
70	13.20	121	0.82	2796	1 2 .		
108	8.59	81	1.83	5280	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 . 1 C - -	27.5	90L
80	11.61	109	1.49	5271	1 1 .		
70	13.20	123	1.36	5266	1 2 .		
62	14.95	139	1.24	5266	1 4 .		
57	16.36	135	1.17	5266	1 6 .		
48	19.12	177	1.03	5261	1 8 .		
45	20.61	188	0.99	5254	2 0 .		
42	22.11	179	0.95	5254	2 2 .		
37	25.14	202	0.86	5254	2 5 .		
111	8.31	80	3.03	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 1 . 1 C - -	31.5	90L
79	11.66	112	2.47	7440	1 1 .		
72	12.85	123	2.33	7440	1 2 .		
63	14.59	139	2.15	7440	1 4 .		
58	16.09	138	2.51	7440	1 6 .		
50	18.53	175	1.86	7436	1 8 .		
44	21.05	196	1.72	7432	2 0 .		
41	22.56	190	1.95	7436	2 2 .		
37	24.86	208	1.82	7432	2 5 .		
33	28.24	234	1.66	7428	2 8 .		
28	32.55	300	1.29	7420	3 2 .		
26	35.86	293	1.39	7420	3 6 .		
23	40.74	330	1.27	7416	4 0 .		
20	46.84	425	0.95	7407	4 5 .		
18	50.93	462	0.88	7401	5 0 .		
17	55.45	441	1.02	7407	5 6 .		
15	63.00	496	0.93	7401	6 3 .		
71	12.97	130	3.99	11928	C 0 6 2 1 1 2 . _ M _ - _ _ 1 . 1 C - -	43.5	90L
64	14.56	145	3.71	11914	1 4 .		
50	18.49	183	3.20	11900	1 8 .		
44	20.96	207	2.95	11886	2 0 .		
41	22.40	200	3.11	11900	2 2 .		
37	25.11	223	2.85	11886	2 5 .		
33	28.18	248	2.62	11879	2 8 .		
28	33.48	326	2.17	11739	3 2 .		
26	35.79	310	2.21	11759	3 6 .		
23	40.57	349	2.01	11733	4 0 .		
20	47.32	455	1.68	11693	4 5 .		
18	50.52	483	1.59	11670	5 0 .		
17	55.71	470	1.60	11670	5 6 .		
14	64.80	539	1.42	11623	6 3 .		
13	73.92	699	1.09	11473	7 1 .		
11	80.94	757	0.91	11402	8 0 .		
10	91.58	747	1.02	11502	9 0 .		
9.5	97.78	794	0.96	11402	1 0 0		
30	30.81	309	2.78	29157	C 0 7 2 1 3 2 . _ M _ - _ _ 1 . 1 C - -	85.5	90L
21	44.13	439	2.15	29139	4 5 .		
19	49.90	494	1.94	29119	5 0 .		
17	53.62	505	2.00	29116	5 6 .		
15	61.62	582	1.79	29116	6 3 .		
13	69.00	673	1.56	29088	7 1 .		
12	75.56	737	1.44	29061	8 0 .		
10	88.26	817	1.36	29070	9 0 .		
9.3	99.79	923	1.24	29070	1 0 0		
8.9	104.32	1004	1.09	29070	1 1 2		
8.0	115.92	1111	0.99	29006	1 2 5		
6.7	138.00	1256	0.95	29000	1 4 0		
6.1	151.12	1365	0.89	29000	1 6 0		
10	97.33	938	1.43	29011	C 0 7 3 1 1 0 0 _ M _ - _ _ 1 . 1 C - -	94.5	90L
8.2	113.20	1084	1.24	28964	1 1 8		
7.4	125.04	1122	1.05	29000	1 3 2		
6.5	141.75	1279	0.95	28941	1 5 0		

NOTE

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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
12	76.50	754	3.77	41843	C 0 8 2 1 8 0 . _ M _ - _ _ 1 . 1 C - -	135.5	90L
11	87.29	819	2.79	41859	9 0 .		
9.4	98.53	921	2.54	41844	1 0 0		
9.0	102.38	1000	3.04	41844	1 1 2		
7.8	117.89	1141	2.55	41860	1 2 5		
6.6	139.29	1281	1.94	41820	1 4 0		
6.0	153.00	1403	1.80	41820	1 6 0		
5.9	156.45	1458	1.86	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 1 . 1 C - -	151.5	90L
5.2	176.60	1637	1.74	41656	1 8 0		
4.2	219.96	2048	1.33	41656	2 1 2		
3.7	248.29	2301	1.24	41656	2 5 0		
3.3	276.74	2574	1.05	41656	2 8 0		
3.0	312.37	2892	0.98	41656	3 1 5		
2.6	351.44	3265	0.83	41656	3 6 0		
7.7	119.38	1171	3.97	53755	C 0 9 2 1 1 2 5 _ M _ - _ _ 1 . 1 C - -	198.5	90L
5.7	161.44	1474	3.78	53741	C 0 9 2 1 1 6 0 _ M _ - _ _ 1 . 1 C - -	198.5	90L
4.2	222.08	1990	2.80	53713	2 1 2		
3.7	249.73	2227	2.51	53703	2 5 0		
5.8	159.68	1518	3.15	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 1 . 1 C - -	219.5	90L
5.2	177.41	1679	2.87	53383	1 8 0		
4.1	224.51	2132	2.24	53383	2 1 2		
3.7	249.43	2360	2.04	53383	2 5 0		
3.3	282.46	2681	1.78	53383	2 8 0		
2.9	313.81	2967	1.62	53383	3 1 5		
2.6	358.71	3401	1.41	53383	3 6 0		
2.3	406.64	3853	1.24	53383	4 0 0		
2.0	451.77	4264	1.13	53383	4 5 0		
1.9	484.97	4590	1.04	53383	5 0 0		
1.7	558.41	5279	0.91	53383	5 6 0		
1.9	495.31	4726	1.79	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 1 . 1 C - -	337.5	90L
1.7	544.84	5195	1.63	87299	5 6 0		
1.5	626.07	5963	1.42	87299	6 3 0		
1.3	709.95	6747	1.26	87299	7 1 0		
1.2	783.06	7441	1.14	87299	8 0 0		
1.0	896.77	8508	1.00	87299	9 0 0		
0.91	1013.93	9602	0.88	87299	1 0 C		

1.5 kW

4 POLE

165	8.59	72	1.12	2820	C 0 3 2 1 8 . 0 _ M _ - _ _ 1 . 5 A - -	25.5	90L
122	11.61	96	0.91	2810	1 1 .		
108	13.20	109	0.83	2800	1 2 .		
165	8.59	73	1.85	5285	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 . 5 A - -	27.5	90L
122	11.61	98	1.51	5275	1 1 .		
108	13.20	111	1.38	5276	1 2 .		
95	14.95	125	1.27	5270	1 4 .		
87	16.36	123	1.16	5270	1 6 .		
74	19.12	158	1.06	5270	1 8 .		
69	20.61	170	1.01	5270	2 0 .		
64	22.11	164	0.95	5270	2 2 .		
56	25.14	185	0.87	5260	2 5 .		
50	28.48	207	0.80	5260	2 8 .		
171	8.31	72	2.87	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 1 . 5 A - -	31.5	90L
122	11.66	100	2.36	7440	1 1 .		
111	12.85	110	2.23	7440	1 2 .		
97	14.59	125	2.07	7437	1 4 .		
88	16.09	126	2.52	7440	1 6 .		
77	18.53	157	1.79	7440	1 8 .		
67	21.05	177	1.66	7436	2 0 .		
63	22.56	174	1.98	7436	2 2 .		
57	24.86	190	1.85	7436	2 5 .		
50	28.24	214	1.69	7432	2 8 .		
44	32.55	270	1.26	7428	3 2 .		
40	35.86	268	1.41	7428	3 6 .		
35	40.74	301	1.29	7428	4 0 .		
30	46.84	384	0.99	7430	4 5 .		
28	50.93	415	0.94	7420	5 0 .		
26	55.45	402	1.03	7420	5 6 .		
23	63.00	451	0.95	7410	6 3 .		

NOTE

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1.5 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
109	12.97	116	3.82	11945	C 0 6 2 1 1 2 . _ M _ - _ _ 1 . 5 A - -	43.5	90L
98	14.56	130	3.56	11923	1 4 .		
89	15.93	131	3.94	11942	1 6 .		
77	18.49	164	3.08	11904	1 8 .		
68	20.96	186	2.85	11904	2 0 .		
63	22.40	182	3.18	11904	2 2 .		
57	25.11	202	2.93	11904	2 5 .		
50	28.18	226	2.70	11889	2 8 .		
42	33.48	292	2.13	11762	3 2 .		
40	35.79	282	2.25	11789	3 6 .		
35	40.57	318	2.04	11783	4 0 .		
30	47.32	409	1.70	11712	4 5 .		
28	50.52	436	1.63	11668	5 0 .		
25	55.71	429	1.63	11734	5 6 .		
22	64.80	493	1.46	11668	6 3 .		
19	73.92	627	1.21	11500	7 1 .		
18	80.94	685	0.89	11500	8 0 .		
16	91.58	682	1.12	11500	9 0 .		
15	97.78	724	1.06	11500	1 0 0		
46	30.81	278	2.85	28940	C 0 7 2 1 3 2 . M _ - _ _ _ 1 . 5 A - -	85.5	90L
32	44.13	393	2.21	29142	4 5 .		
28	49.90	443	1.98	29142	5 0 .		
26	53.62	458	2.06	29144	5 6 .		
23	61.62	523	1.85	29117	C 0 7 2 1 6 3 . _ M _ - _ _ 1 . 5 A - -	85.5	90L
21	69.00	606	1.53	29117	7 1 .		
19	75.56	663	1.41	29089	8 0 .		
16	88.26	740	1.39	29084	9 0 .		
14	99.79	829	1.27	29084	1 0 0		
14	104.32	901	1.08	29084	1 1 2		
12	115.92	1000	0.97	29027	1 2 5		
10	138.00	1128	0.99	29000	1 4 0		
9.4	151.12	1238	0.92	29000	1 6 0		
15	97.33	841	1.59	29056	C 0 7 3 1 1 0 0 _ M _ - _ _ 1 . 5 A - -	94.5	90L
13	113.20	972	1.38	28960	1 1 8		
11	125.04	1014	1.08	29006	1 3 2		
10	141.75	1136	0.99	29027	1 5 0		
8.9	159.98	1359	0.99	28868	1 6 0		
8.3	170.81	1445	0.93	28900	1 8 0		
19	76.50	677	3.78	41845	C 0 8 2 1 8 0 . _ M _ - _ _ 1 . 5 A - -	135.5	90L
16	87.29	739	2.87	41861	9 0 .		
14	98.53	829	2.60	41872	1 0 0		
14	102.38	897	3.08	41872	1 1 2		
12	117.89	1024	2.78	41844	1 2 5		
10	139.29	1152	2.00	41817	1 4 0		
9.3	153.00	1262	1.86	41822	1 6 0		
6.9	204.75	1666	1.48	41744	2 1 2		
6.0	235.77	1908	1.33	41784	2 5 0		
9.1	156.45	1290	2.11	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 1 . 5 A - -	151.5	90L
8.0	176.60	1448	1.96	41656	1 8 0		
6.5	219.96	1812	1.50	41656	2 1 2		
5.7	248.29	2035	1.40	41656	2 5 0		
5.1	276.74	2279	1.19	41656	2 8 0		
4.5	312.37	2560	1.11	41656	3 1 5		
4.0	351.44	2893	0.94	41656	3 6 0		
3.6	398.40	3279	0.83	41656	4 0 0		
6.4	222.08	1803	3.09	53736	C 0 9 2 1 2 1 2 _ M _ - _ _ 1 . 5 A - -	198.5	90L
5.7	249.73	2011	2.77	53727	2 5 0		
8.9	159.68	1345	3.55	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 1 . 5 A - -	219.5	90L
8.0	177.41	1488	3.24	53383	1 8 0		
6.3	224.51	1891	2.53	53383	2 1 2		
5.7	249.43	2091	2.30	53383	2 5 0		
5.0	282.46	2378	2.01	53383	2 8 0		
4.5	313.81	2630	1.83	53383	3 1 5		
4.0	358.71	3018	1.58	53383	3 6 0		
3.5	406.64	3420	1.40	53383	4 0 0		
3.1	451.77	3783	1.27	53383	4 5 0		
2.9	484.97	4076	1.17	53383	5 0 0		
2.5	558.41	4690	1.02	53383	5 6 0		
2.2	649.47	5450	0.88	53383	6 3 0		
2.9	495.31	4195	2.02	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 1 . 5 A - -	337.5	90L
2.6	544.84	4613	1.84	87299	5 6 0		
2.3	626.07	5297	1.60	87299	6 3 0		
2.0	709.95	5996	1.41	87299	7 1 0		
1.8	783.06	6615	1.28	87299	8 0 0		
1.6	896.77	7568	1.12	87299	9 0 0		
1.4	1013.93	8545	0.99	87299	1 0 C		
1.3	1126.71	9455	0.88	87375	1 1 C		
1.2	1175.54	9890	0.86	87299	1 2 C		

NOTE

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1.5 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
108	8.59	109	0.81	2800	C 0 3 2 1 8 . 0 _ M _ - _ _ 1 . 5 C - -	35	100L
108	8.59	111	1.34	5276	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 . 5 C - -	37	100L
80	11.61	149	1.09	5263	1 1 .		
70	13.20	167	1.00	5256	1 2 .		
62	14.95	189	0.91	5256	1 4 .		
57	16.36	184	0.85	5256	1 6 .		
111	8.31	110	2.22	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 1 . 5 C - -	41	100L
79	11.66	152	1.81	7440	1 1 .		
72	12.85	167	1.71	7440	1 2 .		
63	14.59	189	1.58	7440	1 4 .		
58	16.09	189	1.84	7440	1 6 .		
50	18.53	238	1.36	7433	1 8 .		
44	21.05	268	1.26	7427	2 0 .		
41	22.56	259	1.43	7433	2 2 .		
37	24.86	284	1.34	7427	2 5 .		
33	28.24	320	1.21	7421	2 8 .		
28	32.55	409	0.94	7409	3 2 .		
26	35.86	400	1.02	7409	3 6 .		
23	40.74	450	0.93	7402	4 0 .		
112	8.23	114	3.85	11933	C 0 6 2 1 8 . 0 _ M _ - _ _ 1 . 5 C - -	53	100L
80	11.57	158	3.13	11911	1 1 .		
71	12.97	177	2.92	11889	1 2 .		
64	14.56	198	2.72	11867	1 4 .		
58	15.93	198	2.94	11889	1 6 .		
50	18.49	250	2.34	11845	1 8 .		
44	20.96	282	2.16	11823	2 0 .		
41	22.40	273	2.28	11845	2 2 .		
37	25.11	304	2.09	11823	2 5 .		
33	28.18	339	1.92	11813	2 8 .		
28	33.48	445	1.59	11650	3 2 .		
26	35.79	423	1.62	11682	3 6 .		
23	40.57	477	1.48	11642	4 0 .		
20	47.32	621	1.23	11568	4 5 .		
18	50.52	658	1.16	11535	5 0 .		
17	55.71	642	1.18	11535	5 6 .		
14	64.80	736	1.04	11469	6 3 .		
13	73.92	953	0.80	11300	7 1 .		
59	15.80	214	3.73	29200	C 0 7 2 1 1 6 . _ M _ - _ _ 1 . 5 C - -	95	100L
46	20.07	278	3.80	29200	2 0 .		
42	21.89	293	2.93	29200	2 2 .		
38	24.59	328	2.69	29200	2 5 .		
34	27.03	359	2.50	29200	2 8 .		
30	30.81	422	2.04	29133	3 2 .		
26	35.31	464	2.04	29200	3 6 .		
23	40.15	524	1.84	29200	4 0 .		
21	44.13	598	1.58	29106	4 5 .		
19	49.90	674	1.42	29075	5 0 .		
17	53.62	689	1.46	29071	5 6 .		
15	61.62	793	1.31	29071	6 3 .		
13	69.00	918	1.14	29028	7 1 .		
12	75.56	1006	1.05	28985	8 0 .		
10	88.26	1114	1.00	29000	9 0 .		
9.3	99.79	1258	0.91	29000	1 0 0		
8.9	104.32	1369	0.80	29000	1 1 2		
10	97.33	1279	1.05	28934	C 0 7 3 1 1 0 0 _ M _ - _ _ 1 . 5 C - -	104	100L
8.2	113.20	1479	0.91	28868	1 1 8		
23	39.51	524	3.80	41900	C 0 8 2 1 4 0 . _ M _ - _ _ 1 . 5 C - -	145	100L
19	49.26	672	3.78	41836	5 0 .		
17	54.60	713	2.94	41900	5 6 .		
15	63.56	824	2.61	41900	6 3 .		
13	69.64	938	2.96	41811	7 1 .		
12	76.50	1028	2.76	41811	8 0 .		
11	87.29	1117	2.05	41837	9 0 .		
9.4	98.53	1256	1.86	41814	1 0 0		
9.0	102.38	1363	2.23	41814	1 1 2		
7.8	117.89	1556	1.87	41838	1 2 5		
6.6	139.29	1746	1.42	41776	1 4 0		
6.0	153.00	1913	1.32	41776	1 6 0		
4.5	204.75	2527	1.04	41700	2 1 2		
3.9	235.77	2872	0.91	41700	2 5 0		
5.9	156.45	1988	1.37	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 1 . 5 C - -	161	100L
5.2	176.60	2233	1.27	41656	1 8 0		
4.2	219.96	2792	0.97	41656	2 1 2		
3.7	248.29	3137	0.91	41656	2 5 0		
8.7	106.17	1432	3.22	53721	C 0 9 2 1 1 1 2 _ M _ - _ _ 1 . 5 C - -	208	100L
7.7	119.38	1597	2.91	53705	1 2 5		
6.3	146.23	1828	3.05	53689	1 4 0		
5.7	161.44	2010	2.78	53673	1 6 0		
4.2	222.08	2714	2.06	53615	2 1 2		
3.7	249.73	3037	1.84	53592	2 5 0		

NOTE

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

1.5 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
5.8	159.68	2070	2.31	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 1 . 5 C - -	229	100L
5.2	177.41	2290	2.10	53383	1 8 0		
4.1	224.51	2908	1.64	53383	2 1 2		
3.7	249.43	3218	1.50	53383	2 5 0		
3.3	282.46	3656	1.31	53383	2 8 0		
2.9	313.81	4046	1.19	53383	3 1 5		
2.6	358.71	4638	1.03	53383	3 6 0		
2.3	406.64	5255	0.91	53383	4 0 0		
2.0	451.77	5815	0.83	53383	4 5 0		
5.5	166.73	2139	3.98	87400	C 1 0 2 1 1 6 0 _ M _ - _ _ 1 . 5 C - -	305	100L
4.1	225.50	2845	3.10	87400	2 1 2		
3.8	242.27	3044	2.90	87400	2 5 0		
1.9	495.31	6445	1.31	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 1 . 5 C - -	347	100L
1.7	544.84	7085	1.20	87299	5 6 0		
1.5	626.07	8131	1.04	87299	6 3 0		
1.3	709.95	9200	0.92	87299	7 1 0		
1.2	783.06	10147	0.84	87299	8 0 0		

2.2 kW

4 POLE

166	8.59	107	1.27	5282	C 0 4 2 1 8 . 0 _ M _ - _ _ 2 . 2 A - -	37	100L
123	11.61	144	1.03	5268	1 1 .		
108	13.20	163	0.94	5270	1 2 .		
95	14.95	183	0.87	5260	1 4 .		
171	8.31	106	1.96	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 2 . 2 A - -	41	100L
122	11.66	147	1.62	7440	1 1 .		
111	12.85	161	1.53	7440	1 2 .		
98	14.59	182	1.42	7435	1 4 .		
89	16.09	185	1.72	7440	1 6 .		
77	18.53	230	1.22	7440	1 8 .		
68	21.05	259	1.13	7433	2 0 .		
63	22.56	254	1.35	7433	2 2 .		
57	24.86	278	1.26	7433	2 5 .		
50	28.24	312	1.16	7426	2 8 .		
44	32.55	395	0.86	7420	3 2 .		
40	35.86	391	0.96	7420	3 6 .		
35	40.74	440	0.88	7420	4 0 .		
173	8.23	109	3.40	11928	C 0 6 2 1 8 . 0 _ M _ - _ _ 2 . 2 A - -	53	100L
123	11.57	152	2.80	11905	1 1 .		
110	12.97	170	2.61	11905	1 2 .		
98	14.56	191	2.44	11866	1 4 .		
89	15.93	191	2.69	11900	1 6 .		
77	18.49	240	2.11	11833	1 8 .		
68	20.96	272	1.95	11833	2 0 .		
64	22.40	266	2.18	11833	2 2 .		
57	25.11	296	2.01	11833	2 5 .		
51	28.18	331	1.84	11808	2 8 .		
43	33.48	427	1.46	11660	3 2 .		
40	35.79	413	1.54	11708	3 6 .		
35	40.57	465	1.40	11697	4 0 .		
30	47.32	598	1.16	11566	4 5 .		
28	50.52	637	1.11	11500	5 0 .		
26	55.71	627	1.11	11600	5 6 .		
22	64.80	720	1.00	11500	6 3 .		
90	15.80	205	3.49	27500	C 0 7 2 1 1 6 . _ M _ - _ _ 2 . 2 A - -	95	100L
81	17.66	237	3.70	28200	1 8 .		
71	20.07	269	3.42	29200	2 0 .		
65	21.89	282	2.77	29200	2 2 .		
58	24.59	315	2.54	29200	2 5 .		
53	27.03	347	2.37	29200	2 8 .		
46	30.81	406	1.95	28748	3 2 .		
40	35.31	448	1.94	29200	3 6 .		
35	40.15	507	1.76	29200	4 0 .		
32	44.13	575	1.51	29100	4 5 .		
29	49.90	648	1.36	29100	5 0 .		
27	53.62	670	1.41	29104	5 6 .		
23	61.62	764	1.27	29056	6 3 .		
21	69.00	886	1.05	29056	7 1 .		
19	75.56	970	0.96	29008	8 0 .		
16	88.26	1082	0.95	29000	9 0 .		
14	99.79	1211	0.87	29000	1 0 0		
15	97.33	1229	1.09	28983	C 0 7 3 1 1 0 0 _ M _ - _ _ 2 . 2 A - -	104	100L
13	113.20	1421	0.94	28838	1 1 8		

NOTE

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

2.2 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
40	35.20	453	3.97	41900	C 0 8 2 1 3 6 . _ M _ - _ _ 2 . 2 A - -	145	100L
36	39.51	506	3.64	41900	4 0 .		
33	43.64	576	3.77	41063	4 5 .		
29	49.26	646	3.48	41638	5 0 .		
26	54.60	690	2.84	41900	5 6 .		
22	63.56	797	2.52	41900	6 3 .		
20	69.64	901	2.76	41828	7 1 .		
19	76.50	989	2.59	41805	8 0 .		
16	87.29	1081	1.96	41833	9 0 .		
14	98.53	1211	1.78	41852	1 0 0		
14	102.38	1311	2.10	41852	1 1 2		
12	117.89	1497	1.90	41804	1 2 5		
10	139.29	1684	1.37	41756	1 4 0		
9.3	153.00	1845	1.27	41765	1 6 0		
7.0	204.75	2435	1.01	41630	2 1 2		
6.0	235.77	2789	0.91	41700	2 5 0		
9.1	156.45	1885	1.44	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 2 . 2 A - -	161	100L
8.1	176.60	2117	1.34	41656	1 8 0		
6.5	219.96	2649	1.03	41656	2 1 2		
5.7	248.29	2975	0.96	41656	2 5 0		
5.1	276.74	3332	0.82	41656	2 8 0		
14	103.53	1280	3.79	53722	C 0 9 2 1 1 0 0 _ M _ - _ _ 2 . 2 A - -	208	100L
13	106.17	1376	3.23	53731	1 1 2		
12	119.38	1539	2.92	53714	1 2 5		
10	146.23	1772	2.98	53696	1 4 0		
8.8	161.44	1950	2.78	53679	1 6 0		
6.4	222.08	2635	2.12	53625	2 1 2		
5.7	249.73	2939	1.90	53600	2 5 0		
8.9	159.68	1966	2.43	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 2 . 2 A - -	229	100L
8.0	177.41	2175	2.21	53383	1 8 0		
6.3	224.51	2763	1.73	53383	2 1 2		
5.7	249.43	3057	1.58	53383	2 5 0		
5.0	282.46	3475	1.38	53383	2 8 0		
4.5	313.81	3844	1.25	53383	3 1 5		
4.0	358.71	4411	1.08	53383	3 6 0		
3.5	406.64	4998	0.96	53383	4 0 0		
3.2	451.77	5530	0.87	53383	4 5 0		
2.9	484.97	5957	0.80	53383	5 0 0		
8.5	166.73	2067	3.85	87400	C 1 0 2 1 1 6 0 _ M _ - _ _ 2 . 2 A - -	305	100L
6.3	225.50	2755	3.04	87400	2 1 2		
5.9	242.27	2948	2.87	87400	2 5 0		
2.9	495.31	6132	1.38	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 2 . 2 A - -	347	100L
2.6	544.84	6742	1.26	87299	5 6 0		
2.3	626.07	7741	1.09	87299	6 3 0		
2.0	709.95	8763	0.97	87299	7 1 0		
1.8	783.06	9669	0.88	87299	8 0 0		

2.2 kW

6 POLE

111	8.59	159	0.94	5270	C 0 4 2 1 8 . 0 _ M _ - _ _ 2 . 2 C - -	45	112M
114	8.31	157	1.56	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 2 . 2 C - -	49	112M
81	11.66	218	1.27	7440	1 1 .		
74	12.85	239	1.20	7440	1 2 .		
65	14.59	271	1.11	7440	1 4 .		
59	16.09	270	1.29	7440	1 6 .		
51	18.53	340	0.95	7430	1 8 .		
45	21.05	383	0.88	7420	2 0 .		
42	22.56	370	1.00	7430	2 2 .		
38	24.86	406	0.94	7420	2 5 .		
34	28.24	457	0.85	7410	2 8 .		
115	8.23	162	2.69	11892	C 0 6 2 1 8 . 0 _ M _ - _ _ 2 . 2 C - -	65	112M
82	11.57	226	2.20	11857	1 1 .		
73	12.97	253	2.05	11821	1 2 .		
65	14.56	283	1.90	11785	1 4 .		
60	15.93	283	2.06	11821	1 6 .		
51	18.49	357	1.64	11750	1 8 .		
45	20.96	403	1.52	11714	2 0 .		
42	22.40	390	1.60	11750	2 2 .		
38	25.11	435	1.46	11714	2 5 .		
34	28.18	484	1.34	11697	2 8 .		
28	33.48	635	1.12	11496	3 2 .		
27	35.79	605	1.13	11547	3 6 .		
23	40.57	681	1.03	11482	4 0 .		
20	47.32	886	0.86	11350	4 5 .		
19	50.52	940	0.81	11300	5 0 .		
17	55.71	917	0.82	11300	5 6 .		

NOTE

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2.2 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
120	7.90	160	3.84	24856	C 0 7 2 1 8 . 0 _ M _ - _ _ 2 . 2 C - -	109	112M
87	10.94	221	3.84	26975	1 1 .		
77	12.29	248	3.61	27838	1 2 .		
70	13.52	272	3.41	28591	1 4 .		
60	15.80	305	2.61	28978	1 6 .		
54	17.66	353	2.89	28908	1 8 .		
47	20.07	398	2.66	28966	2 0 .		
43	21.89	419	2.05	29165	2 2 .		
39	24.59	468	1.88	29165	2 5 .		
35	27.03	513	1.75	29165	C 0 7 2 1 2 8 . _ M _ - _ _ 2 . 2 C - -	109	112M
31	30.81	603	1.43	29092	3 2 .		
27	35.31	663	1.43	29144	3 6 .		
24	40.15	749	1.29	29116	4 0 .		
22	44.13	854	1.11	29048	4 5 .		
19	49.90	963	0.99	28998	5 0 .		
18	53.62	984	1.03	28991	5 6 .		
15	61.62	1133	0.92	28991	6 3 .		
14	69.00	1311	0.80	28921	7 1 .		
39	24.47	474	3.84	41597	C 0 8 2 1 2 5 . _ M _ - _ _ 2 . 2 C - -	152	112M
35	27.22	524	3.54	41795	2 8 .		
30	31.78	626	3.56	41748	3 2 .		
27	35.20	670	2.91	41888	3 6 .		
24	39.51	748	2.66	41876	4 0 .		
22	43.64	855	2.87	41848	4 5 .		
19	49.26	960	2.64	41797	5 0 .		
17	54.60	1019	2.06	41865	5 6 .		
15	63.56	1177	1.83	41847	6 3 .		
14	69.64	1340	2.07	41757	7 1 .		
12	76.50	1468	1.93	41757	8 0 .		
11	87.29	1595	1.43	41799	9 0 .		
10	98.53	1793	1.30	41760	1 0 0		
9.3	102.38	1947	1.56	41760	1 1 2		
8.1	117.89	2223	1.31	41800	1 2 5		
6.8	139.29	2494	0.99	41700	1 4 0		
6.2	153.00	2732	0.92	41700	1 6 0		
6.1	156.45	2839	0.96	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 2 . 2 C - -	175	112M
5.4	176.60	3189	0.89	41656	1 8 0		
14	69.91	1363	3.26	53714	C 0 9 2 1 7 1 . _ M _ - _ _ 2 . 2 C - -	215	112M
12	77.18	1502	2.98	53692	8 0 .		
10	93.18	1703	3.08	53671	9 0 .		
9.2	103.53	1883	2.86	53649	1 0 0		
8.9	106.17	2045	2.25	53647	1 1 2		
8.0	119.38	2282	2.04	53616	1 2 5		
6.5	146.23	2611	2.14	53586	1 4 0		
5.9	161.44	2871	1.94	53555	1 6 0		
4.3	222.08	3876	1.44	53443	2 1 2		
3.8	249.73	4337	1.29	53398	2 5 0		
5.9	159.68	2956	1.62	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 2 . 2 C - -	243	112M
5.4	177.41	3270	1.47	53383	1 8 0		
4.2	224.51	4153	1.15	53383	2 1 2		
3.8	249.43	4596	1.05	53383	2 5 0		
3.4	282.46	5221	0.92	53383	2 8 0		
3.0	313.81	5778	0.83	53383	3 1 5		
8.2	115.82	2240	3.53	87400	C 1 0 2 1 1 2 5 _ M _ - _ _ 2 . 2 C - -	312	112M
6.6	144.71	2668	3.12	87376	1 4 0		
5.7	166.73	3055	2.79	87365	1 6 0		
4.2	225.50	4064	2.17	87347	2 1 2		
3.9	242.27	4347	2.03	87347	2 5 0		
1.9	495.31	9204	0.92	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 2 . 2 C — --	361	112M
1.7	544.84	10117	0.84	87299	5 6 0		

NOTE

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

3.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
166	8.59	147	0.93	5280	C 0 4 2 1 8 . 0 _ M _ - _ _ 3 . 0 A - -	37	100L
171	8.31	145	1.44	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 3 . 0 A - -	41	100L
122	11.66	200	1.19	7440	1 1 .		
111	12.85	220	1.12	7440	1 2 .		
98	14.59	249	1.04	7432	1 4 .		
89	16.09	253	1.26	7440	1 6 .		
77	18.53	314	0.90	7440	1 8 .		
68	21.05	354	0.83	7430	2 0 .		
63	22.56	347	0.99	7430	2 2 .		
57	24.86	379	0.93	7430	2 5 .		
50	28.24	426	0.85	7420	2 8 .		
173	8.23	149	2.50	11894	C 0 6 2 1 8 . 0 _ M _ - _ _ 3 . 0 A - -	53	100L
123	11.57	208	2.05	11858	1 1 .		
110	12.97	232	1.92	11858	1 2 .		
98	14.56	260	1.79	11802	1 4 .		
89	15.93	261	1.98	11851	1 6 .		
77	18.49	328	1.55	11752	1 8 .		
68	20.96	370	1.43	11752	2 0 .		
64	22.40	362	1.60	11752	2 2 .		
57	25.11	403	1.47	11752	2 5 .		
51	28.18	451	1.35	11715	2 8 .		
43	33.48	583	1.07	11544	3 2 .		
40	35.79	563	1.13	11615	3 6 .		
35	40.57	634	1.03	11600	C 0 6 2 1 4 0 . _ M _ - _ _ 3 . 0 A - -	53	100L
30	47.32	815	0.85	11400	4 5 .		
130	10.94	201	3.64	24654	C 0 7 2 1 1 1 . _ M _ - _ _ 3 . 0 A - -	95	100L
116	12.29	227	3.37	25318	1 2 .		
105	13.52	249	3.19	25990	1 4 .		
90	15.80	279	2.56	27218	1 6 .		
81	17.66	323	2.72	27800	1 8 .		
71	20.07	367	2.51	28732	2 0 .		
65	21.89	385	2.03	28898	2 2 .		
58	24.59	430	1.86	28943	2 5 .		
53	27.03	473	1.74	29018	2 8 .		
46	30.81	554	1.43	28530	3 2 .		
40	35.31	611	1.42	29151	3 6 .		
35	40.15	691	1.29	29151	4 0 .		
32	44.13	785	1.11	29051	4 5 .		
29	49.90	883	1.00	29051	5 0 .		
27	53.62	913	1.04	29057	5 6 .		
23	61.62	1042	0.93	28986	6 3 .		
58	24.47	434	3.80	38856	C 0 8 2 1 2 5 . _ M _ - _ _ 3 . 0 A - -	145	100L
52	27.22	480	3.54	39518	2 8 .		
45	31.78	577	3.37	40736	3 2 .		
40	35.20	618	2.91	41500	3 6 .		
36	39.51	690	2.67	41563	4 0 .		
33	43.64	785	2.76	40657	4 5 .		
29	49.26	881	2.55	41512	5 0 .		
26	54.60	942	2.08	41884	5 6 .		
22	63.56	1087	1.85	41869	6 3 .		
20	69.64	1229	2.02	41794	7 1 .		
19	76.50	1349	1.90	41758	8 0 .		
16	87.29	1474	1.44	41801	9 0 .		
14	98.53	1652	1.31	41828	1 0 0		
14	102.38	1788	1.54	41828	1 1 2		
12	117.89	2042	1.40	41757	1 2 5		
10	139.29	2296	1.01	41686	1 4 0		
9.3	153.00	2517	0.93	41700	1 6 0		
9.1	156.45	2570	1.06	41656	C 0 8 4 1 1 6 0 _ M _ - _ _ 3 . 0 A - -	161	100L
8.1	176.60	2887	0.99	41656	1 80		
20	69.91	1250	3.41	53723	C 0 9 2 1 7 1 . _ M _ - _ _ 3 . 0 A - -	208	100L
18	77.18	1380	3.12	53704	8 0 .		
15	93.18	1578	2.98	53684	9 0 .		
14	103.53	1745	2.78	53665	1 0 0		
13	106.17	1877	2.37	53681	1 1 2		
12	119.38	2098	2.14	53651	1 2 5		
10	146.23	2417	2.19	53621	1 4 0		
8.8	161.44	2660	2.04	53592	1 6 0		
6.4	222.08	3593	1.55	53497	2 1 2		
5.7	249.73	4007	1.39	53454	2 5 0		
8.9	159.68	2681	1.78	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 3 . 0 A - -	229	100L
8.0	177.41	2966	1.62	53383	1 8 0		
6.3	224.51	3769	1.27	53383	2 1 2		
5.7	249.43	4169	1.16	53383	2 5 0		
5.0	282.46	4739	1.01	53383	2 8 0		
4.5	313.81	5243	0.92	53383	3 1 5		

3.0 kW
4 POLE

3.0 kW
6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
12	115.82	2064	3.87	87400	C 1 0 2 1 1 2 5 _ M _ - _ _ 3 . 0 A - -	305	100L
10	144.71	2462	3.15	87381	1 4 0		
8.5	166.73	2818	2.82	87372	1 6 0		
6.3	225.50	3757	2.23	87369	2 1 2		
5.9	242.27	4021	2.11	87369	2 5 0		
2.9	495.31	8361	1.01	87299	C 1 0 4 1 5 0 0 _ M _ - _ _ 3 . 0 A - -	347	100L
2.6	544.84	9194	0.92	87299	5 6 0		
2.3	626.07	10557	0.80	87299	6 3 0		
116	8.23	221	1.99	11846	C 0 6 2 1 8 . 0 _ M _ - _ _ 3 . 0 C - -	82	132S
83	11.57	307	1.62	11794	1 1 .		
74	12.97	343	1.51	11743	1 2 .		
66	14.56	384	1.40	11692	1 4 .		
60	15.93	384	1.52	11743	1 6 .		
52	18.49	484	1.21	11641	1 8 .		
46	20.96	547	1.12	11589	2 0 .		
43	22.40	530	1.18	11641	2 2 .		
38	25.11	590	1.08	11589	2 5 .		
34	28.18	657	0.99	11565	2 8 .		
29	33.48	862	0.82	11320	3 2 .		
27	35.79	820	0.84	11392	3 6 .		
121	7.90	217	2.83	24578	C 0 7 2 1 8 . 0 _ M _ - _ _ 3 . 0 C - -	126	132S
87	10.94	300	2.83	26605	1 1 .		
78	12.29	336	2.66	27425	1 2 .		
71	13.52	369	2.51	28125	1 4 .		
60	15.80	414	1.92	28725	1 6 .		
54	17.66	479	2.13	28575	1 8 .		
48	20.07	539	1.96	28700	2 0 .		
44	21.89	568	1.51	29125	2 2 .		
39	24.59	635	1.39	29125	2 5 .		
35	27.03	696	1.29	29125	2 8 .		
31	30.81	818	1.05	29046	3 2 .		
27	35.31	899	1.05	29080	3 6 .		
24	40.15	1016	0.95	29020	4 0 .		
22	44.13	1159	0.82	28982	4 5 .		
61	15.54	414	3.91	37968	C 0 8 2 1 1 6 . _ M _ - _ _ 3 . 0 C - -	169	132S
54	17.60	479	3.81	38900	1 8 .		
48	19.76	538	3.55	40105	2 0 .		
43	22.03	581	3.06	41142	2 2 .		
39	24.47	643	2.83	41252	2 5 .		
35	27.22	711	2.61	41675	2 8 .		
30	31.78	850	2.62	41575	3 2 .		
27	35.20	908	2.15	41875	3 6 .		
24	39.51	1015	1.96	41850	4 0 .		
22	43.64	1160	2.12	41826	4 5 .		
19	49.26	1302	1.95	41752	5 0 .		
17	54.60	1382	1.52	41825	5 6 .		
15	63.56	1596	1.35	41787	6 3 .		
14	69.64	1818	1.53	41694	7 1 .		
12	76.50	1991	1.43	41694	8 0 .		
11	87.29	2164	1.06	41755	9 0 .		
10	98.53	2433	0.96	41700	1 0 0		
9.3	102.38	2642	1.15	41700	1 1 2		
21	44.55	1195	3.55	53734	C 0 9 2 1 4 5 . _ M _ - _ _ 3 . 0 C - -	232	132S
19	49.49	1326	3.23	53712	5 0 .		
14	69.91	1849	2.40	53666	7 1 .		
12	77.18	2037	2.20	53633	8 0 .		
10	93.18	2310	2.27	53600	9 0 .		
9.2	103.53	2555	2.11	53566	1 0 0		
9.0	106.17	2774	1.66	53563	1 1 2		
8.0	119.38	3095	1.50	53515	1 2 5		
6.5	146.23	3542	1.58	53468	1 4 0		
5.9	161.44	3895	1.43	53421	1 6 0		
4.3	222.08	5258	1.06	53246	2 1 2		
3.8	249.73	5883	0.95	53176	2 5 0		
6.0	159.68	4010	1.19	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 3 . 0 C - -	260	132S
5.4	177.41	4437	1.09	53383	1 8 0		
4.3	224.51	5634	0.85	53383	2 1 2		
10	91.32	2328	3.30	87384	C 1 0 2 1 9 0 . _ M _ - _ _ 3 . 0 C - -	329	132S
9.4	101.47	2575	3.04	87368	1 0 0		
8.9	107.80	2836	3.07	87400	1 1 2		
8.2	115.82	3038	2.60	87400	1 2 5		
6.6	144.71	3619	2.30	87350	1 4 0		
5.7	166.73	4144	2.06	87325	1 6 0		
4.2	225.50	5513	1.60	87287	2 1 2		
3.9	242.27	5897	1.50	87287	2 5 0		

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
3.0 kW 6 POLE							
5.9	160.55	4062	2.09	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 3 . 0 C - -	378	132S
5.4	178.41	4494	1.84	87375	1 8 0		
4.3	222.38	5623	1.51	87299	2 1 2		
3.9	247.12	6221	1.33	87375	2 5 0		
3.5	274.67	6942	1.22	87299	2 8 0		
3.1	305.22	7680	1.08	87375	3 1 5		
2.7	358.77	9058	0.94	87299	3 6 0		
2.3	407.90	10293	0.82	87299	4 0 0		
4.0 kW 4 POLE							
173	8.31	192	1.09	7440	C 0 5 2 1 8 . 0 _ M _ - _ _ 4 . 0 A - -	49	112M
123	11.66	265	0.90	7440	1 1 .		
112	12.85	291	0.85	7440	1 2 .		
174	8.23	197	1.89	11851	C 0 6 2 1 8 . 0 _ M _ - _ _ 4 . 0 A - -	65	112M
124	11.57	275	1.55	11801	1 1 .		
111	12.97	308	1.45	11801	1 2 .		
99	14.56	344	1.35	11721	1 4 .		
90	15.93	346	1.49	11790	1 6 .		
78	18.49	435	1.17	11651	1 8 .		
68	20.96	491	1.08	11651	2 0 .		
64	22.40	480	1.20	11651	2 2 .		
57	25.11	534	1.11	11651	2 5 .		
51	28.18	597	1.02	11600	2 8 .		
43	33.48	772	0.81	11400	3 2 .		
40	35.79	746	0.85	11500	3 6 .		
182	7.90	193	3.19	22778	C 0 7 2 1 8 . 0 _ M _ - _ _ 4 . 0 A - -	109	112M
131	10.94	267	2.75	24347	1 1 .		
117	12.29	301	2.55	24965	1 2 .		
106	13.52	329	2.41	25604	1 4 .		
91	15.80	370	1.93	26865	1 6 .		
81	17.66	428	2.05	27300	1 8 .		
71	20.07	485	1.90	28147	2 0 .		
66	21.89	509	1.53	28520	2 2 .		
58	24.59	570	1.41	28622	2 5 .		
53	27.03	626	1.31	28792	2 8 .		
47	30.81	734	1.08	28256	3 2 .		
41	35.31	810	1.08	29090	3 6 .		
36	40.15	915	0.98	29090	4 0 .		
33	44.13	1039	0.84	28990	4 5 .		
92	15.54	369	3.76	34793	C 0 8 2 1 1 6 . _ M _ - _ _ 4 . 0 A - -	152	112M
82	17.60	431	3.66	35596	1 8 .		
73	19.76	483	3.41	36798	2 0 .		
65	22.03	519	3.04	37796	2 2 .		
59	24.47	574	2.87	38426	2 5 .		
53	27.22	636	2.67	39040	2 8 .		
45	31.78	765	2.55	40031	3 2 .		
41	35.20	819	2.20	41000	3 6 .		
36	39.51	913	2.01	41143	4 0 .		
33	43.64	1040	2.09	40150	4 5 .		
29	49.26	1167	1.93	41353	5 0 .		
26	54.60	1247	1.57	41866	5 6 .		
23	63.56	1440	1.40	41832	6 3 .		
21	69.64	1628	1.53	41751	7 1 .		
19	76.50	1787	1.43	41701	8 0 .		
16	87.29	1951	1.09	41760	9 0 .		
15	98.53	2188	0.99	41800	1 0 0		
14	102.38	2368	1.17	41800	1 1 2		
12	117.89	2704	1.05	41700	1 2 5		
32	44.55	1071	3.76	53733	C 0 9 2 1 4 5 . _ M _ - _ _ 4 . 0 A - -	215	112M
29	49.49	1189	3.44	53716	5 0 .		
21	69.91	1655	2.57	53682	7 1 .		
19	77.18	1827	2.35	53653	8 0 .		
15	93.18	2089	2.25	53624	9 0 .		
14	103.53	2311	2.10	53594	1 0 0		
14	106.17	2485	1.79	53618	1 1 2		
12	119.38	2779	1.62	53573	1 2 5		
10	146.23	3200	1.65	53528	1 4 0		
8.9	161.44	3521	1.54	53482	1 6 0		
6.5	222.08	4758	1.17	53338	2 1 2		
5.7	249.73	5306	1.05	53272	2 5 0		
9.0	159.68	3550	1.35	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 4 . 0 A - -	243	112M
8.1	177.41	3927	1.23	53383	1 8 0		
6.4	224.51	4990	0.96	53383	2 1 2		
5.8	249.43	5519	0.87	53383	2 5 0		
16	91.32	2100	3.39	87400	C 1 0 2 1 9 0 . _ M _ - _ _ 4 . 0 A - -	312	112M
14	101.47	2322	3.12	87385	1 0 0		
13	107.80	2551	3.39	87400	1 1 2		
12	115.82	2733	2.92	87400	1 2 5		
10	144.71	3260	2.38	87359	1 4 0		
8.6	166.73	3732	2.13	87338	1 6 0		
6.4	225.50	4974	1.68	87332	2 1 2		
5.9	242.27	5324	1.59	87332	2 5 0		

NOTE

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4.0 kW
4 POLE

4.0 kW
6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
8.9	160.55	3596	2.36	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 4 . 0 A - -	361	112M
8.0	178.41	3976	2.08	87375	1 8 0		
6.5	222.38	4979	1.70	87299	2 1 2		
5.8	247.12	5507	1.51	87375	2 5 0		
5.2	274.67	6149	1.38	87299	2 8 0		
4.7	305.22	6800	1.22	87375	3 1 5		
4.0	358.77	8027	1.06	87299	3 6 0		
3.5	407.90	9123	0.93	87299	4 0 0		
3.2	453.27	10090	0.82	87375	4 5 0		
117	8.23	293	1.5	11787	C 0 6 2 1 8 . 0 _ M _ - _ _ 4 . 0 C - -	86	132M
83	11.57	408	1.22	11716	1 1 .		
74	12.97	456	1.14	11646	1 2 .		
66	14.56	510	1.06	11575	1 4 .		
60	15.93	509	1.14	11646	1 6 .		
52	18.49	643	0.91	11504	1 8 .		
46	20.96	726	0.84	11433	2 0 .		
43	22.40	703	0.89	11504	2 2 .		
38	25.11	782	0.81	11433	2 5 .		
122	7.90	288	2.13	24231	C 0 7 2 1 8 . 0 _ M _ - _ _ 4 . 0 C - -	130	132M
88	10.94	398	2.13	26142	1 1 .		
78	12.29	446	2.01	26908	1 2 .		
71	13.52	489	1.89	27541	1 4 .		
61	15.80	550	1.45	28408	1 6 .		
54	17.66	635	1.61	28158	1 8 .		
48	20.07	716	1.48	28366	2 0 .		
44	21.89	754	1.14	29075	2 2 .		
39	24.59	843	1.04	29075	2 5 .		
36	27.03	923	0.97	29075	2 8 .		
87	11.01	405	3.83	33852	C 0 8 2 1 1 1 . _ M _ - _ _ 4 . 0 C - -	173	132M
78	12.24	447	3.60	34773	1 2 .		
71	13.61	494	3.38	35768	1 4 .		
62	15.54	549	2.95	37547	1 6 .		
55	17.60	636	2.88	38300	1 8 .		
49	19.76	714	2.67	39442	2 0 .		
44	22.03	771	2.31	40636	2 2 .		
39	24.47	853	2.13	40821	2 5 .		
35	27.22	944	1.97	41525	2 8 .		
30	31.78	1127	1.98	41358	3 2 .		
27	35.20	1205	1.62	41858	3 6 .		
24	39.51	1346	1.48	41816	4 0 .		
22	43.64	1539	1.60	41798	4 5 .		
19	49.26	1727	1.47	41696	5 0 .		
18	54.60	1834	1.14	41775	5 6 .		
15	63.56	2118	1.01	41712	6 3 .		
14	69.64	2412	1.15	41616	7 1 .		
13	76.50	2641	1.08	41616	8 0 .		
22	44.55	1585	2.67	53704	C 0 9 2 1 4 5 . _ M _ - _ _ 4 . 0 C - -	236	132M
19	49.49	1760	2.44	53673	5 0 .		
14	69.91	2453	1.81	53607	7 1 .		
12	77.18	2702	1.66	53559	8 0 .		
10	93.18	3064	1.71	53511	9 0 .		
9.3	103.53	3388	1.59	53462	1 0 0		
9.0	106.17	3680	1.25	53457	1 1 2		
8.0	119.38	4105	1.13	53389	1 2 5		
6.6	146.23	4698	1.19	53321	1 4 0		
5.9	161.44	5166	1.08	53252	1 6 0		
4.3	222.08	6975	0.80	53000	2 1 2		
6.0	159.68	5319	0.90	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 4 . 0 C - -	264	132M
5.4	177.41	5885	0.82	53383	1 8 0		
14	69.18	2448	3.53	87362	C 1 0 2 1 7 1 . _ M _ - _ _ 4 . 0 C - -	333	132M
12	79.71	2819	3.10	87400	8 0 .		
11	91.32	3088	2.49	87373	9 0 .		
9.5	101.47	3416	2.30	87347	1 0 0		
8.9	107.80	3762	2.31	87400	1 1 2		
8.3	115.82	4030	1.96	87400	1 2 5		
6.6	144.71	4801	1.74	87316	1 4 0		
5.8	166.73	5496	1.55	87275	1 6 0		
4.3	225.50	7312	1.21	87212	2 1 2		
4.0	242.27	7822	1.13	87212	2 5 0		
6.0	160.55	5388	1.57	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 4 . 0 C - -	382	132M
5.4	178.41	5960	1.39	87375	1 8 0		
4.3	222.38	7459	1.14	87299	2 1 2		
3.9	247.12	8252	1.00	87375	2 5 0		
3.5	274.67	9208	0.92	87299	2 8 0		
3.1	305.22	10187	0.81	87375	3 1 5		

NOTE

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

5.5 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
175	8.23	270	1.38	11786	C 0 6 2 1 8 . 0 _ M _ - _ _ 5 . 5 A - -	82	132S
124	11.57	377	1.13	11715	1 1 .		
111	12.97	422	1.06	11715	1 2 .		
99	14.56	472	0.99	11600	1 4 .		
90	15.93	474	1.09	11700	1 6 .		
78	18.49	596	0.85	11500	1 8 .		
64	22.40	658	0.88	11500	2 2 .		
57	25.11	732	0.81	11500	2 5 .		
182	7.90	265	2.33	22426	C 0 7 2 1 8 . 0 _ M _ - _ _ 5 . 5 A - -	126	132S
132	10.94	366	2.00	23887	1 1 .		
117	12.29	412	1.86	24437	1 2 .		
107	13.52	452	1.76	25025	1 4 .		
91	15.80	507	1.41	26337	1 6 .		
82	17.66	587	1.50	26550	1 8 .		
72	20.07	665	1.38	27269	2 0 .		
66	21.89	698	1.12	27954	2 2 .		
59	24.59	781	1.03	28141	2 5 .		
53	27.03	858	0.96	28452	2 8 .		
131	11.01	371	3.56	31175	C 0 8 2 1 1 1 . _ M _ - _ _ 5 . 5 A - -	169	132S
118	12.24	413	3.34	31897	1 2 .		
106	13.61	457	3.12	32868	1 4 .		
93	15.54	506	2.74	34371	1 6 .		
82	17.60	591	2.67	35010	1 8 .		
73	19.76	662	2.49	36130	2 0 .		
65	22.03	711	2.22	37210	2 2 .		
59	24.47	787	2.09	37782	2 5 .		
53	27.22	871	1.95	38325	2 8 .		
45	31.78	1048	1.86	38975	3 2 .		
41	35.20	1122	1.60	40250	3 6 .		
36	39.51	1251	1.47	40512	4 0 .		
33	43.64	1425	1.52	39389	4 5 .		
29	49.26	1599	1.41	41116	5 0 .		
26	54.60	1709	1.15	41837	5 6 .		
23	63.56	1973	1.02	41775	6 3 .		
21	69.64	2231	1.12	41686	7 1 .		
19	76.50	2448	1.05	41615	8 0 .		
32	44.55	1468	2.74	53698	C 0 9 2 1 4 5 . _ M _ - _ _ 5 . 5 A - -	232	132S
29	49.49	1629	2.51	53673	5 0 .		
21	69.91	2268	1.88	53622	7 1 .		
19	77.18	2504	1.72	53577	8 0 .		
15	93.18	2863	1.64	53533	9 0 .		
14	103.53	3167	1.53	53488	1 0 0		
14	106.17	3405	1.30	53525	1 1 2		
12	119.38	3808	1.18	53456	1 2 5		
10	146.23	4385	1.21	53387	1 4 0		
8.9	161.44	4825	1.12	53318	1 6 0		
6.5	222.08	6519	0.86	53100	2 1 2		
9.0	159.68	4865	0.98	53383	C 0 9 4 1 1 6 0 _ M _ - _ _ 5 . 5 A - -	260	132S
8.1	177.41	5381	0.90	53383	1 8 0		
21	69.18	2272	3.34	85716	C 1 0 2 1 7 1 . _ M _ - _ _ 5 . 5 A - -	329	132S
18	79.71	2606	2.94	86407	8 0 .		
16	91.32	2878	2.47	87400	9 0 .		
14	101.47	3182	2.28	87374	1 0 0		
13	107.80	3496	2.47	87400	1 1 2		
12	115.82	3745	2.13	87400	1 2 5		
10	144.71	4467	1.74	87325	1 4 0		
8.6	166.73	5114	1.56	87287	1 6 0		
6.4	225.50	6816	1.23	87275	2 1 2		
5.9	242.27	7295	1.16	87275	2 5 0		
9.0	160.55	4927	1.72	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 5 . 5 A - -	378	132S
8.1	178.41	5449	1.52	87375	1 8 0		
6.5	222.38	6823	1.24	87299	2 1 2		
5.8	247.12	7545	1.10	87375	2 5 0		
5.2	274.67	8425	1.01	87299	2 8 0		
4.7	305.22	9318	0.89	87375	3 1 5		

NOTE

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5.5 kW

6 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry [1] Through [20] Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
117	8.23	403	1.09	11700	C 0 6 2 1 8 . 0 _ M _ - _ _ 5 . 5 C - -	86	132M
83	11.57	561	0.89	11600	1 1 .		
74	12.97	627	0.83	11500	1 2 .		
60	15.93	700	0.83	11500	1 6 .		
122	7.90	396	1.55	23710	C 0 7 2 1 8 . 0 _ M _ - _ _ 5 . 5 C - -	130	132M
88	10.94	547	1.55	25447	1 1 .		
78	12.29	613	1.46	26133	1 2 .		
71	13.52	673	1.38	26666	1 4 .		
61	15.80	756	1.05	27933	1 6 .		
54	17.66	873	1.17	27533	1 8 .		
48	20.07	984	1.08	27866	2 0 .		
44	21.89	1037	0.83	29000	2 2 .		
124	7.77	391	3.16	30947	C 0 8 2 1 8 . 0 _ M _ - _ _ 5 . 5 C - -	173	132M
87	11.01	557	2.78	33284	1 1 .		
78	12.24	614	2.62	34157	1 2 .		
71	13.61	680	2.45	35089	1 4 .		
62	15.54	755	2.15	36915	1 6 .		
55	17.60	875	2.09	37400	1 8 .		
49	19.76	981	1.95	38447	2 0 .		
44	22.03	1060	1.68	39878	2 2 .		
39	24.47	1173	1.55	40173	2 5 .		
35	27.22	1298	1.43	41300	2 8 .		
30	31.78	1550	1.44	41033	3 2 .		
27	35.20	1657	1.18	41833	3 6 .		
24	39.51	1851	1.07	41766	4 0 .		
22	43.64	2117	1.16	41756	4 5 .		
19	49.26	2375	1.07	41612	5 0 .		
18	54.60	2521	0.83	41700	5 6 .		
14	69.64	3316	0.84	41500	7 1 .		
22	44.55	2179	1.95	53660	C 0 9 2 1 4 5 . _ M _ - _ _ 5 . 5 C - -	236	132M
19	49.49	2420	1.77	53614	5 0 .		
14	69.91	3372	1.32	53518	7 1 .		
12	77.18	3716	1.21	53448	8 0 .		
10	93.18	4213	1.24	53377	9 0 .		
9.3	103.53	4659	1.15	53307	1 0 0		
9.0	106.17	5060	0.91	53300	1 1 2		
8.0	119.38	5645	0.82	53200	1 2 5		
6.6	146.23	6461	0.86	53100	1 4 0		
22	43.65	2160	3.76	85776	C 1 0 2 1 4 5 . _ M _ - _ _ 5 . 5 C - -	333	132M
20	48.51	2395	3.47	86058	5 0 .		
14	69.18	3366	2.56	87340	7 1 .		
12	79.71	3876	2.25	87400	8 0 .		
11	91.32	4246	1.81	87357	9 0 .		
9.5	101.47	4697	1.67	87315	1 0 0		
8.9	107.80	5172	1.68	87400	1 1 2		
8.3	115.82	5542	1.43	87400	1 2 5		
6.6	144.71	6601	1.26	87266	1 4 0		
5.8	166.73	7558	1.13	87200	1 6 0		
4.3	225.50	10054	0.88	87100	2 1 2		
4.0	242.27	10756	0.82	87100	2 5 0		
6.0	160.55	7408	1.14	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 5 . 5 C - -	382	132M
5.4	178.41	8196	1.01	87375	1 8 0		
4.3	222.38	10256	0.83	87299	2 1 2		

7.5 kW

4 POLE

176	8.23	367	1.01	11700	C 0 6 2 1 8 . 0 _ M _ - _ _ 7 . 5 A - -	86	132M
125	11.57	513	0.83	11600	1 1 .		
183	7.90	360	1.71	21957	C 0 7 2 1 8 . 0 _ M _ - _ _ 7 . 5 A - -	130	132M
132	10.94	497	1.47	23273	1 1 .		
118	12.29	561	1.37	23732	1 2 .		
107	13.52	614	1.30	24252	1 4 .		
91	15.80	689	1.04	25632	1 6 .		
82	17.66	797	1.10	25550	1 8 .		
72	20.07	904	1.02	26100	2 0 .		
66	21.89	949	0.82	27200	2 2 .		
186	7.77	355	3.20	28647	C 0 8 2 1 8 . 0 _ M _ - _ _ 7 . 5 A - -	173	132M
131	11.01	504	2.62	30675	1 1 .		
118	12.24	561	2.46	31350	1 2 .		
106	13.61	622	2.30	32243	1 4 .		
93	15.54	688	2.02	33809	1 6 .		
82	17.60	803	1.97	34229	1 8 .		
73	19.76	899	1.83	35239	2 0 .		
66	22.03	966	1.63	36429	2 2 .		
59	24.47	1070	1.54	36922	2 5 .		
53	27.22	1184	1.44	37370	2 8 .		
45	31.78	1424	1.37	37565	3 2 .		
41	35.20	1525	1.18	39250	3 6 .		
37	39.51	1701	1.08	39671	4 0 .		
33	43.64	1937	1.12	38375	4 5 .		
29	49.26	2173	1.04	40800	5 0 .		
26	54.60	2322	0.84	41800	5 6 .		
21	69.64	3032	0.82	41600	7 1 .		

NOTE

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

7.5 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
32	44.55	1995	2.02	53652	C 0 9 2 1 4 5 . _ M _ - _ _ 7 . 5 A - -	236	132M
29	49.49	2214	1.85	53616	5 0 .		
21	69.91	3082	1.38	53541	7 1 .		
19	77.18	3402	1.26	53476	8 0 .		
16	93.18	3891	1.21	53412	9 0 .		
14	103.53	4304	1.13	53347	C 0 9 2 1 1 0 0 _ M _ - _ _ 7 . 5 A - -	236	132M
14	106.17	4628	0.96	53400	1 1 2		
12	119.38	5174	0.87	53300	1 2 5		
10	146.23	5959	0.89	53200	1 4 0		
9.0	161.44	6557	0.83	53100	1 6 0		
33	43.65	1975	3.61	82939	C 1 0 2 1 4 5 . _ M _ - _ _ 7 . 5 A - -	333	132M
30	48.51	2188	3.32	83701	5 0 .		
21	69.18	3087	2.46	84696	7 1 .		
18	79.71	3541	2.17	85806	8 0 .		
16	91.32	3911	1.82	87400	9 0 .		
14	101.47	4324	1.67	87358	1 0 0		
13	107.80	4751	1.82	87400	1 1 2		
12	115.82	5089	1.57	87400	1 2 5		
10	144.71	6070	1.28	87279	1 4 0		
8.7	166.73	6949	1.15	87219	1 6 0		
6.4	225.50	9263	0.90	87200	2 1 2		
6.0	242.27	9913	0.85	87200	2 5 0		
9.0	160.55	6696	1.27	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 7 . 5 A -	-382	132M
8.1	178.41	7404	1.12	87375	1 8 0		
6.5	222.38	9272	0.91	87299	2 1 2		
5.8	247.12	10254	0.81	87375	2 5 0		

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
122	7.90	540	1.14	23015	C 0 7 2 1 8 . 0 _ M _ - _ _ 7 . 5 C - -	159	160M
88	10.94	746	1.14	24521	1 1 .		
78	12.29	836	1.07	25100	1 2 .		
71	13.52	918	1.01	25500	1 4 .		
54	17.66	1191	0.86	26700	1 8 .		
124	7.77	534	2.32	30421	C 0 8 2 1 8 . 0 _ M _ - _ _ 7 . 5 C - -	202	160M
87	11.01	759	2.04	32526	1 1 .		
78	12.24	838	1.92	33336	1 2 .		
71	13.61	927	1.80	34184	1 4 .		
62	15.54	1029	1.57	36073	1 6 .		
55	17.60	1193	1.53	36200	1 8 .		
49	19.76	1338	1.43	37121	2 0 .		
44	22.03	1446	1.23	38868	2 2 .		
39	24.47	1600	1.14	39310	2 5 .		
35	27.22	1770	1.05	41000	2 8 .		
30	31.78	2114	1.05	40600	3 2 .		
27	35.20	2260	0.86	41800	3 6 .		
22	43.64	2887	0.85	41700	4 5 .		
87	10.98	760	3.73	51500	C 0 9 2 1 1 1 . _ M _ - _ _ 7 . 5 C - -	265	160M
78	12.30	850	3.49	52800	1 2 .		
70	13.81	952	3.25	53800	1 4 .		
58	16.68	1108	2.73	53800	1 6 .		
54	17.79	1220	2.79	53800	1 8 .		
48	19.88	1357	2.60	53800	2 0 .		
42	22.96	1513	2.25	53800	2 2 .		
37	25.73	1685	2.11	53800	2 5 .		
33	28.89	1887	1.96	53800	2 8 .		
31	31.43	2119	1.92	53800	3 2 .		
26	37.22	2398	1.68	53800	3 6 .		
23	41.59	2679	1.56	53700	4 0 .		
22	44.55	2971	1.43	53602	4 5 .		
19	49.49	3300	1.30	53536	5 0 .		
17	57.66	3647	1.27	53600	5 6 .		
15	65.74	4129	1.16	53500	6 3 .		
14	69.91	4599	0.97	53400	7 1 .		
12	77.18	5067	0.88	53300	8 0 .		
10	93.18	5745	0.91	53200	9 0 .		
9.3	103.53	6354	0.85	53100	1 0 0		
41	23.23	1554	3.84	79500	C 1 0 2 1 2 2 . _ M _ - _ _ 7 . 5 C - -	362	160M
38	25.27	1682	3.61	81400	2 5 .		
33	28.70	1902	3.28	84200	2 8 .		
30	31.85	2167	3.40	85000	3 2 .		
26	37.38	2463	2.67	87400	3 6 .		
24	40.36	2642	2.52	87400	4 0 .		
22	43.65	2945	2.76	84964	4 5 .		
20	48.51	3267	2.55	85388	5 0 .		
16	58.85	3798	1.87	87400	5 6 .		
14	66.62	4303	1.68	87400	6 3 .		
14	69.18	4590	1.88	87311	7 1 .		
12	79.71	5286	1.65	87400	8 0 .		
11	91.32	5790	1.33	87336	9 0 .		

NOTE

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

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
9.5	101.47	6405	1.22	87273	C 1 0 2 1 1 0 0 _ M _ - _ _ 7 . 5 C - -	362	160M
8.9	107.80	7054	1.23	87400	1 1 2		
8.3	115.82	7557	1.05	87400	1 2 5		
6.6	144.71	9002	0.93	87200	1 4 0		
5.8	166.73	10306	0.83	87100	1 6 0		
6.0	160.55	10103	0.84	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 7 . 5 C - -	411	160M

11.0 kW

4 POLE

184	7.90	526	1.17	21137	C 0 7 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	159	160M
132	10.94	727	1.01	22200	1 1 .		
118	12.29	820	0.94	22500	1 2 .		
107	13.52	898	0.89	22900	1 4 .		
187	7.77	520	2.19	28018	C 0 8 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	202	160M
132	11.01	737	1.79	29800	1 1 .		
119	12.24	820	1.68	30393	1 2 .		
107	13.61	909	1.57	31150	1 4 .		
93	15.54	1005	1.38	32825	1 6 .		
82	17.60	1174	1.35	32862	1 8 .		
73	19.76	1315	1.25	33681	2 0 .		
66	22.03	1413	1.12	35062	2 2 .		
59	24.47	1564	1.05	35418	2 5 .		
53	27.22	1731	0.98	35700	2 8 .		
46	31.78	2082	0.94	35100	3 2 .		
41	35.20	2229	0.81	37500	3 6 .		
182	7.97	539	3.93	44500	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	265	160M
132	10.98	741	3.26	47600	1 1 .		
118	12.30	831	3.05	48700	1 2 .		
105	13.81	928	2.85	50100	1 4 .		
87	16.68	1075	2.40	53100	1 6 .		
81	17.79	1194	2.45	53300	1 8 .		
73	19.88	1326	2.29	53800	2 0 .		
63	22.96	1473	1.98	53800	2 2 .		
56	25.73	1652	1.85	53800	2 5 .		
50	28.89	1841	1.73	53800	2 8 .		
46	31.43	2078	1.73	53800	3 2 .		
39	37.22	2355	1.48	53800	3 6 .		
35	41.59	2634	1.38	53700	4 0 .		
33	44.55	2916	1.38	53572	4 5 .		
29	49.49	3236	1.26	53515	5 0 .		
25	57.66	3601	1.13	53600	5 6 .		
22	65.74	4091	1.04	53500	6 3 .		
21	69.91	4505	0.95	53400	7 1 .		
19	77.18	4973	0.86	53300	8 0 .		
16	93.18	5687	0.83	53200	9 0 .		
62	23.23	1520	3.55	73000	C 1 0 2 1 2 2 . _ M _ - _ _ 1 1 . A - -	362	160M
57	25.27	1651	3.35	74000	2 5 .		
51	28.70	1869	3.05	75400	2 8 .		
46	31.85	2126	3.01	75100	3 2 .		
39	37.38	2424	2.50	79400	3 6 .		
36	40.36	2601	2.36	81000	4 0 .		
33	43.65	2887	2.47	80522	4 5 .		
30	48.51	3198	2.27	81258	5 0 .		
25	58.85	3753	1.76	87400	5 6 .		
22	66.62	4231	1.60	87400	6 3 .		
21	69.18	4512	1.68	82911	7 1 .		
18	79.71	5176	1.48	84754	8 0 .		
16	91.32	5716	1.25	87400	9 0 .		
14	101.47	6320	1.15	87331	1 0 0		
13	107.80	6945	1.25	87400	1 1 2		
13	115.82	7438	1.07	87400	1 2 5		
10	144.71	8873	0.87	87200	1 4 0		
9.0	160.55	9787	0.87	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 1 1 . A - -	411	160M

NOTE

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

11.0 kW

4 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
124	7.77	779	1.59	29500	C 0 8 2 1 8 . 0 _ M _ - _ _ 1 1 . C - -	216	160L
88	11.01	1108	1.40	31200	1 1 .		
79	12.24	1223	1.32	31900	1 2 .		
71	13.61	1353	1.23	32600	C 0 8 2 1 1 4 . _ M _ - _ _ 1 1 . C - -	216	160L
62	15.54	1502	1.08	34600	1 6 .		
55	17.60	1741	1.05	34100	1 8 .		
49	19.76	1953	0.98	34800	2 0 .		
44	22.03	2110	0.84	37100	2 2 .		
121	7.97	807	3.11	47360	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 1 . C - -	279	160L
88	10.98	1109	2.56	50348	1 1 .		
78	12.30	1240	2.39	51508	1 2 .		
70	13.81	1390	2.23	52446	1 4 .		
58	16.68	1617	1.87	53510	1 6 .		
54	17.79	1780	1.91	52931	1 8 .		
49	19.88	1980	1.78	53124	2 0 .		
42	22.96	2208	1.54	53703	2 2 .		
37	25.73	2458	1.44	53704	2 5 .		
33	28.89	2754	1.34	53672	2 8 .		
31	31.43	3092	1.32	53640	3 2 .		
26	37.22	3500	1.15	53613	3 6 .		
23	41.59	3909	1.07	53513	4 0 .		
22	44.55	4336	0.98	53500	4 5 .		
19	49.49	4814	0.89	53400	5 0 .		
17	57.66	5321	0.87	53300	5 6 .		
70	13.72	1391	3.94	67833	C 1 0 2 1 1 4 . _ M _ - _ _ 1 1 . C - -	376	160L
58	16.63	1635	3.38	71873	1 6 .		
54	17.87	1802	3.34	72391	1 8 .		
50	19.29	1944	3.19	74166	2 0 .		
42	23.23	2268	2.63	78084	2 2 .		
38	25.27	2455	2.48	79860	2 5 .		
34	28.70	2775	2.25	82457	2 8 .		
30	31.85	3162	2.33	82340	3 2 .		
26	37.38	3594	1.83	85855	3 6 .		
24	40.36	3856	1.73	86144	4 0 .		
22	43.65	4297	1.89	83544	4 5 .		
20	48.51	4766	1.75	84214	5 0 .		
16	58.85	5541	1.28	87336	5 6 .		
14	66.62	6279	1.15	87353	6 3 .		
14	69.18	6697	1.29	87259	7 1 .		
12	79.71	7713	1.13	87400	8 0 .		
11	91.32	8448	0.91	87300	9 0 .		
10	101.47	9345	0.84	87200	1 0 0		

15.0 kW

4 POLE

N2 R/MIN Output Speed	i Ratio	M2 Nm Output Torque	Fm Service Factor	N Overhung Load	Unit Designation Column Entry 1 Through 20 Spaces to be filled when entering order	Kg Weight of base mount unit	Motor Sizes
184	7.90	716	0.86	20200	C 0 7 2 1 8 . 0 _ M _ - _ _ 1 5 . A - -	173	160L
187	7.77	707	1.61	27300	C 0 8 2 1 8 . 0 _ M _ - _ _ 1 5 . A - -	216	160L
132	11.01	1001	1.32	28800	1 1 .		
119	12.24	1115	1.24	29300	1 2 .		
107	13.61	1235	1.16	29900	1 4 .		
94	15.54	1366	1.02	31700	1 6 .		
83	17.60	1595	0.99	31300	1 8 .		
74	19.76	1787	0.92	31900	2 0 .		
66	22.03	1920	0.82	33500	2 2 .		
182	7.97	733	2.89	43852	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 5 . A - -	279	160L
133	10.98	1007	2.4	46717	1 1 .		
118	12.30	1130	2.25	47715	1 2 .		
105	13.81	1261	2.1	49007	1 4 .		
87	16.68	1460	1.77	52131	1 6 .		
82	17.79	1622	1.8	51889	1 8 .		
73	19.88	1803	1.69	52636	2 0 .		
63	22.96	2002	1.46	53727	2 2 .		
57	25.73	2245	1.36	53727	2 5 .		
50	28.89	2501	1.27	53727	2 8 .		
46	31.43	2824	1.27	53586	3 2 .		
39	37.22	3200	1.09	53640	3 6 .		
35	41.59	3579	1.02	53540	4 0 .		
33	44.55	3963	1.02	53480	4 5 .		
29	49.49	4398	0.93	53400	5 0 .		
25	57.66	4894	0.83	53400	5 6 .		
120	12.08	1116	3.99	60823	C 1 0 2 1 1 2 . _ M _ - _ _ 1 5 . A - -	376	160L
106	13.72	1265	3.7	62817	1 4 .		
87	16.63	1482	3.19	66523	1 6 .		
81	17.87	1640	3.16	67047	1 8 .		
75	19.29	1766	3.02	68664	2 0 .		
63	23.23	2065	2.61	71917	2 2 .		
58	25.27	2244	2.47	72823	2 5 .		
51	28.70	2540	2.25	74061	2 8 .		
46	31.85	2890	2.21	73069	3 2 .		

NOTE

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15.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
39	37.38	3294	1.84	77673	C 1 0 2 1 3 6 . _ M _ - _ _ 1 5 . A - -	376	160L
36	40.36	3535	1.74	79147	4 0 .		
33	43.65	3923	1.82	77759	4 5 .		
30	48.51	4347	1.67	78467	5 0 .		
25	58.85	5100	1.30	85327	5 6 .		
22	66.62	5750	1.18	85945	6 3 .		
21	69.18	6132	1.24	80870	7 1 .		
18	79.71	7034	1.09	83552	8 0 .		
16	91.32	7768	0.92	87400	9 0 .		
14	101.47	8589	0.84	87300	1 0 0		

15.0 kW

6 POLE

122	7.97	1095	2.29	46400	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 5 . C - -	365	180L
88	10.98	1505	1.89	49033	1 1 .		
79	12.30	1682	1.76	50033	1 2 .		
70	13.81	1886	1.64	50900	1 4 .		
58	16.68	2194	1.38	53179	1 6 .		
55	17.79	2415	1.41	51937	1 8 .		
49	19.88	2687	1.31	52351	2 0 .		
42	22.96	2995	1.14	53593	2 2 .		
38	25.73	3335	1.06	53595	2 5 .		
34	28.89	3736	0.99	53527	2 8 .		
31	31.43	4195	0.97	53459	3 2 .		
26	37.22	4748	0.85	53400	3 6 .		
122	7.95	1100	3.49	59266	C 1 0 2 1 8 . 0 _ M _ - _ _ 1 5 . C - -	462	180L
87	11.11	1533	3.30	63366	1 1 .		
80	12.08	1666	3.13	64500	1 2 .		
71	13.72	1887	2.90	66500	1 4 .		
58	16.63	2218	2.49	70700	1 6 .		
54	17.87	2445	2.47	70666	1 8 .		
50	19.29	2637	2.35	72300	2 0 .		
42	23.23	3077	1.94	76466	2 2 .		
38	25.27	3330	1.83	78100	2 5 .		
34	28.70	3765	1.66	80466	2 8 .		
30	31.85	4290	1.72	79300	3 2 .		
26	37.38	4876	1.35	84089	3 6 .		
24	40.36	5231	1.27	84710	4 0 .		
22	43.65	5830	1.39	81920	4 5 .		
20	48.51	6466	1.29	82873	5 0 .		
16	58.85	7518	0.94	87263	5 6 .		
15	66.62	8518	0.85	87300	6 3 .		
14	69.18	9086	0.95	87200	7 1 .		

18.5 kW

4 POLE

184	7.97	895	2.37	43286	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . A - -	351	180M
134	10.98	1230	1.97	45945	1 1 .		
119	12.30	1379	1.84	46853	1 2 .		
106	13.81	1540	1.72	48051	1 4 .		
88	16.68	1783	1.45	51284	1 6 .		
83	17.79	1980	1.47	50655	1 8 .		
74	19.88	2201	1.38	51618	2 0 .		
64	22.96	2444	1.19	53663	2 2 .		
57	25.73	2741	1.11	53663	2 5 .		
51	28.89	3054	1.04	53663	2 8 .		
47	31.43	3447	1.04	53400	3 2 .		
39	37.22	3907	0.89	53500	3 6 .		
35	41.59	4369	0.83	53400	4 0 .		
33	44.55	4838	0.83	53400	4 5 .		
132	11.11	1251	3.44	59054	C 1 0 2 1 1 1 . _ M _ - _ _ 1 8 . A - -	448	180M
122	12.08	1362	3.27	60144	1 2 .		
107	13.72	1544	3.03	62045	1 4 .		
88	16.63	1809	2.61	65844	1 6 .		
82	17.87	2002	2.59	66038	1 8 .		
76	19.29	2156	2.47	67583	2 0 .		
63	23.23	2522	2.14	70970	2 2 .		
58	25.27	2739	2.02	71794	2 5 .		
51	28.70	3101	1.84	72890	2 8 .		
46	31.85	3528	1.81	71292	3 2 .		
39	37.38	4021	1.51	76163	3 6 .		
36	40.36	4316	1.42	77526	4 0 .		

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
18.5 kW 4 POLE							
34	43.65	4790	1.49	75342	C 1 0 2 1 4 5 . _ M _ - _ _ 1 8 . A - -	448	180M
30	48.51	5306	1.37	76025	5 0 .		
25	58.85	6226	1.06	83513	5 6 .		
22	66.62	7019	0.96	84672	6 3 .		
21	69.18	7486	1.01	79085	7 1 .		
18	79.71	8586	0.89	82500	8 0 .		
18.5 kW 6 POLE							
122	7.97	1344	1.87	45560	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . C - -	423	200L
89	10.98	1847	1.54	47882	1 1 .		
79	12.30	2064	1.44	48742	1 2 .		
71	13.81	2314	1.34	49546	1 4 .		
58	16.68	2692	1.13	52889	1 6 .		
55	17.79	2963	1.15	51068	1 8 .		
49	19.88	3297	1.07	51675	2 0 .		
42	22.96	3675	0.93	53496	2 2 .		
38	25.73	4092	0.87	53500	2 5 .		
34	28.89	4584	0.81	53400	2 8 .		
123	7.95	1350	2.84	58597	C 1 0 2 1 8 . 0 _ M _ - _ _ 1 8 . C - -	522	200L
88	11.11	1881	2.69	62417	1 1 .		
81	12.08	2044	2.55	63473	1 2 .		
71	13.72	2316	2.37	65333	1 4 .		
59	16.63	2722	2.03	69673	1 6 .		
55	17.87	3001	2.01	69157	1 8 .		
51	19.29	3235	1.92	70666	2 0 .		
42	23.23	3775	1.58	75051	2 2 .		
39	25.27	4086	1.49	76560	2 5 .		
34	28.70	4620	1.35	78724	2 8 .		
31	31.85	5264	1.40	76640	3 2 .		
26	37.38	5983	1.10	82544	3 6 .		
24	40.36	6418	1.04	83455	4 0 .		
22.0 kW 4 POLE							
184	7.97	1064	1.99	42720	C 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . A - -	365	180L
134	10.98	1462	1.65	45173	1 1 .		
119	12.30	1640	1.55	45992	1 2 .		
106	13.81	1831	1.45	47096	1 4 .		
88	16.68	2120	1.22	50436	1 6 .		
83	17.79	2355	1.24	49421	1 8 .		
74	19.88	2617	1.16	50600	2 0 .		
64	22.96	2906	1.00	53600	2 2 .		
57	25.73	3260	0.94	53600	2 5 .		
51	28.89	3632	0.88	53600	2 8 .		
185	7.95	1066	3.50	54676	C 1 0 2 1 8 . 0 _ M _ - _ _ 2 2 . A - -	462	180L
132	11.11	1488	2.89	58426	1 1 .		
122	12.08	1620	2.75	59464	1 2 .		
107	13.72	1836	2.55	61273	1 4 .		
88	16.63	2151	2.20	65164	1 6 .		
82	17.87	2381	2.18	65029	1 8 .		
76	19.29	2564	2.08	66502	2 0 .		
63	23.23	2999	1.80	70023	2 2 .		
58	25.27	3258	1.70	70764	2 5 .		
51	28.70	3687	1.55	71719	2 8 .		
46	31.85	4195	1.53	69515	3 2 .		
39	37.38	4782	1.27	74652	3 6 .		
36	40.36	5133	1.20	75905	4 0 .		
34	43.65	5696	1.25	72925	4 5 .		
30	48.51	6310	1.15	73582	5 0 .		
25	58.85	7405	0.89	81700	5 6 .		
22	66.62	8347	0.81	83400	6 3 .		
21	69.18	8903	0.85	77300	7 1 .		
22.0 kW 6 POLE							
122	7.97	1599	1.57	44720	C 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . C - -	423	200L
89	10.98	2197	1.29	46731	1 1 .		
79	12.30	2455	1.21	47451	1 2 .		
71	13.81	2752	1.13	48193	1 4 .		
58	16.68	3201	0.95	52600	1 6 .		
55	17.79	3523	0.96	50200	1 8 .		
49	19.88	3921	0.90	51000	2 0 .		
123	7.95	1605	2.39	57928	C 1 0 2 1 8 . 0 _ M _ - _ _ 2 2 . C - -	522	200L
88	11.11	2236	2.26	61468	1 1 .		
81	12.08	2431	2.15	62446	1 2 .		
71	13.72	2754	1.99	64166	1 4 .		
59	16.63	3237	1.71	68646	1 6 .		
55	17.87	3568	1.69	67648	1 8 .		
51	19.29	3848	1.61	69033	2 0 .		
42	23.23	4490	1.33	73635	2 2 .		
39	25.27	4859	1.25	75020	2 5 .		
34	28.70	5494	1.14	76982	2 8 .		
31	31.85	6260	1.18	73980	3 2 .		
26	37.38	7115	0.92	81000	3 6 .		
24	40.36	7633	0.87	82200	4 0 .		

NOTE

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30.0 kW
4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Sizes
184	7.97	1452	1.46	41426	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . A - -	423	200L
134	10.98	1994	1.21	43408	1 1 .		
119	12.30	2237	1.14	44023	1 2 .		
106	13.81	2497	1.06	44911	1 4 .		
88	16.68	2891	0.89	48500	1 6 .		
83	17.79	3212	0.91	46600	1 8 .		
185	7.95	1454	2.56	53641	C 1 0 2 1 8 . 0 _ M _ - _ _ 3 0 . A - -	522	200L
132	11.11	2029	2.12	56991	1 1 .		
122	12.08	2209	2.01	57911	1 2 .		
107	13.72	2504	1.87	59508	1 4 .		
88	16.63	2934	1.61	63611	1 6 .		
82	17.87	3247	1.60	62723	1 8 .		
76	19.29	3497	1.52	64032	2 0 .		
63	23.23	4089	1.32	67858	2 2 .		
58	25.27	4442	1.25	68411	2 5 .		
51	28.70	5028	1.14	69042	2 8 .		
46	31.85	5721	1.12	65453	3 2 .		
39	37.38	6520	0.93	71200	3 6 .		
36	40.36	6999	0.88	72200	4 0 .		

30.0 kW
6 POLE

123	7.97	2169	1.16	42800	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . C - -	513	225M
89	10.98	2980	0.95	44100	1 1 .		
80	12.30	3331	0.89	44500	1 2 .		
71	13.81	3733	0.83	45100	1 4 .		
123	7.95	2178	1.76	56400	C 1 0 2 1 8 . 0 _ M _ - _ _ 3 0 . C - -	612	225M
88	11.11	3034	1.67	59300	1 1 .		
81	12.08	3299	1.58	60100	1 2 .		
71	13.72	3736	1.47	61500	1 4 .		
59	16.63	4392	1.26	66300	1 6 .		
55	17.87	4841	1.25	64200	1 8 .		
51	19.29	5220	1.19	65300	2 0 .		
42	23.23	6091	0.98	70400	2 2 .		
39	25.27	6593	0.92	71500	2 5 .		
34	28.70	7454	0.84	73000	2 8 .		
31	31.85	8493	0.87	67900	3 2 .		

37.0 kW
4 POLE

185	7.97	1784	1.19	40294	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 7 . A - -	478	225S
134	10.98	2451	0.99	41864	1 1 .		
120	12.30	2749	0.92	42300	1 2 .		
107	13.81	3069	0.86	43000	1 4 .		
186	7.95	1787	2.09	52735	C 1 0 2 1 8 . 0 _ M _ - _ _ 3 7 . A - -	577	225S
133	11.11	2494	1.72	55735	1 1 .		
122	12.08	2715	1.64	56552	1 2 .		
108	13.72	3078	1.52	57964	1 4 .		
89	16.63	3606	1.31	62252	1 6 .		
83	17.87	3991	1.30	60705	1 8 .		
76	19.29	4298	1.24	61870	2 0 .		
63	23.23	5026	1.07	65964	2 2 .		
58	25.27	5460	1.01	66352	2 5 .		
51	28.70	6181	0.92	66700	2 8 .		
46	31.85	7032	0.91	61900	3 2 .		

37.0 kW
4 POLE

185	7.97	2170	0.98	39000	C 0 9 2 1 8 . 0 _ M _ - _ _ 4 5 . A - -	513	225M
134	10.98	2982	0.81	40100	1 1 .		
186	7.95	2173	1.72	51700	C 1 0 2 1 8 . 0 _ M _ - _ _ 4 5 . A - -	612	225M
133	11.11	3033	1.42	54300	1 1 .		
122	12.08	3302	1.35	55000	1 2 .		
108	13.72	3743	1.25	56200	1 4 .		
89	16.63	4386	1.08	60700	1 6 .		
83	17.87	4854	1.07	58400	1 8 .		
76	19.29	5228	1.02	59400	2 0 .		
63	23.23	6113	0.88	63800	2 2 .		
58	25.27	6641	0.83	64000	2 5 .		

NOTE

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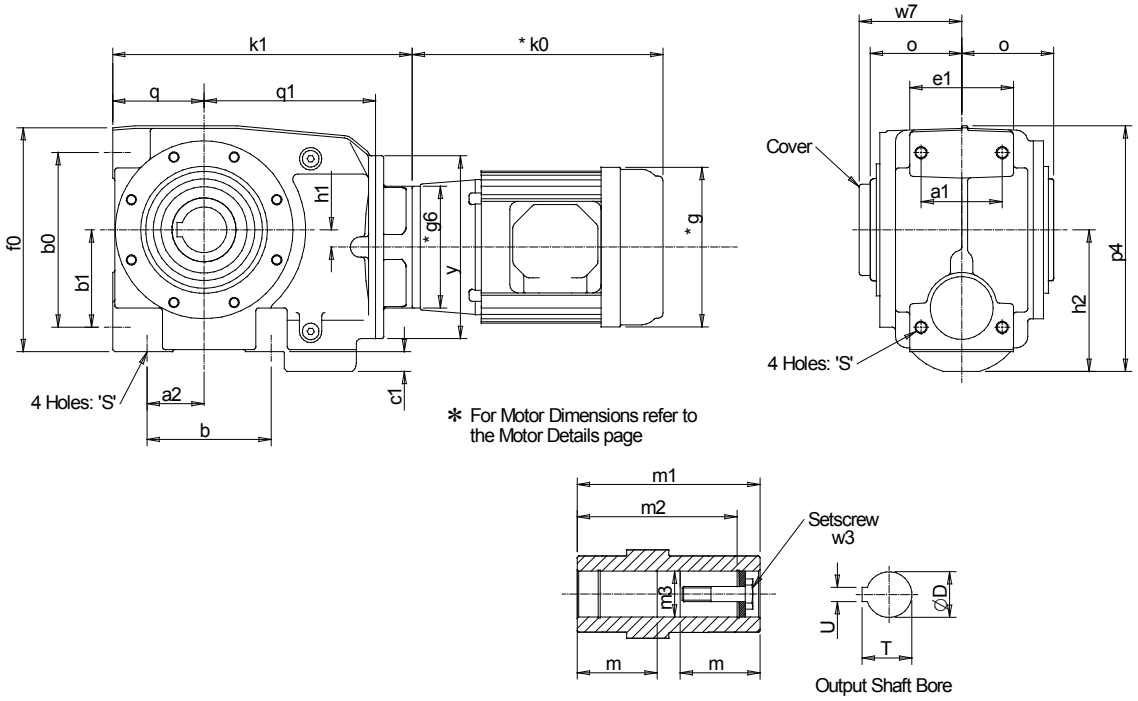
DIMENSIONS
DOUBLE REDUCTION

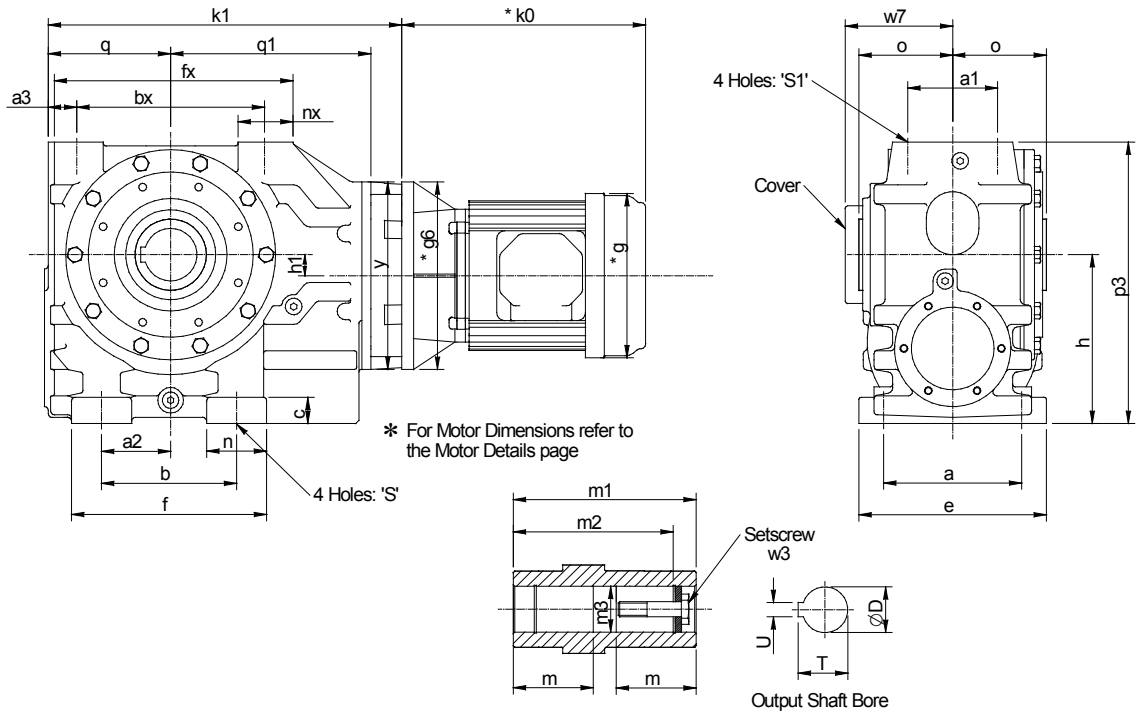


SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0321	54	35	63	80	40	9	70	139	5.3	79.5	62	148	54	109
C0421	56	35	80	118	65	7	80	158	15	93	65	168	64	119
C0521	68	45	100	142	77	16	86	177	13	112	70	200	68	134
C0621	80	56	122	172	96	20	102	218	17	139.5	90	243	90	169

SIZE	s	w7	y	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0321	M8x1.25, 15 deep	70	140	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0421	M10x1.5, 20 deep	74.5	140	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0521	M10x1.5, 18 deep	79	140	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0621	M12x1.75, 20 deep	101	180	45	70	180	156	45.3	49	14	M16x2.0, 70 long

IEC Motor Frame Size	C0321	C0421	C0521	C0621
	k1	k1	k1	k1
63	197	217	236	271
71	201	221	240	277
80	214	234	253	295
90	224	244	263	305
100	232	252	271	332
112	232	252	271	332
132	-	-	-	332

DIMENSIONS
DOUBLE REDUCTION

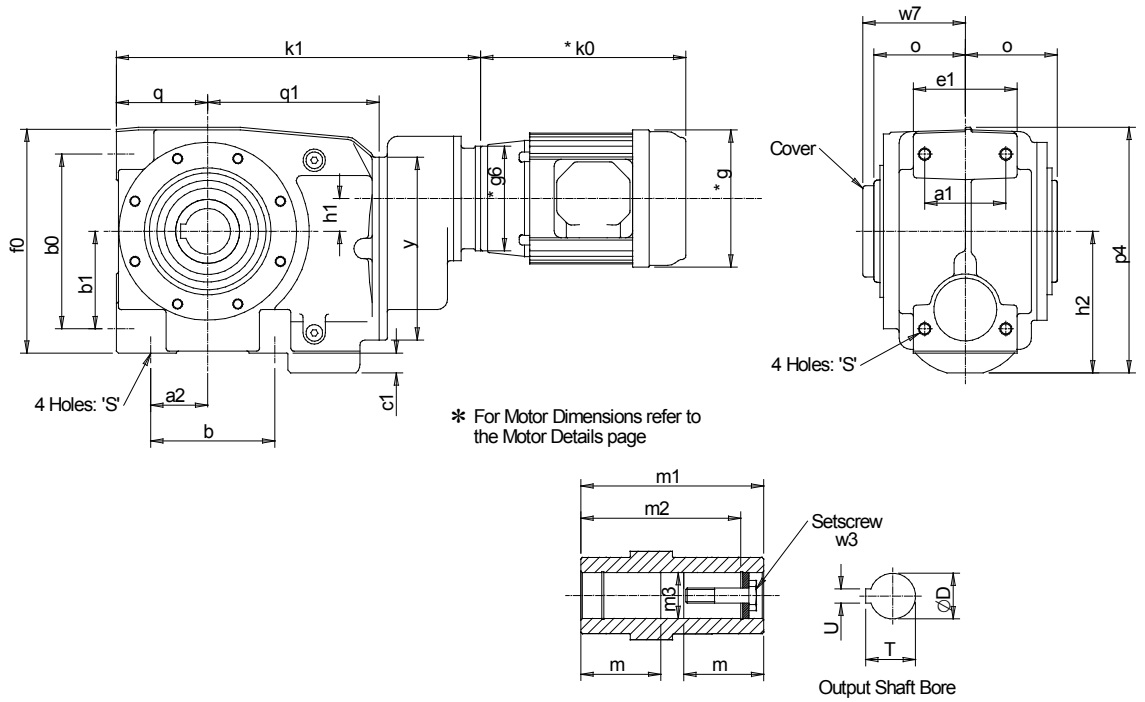


SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
C0721	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109	302	143	220
C0821	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125	375	168	255
C0921	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150	457	195	300
C1021	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175	565	235	355

SIZE	s	s1	w7	y	Hollow Output Bore							
					D	m	m1	m2	m3	T	U	w3
C0721	18	M20x2.5, 34 deep	125	212	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long
C0821	22	M20x2.5, 34 deep	143	250	70	90	250	220	70.5	75.1	20	M20x2.5, 80 long
C0921	26	M24x3, 45 deep	169	300	90	107.5	300	265	90.5	95.6	25	M24x3.0, 110 long
C1021	26	M24x3, 45 deep	198	360	100	132.5	350	313	100.5	106.6	28	M24x3.0, 110 long

IEC Motor Frame Size	C0721	C0821	C0921	C1021
	k1	k1	k1	k1
80	400	505	553	-
90	410	505	553	-
100	422	511	559	637
112	422	511	559	637
132	444	511	559	637
160	452	541	594	672
180	-	-	594	672
200	-	-	594	672
225	-	-	621	699

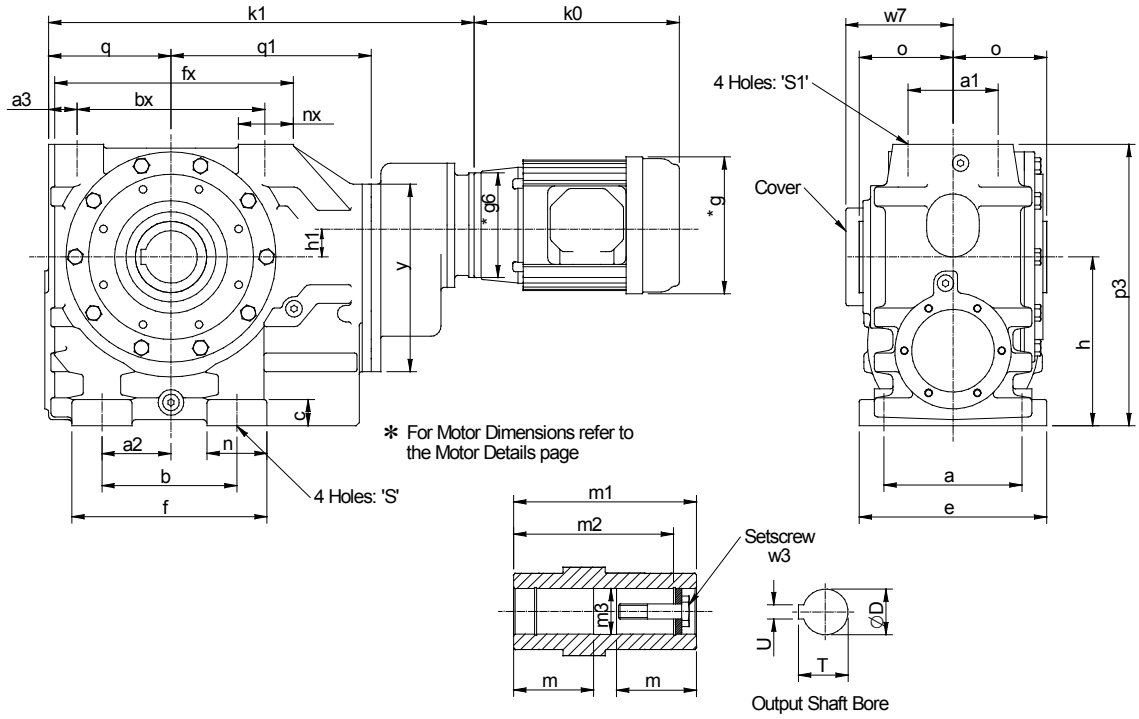
DIMENSIONS
TRIPLE REDUCTION



SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0331	54	35	63	80	40	9	70	139	30.75	79.5	62	148	54	109
C0431	56	35	80	118	65	7	80	158	21.2	93	65	168	64	119
C0531	68	46	100	142	77	16	86	177	23	112	70	200	68	134
C0631	80	56	122	172	96	20	102	218	30	139.5	90	243	90	169

SIZE	s	w7	y	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0331	M8x1.25, 15 deep	70	140	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0431	M10x1.5, 18 deep	74.5	140	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0531	M10x1.5, 18 deep	79	140	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0631	M12x1.75, 20 deep	101	180	45	70	180	156	45.3	49	14	M16x2.0, 70 long

IEC Motor Frame Size	C0331	C0431	C0531	C0631
	k1	k1	k1	k1
63	253	273	292	359
71	257	277	296	363
80	270	290	309	376
90	280	300	319	386
100	288	308	327	394
112	288	308	327	394

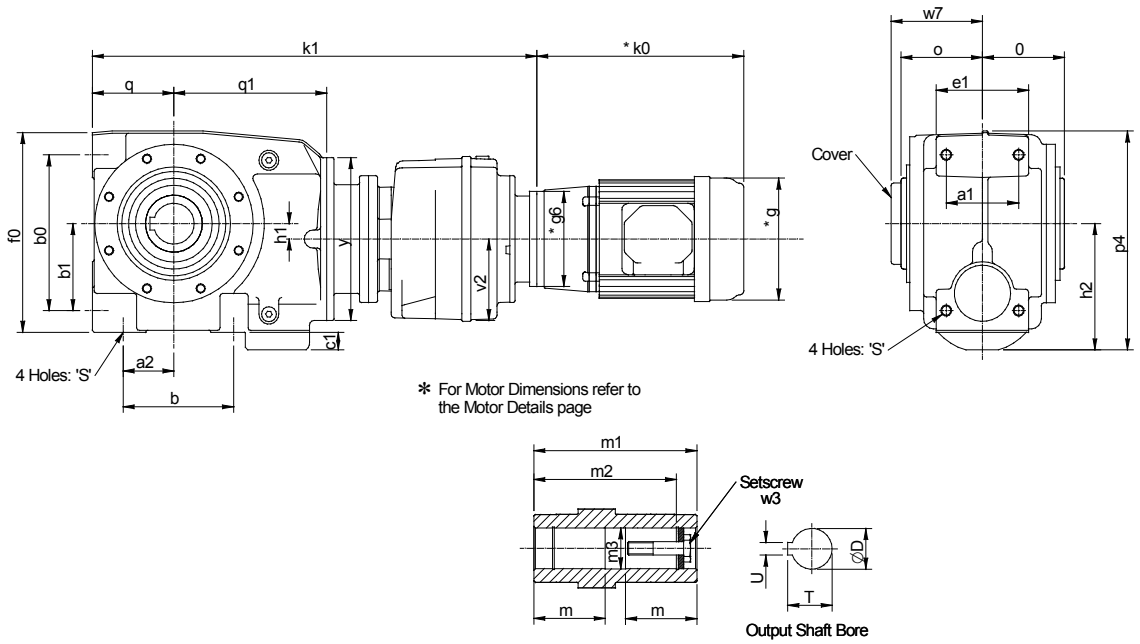


SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
C0731	150	100	75	35.5	135	215	28	185	202	280	180	34	67	63	109	302	143	220

SIZE	s	s1	w7	y	Hollow Output Bore							
					D	m	m1	m2	m3	T	U	w3
C0731	18	M20x2.5, 34 deep	125	212	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long

IEC Motor Frame Size	C0731
	k1
63	461
71	467
80	485
90	495
100	522
112	522
132	522

DIMENSIONS
QUADRUPLE REDUCTION

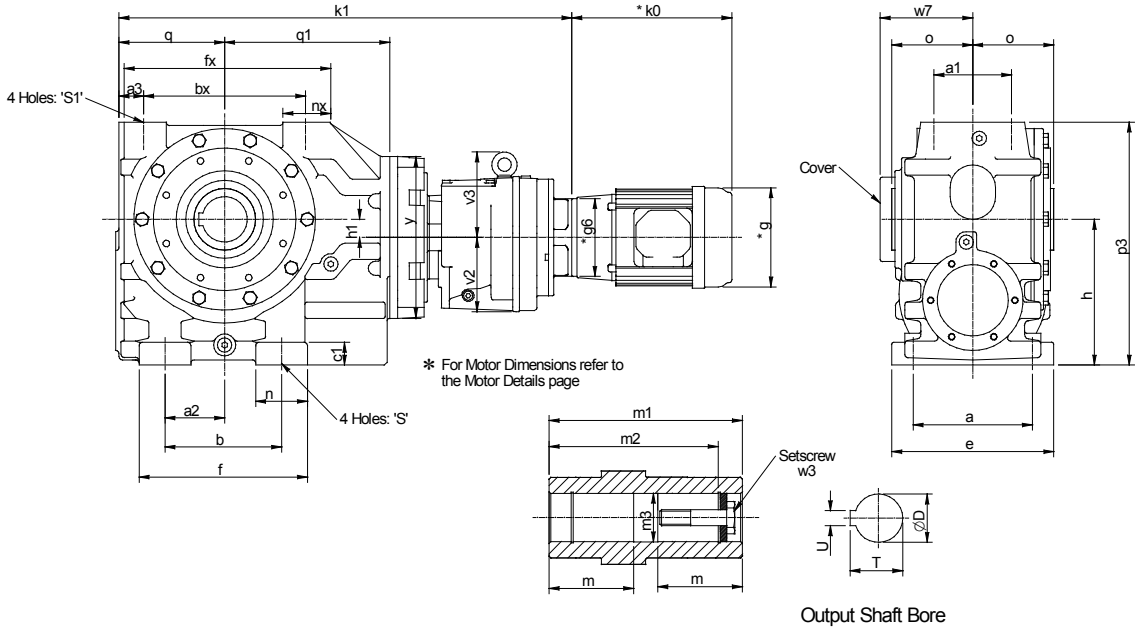


SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0341	54	35	63	80	40	9	70	139	5.3	79.5	62	148	54	109
C0441	56	35	80	118	65	7	80	158	15	93	65	168	64	119
C0541	68	45	100	142	77	16	86	177	13	112	70	200	68	134
C0641	80	56	122	172	96	20	102	218	17	139.5	90	243	90	169

SIZE	s	v2	w7	y	Hollow Output Bore							
					D	m	m1	m2	m3	T	U	w3
C0341	M8x1.25, 15 deep	76	70	140	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0441	M10x1.5, 20 deep	76	74.5	140	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0541	M10x1.5, 18 deep	76	79	140	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0641	M12x1.75, 20 deep	91	101	180	45	70	180	156	45.3	49	14	M16x2.0, 70 long

IEC Motor Frame Size	C0341	C0441	C0541	C0641
	k1	k1	k1	k1
63	383	403	422	495
71	387	407	426	499
80	400	420	439	512
90	410	430	449	522
100	418	438	457	530
112	418	438	457	530

DIMENSIONS
QUADRUPLE REDUCTION

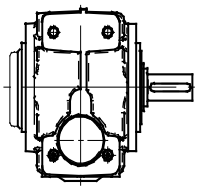


SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1		n x	o	p3	q	q1
C0741	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109	302	143	220
C0841	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125	375	168	255
C0941	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150	457	195	300
C1041	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175	565	235	355

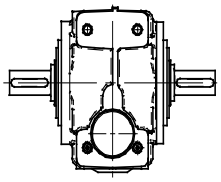
SIZE	s	s1	v2	v3	w7	y	Hollow Output Bore							
							D	m	m1	m2	m3	T	U	w3
C0741	18	M20x2.5, 34 deep	91	-	125	212	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long
C0841	22	M20x2.5, 34 deep	115	-	143	250	70	90	250	220	70.5	75.1	20	M20x2.5, 80 long
C0941	26	M24x3, 45 deep	115	-	169	300	90	107.5	300	265	90.5	95.6	25	M24x3.0, 110 long
C1041	26	M24x3, 45 deep	140	155	198	360	100	132.5	350	313	100.5	106.6	28	M24x3.0, 110 long

IEC Motor Frame Size	C0741	C0841	C0941	C1041
	k1	k1	k1	k1
63	600	680	763	-
70	604	686	769	-
80	617	704	787	919
90	627	714	797	929
100	635	741	824	941
112	635	741	824	941
132	-	741	824	963
160	-	-	-	971

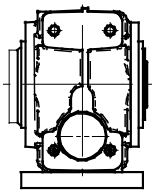
DIMENSIONS
OUTPUT OPTIONS



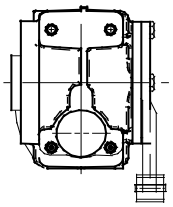
Single Extended Outputshaft



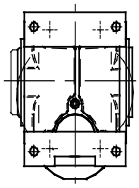
Double Extended Outputshaft



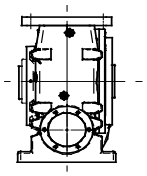
Base Mounted Feet



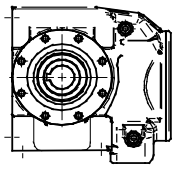
Torque Bracket



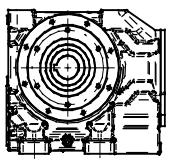
End Mounted Feet



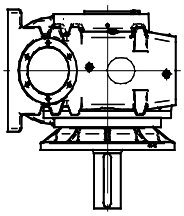
Top Mounted Feet



B14 (C) Flange Mounting



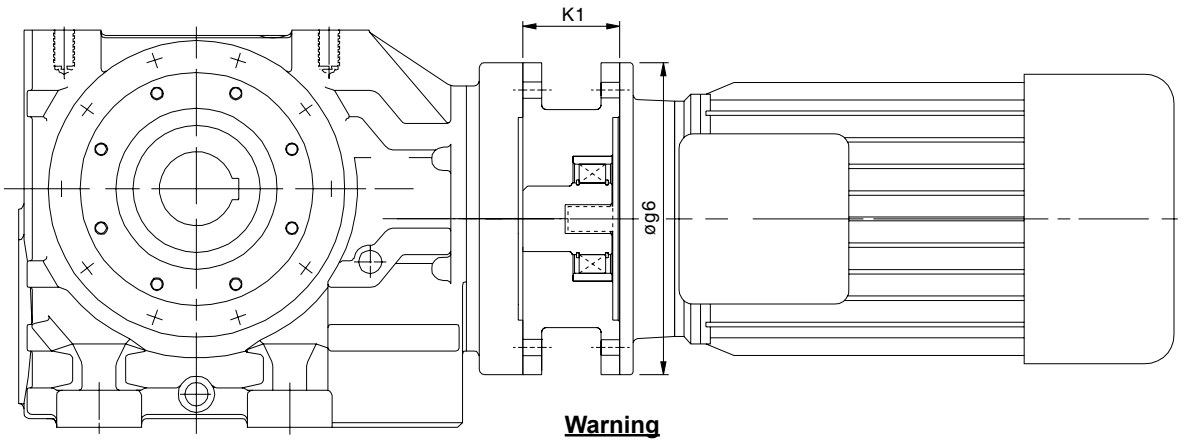
B5 (D) Flange Mounting



Agitator Units
Non-Standard
Special Build

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

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



Warning

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

IEC B5 FLANGE

Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	øg6	K1
100	670	170	250	70
112	670	170	250	70
132	620	940	300	95
160	620	940	350	130
180	620	940	350	130
200	550	1260	400	130

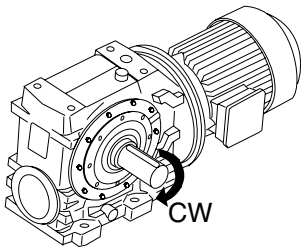
NEMA C FLANGE

Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	øg6	K1
182TC / 184TC	670	300	228	95.25
213TC / 215TC	670	300	228	95.25
254TC / 256TC	620	940	228	120.65
284TC / 286TC	620	940	280	136.50
324TC / 326TC	550	1260	330	152.40

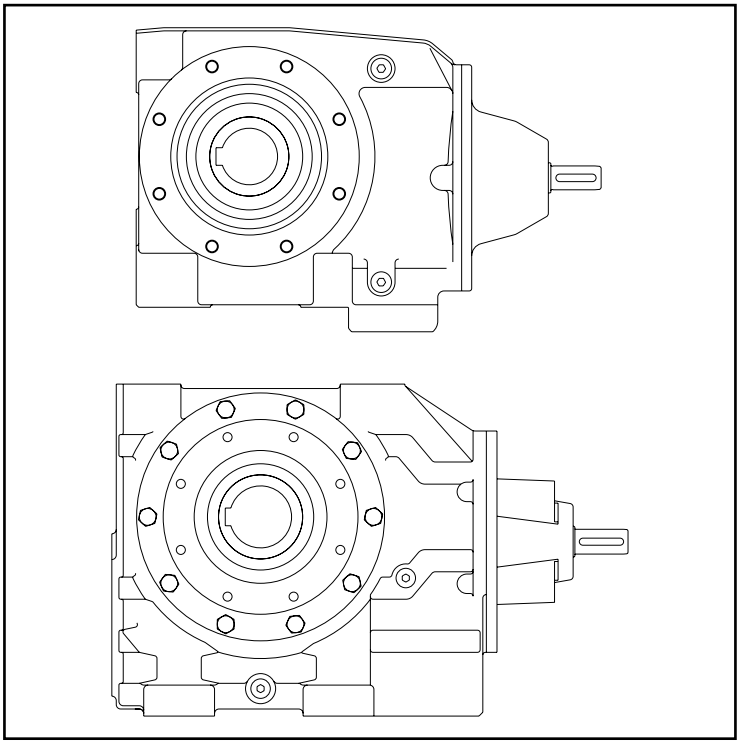
When a backstop module is fitted dimension K1 should be added to the overall length of the geared motor assembly.

Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram) see page 21 for column 20 entry

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



NOTES



REDUCER

SERIES C

OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

Maximum permissible overhung loads

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

Permissible overhung loads vary according to the direction of rotation. The values tabulated are for the most unfavourable direction with the unit transmitting full rated power and the load P applied midway along the shaft extension. Hence they can sometimes be increased for a more favourable direction of rotation, or if the power transmitted is less than the rated capacity of the gear unit, or if the load is applied nearer to the gear unit case. Refer to our Application Engineers for further details. In any event, the sprocket, gear etc. should be positioned as close as possible to the gear unit case in order to reduce bearing loads and shaft stresses, and to prolong life. All units will accept 100% momentary overload on stated capacities.

Overhung load (Newtons)

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

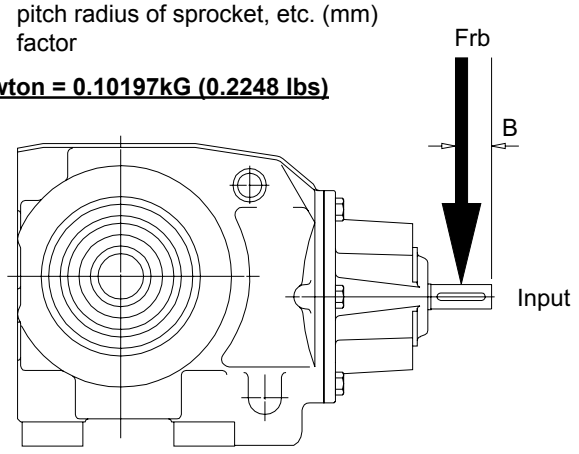
where

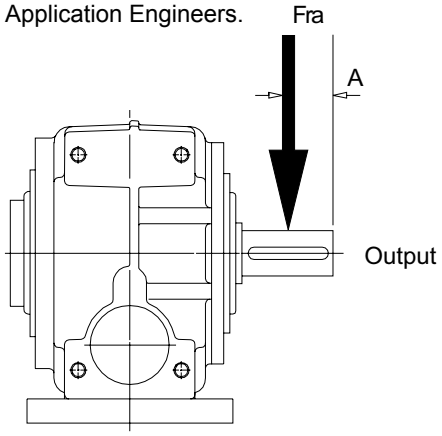
P = equivalent overhung load (Newtons)
kW = power transmitted by the shaft (kilowatts)
N = speed of shaft (rpm)
R = pitch radius of sprocket, etc. (mm)
K = factor

Overhung load	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 our Application Engineers.

1 Newton = 0.10197kG (0.2248 lbs)





Distance midway along the shaft extension

Size of unit	No. of Reductions	Dimension A (mm)	Dimension B (mm)
C03	2 - 3	17.5	20
C04	2 - 3	23	20
C05	2 - 3	30	20
C06	2 - 5	31.5	20
C07	2	38	25
C07	3 - 5	38	20
C08	2	60	30
C08	4 - 5	60	20
C09	2	67.5	40
C09	4 - 5	67.5	20
C10	2	85	55
C10	4	85	25
C10	5	85	20

Inputshaft Overhung Loads, Frb (Kn) 1450 rpm - Two Three and Four Stage Units

	C03	C04	C05	C06	C07	C08	C09	C10
2 Stage	1.50	1.50	1.25	1.05	2.1	3.1	3.5	4.5
4 Stage	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.80

For output overhung load Fra consult ratings tables pages 22 to 62 and pages 73 to 93.

Axial Thrust Capacities (Newtons) No check or calculation is required for axial loads (FA) towards or away from the unit up to 50% of the permissible overhung load. If the axial thrust considerably exceeds these values or if there is a combination of axial thrust loads and overhung loads please contact our Application Engineers.

DOUBLE REDUCTION RATINGS
SIZES C03 - C04

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0321						C0421					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	337		66	84	2.8	2.78	337		110	86	4.53	5.27
	1450	168	8.591	80	83	1.72	2.78	168	8.591	137	85	2.84	5.27
8 . 0	960	111		88	83	1.26	2.78	111		150	84	2.09	5.27
	725	84		95	82	1.03	2.78	84		159	83	1.7	5.27
	2900	249		74	84	2.33	2.78	249		125	86	3.81	5.27
	1450	124	11.61	87	83	1.39	2.78	124	11.61	149	84	2.31	5.27
1 1 .	960	82		96	81	1.03	2.78	82		163	83	1.7	5.27
	725	62		102	80	0.83	2.78	62		172	82	1.37	5.27
	2900	219		77	84	2.12	2.78	219		131	86	3.52	5.27
	1450	109	13.2	90	82	1.27	2.78	109	13.2	154	84	2.11	5.27
1 2 .	960	72		99	81	0.932	2.78	72		167	82	1.55	5.27
	725	54		105	80	0.754	2.78	54		177	81	1.25	5.27
	2900	193		79	83	1.95	2.78	193		136	85	3.24	5.27
	1450	96	14.95	93	82	1.16	2.78	96	14.95	159	83	1.94	5.27
1 4 .	960	64		102	80	0.854	2.78	64		173	82	1.42	5.27
	725	48		109	80	0.69	2.78	48		183	81	1.15	5.27
	2900	177		69	74	1.76	2.78	177		114	77	2.76	5.27
	1450	88	16.36	87	73	1.11	2.78	88	16.36	144	75	1.78	5.27
1 6 .	960	58		96	71	0.829	2.78	58		158	73	1.33	5.27
	725	44		103	70	0.68	2.78	44		168	72	1.08	5.27
	2900	151		84	83	1.63	2.78	151		145	85	2.72	5.27
	1450	75	19.12	99	81	0.973	2.78	75	19.12	168	82	1.62	5.27
1 8 .	960	50		108	80	0.712	2.78	50		183	82	1.18	5.27
	725	37		115	79	0.576	2.78	37		194	80	0.958	5.27
	2900	140		86	83	1.55	2.78	140		148	84	2.59	5.27
	1450	70	20.61	101	81	0.923	2.78	70	20.61	171	82	1.54	5.27
2 0 .	960	46		110	79	0.676	2.78	46		187	81	1.13	5.27
	725	35		117	79	0.546	2.78	35		198	80	0.91	5.27
	2900	131		79	74	1.48	2.78	131		129	76	2.32	5.27
	1450	65	22.11	94	72	0.908	2.78	65	22.11	156	74	1.45	5.27
2 2 .	960	43		104	70	0.677	2.78	43		170	72	1.08	5.27
	725	32		111	69	0.552	2.78	32		181	71	0.881	5.27
	2900	115		82	73	1.37	2.78	115		135	76	2.15	5.27
	1450	57	25.14	97	71	0.831	2.78	57	25.14	161	73	1.33	5.27
2 5 .	960	38		107	69	0.618	2.78	38		175	71	0.986	5.27
	725	28		114	68	0.504	2.78	28		186	70	0.805	5.27
	2900	101		85	73	1.26	2.78	101		142	75	2.01	5.27
	1450	50	28.48	101	70	0.765	2.78	50	28.48	167	72	1.23	5.27
2 8 .	960	33		111	69	0.568	2.78	33		181	71	0.906	5.27
	725	25		118	68	0.463	2.78	25		192	69	0.739	5.27
	2900	86		98	81	1.09	2.78	86		167	83	1.82	5.27
	1450	43	33.71	113	79	0.644	2.78	43	33.71	192	80	1.08	5.27
3 2 .	960	28		125	78	0.476	2.78	28		209	79	0.787	5.27
	725	21		137	78	0.398	2.78	21		207	78	0.595	5.27
	2900	79		91	72	1.06	2.78	79		152	75	1.7	5.27
	1450	39	36.43	107	69	0.645	2.78	39	36.43	176	71	1.03	5.27
3 6 .	960	26		117	68	0.478	2.78	26		192	69	0.763	5.27
	725	19		125	67	0.389	2.78	19		203	68	0.623	5.27
	2900	73		93	72	1.01	2.78	73		155	74	1.62	5.27
	1450	36	39.26	110	69	0.614	2.78	36	39.26	179	71	0.979	5.27
4 0 .	960	24		120	68	0.454	2.78	24		196	69	0.727	5.27
	725	18		127	66	0.37	2.78	18		208	68	0.592	5.27
	2900	63		105	80	0.877	2.78	63		179	82	1.46	5.27
	1450	31	45.5	122	79	0.518	2.78	31	45.5	206	79	0.867	5.27
4 5 .	960	21		138	77	0.395	2.78	21		207	78	0.585	5.27
	725	15		149	76	0.326	2.78	15		205	77	0.442	5.27

DOUBLE REDUCTION RATINGS
SIZES C03 - C04

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0321						C0421					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	54		109	80	0.78	2.78	54		185	81	1.3	5.27
	1450	27	53.31	127	78	0.464	2.78	27	53.31	209	79	0.756	5.27
5 0 .	960	18		145	77	0.357	2.78	18		206	78	0.5	5.27
	725	13		149	76	0.28	2.78	13		204	77	0.378	5.27
	2900	51		104	70	0.798	2.78	51		171	72	1.28	5.27
	1450	25	56.19	120	68	0.479	2.78	25	56.19	196	69	0.766	5.27
5 6 .	960	17		131	66	0.354	2.78	17		213	67	0.567	5.27
	725	12		141	65	0.293	2.78	12		227	66	0.464	5.27
	2900	45		107	70	0.726	2.78	45		176	72	1.16	5.27
	1450	22	64.21	124	67	0.437	2.78	22	64.21	202	68	0.699	5.27
6 3 .	960	14		135	65	0.323	2.78	14		220	67	0.517	5.27
	725	11		147	64	0.27	2.78	11		238	66	0.428	5.27
	2900	38		124	78	0.644	2.78	38		211	80	1.08	5.27
	1450	19	74.55	143	76	0.381	2.78	19	74.55	206	77	0.542	5.27
7 1 .	960	12		149	76	0.266	2.78	12		203	76	0.359	5.27
	725	9		149	75	0.203	2.78	9		201	76	0.271	5.27
	2900	35		127	78	0.595	2.78	35		197	79	0.911	5.27
	1450	17	82.83	147	76	0.353	2.78	17	82.83	192	77	0.456	5.27
8 0 .	960	11		149	75	0.241	2.78	11		189	76	0.302	5.27
	725	8		149	75	0.183	2.78	8		187	75	0.228	5.27
	2900	33		121	69	0.618	2.78	33		199	70	0.994	5.27
	1450	16	86.67	139	66	0.37	2.78	16	86.67	227	67	0.592	5.27
9 0 .	960	11		149	64	0.27	2.78	11		247	65	0.438	5.27
	725	8		149	63	0.207	2.78	8		263	64	0.358	5.27
	2900	28		124	68	0.547	2.78	28		204	69	0.879	5.27
	1450	14	101.5	143	65	0.329	2.78	14	101.5	234	66	0.528	5.27
1 0 0	960	9		149	63	0.233	2.78	9		255	65	0.39	5.27
	725	7		149	63	0.178	2.78	7		277	64	0.325	5.27
	2900	25		132	77	0.456	2.78	25		134	78	0.456	5.27
	1450	12	114.3	129	75	0.228	2.78	12	114.3	130	76	0.228	5.27
1 1 2	960	8		128	75	0.151	2.78	8		129	75	0.151	5.27
	725	6		127	74	0.114	2.78	6		127	74	0.114	5.27
	2900	22		130	77	0.395	2.78	22		131	78	0.395	5.27
	1450	11	129.9	127	75	0.197	2.78	11	129.9	128	76	0.197	5.27
1 2 5	960	7		125	74	0.131	2.78	7		126	74	0.131	5.27
	725	5		124	73	0.099	2.78	5		125	74	0.099	5.27
	2900	20		133	66	0.431	2.78	20		218	68	0.69	5.27
	1450	10	142	149	63	0.251	2.78	10	142	252	65	0.416	5.27
1 4 0	960	6		149	62	0.17	2.78	6		278	63	0.311	5.27
	725	5		149	61	0.13	2.78	5		278	62	0.238	5.27
	2900	18		136	66	0.399	2.78	18		223	67	0.639	5.27
	1450	9	157.8	149	63	0.228	2.78	9	157.8	257	64	0.385	5.27
1 6 0	960	6		149	62	0.154	2.78	6		278	63	0.282	5.27
	725	4		149	61	0.118	2.78	4		278	62	0.216	5.27
	2900	13		146	65	0.315	2.78	13		214	65	0.456	5.27
	1450	6	217.8	149	62	0.168	2.78	6	217.8	206	63	0.228	5.27
2 1 2	960	4		149	61	0.113	2.78	4		201	61	0.151	5.27
	725	3		149	60	0.087	2.78	3		198	61	0.114	5.27
	2900	11		149	64	0.287	2.78	11		209	65	0.395	5.27
	1450	5	247.5	149	61	0.149	2.78	5	247.5	201	63	0.197	5.27
2 5 0	960	3		149	60	0.101	2.78	3		196	61	0.131	5.27
	725	2		149	59	0.077	2.78	2		194	60	0.099	5.27
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DOUBLE REDUCTION RATINGS
SIZES C05 - C06

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0521						C0621					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	348		154	88	6.42	7.41	352		273	89	11.3	11.4
	1450	174	8.312	209	87	4.39	7.41	176	8.232	372	90	7.62	11.4
8 . 0	960	115		243	85	3.44	7.41	116		439	90	5.99	11.4
	725	87		241	85	2.59	7.41	88		487	89	5.05	11.4
	2900	248		179	87	5.35	7.41	250		319	90	9.34	11.4
	1450	124	11.66	238	86	3.62	7.41	125	11.57	427	89	6.26	11.4
1 1 .	960	82		277	85	2.82	7.41	82		498	89	4.88	11.4
	725	62		306	84	2.37	7.41	62		550	88	4.1	11.4
	2900	225		187	87	5.08	7.41	223		336	90	8.76	11.4
	1450	112	12.85	247	85	3.42	7.41	111	12.97	446	89	5.85	11.4
1 2 .	960	74		287	84	2.66	7.41	74		519	88	4.55	11.4
	725	56		316	84	2.23	7.41	55		572	88	3.82	11.4
	2900	198		197	87	4.74	7.41	199		353	90	8.21	11.4
	1450	99	14.59	259	85	3.17	7.41	99	14.56	466	89	5.46	11.4
1 4 .	960	65		300	84	2.46	7.41	65		540	88	4.23	11.4
	725	49		329	83	2.06	7.41	49		595	87	3.55	11.4
	2900	180		250	81	5.84	7.41	182		389	82	9.06	11.4
	1450	90	16.09	320	78	3.86	7.41	91	15.93	517	82	6.03	11.4
1 6 .	960	59		348	76	2.86	7.41	60		582	80	4.57	11.4
	725	45		367	75	2.32	7.41	45		613	79	3.69	11.4
	2900	156		218	86	4.14	7.41	156		390	89	7.17	11.4
	1450	78	18.53	282	84	2.74	7.41	78	18.49	508	88	4.72	11.4
1 8 .	960	51		325	83	2.12	7.41	51		587	87	3.65	11.4
	725	39		355	82	1.77	7.41	39		644	87	3.05	11.4
	2900	137		229	86	3.85	7.41	138		410	89	6.66	11.4
	1450	68	21.05	295	84	2.54	7.41	69	20.96	531	88	4.37	11.4
2 0 .	960	45		338	82	1.96	7.41	45		612	87	3.37	11.4
	725	34		370	82	1.63	7.41	34		670	86	2.81	11.4
	2900	128		287	79	4.86	7.41	129		450	82	7.44	11.4
	1450	64	22.56	345	77	3.03	7.41	64	22.4	579	81	4.87	11.4
2 2 .	960	42		372	74	2.23	7.41	42		624	79	3.55	11.4
	725	32		393	73	1.81	7.41	32		655	78	2.86	11.4
	2900	116		298	79	4.6	7.41	115		471	82	6.97	11.4
	1450	58	24.86	352	76	2.83	7.41	57	25.11	594	80	4.49	11.4
2 5 .	960	38		380	74	2.08	7.41	38		636	78	3.25	11.4
	725	29		401	72	1.69	7.41	28		671	77	2.64	11.4
	2900	102		311	79	4.25	7.41	102		493	81	6.52	11.4
	1450	51	28.24	362	75	2.59	7.41	51	28.18	611	80	4.13	11.4
2 8 .	960	33		389	73	1.89	7.41	34		652	78	2.99	11.4
	725	25		411	72	1.54	7.41	25		688	77	2.42	11.4
	2900	89		270	85	2.98	7.41	86		490	88	5.04	11.4
	1450	44	32.55	341	82	1.93	7.41	43	33.48	623	87	3.26	11.4
3 2 .	960	29		387	81	1.47	7.41	28		709	86	2.48	11.4
	725	22		408	81	1.18	7.41	21		766	85	2.05	11.4
	2900	80		331	77	3.62	7.41	81		541	81	5.67	11.4
	1450	40	35.86	378	74	2.16	7.41	40	35.79	637	78	3.45	11.4
3 6 .	960	26		409	72	1.59	7.41	26		686	76	2.52	11.4
	725	20		431	71	1.29	7.41	20		724	75	2.04	11.4
	2900	71		341	77	3.32	7.41	71		567	81	5.27	11.4
	1450	35	40.74	388	73	1.97	7.41	35	40.57	651	78	3.13	11.4
4 0 .	960	23		420	71	1.45	7.41	23		705	76	2.3	11.4
	725	17		443	70	1.18	7.41	17		743	75	1.86	11.4
	2900	61		306	83	2.38	7.41	61		554	87	4.07	11.4
	1450	30	46.84	382	81	1.52	7.41	30	47.32	695	86	2.6	11.4
4 5 .	960	20		406	80	1.09	7.41	20		766	85	1.92	11.4
	725	15		402	79	0.823	7.41	15		766	84	1.47	11.4

DOUBLE REDUCTION RATINGS
SIZES C05 - C06

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0521						C0621					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	56		315	83	2.26	7.41	57		567	87	3.91	11.4
	1450	28	50.93	391	81	1.44	7.41	28	50.52	709	86	2.49	11.4
5 0 .	960	18		405	80	1	7.41	19		766	84	1.81	11.4
	725	14		401	79	0.758	7.41	14		766	83	1.38	11.4
	2900	52		368	75	2.68	7.41	52		623	79	4.28	11.4
	1450	26	55.45	415	72	1.58	7.41	26	55.71	698	76	2.49	11.4
5 6 .	960	17		449	70	1.16	7.41	17		755	74	1.83	11.4
	725	13		474	69	0.944	7.41	13		766	73	1.43	11.4
	2900	46		378	74	2.45	7.41	44		642	79	3.83	11.4
	1450	23	63	427	71	1.45	7.41	22	64.8	721	75	2.24	11.4
6 3 .	960	15		461	69	1.06	7.41	14		766	73	1.62	11.4
	725	11		482	68	0.853	7.41	11		766	72	1.24	11.4
	2900	39		354	81	1.8	7.41	39		644	86	3.07	11.4
	1450	19	73.37	406	79	1.06	7.41	19	73.92	766	84	1.87	11.4
7 1 .	960	13		400	78	0.699	7.41	12		766	83	1.25	11.4
	725	9		396	78	0.528	7.41	9		766	82	0.956	11.4
	2900	35		367	81	1.67	7.41	35		663	86	2.9	11.4
	1450	17	82.67	404	79	0.939	7.41	17	80.94	766	84	1.71	11.4
8 0 .	960	11		398	78	0.621	7.41	11		766	83	1.15	11.4
	725	8		395	77	0.469	7.41	8		766	82	0.876	11.4
	2900	31		424	72	1.96	7.41	31		720	77	3.1	11.4
	1450	15	90.67	478	70	1.15	7.41	15	91.58	766	74	1.72	11.4
9 0 .	960	10		482	68	0.791	7.41	10		766	72	1.17	11.4
	725	7		482	66	0.607	7.41	7		766	70	0.901	11.4
	2900	29		429	72	1.84	7.41	29		726	77	2.94	11.4
	1450	14	98.57	482	69	1.08	7.41	14	97.78	766	73	1.62	11.4
1 0 0	960	9		482	67	0.732	7.41	9		766	72	1.1	11.4
	725	7		482	66	0.562	7.41	7		766	70	0.848	11.4
	2900	26		399	81	1.38	7.41	26		728	85	2.36	11.4
	1450	13	109.1	393	78	0.698	7.41	13	110.6	748	83	1.24	11.4
1 1 2	960	8		388	77	0.462	7.41	8		739	82	0.822	11.4
	725	6		384	77	0.349	7.41	6		733	81	0.621	11.4
	2900	23		391	80	1.2	7.41	23		541	84	1.58	11.4
	1450	11	124	386	78	0.607	7.41	11	124	530	82	0.79	11.4
1 2 5	960	7		381	77	0.402	7.41	7		523	81	0.523	11.4
	725	5		378	76	0.304	7.41	5		519	80	0.395	11.4
	2900	20		455	70	1.39	7.41	20		766	75	2.18	11.4
	1450	10	142	482	67	0.768	7.41	10	143.1	766	71	1.14	11.4
1 4 0	960	6		482	65	0.521	7.41	6		766	69	0.775	11.4
	725	5		482	65	0.399	7.41	5		766	68	0.595	11.4
	2900	18		466	70	1.27	7.41	18		766	74	2.01	11.4
	1450	9	160	482	67	0.687	7.41	9	156.7	766	71	1.05	11.4
1 6 0	960	6		482	65	0.466	7.41	6		766	69	0.712	11.4
	725	4		482	64	0.357	7.41	4		766	68	0.547	11.4
	2900	13		482	68	1.02	7.41	13		766	72	1.5	11.4
	1450	6	211.1	482	66	0.529	7.41	6	214	766	69	0.785	11.4
2 1 2	960	4		482	64	0.358	7.41	4		766	68	0.533	11.4
	725	3		482	63	0.274	7.41	3		766	66	0.409	11.4
	2900	12		482	68	0.903	7.41	12		766	72	1.35	11.4
	1450	6	240	482	65	0.47	7.41	6	240	766	69	0.706	11.4
2 5 0	960	4		482	63	0.318	7.41	4		766	67	0.479	11.4
	725	3		482	63	0.243	7.41	3		766	66	0.368	11.4
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DOUBLE REDUCTION RATINGS
SIZES C07 - C08

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0721						C0821					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	367		468	91	19.7	0	373		828	91	35.4	0
	1450	183	7.901	618	92	12.9	20.7	186	7.77	977	92	20.7	26.3
8 . 0	960	121		615	92	8.53	22.7	123		974	92	13.7	28.8
	725	91		612	91	6.44	24.8	93		970	92	10.3	31.6
	2900	264		546	92	16.5	0	263		978	92	29.3	0
	1450	132	10.94	734	92	11.1	22.1	131	11.01	1320	92	19.7	27.7
1 1 .	960	87		849	91	8.53	24	87		1380	92	13.7	30.2
	725	66		843	91	6.44	25.3	65		1370	92	10.3	34.5
	2900	235		576	92	15.5	0	237		1030	92	27.7	0
	1450	117	12.29	768	92	10.3	22.7	118	12.24	1380	93	18.5	28.3
1 2 .	960	78		896	91	8.03	24.8	78		1530	92	13.7	30.8
	725	58		944	91	6.44	26.9	59		1520	92	10.3	34.2
	2900	214		600	92	14.7	0	213		1080	92	26.1	0
	1450	107	13.52	796	92	9.75	23.4	106	13.61	1430	92	17.3	29.2
1 4 .	960	71		927	91	7.57	25.5	70		1670	91	13.5	31.4
	725	53		1020	90	6.36	26.9	53		1680	91	10.3	33.8
	2900	183		586	87	13	20.7	186		1040	87	23.3	24.0
	1450	91	15.8	716	88	7.81	25.5	93	15.54	1390	89	15.2	31.6
1 6 .	960	60		798	88	5.8	26.9	61		1620	89	11.8	34.3
	725	45		851	87	4.71	26.9	46		1750	88	9.71	35.0
	2900	164		673	92	12.6	26.9	164		1200	92	22.5	25.0
	1450	82	17.66	879	91	8.29	26.9	82	17.6	1580	92	14.8	31.3
1 8 .	960	54		1020	90	6.42	26.9	54		1830	91	11.5	33.8
	725	41		1120	90	5.37	26.9	41		2020	90	9.64	35.5
	2900	144		709	92	11.7	26.9	146		1260	92	21.1	25.5
	1450	72	20.07	921	91	7.66	26.9	73	19.76	1650	92	13.8	32.4
2 0 .	960	47		1060	90	5.92	26.9	48		1910	91	10.7	35.0
	725	36		1170	90	4.94	26.9	36		2100	90	8.96	36.4
	2900	132		648	87	10.3	26.9	131		1210	88	18.9	26.0
	1450	66	21.89	781	88	6.19	26.9	65	22.03	1580	89	12.3	34.5
2 2 .	960	43		860	87	4.56	26.9	43		1780	88	9.23	38.1
	725	33		911	86	3.68	26.9	32		1880	87	7.46	41.7
	2900	117		669	87	9.45	26.9	118		1260	88	17.8	26.6
	1450	58	24.59	803	87	5.69	26.9	59	24.47	1650	88	11.6	35.1
2 5 .	960	39		881	86	4.18	26.9	39		1820	88	8.53	39.4
	725	29		931	85	3.37	26.9	29		1920	86	6.89	41.7
	2900	107		685	87	8.81	26.9	106		1320	88	16.7	27.2
	1450	53	27.03	822	87	5.3	26.9	53	27.22	1700	88	10.8	35.8
2 8 .	960	35		898	86	3.89	26.9	35		1860	87	7.88	40.7
	725	26		948	85	3.13	26.9	26		1960	86	6.34	41.7
	2900	94		836	91	9.04	26.9	91		1520	91	15.9	27.9
	1450	47	30.81	1070	90	5.87	26.9	45	31.78	1950	90	10.3	35.6
3 2 .	960	31		1220	89	4.49	26.9	30		2230	89	7.91	40.2
	725	23		1330	88	3.71	26.9	22		2430	89	6.55	41.7
	2900	82		738	87	7.28	26.9	82		1450	87	14.3	28.4
	1450	41	35.31	872	86	4.35	26.9	41	35.2	1800	87	8.88	38.8
3 6 .	960	27		946	85	3.17	26.9	27		1950	86	6.47	41.7
	725	20		993	84	2.54	26.9	20		2050	85	5.19	41.7
	2900	72		764	87	6.64	26.9	73		1520	88	13.3	29.5
	1450	36	40.15	895	86	3.95	26.9	36	39.51	1840	87	8.14	40.2
4 0 .	960	23		967	84	2.87	26.9	24		1990	86	5.91	41.7
	725	18		1010	83	2.29	26.9	18		2090	85	4.73	41.7
	2900	65		953	90	7.26	26.9	66		1710	91	13.1	31.4
	1450	32	44.13	1200	89	4.66	26.9	33	43.64	2170	90	8.43	39
4 5 .	960	21		1340	88	3.48	26.9	21		2460	89	6.39	41.7
	725	16		1340	87	2.65	26.9	16		2650	88	5.25	41.7

DOUBLE REDUCTION RATINGS
SIZES C07 - C08

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0721						C0821					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	58		995	90	6.73	26.9	58		1780	91	12.1	32.2
	1450	29	49.9	1250	88	4.3	26.9	29	49.26	2250	89	7.79	40.5
5 0 .	960	19		1340	87	3.09	26.9	19		2540	88	5.88	41.7
	725	14		1340	87	2.35	26.9	14		2730	87	4.82	41.7
	2900	54		820	86	5.37	26.9	53		1700	88	10.8	32.6
	1450	27	53.62	946	85	3.16	26.9	26	54.6	1960	86	6.35	41.7
5 6 .	960	17		1010	83	2.28	26.9	17		2100	84	4.58	41.7
	725	13		1070	83	1.83	26.9	13		2210	84	3.68	41.7
	2900	47		847	86	4.85	26.9	45		1760	87	9.65	33.4
	1450	23	61.62	970	84	2.84	26.9	22	63.56	2010	85	5.64	41.7
6 3 .	960	15		1040	83	2.04	26.9	15		2150	84	4.06	41.7
	725	11		1100	83	1.64	26.9	11		2270	83	3.27	41.7
	2900	42		1110	89	5.49	26.9	41		2010	90	9.79	34.5
	1450	21	69	1340	87	3.38	26.9	20	69.64	2490	88	6.18	41.7
7 1 .	960	13 1		340	86	2.26	26.9	13		2780	87	4.61	41.7
	725	10		1340	86	1.72	26.9	10		2970	87	3.74	41.7
	2900	38		1140	88	5.18	26.9	37		2080	89	9.23	35.6
	1450	19	75.56	1340	87	3.1	26.9	18	76.5	2560	88	5.79	41.7
8 0 .	960	12		1340	86	2.07	26.9	12		2840	87	4.3	41.7
	725	9		1340	85	1.58	26.9	9		3030	86	3.49	41.7
	2900	32		912	85	3.7	26.9	33		1880	86	7.59	36.4
	1450	16	88.26	1030	83	2.13	26.9	16	87.29	2120	84	4.39	41.7
9 0 .	960	10		1110	82	1.55	26.9	10		2290	83	3.19	41.7
	725	8		1170	81	1.24	26.9	8		2410	82	2.56	41.7
	2900	29		934	84	3.37	26.9	29		1920	86	6.92	41.7
	1450	14	99.79	1050	82	1.94	26.9	14	98.53	2160	83	3.99	41.7
1 0 0	960	9		1140	81	1.41	26.9	9		2340	82	2.9	41.7
	725	7		1190	80	1.13	26.9	7		2460	81	2.33	41.7
	2900	27		1260	87	4.2	26.9	28		2280	89	7.63	41.7
	1450	13	104.3	1340	86	2.27	26.9	14	102.4	2760	87	4.71	41.7
1 1 2	960	9		1330	85	1.51	26.9	9		3040	86	3.47	41.7
	725	6		1320	84	1.14	26.9	7		3220	85	2.8	41.7
	2900	25		1160	87	3.49	26.9	24		2380	88	6.97	41.7
	1450	12	115.9	1140	85	1.75	26.9	12	117.9	2850	86	4.26	41.7
1 2 5	960	8		1130	84	1.16	26.9	8		2910	85	2.91	41.7
	725	6		1120	84	0.873	26.9	6		2880	85	2.19	41.7
	2900	21		989	83	2.61	26.9	20		2040	84	5.28	41.7
	1450	10	138	1120	81	1.52	26.9	10	139.3	2310	82	3.07	41.7
1 4 0	960	6		1200	80	1.09	26.9	6		2480	81	2.21	41.7
	725	5		1250	79	0.871	26.9	5		2590	80	1.76	41.7
	2900	19		1000	83	2.43	26.9	18		2080	84	4.91	41.7
	1450	9	151.1	1140	81	1.41	26.9	9	153	2350	82	2.85	41.7
1 6 0	960	6		1220	80	1.02	26.9	6		2520	81	2.05	41.7
	725	4		1270	79	0.81	26.9	4		2630	80	1.64	41.7
	2900	13		1060	82	1.89	26.9	14		2180	83	3.9	41.7
	1450	6	208.6	1200	79	1.1	26.9	7	204.8	2470	81	2.27	41.7
2 1 2	960	4		1270	78	0.782	26.9	4		2630	80	1.62	41.7
	725	3		1270	78	0.595	26.9	3		2620	79	1.23	41.7
	2900	12		1080	81	1.75	26.9	12		2240	82	3.51	41..7
	1450	6	231.8	1220	79	1.01	26.9	6	235.8	2530	80	2.03	41.7
2 5 0	960	4		1270	78	0.707	26.9	4		2620	79	1.42	41.7
	725	3		1270	77	0.538	26.9	3		2620	78	1.08	41.7
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DOUBLE REDUCTION RATINGS
SIZES C09 - C10

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0921						C1021					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	363	7.973	1530	92	63.3	0	364	7.951	2690	93	111	0
	1450	181		2120	93	43.2	39.3	182		3730	94	75.9	47.8
8 . 0	960	120		2510	93	34	41.8	120		3840	94	51.8	52.2
	725	90		2800	93	28.7	42.8	91		3830	94	39.1	55.0
	2900	264	10.98	1790	93	53.4	0	261	11.11	3170	94	92.7	0
	1450	132		2420	93	35.9	42.1	130		4300	94	62.7	51.2
1 1 .	960	87		2840	93	28	44.8	86		5060	93	49	54.2
	725	66		3160	93	23.6	45.5	65		5330	93	39.1	56.0
	2900	235	12.3	1890	93	50.2	0	240	12.08	3290	93	88.6	0
	1450	117		2540	93	33.6	43.1	120		4450	94	59.6	52.1
1 2 .	960	78		2970	93	26.2	45.9	79		5220	93	46.5	55.3
	725	58		3290	92	22	46.4	60		5780	93	39.1	58.0
	2900	210	13.81	1990	93	47.1	0	211	13.72	3490	93	82.7	0
	1450	105		2650	93	31.4	44.5	105		4680	94	55.3	53.9
1 4 .	960	69		3100	92	24.4	47.4	69		5480	93	43.1	57.2
	725	52		3430	92	20.5	47.3	52		6070	93	36.2	62.0
	2900	173	16.68	1930	88	40.1	36.8	174	16.63	3520	89	72.3	47.8
	1450	86		2580	89	26.4	49.4	87		4730	91	47.7	60.1
1 6 .	960	57		3030	89	20.5	53.2	57		5530	90	37	64.3
	725	43		3360	88	17.3	53.2	43		5900	90	30	66.0
	2900	162	17.79	2220	93	40.8	38.2	162	17.87	3930	94	71.3	48.0
	1450	81		2920	93	26.9	47.7	81		5180	93	47.2	57.8
1 8 .	960	53		3400	92	20.9	50.8	53		6030	93	36.6	61.3
	725	40		3750	91	17.5	53.2	40		6670	92	30.8	65.0
	2900	145	19.88	2330	93	38.3	0	150	19.29	4060	94	68.2	50.0
	1450	72		3040	92	25.2	49.3	75		5330	93	45.1	59.4
2 0 .	960	48		3530	92	19.5	52.5	49		6200	93	34.9	63.0
	725	36		3890	91	16.3	53.2	37		6850	92	29.3	68.0
	2900	126	22.96	2220	88	33.3	0	124	23.23	4080	90	59.5	52.0
	1450	63		2920	89	21.8	53.2	62		5390	90	39	65.4
2 2 .	960	41		3410	88	16.9	53.2	41		5970	90	28.8	70.9
	725	31		3760	88	14.2	53.2	31		6330	89	23.3	78.0
	2900	112	25.73	2320	88	31.1	0	114	25.27	4230	90	56.6	52.5
	1450	56		3050	89	20.3	53.2	57		5540	90	36.9	66.3
2 5 .	960	37		3550	88	15.8	53.2	37		6080	89	27.1	72.8
	725	28		3910	87	13.3	53.2	28		6440	89	21.8	82.0
	2900	100	28.89	2440	88	29	53.2	101	28.7	4460	90	52.5	53.0
	1450	50		3180	88	19	53.2	50		5710	90	33.6	67.9
2 8 .	960	33		3700	88	14.7	53.2	33		6240	89	24.6	75.7
	725	25		4070	86	12.4	53.2	25		6590	88	19.7	83.0
	2900	92	31.43	2790	93	29.1	53.2	91	31.85	4960	93	50.7	53.5
	1450	46		3590	91	19	53.2	45		6400	92	33.1	63.9
3 2 .	960	30		4070	90	14.4	53.2	30		7370	91	25.5	71.3
	725	23		4200	90	11.3	53.2	22		8050	91	21.2	80.0
	2900	77	37.22	2690	88	24.9	53.2	77	37.38	4950	90	44.7	55,3
	1450	38		3490	87	16.3	53.2	38		6060	90	27.5	72.3
3 6 .	960	25		4030	86	12.6	53.2	25		6570	88	20	82.3
	725	19		4410	86	10.5	53.2	19		6900	88	16	85.2
	2900	69	41.59	2810	88	23.3	53.2	71	40.36	5100	90	42.7	56.7
	1450	34		3640	87	15.2	53.2	35		6150	89	26	74.0
4 0 .	960	23		4180	86	11.7	53.2	23		6660	88	18.9	84.3
	725	17		4560	85	9.79	53.2	17		6990	87	15.1	87.2
	2900	65	44.55	3170	92	23.5	53.2	66	43.65	5580	93	41.9	58.0
	1450	32		4030	90	15.2	53.2	33		7140	91	27.2	69.4
4 5 .	960	21		4240	89	10.7	53.2	21		8130	90	20.7	78.3
	725	16		4370	89	8.37	53.2	16		8470	90	16.4	7.2

DOUBLE REDUCTION RATINGS
SIZES C09 - C10

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0921						C1021					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	58		3300	92	22.1	53.2	59		5800	92	39.3	60.0
	1450	29	49.49	4090	90	13.9	53.2	29	48.51	7390	91	25.4	71.5
5 0 .	960	19		4290	89	9.75	53.2	19		8320	90	19.1	80.9
	725	14		4410	89	7.64	53.2	14		8530	90	14.9	87.2
	2900	50		3180	88	19.1	53.2	49		5740	89	33.1	62.0
	1450	25	57.66	4060	86	12.4	53.2	24	58.85	6620	88	19.4	83.4
5 6 .	960	16		4620	85	9.5	53.2	16		7090	87	14	87.2
	725	12		4990	84	7.85	53.2	12		7460	86	11.2	87.2
	2900	44		3340	88	17.6	53.2	43		5910	89	30.2	63.0
	1450	22	65.74	4240	86	11.4	53.2	21	66.62	6770	88	17.6	86.8
6 3 .	960	14		4790	84	8.7	53.2	14		7230	87	12.6	87.2
	725	11		5160	83	7.16	53.2	10		7640	85	10.2	87.2
	2900	41		3730	91	17.8	53.2	41		6590	92	31.6	64.0
	1450	20	69.91	4260	89	10.4	53.2	20	69.18	8250	90	20.1	79.4
7 1 .	960	13		4440	88	7.24	53.2	13		8630	89	14.1	87.2
	725	10		4550	87	5.65	53.2	10		8800	89	10.9	87.2
	2900	37		3850	91	16.7	53.2	36		6920	91	28.9	67.4
	1450	18	77.18	4300	89	9.51	53.2	18	79.71	8390	90	17.8	83.3
8 0 .	960	12		4480	88	6.63	53.2	12		8740	89	12.4	87.2
	725	9		4590	87	5.17	53.2	9		8810	88	9.53	87.2
	2900	31		3780	87	14.2	53.2	31		6310	89	23.7	69.5
	1450	15	93.18	4710	84	9.11	53.2	15	91.32	7120	86	13.7	87.2
9 0 .	960	10		5240	83	6.84	53.2	10		7690	85	9.96	87.2
	725	7		5580	82	5.57	53.2	7		8090	84	7.99	87.2
	2900	28		3920	86	13.4	53.2	28		6440	88	21.9	75.5
	1450	14	103.5	4850	84	8.48	53.2	14	101.5	7240	86	12.6	87.2
1 0 0	960	9		5380	82	6.35	53.2	9		7840	85	9.18	87.2
	725	7		5580	81	5.04	53.2	7		8230	84	7.36	87.2
	2900	27		4120	89	13.2	53.2	26		7650	91	23.8	77.0
	1450	13	106.2	4440	88	7.22	53.2	13	107.8	8650	89	13.7	87.2
1 1 2	960	9		4610	87	5.01	53.2	8		8700	88	9.25	87.2
	725	6		4710	86	3.9	53.2	6		8640	87	6.98	87.2
	2900	24		4180	89	11.9	53.2	25		7820	90	22.8	79.4
	1450	12	119.4	4490	87	6.53	53.2	12	115.8	7980	89	11.8	87.2
1 2 5	960	8		4650	86	4.53	53.2	8		7900	87	7.84	87.2
	725	6		4750	86	3.52	53.2	6		7840	87	5.92	87.2
	2900	19		4380	85	10.7	53.2	20		6860	87	16.6	81.0
	1450	9	146.2	5290	82	6.68	53.2	10	144.7	7760	85	9.62	87.2
1 4 0	960	6		5580	81	4.75	53.2	6		8330	83	6.94	87.2
	725	4		5580	80	3.63	53.2	5		8690	82	5.53	87.2
	2900	17		4520	84	10.1	53.2	17		7020	86	14.8	84.5
	1450	8	161.4	5420	82	6.22	53.2	8	166.7	7960	84	8.62	87.2
1 6 0	960	5		5580	80	4.32	53.2	5		8520	83	6.2	87.2
	725	4		5580	80	3.3	53.2	4		8830	82	4.91	87.2
	2900	13		4940	83	8.13	53.2	12		7400	85	11.7	87.2
	1450	6	222.1	5580	80	4.74	53.2	6	225.5	8370	83	6.8	87.2
2 1 2	960	4		5580	79	3.2	53.2	4		8830	82	4.83	87.2
	725	3		5580	78	2.44	53.2	3		8810	81	3.67	87.2
	2900	11		5090	82	7.51	53.2	11		7510	85	11.1	87.2
	1450	5	249.7	5580	80	4.25	53.2	5	242.3	8470	83	6.43	87.2
2 5 0	960	3		5580	79	2.86	53.2	3		8820	81	4.51	87.2
	725	2		5580	77	2.19	53.2	2		8800	80	3.43	87.2
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TRIPLE REDUCTION RATINGS
SIZES C03 - C04

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0331						C0431					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	27		126	75	0.482	2.78	27		209	77	0.782	5.26
	1450	13	105.4	149	74	0.289	2.78	13	105.4	204	76	0.389	5.26
1 0 0	960	9		149	74	0.193	2.78	9		201	75	0.257	5.26
	725	6		149	73	0.147	2.78	6		199	74	0.194	5.26
	2900	24		132	75	0.443	2.78	24		208	77	0.684	5.26
	1450	12	120.4	149	74	0.254	2.78	12	120.4	203	75	0.34	5.26
1 1 8	960	7		149	73	0.17	2.78	7		200	74	0.225	5.26
	725	6		149	73	0.129	2.78	6		198	73	0.17	5.26
	2900	22		120	64	0.441	2.78	22		197	66	0.696	5.26
	1450	11	130.1	148	63	0.276	2.78	11	130.1	239	64	0.435	5.26
1 3 2	960	7		149	61	0.188	2.78	7		274	63	0.337	5.26
	725	5		149	60	0.144	2.78	5		278	62	0.262	5.26
	2900	20		122	63	0.417	2.78	20		200	66	0.659	5.26
	1450	10	140.2	149	62	0.26	2.78	10	140.2	245	64	0.416	5.26
1 5 0	960	6		149	61	0.175	2.78	6		278	63	0.318	5.26
	725	5		149	60	0.134	2.78	5		278	62	0.244	5.26
	2900	17		146	75	0.365	2.78	17		206	76	0.507	5.26
	1450	8	162.5	149	73	0.19	2.78	8	162.5	201	75	0.252	5.26
1 6 0	960	5		149	73	0.127	2.78	5		198	73	0.167	5.26
	725	4		149	72	0.097	2.78	4		197	73	0.126	5.26
	2900	15		149	74	0.321	2.78	15		205	76	0.433	5.26
	1450	7	190.4	149	73	0.163	2.78	7	190.4	200	74	0.216	5.26
1 8 0	960	5		149	72	0.109	2.78	5		197	73	0.143	5.26
	725	3		149	72	0.083	2.78	3		196	72	0.108	5.26
	2900	14		136	63	0.328	2.78	14		219	64	0.515	5.26
	1450	7	200.7	149	61	0.185	2.78	7	200.7	276	63	0.334	5.26
2 0 0	960	4		149	60	0.125	2.78	4		278	61	0.227	5.26
	725	3		149	59	0.095	2.78	3		278	60	0.174	5.26
	2900	12		142	62	0.302	2.78	12		229	64	0.474	5.26
	1450	6	229.3	149	61	0.163	2.78	6	229.3	278	62	0.296	5.26
2 2 5	960	4		149	59	0.11	2.78	4		278	61	0.2	5.26
	725	3		149	59	0.084	2.78	3		278	60	0.153	5.26
	2900	10		149	73	0.232	2.78	10		202	74	0.31	5.26
	1450	5	266.2	149	72	0.118	2.78	5	266.2	198	73	0.154	5.26
2 6 5	960	3		149	71	0.079	2.78	3		195	72	0.102	5.26
	725	2		149	71	0.06	2.78	2		194	72	0.077	5.26
	2900	9		149	73	0.21	2.78	9		201	74	0.279	5.26
	1450	4	295.8	149	71	0.107	2.78	4	295.8	197	73	0.139	5.26
2 8 0	960	3		149	71	0.071	2.78	3		195	72	0.092	5.26
	725	2		149	71	0.054	2.78	2		194	72	0.069	5.26
	2900	9		149	61	0.239	2.78	9		253	63	0.394	5.26
	1450	4	309.5	149	59	0.123	2.78	4	309.5	278	61	0.223	5.26
3 1 5	960	3		149	58	0.083	2.78	3		278	60	0.151	5.26
	725	2		149	58	0.063	2.78	2		278	59	0.115	5.26
	2900	7		149	61	0.206	2.78	7		267	63	0.357	5.26
	1450	3	362.6	149	59	0.106	2.78	3	362.6	278	61	0.192	5.26
3 6 0	960	2		149	58	0.071	2.78	2		278	59	0.13	5.26
	725	1		149	58	0.054	2.78	1		278	59	0.099	5.26
	2900	7		149	72	0.153	2.78	7		199	73	0.202	5.26
	1450	3	408.3	149	71	0.078	2.78	3	408.3	195	72	0.101	5.26
4 0 0	960	2		149	71	0.052	2.78	2		193	71	0.067	5.26
	725	1		149	71	0.039	2.78	1		192	71	0.05	5.26
	2900	6		149	72	0.135	2.78	6		199	73	0.178	5.26
	1450	3	464.1	149	71	0.069	2.78	3	464.1	195	72	0.089	5.26
4 5 0	960	2		149	70	0.046	2.78	2		193	71	0.059	5.26
	725	1		149	70	0.035	2.78	1		192	71	0.044	5.26
	2900	5		149	59	0.15	2.78	5		278	61	0.271	5.26
	1450	2	507.1	149	58	0.077	2.78	2	507.1	278	59	0.14	5.26
5 0 0	960	1		149	57	0.052	2.78	1		278	59	0.094	5.26
	725	1		149	57	0.039	2.78	1		278	58	0.072	5.26
	2900	5		149	59	0.135	2.78	5		278	61	0.246	5.26
	1450	2	563.5	149	58	0.069	2.78	2	563.5	278	59	0.127	5.26
5 6 0	960	1		149	57	0.047	2.78	1		278	58	0.085	5.26
	725	1		149	56	0.036	2.78	1		278	58	0.065	5.26
	2900	3		149	59	0.099	2.78	3		278	60	0.181	5.26
	1450	1	777.8	149	57	0.051	2.78	1	777.8	278	58	0.093	5.26
8 0 0	960	1		149	57	0.034	2.78	1		278	57	0.063	5.26
	725	0		149	56	0.026	2.78	0		278	57	0.048	5.26
	2900	3		149	58	0.088	2.78	3		278	60	0.16	5.26
	1450	1	883.9	149	57	0.045	2.78	1	883.9	278	58	0.082	5.26
9 0 0	960	1		149	56	0.03	2.78	1		278	57	0.055	5.26
	725	0		149	56	0.023	2.78	0		278	57	0.042	5.26

TRIPLE REDUCTION RATINGS
SIZES C05 - C06

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0531						C0631					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	d	27		393	79	1.45	7.42	27		715	84	2.49	11.4
	1450	13	103.9	401	78	0.753	7.42	13	103.9	766	82	1.36	11.4
1 0 0	960	9		395	77	0.498	7.42	9		766	81	0.911	11.4
	725	6		392	76	0.376	7.42	6		766	81	0.694	11.4
	2900	24		408	79	1.32	7.42	24		742	84	2.28	11.4
	1450	12	118.7	399	77	0.659	7.42	12	118	766	82	1.2	11.4
1 1 8	960	8		394	77	0.436	7.42	8		766	81	0.806	11.4
	725	6		390	76	0.329	7.42	6		766	80	0.613	11.4
	2900	22		413	69	1.39	7.42	22		695	73	2.21	11.4
	1450	11	130.4	482	67	0.841	7.42	11	130	766	71	1.26	11.4
1 3 2	960	7		482	65	0.569	7.42	7		766	69	0.856	11.4
	725	5		482	64	0.436	7.42	5		766	68	0.657	11.4
	2900	20		419	69	1.31	7.42	19		712	73	2	11.4
	1450	10	140.5	482	66	0.784	7.42	9	147.7	766	70	1.12	11.4
1 5 0	960	6		482	65	0.531	7.42	6		766	69	0.76	11.4
	725	5		482	64	0.407	7.42	4		766	68	0.583	11.4
	2900	18		405	78	0.981	7.42	17		766	83	1.66	11.4
	1450	9	160.3	395	77	0.489	7.42	8	169.8	766	81	0.846	11.4
1 6 0	960	5		390	76	0.324	7.42	5		766	80	0.567	11.4
	725	4		387	75	0.244	7.42	4		766	79	0.431	11.4
	2900	15		402	78	0.838	7.42	15		766	82	1.53	11.4
	1450	7	187.8	393	76	0.418	7.42	7	184.6	766	81	0.781	11.4
1 8 0	960	5		388	75	0.276	7.42	5		766	80	0.523	11.4
	725	3		386	75	0.209	7.42	3		766	79	0.398	11.4
	2900	14		453	68	1.01	7.42	14		754	72	1.59	11.4
	1450	7	201.1	482	65	0.56	7.42	7	201	766	69	0.84	11.4
2 0 0	960	4		482	64	0.378	7.42	4		766	67	0.569	11.4
	725	3		482	63	0.289	7.42	3		766	66	0.437	11.4
	2900	12		471	67	0.93	7.42	12		766	71	1.43	11.4
	1450	6	229.8	482	65	0.493	7.42	6	228.4	766	68	0.745	11.4
2 2 5	960	4		482	63	0.333	7.42	4		766	67	0.505	11.4
	725	3		482	62	0.255	7.42	3		766	66	0.387	11.4
	2900	11		398	77	0.6	7.42	10		766	81	1.08	11.4
	1450	5	262.6	389	75	0.3	7.42	5	266	766	80	0.55	11.4
2 6 5	960	3		385	74	0.198	7.42	3		766	79	0.368	11.4
	725	2		382	74	0.15	7.42	2		766	78	0.28	11.4
	2900	9		396	76	0.541	7.42	9		766	81	0.962	11.4
	1450	4	291.8	388	75	0.27	7.42	4	299.7	766	79	0.49	11.4
2 8 0	960	3		384	74	0.179	7.42	3		766	78	0.328	11.4
	725	2		381	73	0.135	7.42	2		766	78	0.249	11.4
	2900	9		482	66	0.718	7.42	8		766	69	1.02	11.4
	1450	4	310.2	482	63	0.372	7.42	4	328.7	766	67	0.53	11.4
3 1 5	960	3		482	62	0.251	7.42	2		766	65	0.359	11.4
	725	2		482	61	0.192	7.42	2		766	64	0.275	11.4
	2900	7		482	65	0.619	7.42	8		766	69	0.943	11.4
	1450	3	363.4	482	63	0.32	7.42	4	357.3	766	66	0.49	11.4
3 6 0	960	2		482	62	0.216	7.42	2		766	65	0.332	11.4
	725	1		482	61	0.165	7.42	2		766	64	0.254	11.4
	2900	7		392	75	0.392	7.42	7		766	80	0.735	11.4
	1450	3	402.7	385	74	0.196	7.42	3	395.4	766	79	0.374	11.4
4 0 0	960	2		381	74	0.129	7.42	2		766	78	0.25	11.4
	725	1		379	73	0.098	7.42	1		766	77	0.19	11.4
	2900	6		391	75	0.345	7.42	6		766	80	0.65	11.4
	1450	3	457.7	384	74	0.172	7.42	3	449.5	766	78	0.331	11.4
4 5 0	960	2		380	73	0.114	7.42	2		766	78	0.221	11.4
	725	1		377	73	0.086	7.42	1		766	77	0.168	11.4
	2900	5		482	64	0.452	7.42	5		766	67	0.671	11.4
	1450	2	508.2	482	62	0.233	7.42	2	514.8	766	65	0.348	11.4
5 0 0	960	1		482	61	0.157	7.42	1		766	64	0.235	11.4
	725	1		482	60	0.12	7.42	1		766	63	0.18	11.4
	2900	5		482	63	0.409	7.42	5		766	67	0.601	11.4
	1450	2	564.7	482	61	0.211	7.42	2	580	766	64	0.311	11.4
5 6 0	960	1		482	60	0.142	7.42	1		766	63	0.21	11.4
	725	1		482	59	0.109	7.42	1		766	62	0.161	11.4
	2900	3		482	62	0.301	7.42	3		766	66	0.462	11.4
	1450	1	779.4	482	61	0.155	7.42	1	765.3	766	64	0.239	11.4
8 0 0	960	1		482	60	0.104	7.42	1		766	63	0.161	11.4
	725	0		482	59	0.08	7.42	0		766	62	0.123	11.4
	2900	3		482	62	0.267	7.42	3		766	65	0.41	11.4
	1450	1	885.8	482	60	0.137	7.42	1	870	766	63	0.212	11.4
9 0 0	960	1		482	59	0.092	7.42	1		766	62	0.143	11.4
	960	0		482	59	0.07	7.42	0		766	61	0.109	11.4

TRIPLE REDUCTION RATINGS
SIZES C07

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0731					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	29		1240	87	4.44	29
	1450	14	97.33	1340	86	2.44	29
1 0 0	960	9		1340	85	1.63	29
	725	7		1340	84	1.24	29
	2900	25		1300	87	4.01	29
	1450	12	113.2	1340	85	2.11	29
1 1 8	960	8		1340	84	1.41	29
	725	6		1340	84	1.07	29
	2900	23		973	81	2.9	29
	1450	11	125	1100	80	1.66	29
1 3 2	960	7		1180	79	1.2	29
	725	5		1230	78	0.953	29
	2900	20		993	81	2.62	29
	1450	10	141.7	1120	79	1.51	29
1 5 0	960	6		1210	79	1.08	29
	725	5		1260	78	0.86	29
	2900	18		1340	86	2.97	29
	1450	9	160	1340	84	1.51	29
1 6 0	960	6		1340	83	1.01	29
	725	4		1340	83	0.767	29
	2900	16		1340	85	2.79	29
	1450	8	170.8	1340	84	1.42	29
1 8 0	960	5		1340	83	0.947	29
	725	4		1340	83	0.72	29
	2900	14		1040	80	2.03	29
	1450	7	194.7	1190	79	1.17	29
2 0 0	960	4		1270	78	0.837	29
	725	3		1270	77	0.64	29
	2900	12		1080	80	1.81	29
	1450	6	226.4	1220	79	1.04	29
2 2 5	960	4		1270	77	0.728	29
	725	3		1270	77	0.553	29
	2900	11		1340	84	1.93	29
	1450	5	249.9	1340	83	0.98	29
2 6 5	960	3		1340	82	0.655	29
	725	2		1340	82	0.497	29
	2900	10		1340	84	1.77	29
	1450	5	273.7	1340	83	0.897	29
2 8 0	960	3		1340	82	0.6	29
	725	2		1340	82	0.455	29
	2900	9		1150	79	1.38	29
	1450	4	320	1270	77	0.779	29
3 1 5	960	3		1270	77	0.52	29
	725	2		1260	76	0.395	29
	2900	8		1160	79	1.31	29
	1450	4	341.6	1270	77	0.731	29
3 6 0	960	2		1270	77	0.488	29
	725	2		1260	75	0.371	29
	2900	7		1340	83	1.31	29
	1450	3	373.8	1340	82	0.664	29
4 0 0	960	2		1340	81	0.443	29
	725	1		1340	81	0.337	29
	2900	6		1340	83	1.17	29
	1450	3	419.2	1340	82	0.594	29
4 5 0	960	2		1340	81	0.397	29
	725	1		1340	81	0.301	29
	2900	5		1230	77	0.965	29
	1450	2	499.9	1270	76	0.505	29
5 0 0	960	1		1260	75	0.337	29
	725	1		1260	75	0.256	29
	2900	5		1250	77	0.896	29
	1450	2	547.4	1270	76	0.463	29
5 6 0	960	1		1260	75	0.309	29
	725	1		1260	74	0.235	29
	2900	3		1270	76	0.675	29
	1450	1	747.7	1260	75	0.342	29
8 0 0	960	1		1260	74	0.228	29
	725	0		1260	74	0.173	29
	2900	3		1270	76	0.604	29
	1450	1	838.5	1260	75	0.306	29
9 0 0	960	1		1260	74	0.204	29
	725	0		1250	73	0.155	29

QUADRUPLE REDUCTION RATINGS
SIZES C03 - C04

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0341						C0441					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	3.02				0.068	2.78	3.02				0.093	5.26
	1450	1.51	960	150	70	0.034	2.78	1.51	960	208	71	0.046	5.26
1 0 C	960	1.00				0.022	2.78	1.00				0.031	5.26
	720	0.75				0.017	2.78	0.75				0.023	5.26
	2900	2.64				0.059	2.78	2.64				0.081	5.26
	1450	1.32	1097	150	70	0.030	2.78	1.32	1097	208	71	0.041	5.26
1 1 C	960	0.88				0.020	2.78	0.88				0.027	5.26
	720	0.66				0.015	2.78	0.66				0.020	5.26
	2900	2.38				0.053	2.78	2.38				0.073	5.26
	1450	1.19	1220	150	70	0.027	2.78	1.19	1220	208	71	0.036	5.26
1 2 C	960	0.79				0.018	2.78	0.79				0.024	5.26
	720	0.59				0.013	2.78	0.59				0.018	5.26
	2900	2.16				0.048	2.78	2.16				0.066	5.26
	1450	1.08	1345	150	70	0.024	2.78	1.08	1345	206	70	0.033	5.26
1 4 C	960	0.71				0.016	2.78	0.71				0.022	5.26
	720	0.54				0.012	2.78	0.54				0.016	5.26
	2900	1.77				0.040	2.78	1.77				0.051	5.26
	1450	0.89	1635	150	69	0.020	2.78	0.89	1635	192	70	0.025	5.26
1 6 C	960	0.59				0.013	2.78	0.59				0.017	5.26
	720	0.44				0.010	2.78	0.44				0.013	5.26
	2900	1.67				0.038	2.78	1.67				0.052	5.26
	1450	0.84	1735	150	70	0.019	2.78	0.84	1735	206	70	0.026	5.26
1 0 C	960	0.55				0.012	2.78	0.55				0.017	5.26
	720	0.42				0.009	2.78	0.42				0.013	5.26
	2900	1.51				0.034	2.78	1.51				0.043	5.26
	1450	0.76	1916	150	69	0.017	2.78	0.76	1916	192	70	0.022	5.26
2 0 C	960	0.50				0.011	2.78	0.50				0.014	5.26
	720	0.38				0.009	2.78	0.38				0.011	5.26
	2900	1.39				0.031	2.78	1.39				0.043	5.26
	1450	0.70	2081	150	70	0.016	2.78	0.70	2081	206	70	0.021	5.26
2 2 C	960	0.46				0.010	2.78	0.46				0.014	5.26
	720	0.35				0.008	2.78	0.35				0.011	5.26
	2900	1.20				0.027	2.78	1.20				0.037	5.26
	1450	0.60	2426	150	70	0.013	2.78	0.60	2426	206	70	0.018	5.26
2 5 C	960	0.40				0.009	2.78	0.40				0.012	5.26
	720	0.30				0.007	2.78	0.30				0.009	5.26
	2900	1.08				0.025	2.78	1.08				0.031	5.26
	1450	0.54	2679	150	69	0.012	2.78	0.54	2679	192	70	0.016	5.26
2 8 C	960	0.36				0.008	2.78	0.36				0.010	5.26
	720	0.27				0.006	2.78	0.27				0.008	5.26
	2900	0.89				0.020	2.78	0.89				0.028	5.26
	1450	0.45	3246	150	70	0.010	2.78	0.45	3246	206	70	0.014	5.26
3 2 C	960	0.30				0.007	2.78	0.30				0.009	5.26
	720	0.22				0.005	2.78	0.22				0.007	5.26
	2900	0.81				0.018	2.78	0.81				0.023	5.26
	1450	0.40	3585	150	69	0.009	2.78	0.40	3585	192	70	0.012	5.26
3 6 C	960	0.27				0.006	2.78	0.27				0.008	5.26
	720	0.20				0.005	2.78	0.20				0.006	5.26
	2900	0.71				0.016	2.78	0.71				0.020	5.26
	1450	0.35	4109	150	69	0.008	2.78	0.35	4109	192	70	0.010	5.26
4 0 C	960	0.23				0.005	2.78	0.23				0.007	5.26
	720	0.18				0.004	2.78	0.18				0.005	5.26
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QUADRUPLE REDUCTION RATINGS
SIZES C03 - C04

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0341						C0441					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	0.62				0.014	2.78	0.62				0.018	5.26
	1450	0.31	4670	150	69	0.007	2.78	0.31	4670	192	70	0.009	5.26
4 5 C	960	0.21				0.005	2.78	0.21				0.006	5.26
	720	0.15				0.004	2.78	0.15				0.004	5.26
	2900	0.58				0.013	2.78	0.58				0.025	5.26
	1450	0.29	4978	150	68	0.007	2.78	0.29	4978	278	69	0.012	5.26
5 0 C	960	0.19				0.004	2.78	0.19				0.008	5.26
	720	0.14				0.003	2.78	0.14				0.006	5.26
	2900	0.51				0.012	2.78	0.51				0.022	5.26
	1450	0.26	5658	150	68	0.006	2.78	0.26	5658	278	69	0.011	5.26
5 6 C	960	0.17				0.004	2.78	0.17				0.007	5.26
	720	0.13				0.003	2.78	0.13				0.005	5.26
	2900	0.45				0.010	2.78	0.45				0.019	5.26
	1450	0.22	6485	150	68	0.005	2.78	0.22	6485	278	69	0.009	5.26
6 3 C	960	0.15				0.003	2.78	0.15				0.006	5.26
	720	0.11				0.003	2.78	0.11				0.005	5.26
	2900	0.39				0.009	2.78	0.39				0.017	5.26
	1450	0.20	7370	150	68	0.005	2.78	0.20	7370	278	69	0.008	5.26
7 1 C	960	0.13				0.003	2.78	0.13				0.005	5.26
	720	0.10				0.002	2.78	0.10				0.004	5.26
	2900	0.37				0.011	2.78	0.37				0.020	5.26
	1450	0.18	7874	150	53	0.005	2.78	0.18	7874	278	54	0.010	5.26
8 0 C	960	0.12				0.004	2.78	0.12				0.007	5.26
	720	0.09				0.003	2.78	0.09				0.005	5.26
	2900	0.32				0.010	2.78	0.32				0.017	5.26
	1450	0.16	8949	150	53	0.005	2.78	0.16	8949	278	54	0.009	5.26
9 0 C	960	0.11				0.003	2.78	0.11				0.006	5.26
	720	0.08				0.002	2.78	0.08				0.004	5.26
	2900	0.31				0.009	2.78	0.31				0.011	5.26
	1450	0.15	9482	150	53	0.005	2.78	0.15	9482	190	53	0.006	5.26
1 0 K	960	0.10				0.003	2.78	0.10				0.004	5.26
	720	0.08				0.002	2.78	0.08				0.003	5.26
	2900	0.27				0.008	2.78	0.27				0.010	5.26
	1450	0.13	10869	150	53	0.004	2.78	0.13	10869	190	53	0.005	5.26
1 1 K	960	0.09				0.003	2.78	0.09				0.003	5.26
	720	0.07				0.002	2.78	0.07				0.002	5.26
	2900	0.23				0.007	2.78	0.21				0.007	5.26
	1450	0.12	12352	150	53	0.004	2.78	0.10	14038	183	53	0.004	5.26
1 2 K	960	0.08				0.002	2.78	0.07				0.002	5.26
	720	0.06				0.002	2.78	0.05				0.002	5.26
	2900	0.21				0.002	2.78	0.21				0.007	5.26
	1450	0.10	14038	150	150	0.001	2.78	0.10	14038	183	53	0.004	5.26
1 4 K	960	0.07				0.001	2.78	0.07				0.002	5.26
	720	0.05				0.001	2.78	0.05				0.002	5.26
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QUADRUPLE REDUCTION RATINGS
SIZES C05 - C06

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0541						C0641					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	3.07				0.179	7.41	2.84				0.296	11.50
	1450	1.53	945	406	73	0.089	7.41	1.42	1022	766	77	0.148	11.50
1 0 C	960	1.02				0.059	7.41	0.94				0.098	11.50
	720	0.76				0.044	7.41	0.70				0.073	11.50
	2900	2.69				0.156	7.41	2.61				0.272	11.50
	1450	1.34	1080	406	73	0.078	7.41	1.31	1111	766	77	0.136	11.50
1 1 C	960	0.89				0.052	7.41	0.86				0.090	11.50
	720	0.67				0.039	7.41	0.65				0.068	11.50
	2900	2.41				0.141	7.41	2.23				0.232	11.50
	1450	1.21	1201	406	73	0.070	7.41	1.12	1300	766	77	0.116	11.50
1 2 C	960	0.80				0.047	7.41	0.74				0.077	11.50
	720	0.60				0.035	7.41	0.55				0.058	11.50
	2900	2.19				0.128	7.41	1.94				0.202	11.50
	1450	1.10	1324	406	73	0.064	7.41	0.97	1495	766	77	0.101	11.50
1 4 C	960	0.73				0.042	7.41	0.64				0.067	11.50
	720	0.54				0.032	7.41	0.48				0.050	11.50
	2900	1.77				0.104	7.41	1.78				0.186	11.50
	1450	0.88	1642	404	72	0.052	7.41	0.89	1625	766	77	0.093	11.50
1 6 C	960	0.58				0.034	7.41	0.59				0.062	11.50
	720	0.44				0.026	7.41	0.44				0.046	11.50
	2900	1.70				0.099	7.41	1.63				0.172	11.50
	1450	0.85	1707	406	73	0.049	7.41	0.81	1780	766	76	0.086	11.50
1 0 C	960	0.56				0.033	7.41	0.54				0.057	11.50
	720	0.42				0.025	7.41	0.40				0.043	11.50
	2900	1.51				0.089	7.41	1.49				0.155	11.50
	1450	0.75	1924	404	72	0.044	7.41	0.74	1951	766	77	0.077	11.50
2 0 C	960	0.50				0.029	7.41	0.49				0.051	11.50
	720	0.37				0.022	7.41	0.37				0.038	11.50
	2900	1.42				0.082	7.41	1.24				0.129	11.50
	1450	0.71	2048	406	73	0.041	7.41	0.62	2342	766	77	0.065	11.50
2 2 C	960	0.47				0.027	7.41	0.41				0.043	11.50
	720	0.35				0.020	7.41	0.31				0.032	11.50
	2900	1.21				0.071	7.41	1.10				0.114	11.50
	1450	0.61	2387	406	73	0.035	7.41	0.55	2638	766	77	0.057	11.50
2 5 C	960	0.40				0.023	7.41	0.36				0.038	11.50
	720	0.30				0.018	7.41	0.27				0.028	11.50
	2900	1.08				0.063	7.41	1.00				0.106	11.50
	1450	0.54	2690	404	72	0.032	7.41	0.50	2889	766	76	0.053	11.50
2 8 C	960	0.36				0.021	7.41	0.33				0.035	11.50
	720	0.27				0.016	7.41	0.25				0.026	11.50
	2900	0.91				0.053	7.41	0.95				0.098	11.50
	1450	0.45	3195	406	73	0.026	7.41	0.47	3067	766	77	0.049	11.50
3 2 C	960	0.30				0.018	7.41	0.31				0.033	11.50
	720	0.23				0.013	7.41	0.23				0.024	11.50
	2900	0.81				0.047	7.41	0.86				0.091	11.50
	1450	0.40	3599	404	72	0.024	7.41	0.43	3359	766	76	0.046	11.50
3 6 C	960	0.27				0.016	7.41	0.29				0.030	11.50
	720	0.20				0.012	7.41	0.21				0.023	11.50
	2900	0.70				0.041	7.41	0.76				0.080	11.50
	1450	0.35	4126	404	72	0.021	7.41	0.38	3812	766	76	0.040	11.50
4 0 C	960	0.23				0.014	7.41	0.25				0.027	11.50
	720	0.17				0.010	7.41	0.19				0.020	11.50
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QUADRUPLE REDUCTION RATINGS
SIZES C05 - C06

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0541						C0641					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	0.62				0.036	7.41	0.67				0.071	11.50
	1450	0.31	4689	404	72	0.018	7.41	0.33	4334	766	76	0.035	11.50
4 5 C	960	0.20				0.012	7.41	0.22				0.023	11.50
	720	0.15				0.009	7.41	0.17				0.018	11.50
	2900	0.61				0.035	7.41	0.56				0.059	11.50
	1450	0.30	4778	393	71	0.018	7.41	0.28	5145	766	76	0.030	11.50
5 0 C	960	0.20				0.012	7.41	0.19				0.020	11.50
	720	0.15				0.009	7.41	0.14				0.015	11.50
	2900	0.54				0.031	7.41	0.49				0.052	11.50
	1450	0.27	5399	386	71	0.015	7.41	0.24	5920	766	76	0.026	11.50
5 6 C	960	0.18				0.010	7.41	0.16				0.017	11.50
	720	0.13				0.008	7.41	0.12				0.013	11.50
	2900	0.47				0.027	7.41	0.44				0.046	11.50
	1450	0.23	6189	386	71	0.013	7.41	0.22	6639	766	76	0.023	11.50
6 3 C	960	0.16				0.009	7.41	0.14				0.015	11.50
	720	0.12				0.007	7.41	0.11				0.011	11.50
	2900	0.41				0.024	7.41	0.39				0.054	11.50
	1450	0.21	7033	386	71	0.012	7.41	0.20	7378	766	58	0.027	11.50
7 1 C	960	0.14				0.008	7.41	0.13				0.018	11.50
	720	0.10				0.006	7.41	0.10				0.013	11.50
	2900	0.36				0.033	7.41	0.35				0.048	11.50
	1450	0.18	7985	482	55	0.017	7.41	0.17	8388	766	58	0.024	11.50
8 0 C	960	0.12				0.011	7.41	0.11				0.016	11.50
	720	0.09				0.008	7.41	0.09				0.012	11.50
	2900	0.32				0.029	7.41	0.33				0.046	11.50
	1450	0.16	9075	482	55	0.015	7.41	0.16	8879	766	57	0.023	11.50
9 0 C	960	0.11				0.010	7.41	0.11				0.015	11.50
	720	0.08				0.007	7.41	0.08				0.011	11.50
	2900	0.32				0.029	7.41	0.29				0.040	11.50
	1450	0.16	9192	482	54	0.015	7.41	0.14	10078	766	57	0.020	11.50
1 0 K	960	0.10				0.010	7.41	0.10				0.013	11.50
	720	0.08				0.007	7.41	0.07				0.010	11.50
	2900	0.28				0.026	7.41	0.29				0.040	11.50
	1450	0.14	10536	482	54	0.013	7.41	0.14	10078	766	57	0.020	11.50
1 1 K	960	0.09				0.009	7.41	0.10				0.013	11.50
	720	0.07				0.006	7.41	0.07				0.010	11.50
	2900	0.24				0.023	7.41	0.23				0.032	11.50
	1450	0.12	11974	482	54	0.011	7.41	0.11	12849	766	56	0.016	11.50
1 2 K	960	0.08				0.007	7.41	0.07				0.011	11.50
	720	0.06				0.006	7.41	0.06				0.008	11.50
	2900	0.21				0.020	7.41	-				-	-
	1450	0.11	13613	482	54	0.010	7.41	-	-	-	-	-	-
1 4 K	960	0.07				0.007	7.41	-				-	-
	720	0.05				0.005	7.41	-				-	-
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QUADRUPLE REDUCTION RATINGS
SIZES C07

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0741					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	2.87				0.498	26.9
	1450	1.44	1009	1340	81	0.249	26.9
1 0 C	960	0.95				0.165	26.9
	720	0.71				0.124	26.9
	2900	2.64				0.458	26.9
	1450	1.32	1097	1340	81	0.229	26.9
1 1 C	960	0.87				0.152	26.9
	720	0.66				0.114	26.9
	2900	2.39				0.419	26.9
	1450	1.20	1213	1340	80	0.210	26.9
1 2 C	960	0.79				0.139	26.9
	720	0.59				0.104	26.9
	2900	2.08				0.364	26.9
	1450	1.04	1396	1340	80	0.182	26.9
1 4 C	960	0.69				0.121	26.9
	720	0.52				0.090	26.9
	2900	1.91				0.335	26.9
	1450	0.96	1517	1340	80	0.168	26.9
1 6 C	960	0.63				0.111	26.9
	720	0.47				0.083	26.9
	2900	1.75				0.306	26.9
	1450	0.87	1662	1340	80	0.153	26.9
1 0 C	960	0.58				0.101	26.9
	720	0.43				0.076	26.9
	2900	1.45				0.255	26.9
	1450	0.73	1995	1340	80	0.128	26.9
2 0 C	960	0.48				0.084	26.9
	720	0.36				0.063	26.9
	2900	1.33				0.233	26.9
	1450	0.66	2186	1340	80	0.116	26.9
2 2 C	960	0.44				0.077	26.9
	720	0.33				0.058	26.9
	2900	1.18				0.207	26.9
	1450	0.59	2463	1340	80	0.103	26.9
2 5 C	960	0.39				0.068	26.9
	720	0.29				0.051	26.9
	2900	1.01				0.178	26.9
	1450	0.51	2863	1340	80	0.089	26.9
2 8 C	960	0.34				0.059	26.9
	720	0.25				0.044	26.9
	2900	0.92				0.162	26.9
	1450	0.46	3135	1340	80	0.081	26.9
3 2 C	960	0.31				0.054	26.9
	720	0.23				0.040	26.9
	2900	0.81				0.143	26.9
	1450	0.41	3559	1340	80	0.071	26.9
3 6 C	960	0.27				0.047	26.9
	720	0.20				0.035	26.9
	2900	0.72				0.126	26.9
	1450	0.36	4046	1340	80	0.063	26.9
4 0 C	960	0.24				0.042	26.9
	720	0.18				0.031	26.9
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QUADRUPLE REDUCTION RATINGS
SIZES C07

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0741					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
4 5 C	2900	0.67	4329	1340	80	0.118	26.9
	1450	0.33				0.059	26.9
	960	0.22				0.039	26.9
	720	0.17				0.029	26.9
5 0 C	2900	0.59	4913	1270	78	0.101	26.9
	1450	0.30				0.050	26.9
	960	0.20				0.033	26.9
	720	0.15				0.025	26.9
5 6 C	2900	0.52	5585	1270	78	0.089	26.9
	1450	0.26				0.044	26.9
	960	0.17				0.029	26.9
	720	0.13				0.022	26.9
6 3 C	2900	0.47	6206	1140	78	0.072	26.9
	1450	0.23				0.036	26.9
	960	0.15				0.024	26.9
	720	0.12				0.018	26.9
7 1 C	2900	0.41	7117	1140	72	0.068	26.9
	1450	0.20				0.034	26.9
	960	0.13				0.022	26.9
	720	0.10				0.017	26.9
8 0 C	2900	0.36	8091	1140	72	0.059	26.9
	1450	0.18				0.030	26.9
	960	0.12				0.020	26.9
	720	0.09				0.015	26.9
9 0 C	2900	0.33	8657	1200	71	0.059	26.9
	1450	0.17				0.030	26.9
	960	0.11				0.020	26.9
	720	0.08				0.015	26.9
1 0 K	2900	0.30	9826	1200	71	0.052	26.9
	1450	0.15				0.026	26.9
	960	0.10				0.017	26.9
	720	0.07				0.013	26.9
1 1 K	2900	0.26	11171	1200	71	0.046	26.9
	1450	0.13				0.023	26.9
	960	0.09				0.015	26.9
	720	0.06				0.011	26.9
1 2 K	2900	0.23	12412	1220	71	0.042	26.9
	1450	0.12				0.021	26.9
	960	0.08				0.014	26.9
	720	0.06				0.010	26.9
1 4 K	2900	-	-	-	-	-	-
	1450	-				-	-
	960	-				-	-
	720	-				-	-
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QUADRUPLE REDUCTION RATINGS
SIZES C08- C09

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0841						C0941					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	18.54				6.230	41.7	18.16				11.084	53.2
	1450	9.27	156	2600	81	3.115	41.7	9.08	160	4800	82	5.542	53.2
1 6 0	960	6.14				2.062	41.7	6.01				3.669	53.2
	720	4.60				1.547	41.7	4.51				2.752	53.2
	2900	16.42				5.519	41.7	16.35				10.081	53.2
	1450	8.21	177	2600	81	2.760	41.7	8.17	177	4850	82	5.040	53.2
1 8 0	960	5.44				1.827	41.7	5.41				3.337	53.2
	720	4.08				1.370	41.7	4.06				2.503	53.2
	2900	13.18				4.431	41.7	12.92				7.884	53.2
	1450	6.59	220	2600	81	2.216	41.7	6.46	225	4800	82	3.942	53.2
2 1 2	960	4.36				1.467	41.7	4.28				2.610	53.2
	720	3.27				1.100	41.7	3.21				1.957	53.2
	2900	11.68				3.926	41.7	11.63				7.170	53.2
	1450	5.84	248	2600	81	1.963	41.7	5.81	249	4850	82	3.585	53.2
2 5 0	960	3.87				1.300	41.7	3.85				2.374	53.2
	720	2.90				0.975	41.7	2.89				1.780	53.2
	2900	10.48				3.522	41.7	10.27				6.267	53.2
	1450	5.24	277	2600	81	1.761	41.7	5.13	282	4800	82	3.133	53.2
2 8 0	960	3.47				1.166	41.7	3.40				2.074	53.2
	720	2.60				0.874	41.7	2.55				1.556	53.2
	2900	9.28				3.120	41.7	9.24				5.710	53.2
	1450	4.64	312	2600	81	1.560	41.7	4.62	314	4850	82	2.855	53.2
3 2 0	960	3.07				1.033	41.7	3.06				1.890	53.2
	720	2.30				0.775	41.7	2.29				1.418	53.2
	2900	8.25				2.774	41.7	8.08				4.935	53.2
	1450	4.13	351	2600	81	1.387	41.7	4.04	359	4800	82	2.467	53.2
3 6 0	960	2.73				0.918	41.7	2.68				1.634	53.2
	720	2.05				0.689	41.7	2.01				1.225	53.2
	2900	7.28				2.447	41.7	7.13				4.353	53.2
	1450	3.64	398	2600	81	1.223	41.7	3.57	407	4800	82	2.176	53.2
4 0 0	960	2.41				0.810	41.7	2.36				1.441	53.2
	720	1.81				0.607	41.7	1.77				1.081	53.2
	2900	6.45				2.168	41.7	6.42				3.966	53.2
	1450	3.22	450	2600	81	1.084	41.7	3.21	452	4850	82	1.983	53.2
4 5 0	960	2.13				0.718	41.7	2.12				1.313	53.2
	720	1.60				0.538	41.7	1.59				0.985	53.2
	2900	6.10				2.051	41.7	5.98				3.650	53.2
	1450	3.05	475	2600	81	1.026	41.7	2.99	485	4800	82	1.825	53.2
5 0 0	960	2.02				0.679	41.7	1.98				1.208	53.2
	720	1.52				0.509	41.7	1.48				0.906	53.2
	2900	5.30				1.782	41.7	5.19				3.170	53.2
	1450	2.65	547	2600	81	#REF!	41.7	2.60	558	4800	82	1.585	53.2
5 6 0	960	1.75				0.590	41.7	1.72				1.049	53.2
	720	1.32				0.442	41.7	1.29				0.787	53.2
	2900	4.56				1.532	41.7	4.47				2.725	53.2
	1450	2.28	636	2600	81	0.766	41.7	2.23	649	4800	82	1.363	53.2
6 3 0	960	1.51				0.507	41.7	1.48				0.902	53.2
	720	1.13				0.380	41.7	1.11				0.677	53.2
	2900	4.07				1.369	41.7	3.99				2.436	53.2
	1450	2.04	712	2600	81	0.685	41.7	2.00	727	4800	82	1.218	53.2
7 1 0	960	1.35				0.453	41.7	1.32				0.806	53.2
	720	1.01				0.340	41.7	0.99				0.605	53.2
	2900	3.82				1.285	41.7	3.74				2.286	53.2
	1450	1.91	759	2600	81	0.642	41.7	1.87	774	4800	82	1.143	53.2
8 0 0	960	1.27				0.425	41.7	1.24				0.757	53.2
	720	0.95				0.319	41.7	0.93				0.567	53.2
	2900	3.22				1.084	41.7	3.16				1.928	53.2
	1450	1.61	899	2600	81	0.542	41.7	1.58	918	4800	82	0.964	53.2
9 0 0	960	1.07				0.359	41.7	1.05				0.638	53.2
	720	0.80				0.269	41.7	0.78				0.479	53.2
	2900	3.02				1.015	41.7	2.96				1.806	53.2
	1450	1.51	960	2600	81	0.508	41.7	1.48	980	4800	82	0.903	53.2
1 0 C	960	1.00				0.336	41.7	0.98				0.598	53.2
	720	0.75				0.252	41.7	0.73				0.448	53.2
	2900	2.68				0.899	41.7	2.66				1.689	53.2
	1450	1.34	1084	2600	81	0.450	41.7	1.33	1089	4850	80	0.845	53.2
1 1 C	960	0.89				0.298	41.7	0.88				0.559	53.2
	720	0.66				0.223	41.7	0.66				0.419	53.2
	2900	2.43				0.818	41.7	2.38				1.456	53.2
	1450	1.22	1191	2600	81	0.409	41.7	1.19	1216	4800	82	0.728	53.2
1 2 C	960	0.81				0.271	41.7	0.79				0.482	53.2
	720	0.60				0.203	41.7	0.59				0.361	53.2
	2900	2.06				0.694	41.7	2.02				1.234	53.2
	1450	1.03	1405	2600	81	0.347	41.7	1.01	1434	4800	82	0.617	53.2
1 4 C	960	0.68				0.230	41.7	0.67				0.409	53.2
	720	0.51				0.172	41.7	0.50				0.306	53.2
	2900	1.89				0.694	41.7	1.89				1.215	53.2
	1450	0.95	1532	2800	80	0.347	41.7	0.94	1538	5000	81	0.607	53.2
1 6 C	960	0.63				0.230	41.7	0.62				0.402	53.2
	720	0.47				0.172	41.7	0.47				0.302	53.2

QUADRUPLE REDUCTION RATINGS
SIZES C08- C09

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C0841						C0941					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)	N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	1.53				0.559		1.52				0.979	53.2
	1450	0.76	1901	2800	80	0.280	41.70	0.76	1908	5000	81	0.490	53.2
1 8 C	960	0.50				0.185		0.50				0.324	53.2
	720	0.38				0.139		0.38				0.243	53.2
	2900	1.39				0.515		1.38				0.891	53.2
	1450	0.69	2088	2800	79	0.258	41.70	0.69	2107	5000	81	0.445	53.2
2 0 C	960	0.46				0.171		0.46				0.295	53.2
	720	0.34				0.128		0.34				0.221	53.2
	2900	1.29				0.474		1.29				0.834	53.2
	1450	0.65	2242	2800	80	0.237	41.70	0.64	2250	5000	81	0.417	53.2
2 2 C	960	0.43				0.157		0.43				0.276	53.2
	720	0.32				0.118		0.32				0.207	53.2
	2900	1.18				0.437		1.17				0.752	53.2
	1450	0.59	2463	2800	79	0.219	41.70	0.58	2484	5000	81	0.376	53.2
2 5 C	960	0.39				0.145		0.39				0.249	53.2
	720	0.29				0.109		0.29				0.187	53.2
	2900	1.08				0.399		1.07				0.690	53.2
	1450	0.54	2697	2800	79	0.200	41.70	0.53	2720	5000	81	0.345	53.2
2 8 C	960	0.36				0.132		0.35				0.228	53.2
	720	0.27				0.099		0.26				0.171	53.2
	2900	0.88				0.326		0.87				0.563	53.2
	1450	0.44	3305	2800	79	0.163	41.70	0.43	3334	5000	81	0.281	53.2
3 2 C	960	0.29				0.108		0.29				0.186	53.2
	720	0.22				0.081		0.22				0.140	53.2
	2900	0.77				0.283		0.77				0.495	53.2
	1450	0.39	3761	2800	80	0.141	41.70	0.38	3775	5000	81	0.247	53.2
3 6 C	960	0.26				0.094		0.25				0.164	53.2
	720	0.19				0.070		0.19				0.123	53.2
	2900	0.70				0.261		0.70				0.450	53.2
	1450	0.35	4131	2800	79	0.130	41.70	0.35	4167	5000	81	0.225	53.2
4 0 C	960	0.23				0.086		0.23				0.149	53.2
	720	0.17				0.065		0.17				0.112	53.2
	2900	0.66				0.246		0.63				0.414	53.2
	1450	0.33	4423	2800	78	0.123	41.70	0.32	4586	5000	80	0.207	53.2
4 5 C	960	0.22				0.082		0.21				0.137	53.2
	720	0.16				0.061		0.16				0.103	53.2
	2900	0.59				0.221		0.57				0.371	53.2
	1450	0.29	4929	2800	78	0.111	41.70	0.28	5112	5000	80	0.186	53.2
5 0 C	960	0.19				0.073		0.19				0.123	53.2
	720	0.15				0.055		0.14				0.092	53.2
	2900	0.52				0.197		0.51				0.331	53.2
	1450	0.26	5528	2800	78	0.099	41.70	0.25	5733	5000	80	0.165	53.2
5 6 C	960	0.17				0.065		0.17				0.110	53.2
	720	0.13				0.049		0.13				0.082	53.2
	2900	0.46				0.171		0.45				0.296	53.2
	1450	0.23	6366	2800	78	0.086	41.70	0.22	6447	5000	79	0.148	53.2
6 3 C	960	0.15				0.057		0.15				0.098	53.2
	720	0.11				0.043		0.11				0.074	53.2
	2900	0.43				0.143		0.41				0.321	53.2
	1450	0.22	6707	2310	73	0.072	41.70	0.21	7041	5580	75	0.161	53.2
7 1 C	960	0.14				0.047		0.14				0.106	53.2
	720	0.11				0.036		0.10				0.080	53.2
	2900	0.35				0.118		0.37				0.287	53.2
	1450	0.18	8262	2350	73	0.059	41.70	0.18	7897	5580	75	0.143	53.2
8 0 C	960	0.12				0.039		0.12				0.095	53.2
	720	0.09				0.029		0.09				0.071	53.2
	2900	0.33				0.118		0.33				0.260	53.2
	1450	0.16	8845	2470	72	0.059	41.70	0.17	8718	5580	75	0.130	53.2
9 0 C	960	0.11				0.039		0.11				0.086	53.2
	720	0.08				0.029		0.08				0.065	53.2
	2900	0.29				0.106		0.30				0.241	53.2
	1450	0.15	9859	2470	72	0.053	41.70	0.15	9594	5580	73	0.121	53.2
1 0 K	960	0.10				0.035		0.10				0.080	53.2
	720	0.07				0.026		0.08				0.060	53.2
	2900	0.26				0.094		0.27				0.216	53.2
	1450	0.13	11057	2470	72	0.047	41.70	0.14	10693	5580	73	0.108	53.2
1 1 K	960	0.09				0.031		0.09				0.072	53.2
	720	0.07				0.023		0.07				0.054	53.2
	2900	0.23				0.084		0.24				0.193	53.2
	1450	0.11	12732	2530	72	0.042	41.70	0.12	11993	5580	73	0.096	53.2
1 2 K	960	0.08				0.028		0.08				0.064	53.2
	720	0.06				0.021		0.06				0.048	53.2
	2900	-				-	-	0.22				0.173	53.2
	1450	-	-	-	-	-	-	0.11	13485	5580	73	0.086	53.2
1 4 K	960	-				-	-	0.07				0.057	53.2
	720	-				-	-	0.05				0.043	53.2

QUADRUPLE REDUCTION RATINGS
SIZES C10

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C1041					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
	2900	18.06				19.025	87.2
	1450	9.03	161	8330	83	9.512	87.2
1 6 0	960	5.98				6.298	87.2
	720	4.48				4.723	87.2
	2900	16.25				16.750	87.2
	1450	8.13	178	8150	83	8.375	87.2
1 8 0	960	5.38				5.545	87.2
	720	4.04				4.159	87.2
	2900	13.04				13.736	87.2
	1450	6.52	222	8330	83	6.868	87.2
2 1 2	960	4.32				4.547	87.2
	720	3.24				3.410	87.2
	2900	11.74				12.094	87.2
	1450	5.87	247	8150	83	6.047	87.2
2 5 0	960	3.88				4.004	87.2
	720	2.91				3.003	87.2
	2900	10.56				11.121	87.2
	1450	5.28	275	8330	83	5.560	87.2
2 8 0	960	3.50				3.681	87.2
	720	2.62				2.761	87.2
	2900	9.50				9.792	87.2
	1450	4.75	305	8150	83	4.896	87.2
3 2 0	960	3.15				3.241	87.2
	720	2.36				2.431	87.2
	2900	8.08				8.514	87.2
	1450	4.04	359	8330	83	4.257	87.2
3 6 0	960	2.68				2.819	87.2
	720	2.01				2.114	87.2
	2900	7.11				7.489	87.2
	1450	3.55	408	8330	83	3.744	87.2
4 0 0	960	2.35				2.479	87.2
	720	1.77				1.859	87.2
	2900	6.40				6.593	87.2
	1450	3.20	453	8150	83	3.297	87.2
4 5 0	960	2.12				2.183	87.2
	720	1.59				1.637	87.2
	2900	5.85				6.167	87.2
	1450	2.93	495	8330	83	3.084	87.2
5 0 0	960	1.94				2.042	87.2
	720	1.45				1.531	87.2
	2900	5.32				5.606	87.2
	1450	2.66	545	8330	83	2.803	87.2
5 6 0	960	1.76				1.856	87.2
	720	1.32				1.392	87.2
	2900	4.63				4.879	87.2
	1450	2.32	626	8330	83	2.440	87.2
6 3 0	960	1.53				1.615	87.2
	720	1.15				1.211	87.2
	2900	4.08				4.303	87.2
	1450	2.04	710	8330	83	2.151	87.2
7 1 0	960	1.35				1.424	87.2
	720	1.01				1.068	87.2
	900	3.70				3.901	87.2
	1450	1.85	783	8330	83	1.950	87.2
8 0 0	960	1.23				1.291	87.2
	720	0.92				0.968	87.2
	2900	3.23				3.406	87.2
	1450	1.62	897	8330	83	1.703	87.2
9 0 0	960	1.07				1.128	87.2
	720	0.80				0.846	87.2
	2900	2.86				3.013	87.2
	1450	1.43	1014	8330	83	1.506	87.2
1 0 C	960	0.95				0.997	87.2
	720	0.71				0.748	87.2
	2900	2.57				2.653	87.2
	1450	1.29	1127	8150	83	1.326	87.2
1 1 C	960	0.85				0.878	87.2
	720	0.64				0.659	87.2
	2900	2.47				2.598	87.2
	1450	1.23	1176	8330	83	1.299	87.2
1 2 C	960	0.82				0.860	87.2
	720	0.61				0.645	87.2
	2900	2.07				2.179	87.2
	1450	1.03	1402	8330	83	1.089	87.2
1 4 C	960	0.68				0.721	87.2
	720	0.51				0.541	87.2
	2900	1.80				1.943	87.2
	1450	0.90	1607	8420	82	0.972	87.2
1 6 C	960	0.60				0.643	87.2
	720	0.45				0.482	87.2

QUADRUPLE REDUCTION RATINGS
SIZES C10

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

Column Entry 6 7 8	Input Speed N1 (rpm)	C1041					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
1 8 C	2900	1.56	1863	8420	82	1.676	87.2
	1450	0.78				0.838	87.2
	960	0.52				0.555	87.2
	720	0.39				0.416	87.2
2 0 C	2900	1.35	2146	8440	82	1.458	87.2
	1450	0.68				0.729	87.2
	960	0.45				0.483	87.2
	720	0.34				0.362	87.2
2 2 C	2900	1.31	2222	8420	82	1.405	87.2
	1450	0.65				0.703	87.2
	960	0.43				0.465	87.2
	720	0.32				0.349	87.2
2 5 C	2900	1.13	2560	8440	82	1.222	87.2
	1450	0.57				0.611	87.2
	960	0.37				0.405	87.2
	720	0.28				0.303	87.2
2 8 C	2900	1.03	2804	8440	82	1.116	87.2
	1450	0.52				0.558	87.2
	960	0.34				0.370	87.2
	720	0.26				0.277	87.2
3 2 C	2900	0.86	3364	8440	82	0.930	87.2
	1450	0.43				0.465	87.2
	960	0.29				0.308	87.2
	720	0.21				0.231	87.2
3 6 C	2900	0.78	3733	8420	82	0.836	87.2
	1450	0.39				0.418	87.2
	960	0.26				0.277	87.2
	720	0.19				0.208	87.2
4 0 C	2900	0.67	4301	8440	82	0.728	87.2
	1450	0.34				0.364	87.2
	960	0.22				0.241	87.2
	720	0.17				0.181	87.2
4 5 C	2900	0.64	4550	8650	81	0.713	87.2
	1450	0.32				0.356	87.2
	960	0.21				0.236	87.2
	720	0.16				0.177	87.2
5 0 C	2900	0.55	5235	8650	81	0.620	87.2
	1450	0.28				0.310	87.2
	960	0.18				0.205	87.2
	720	0.14				0.154	87.2
5 6 C	2900	0.50	5817	8650	81	0.558	87.2
	1450	0.25				0.279	87.2
	960	0.17				0.185	87.2
	720	0.12				0.138	87.2
6 3 C	2900	0.46	6249	7980	81	0.479	87.2
	1450	0.23				0.239	87.2
	960	0.15				0.158	87.2
	720	0.12				0.119	87.2
7 1 C	2900	0.41	7027	8700	77	0.486	87.2
	1450	0.21				0.243	87.2
	960	0.14				0.161	87.2
	720	0.10				0.121	87.2
8 0 C	2900	0.37	7808	8700	77	0.437	87.2
	1450	0.19				0.219	87.2
	960	0.12				0.145	87.2
	720	0.09				0.109	87.2
9 0 C	2900	0.32	8996	8690	76	0.384	87.2
	1450	0.16				0.192	87.2
	960	0.11				0.127	87.2
	720	0.08				0.095	87.2
1 0 K	2900	0.30	9518	8670	76	0.366	87.2
	1450	0.15				0.183	87.2
	960	0.10				0.121	87.2
	720	0.08				0.091	87.2
1 1 K	2900	0.26	10951	8670	76	0.318	87.2
	1450	0.13				0.159	87.2
	960	0.09				0.105	87.2
	720	0.07				0.079	87.2
1 2 K	2900	0.24	12167	8670	76	0.286	87.2
	1450	0.12				0.143	87.2
	960	0.08				0.095	87.2
	720	0.06				0.071	87.2
1 4 K	2900	0.22	13072	8670	76	0.267	87.2
	1450	0.11				0.133	87.2
	960	0.07				0.088	87.2
	720	0.06				0.066	87.2
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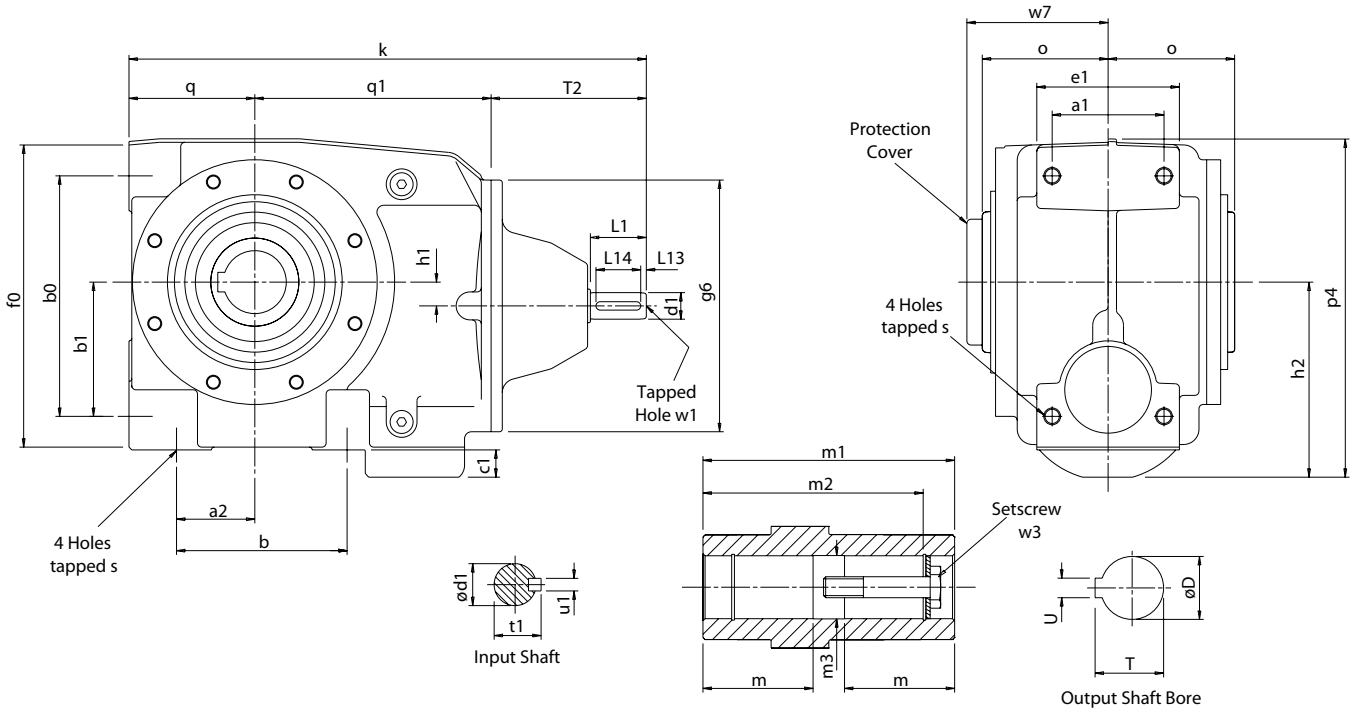
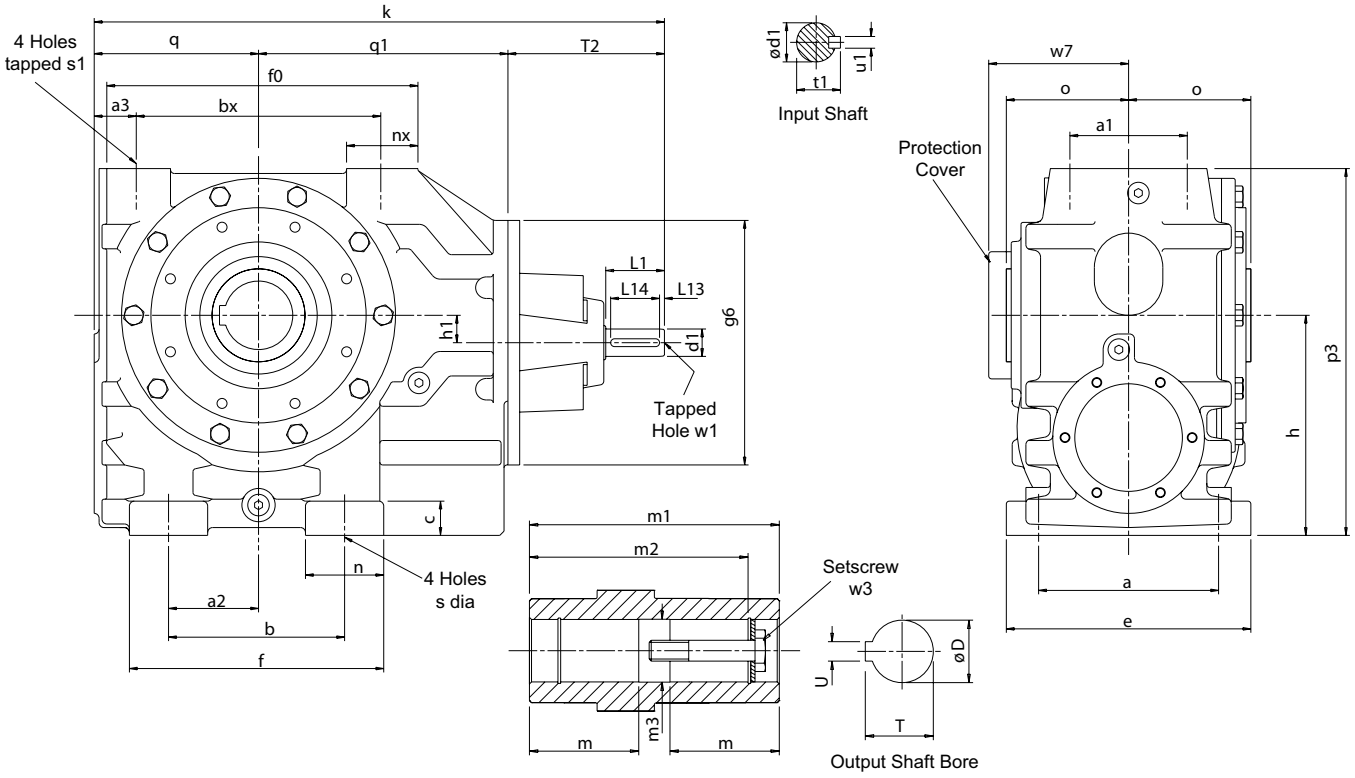


SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0321	54	35	63	80	40	9	70	139	5.3	79.5	62
C0421	56	35	80	118	65	7	80	158	15	93	65
C0521	68	45	100	142	77	16	86	177	13	112	70
C0621	80	56	122	172	96	20	102	218	17	139.5	90

SIZE	p4	q	q1	s	w7	T2	g6	k
C0321	148	54	109	M8x1.25, 15 deep	70	111	140	274
C0421	168	64	119	M10x1.5, 20 deep	74.5	111	140	294
C0521	200	68	134	M10x1.5, 18 deep	79	111	140	313
C0621	243	90	169	M12x1.75, 20 deep	101	111	180	370

SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0321	16 k6	40	4	32	18	5	M5x0.8, 12 deep	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0421	16 k6	40	4	32	18	5	M5x0.8, 12 deep	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0521	16 k6	40	4	32	18	5	M5x0.8, 12 deep	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0621	19 k6	40	4	32	21.5	6	M6x1.0, 16 deep	45	70	180	156	45.3	49	14	M16x2.0, 70 long

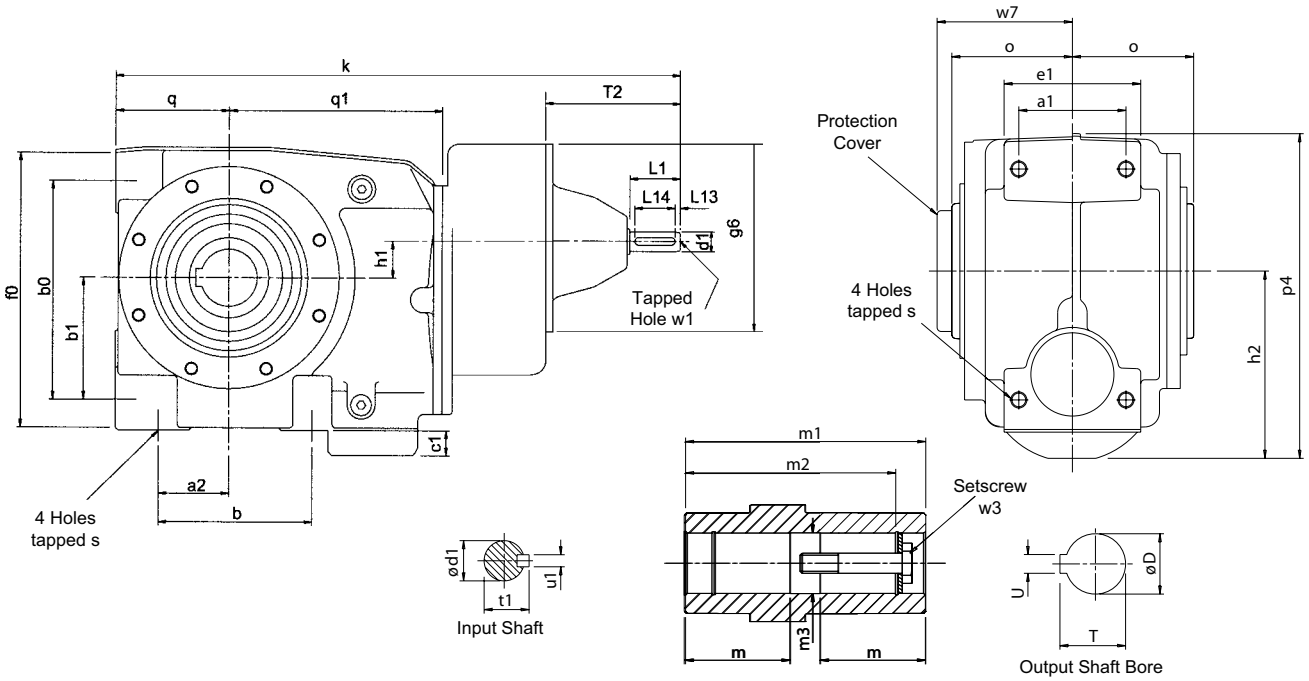
DIMENSIONS
DOUBLE REDUCTION



SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o
C0721	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109
C0821	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125
C0921	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150
C1021	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175

SIZE	p3	q	q1	s	s1	w7	T2	g6	k
C0721	302	143	220	18	M20x2.5, 34 deep	125	115	212	478
C0821	375	168	255	22	M20x2.5, 34 deep	143	160	250	583
C0921	457	195	300	26	M24x3, 45 deep	169	195	300	690
C1021	565	235	355	26	M24x3, 45 deep	198	233	360	823

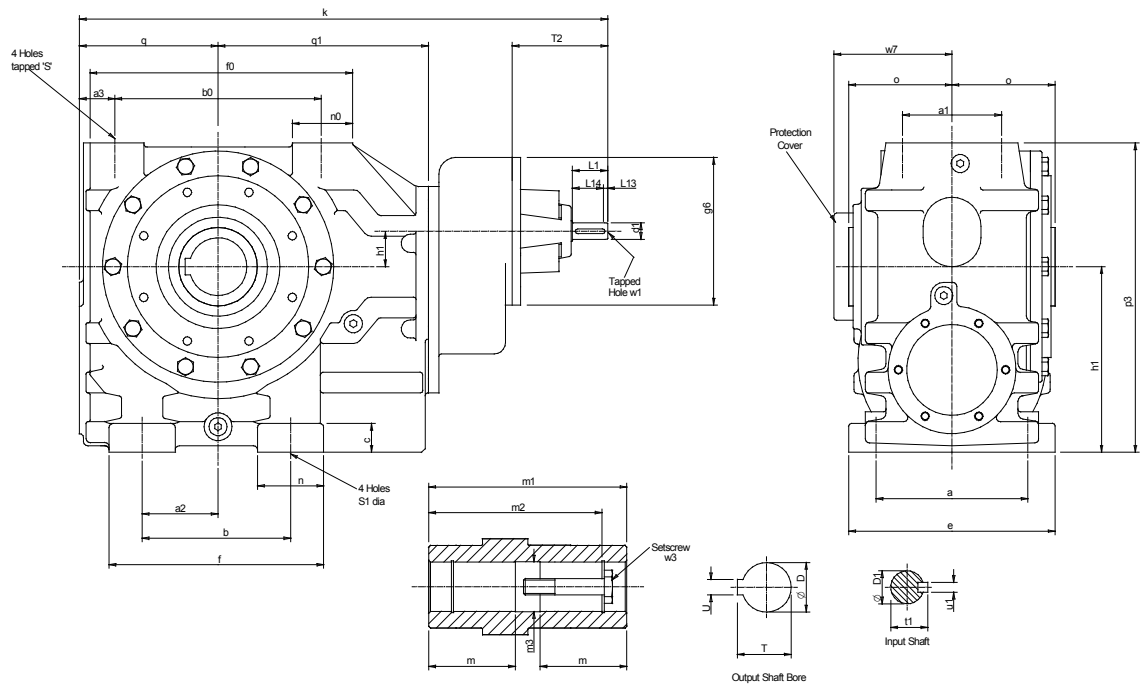
SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0721	24 k6	50	5	40	27	8	M8x1.25, 19 deep	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long
C0821	28 k6	60	5	50	31	8	M10x1.5, 22 deep	70	90	250	220	70.5	75.1	20	M20x2.5, 80 long
C0921	38 k6	80	5	70	41	10	M12x1.75, 28 deep	90	107.5	300	265	90.5	95.6	25	M24x3.0, 110 long
C1021	42 k6	110	10	70	45	12	M16x2.0, 36 deep	100	132.5	350	313	100.5	106.6	28	M24x3.0, 110 long



SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	k	o
C0331	54	35	63	80	40	9	70	139	30.75	79.5	330	62
C0431	56	35	80	118	65	7	80	158	21.2	93	349	65
C0531	68	46	100	14	277	16	86	177	23	11	2369	70
C0631	80	56	122	172	96	20	102	218	30	139.5	436	90

SIZE	p4	q	q1	s	T2	w7	g6
C0331	148	54	109	M8x1.25 - 15 deep	111	70	140
C0431	168	64	119	M10x1.5 - 18 deep	111	74.5	140
C0531	200	68	134	M10x1.5 - 18 deep	111	79	140
C0631	243	90	169	M12x1.75 - 20 deep	111	101	180

SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0721	16 k6	40	4	32	18	5	M5x0.8, 12 deep	20	52	124	104	20.2	22.9	6	M6x1.0 - 40 long
C0821	16 k6	40	4	32	18	5	M5x0.8, 12 deep	30	54	130	122	30.2	33.5	8	M10x1.5 - 50 long
C0921	16 k6	40	4	32	18	5	M5x0.8, 12 deep	35	56	140	127	35.3	38.5	10	M12x1.75
C1021	19 k6	40	4	32	21.5	6	M6x1.0, 16 deep	45	70	180	156	45.3	49	14	M16x2.0 - 70 long

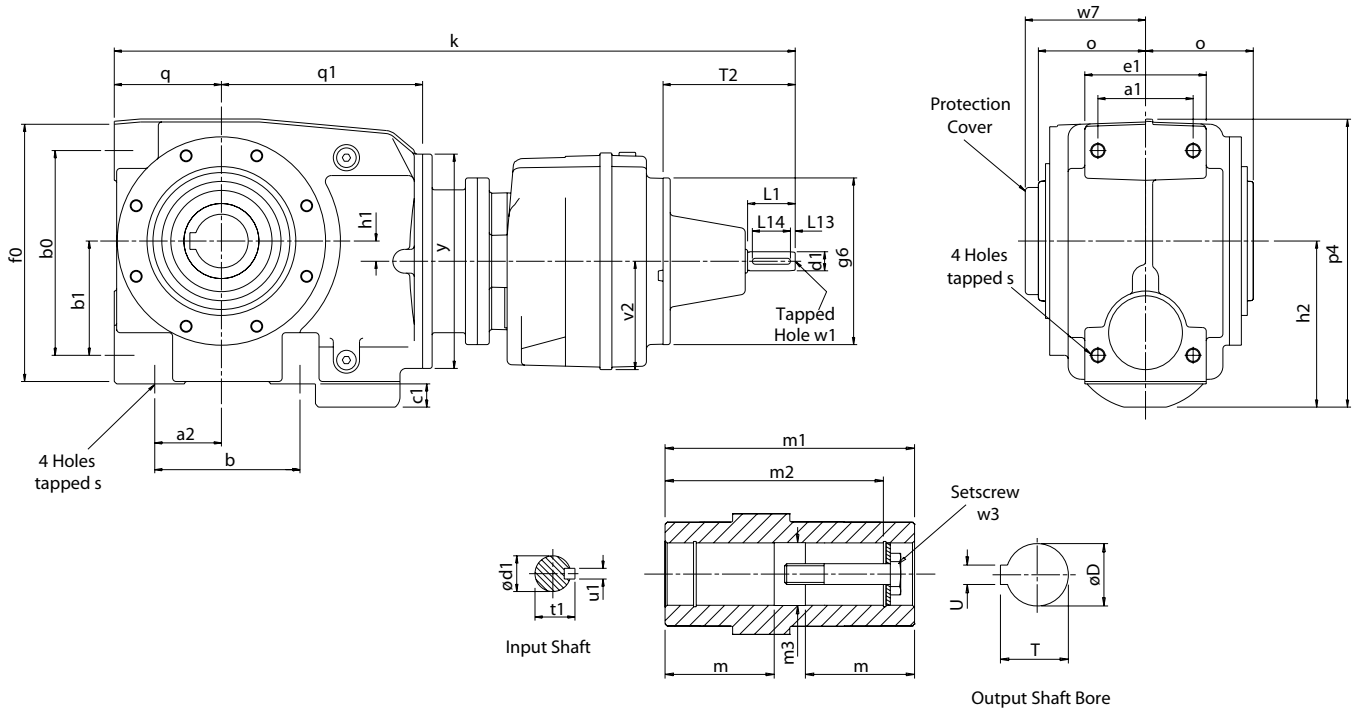


SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	k	n	nx	o	p3	q	q1
C0731	150	100	75	35.5	135	215	28	185	202	280	180	34	560	67	63	109	302	143	220

SIZE	p3	q	q1	s	s1	T2	w7	g6
C0731	302	143	220	18	M20x2.5 - 34 deep	111	125	212

SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t	u1	w1	D	m	m1	m2	m3	T	U	w3
C0731	24 k6	50	5	40	27	8	m8x1.25, 19deep	60	79	218	188	60.5	64.6	18	M20x2.5 - 80 long

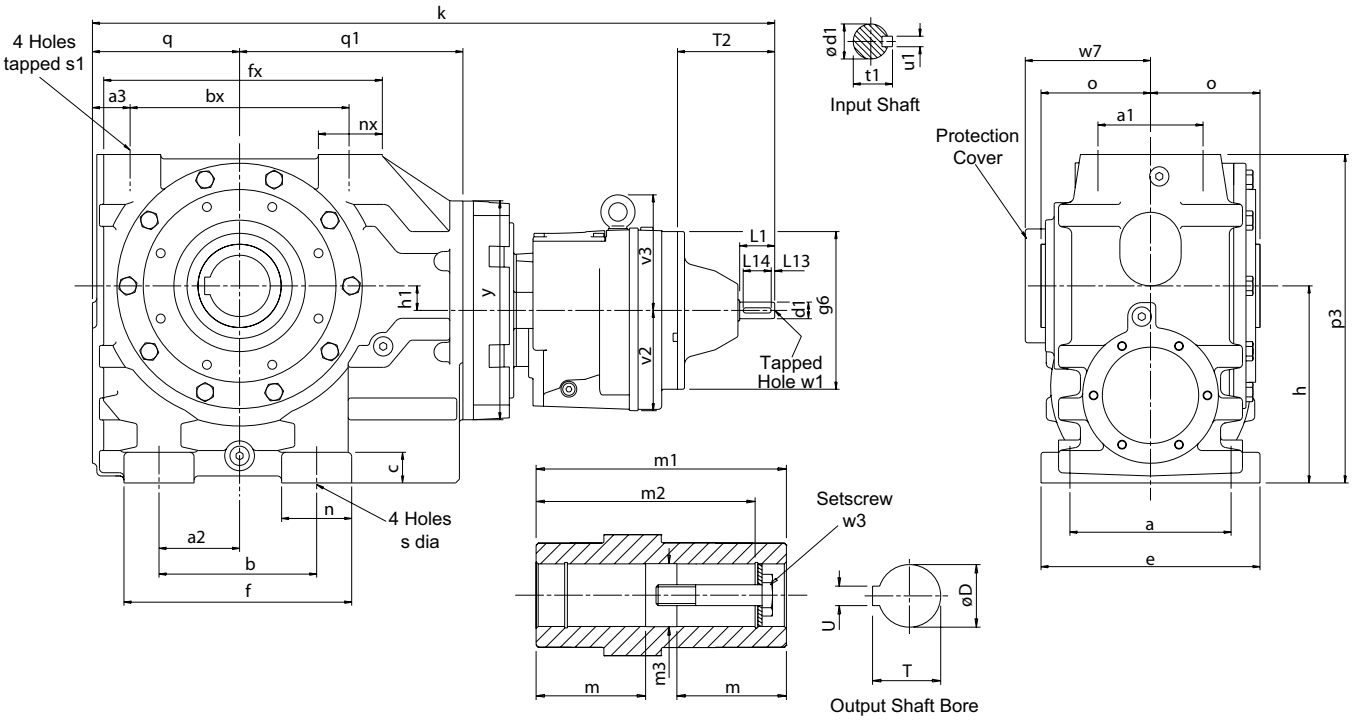
DIMENSIONS
QUADRUPLE REDUCTION



SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0341	54	35	63	80	40	9	70	139	5.3	79.5	62
C0441	56	35	80	118	65	7	80	158	15	93	65
C0541	68	45	100	142	77	16	86	177	13	112	70
C0641	80	56	122	172	96	20	102	218	17	139.5	90

SIZE	p4	q	q1	s	v2	w7	y	T2	g6	k
C0341	148	54	109	M8x1.25, 15 deep	76	70	140	111	140	460
C0441	168	64	119	M10x1.5, 20 deep	76	74.5	140	111	140	480
C0541	200	68	134	M10x1.5, 18 deep	76	79	140	111	140	499
C0641	243	90	169	M12x1.75, 20 deep	91	101	180	111	140	572

SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0341	16 k6	40	4	32	18	5	M5x0.8, 12 deep	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0441	16 k6	40	4	32	18	5	M5x0.8, 12 deep	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0541	16 k6	40	4	32	18	5	M5x0.8, 12 deep	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0641	16 k6	40	4	32	18	5	M5x0.8, 12 deep	45	70	180	156	45.3	49	14	M16x2.0, 70 long



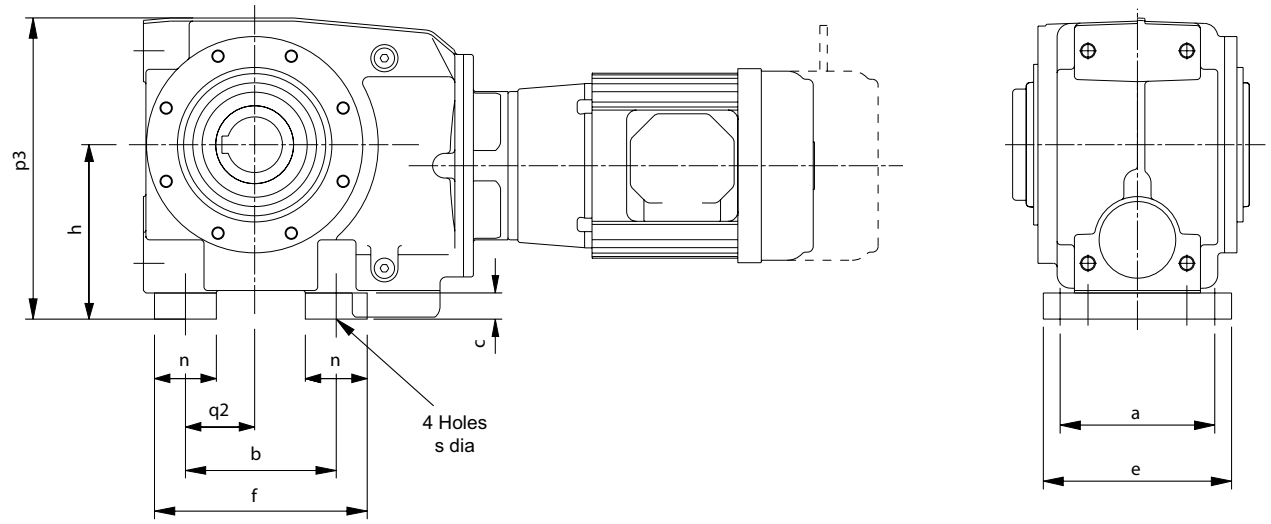
SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o
C0741	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109
C0841	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125
C0941	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150
C1041	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175

SIZE	p3	q	q1	s	s1	v2	v3	w7	y	T2	g6	k
C0741	302	143	220	18	M20x2.5, 34 deep	91	-	125	212	111	140	677
C0841	375	168	255	22	M20x2.5, 34 deep	115	-	143	250	111	180	779
C0941	457	195	300	26	M24x3, 45 deep	115	-	169	300	111	180	862
C1041	565	235	355	26	M24x3, 45 deep	140	155	198	360	115	212	997

SIZE	Input Shaft							Hollow Output Bore							
	d1	L1	L13	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0741	16 k6	40	4	32	18	5	M5x0.8, 12 deep	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long
C0841	19 k6	40	4	32	21.5	6	M6x1.0, 16 deep	70	90	250	220	70.5	75.1	20	M20x2.5, 80 long
C0941	19 k6	40	4	32	21.5	6	M6x1.0, 16 deep	90	107.5	300	265	90.5	95.6	25	M24x3.0, 110 long
C1041	24 k6	50	5	40	27	8	M8x1.25, 19 deep	100	132.5	350	313	100.5	106.6	28	M24x3.0, 110 long

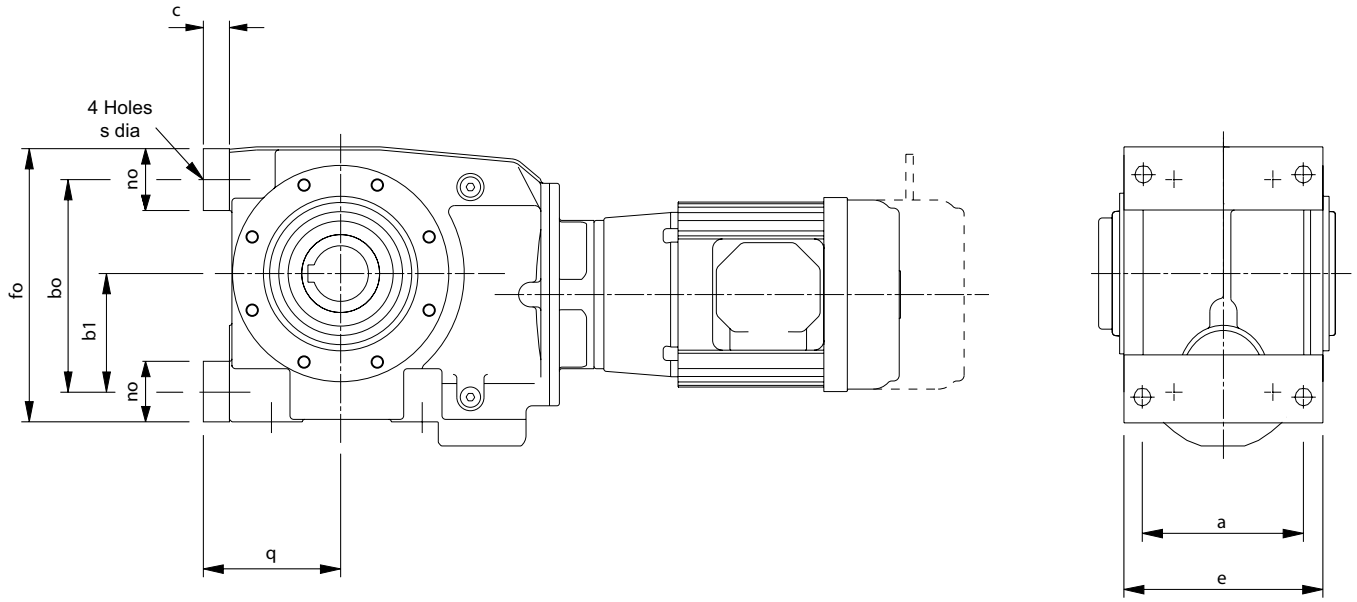
C	0			2				B	R

STANDARD UNIT WITH BASE MOUNTED FEET



C	0			2				E	R

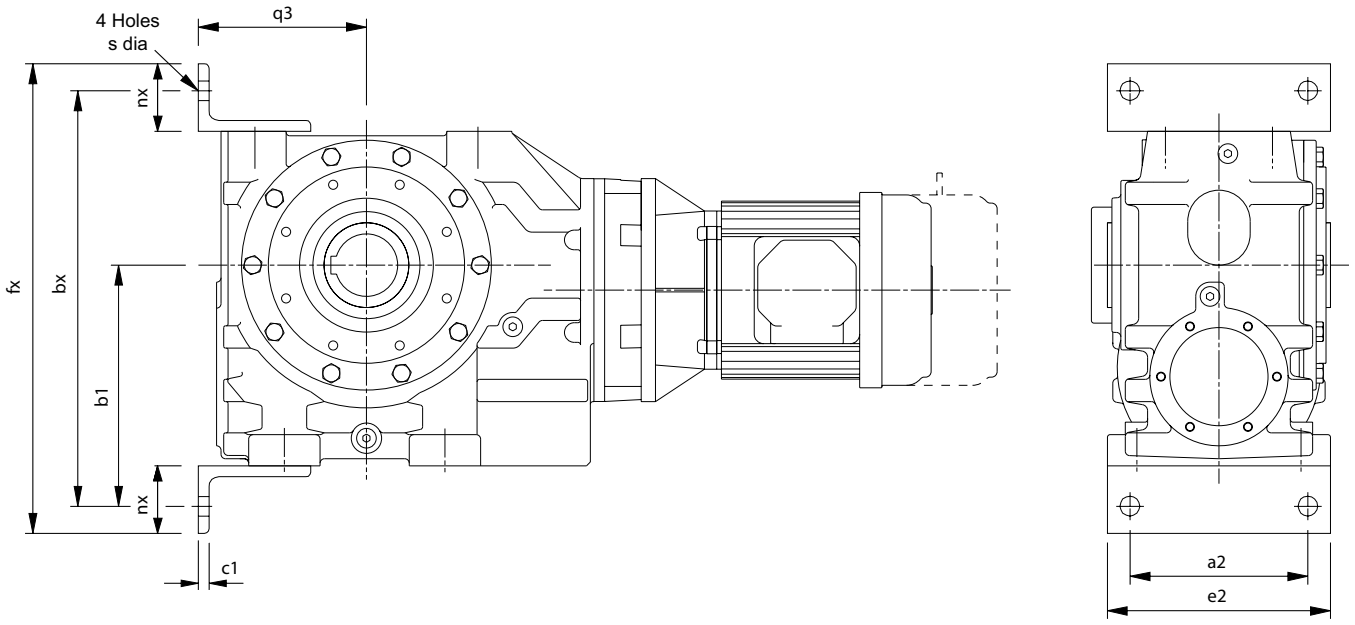
STANDARD UNIT WITH END MOUNTED FEET



SIZE	a	b	b0	b1	c	e	f	f0	h	n	n0	p3	q	q2	s
C03	90	63	80	40	9	110	88	105	80	25	25	148	63	35	9
C04	100	80	118	65	14	124	115	153	100	35	35	175	78	35	11
C05	110	100	142	77	16	136	140	182	112	40	40	200	84	45	11
C06	130	130	180	100	20	160	172	222	140	50	50	243	110	60	14

C								E	R

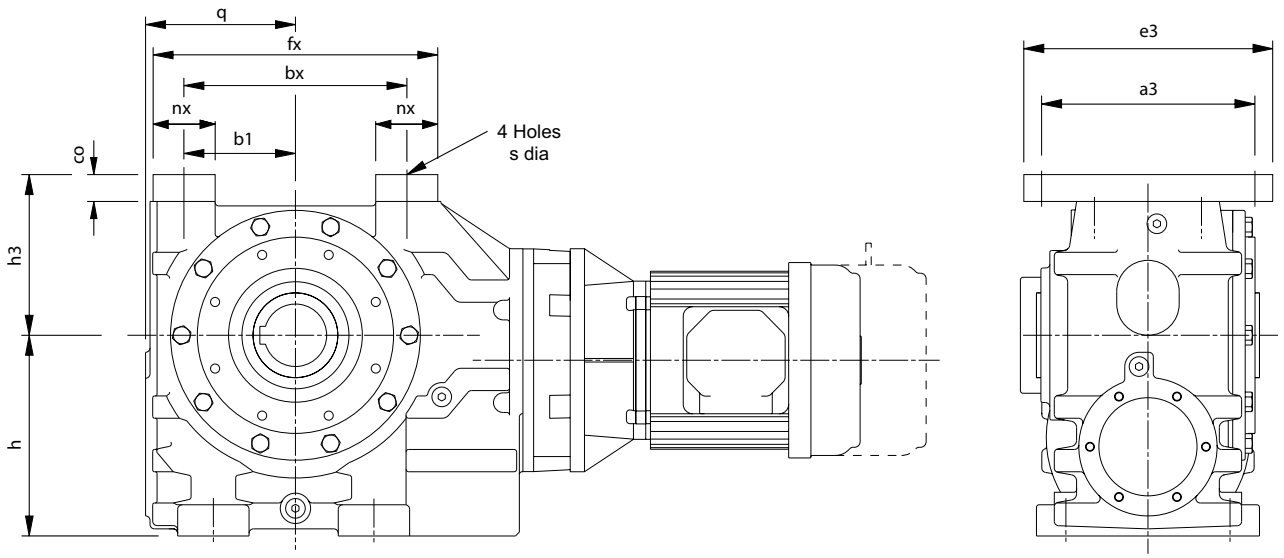
STANDARD UNIT WITH END MOUNTED FEET



SIZE	a2	bx	b1	c1	e2	fx	nx	q3	s
C07	170	392	225	12	220	452	75	162	22
C08	200	465	270	12	250	525	75	187	22
C09	250	557	330	15	305	637	90	220	26
C10	300	665	385	15	360	745	90	260	26

C								R	R

STANDARD UNIT WITH TOP MOUNTED FEET



SIZE	a3	b1	bx	co	e3	fx	h	h3	nx	q	s
C07	205	107.5	215	28	256	278	180	150	63	143	24
C08	225	125	250	30	280	320	225	180	70	168	24
C09	240	145	290	35	300	370	280	212	80	195	28
C10	265	172.5	345	35	330	445	335	265	100	235	28

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.

The ratings listed below are true for horizontal mounting position 1 running continuously with an ambient temperature equal to 20ºC. For other mounting positions, ambients and units operating intermittently multiply thermal power ratings by factors Ft, Fp and Fd as appropriate.

TABLE 1 Thermal Power (kW)

Overall Ratios	Input Rev/min	Unit Size							
		C03	C04	C05	C06	C07	C08	C09	C10
8 to 14	2900	2.80	3.85	4.69	5.1	Consult our Application Engineers			
	1750	1.98	3.26	4.85	5.27				
	1450	1.73	2.85	4.41	4.46	5.71	9.53	18.2	32.5
	1160	1.45	2.40	3.89	3.91	5.71	9.53	11.5	27.7
	960	1.24	2.10	3.45	3.50	5.71	9.53	11.2	24.6
	725	1.07	1.69	2.70	2.79	5.31	9.02	10.0	20.6
	480	0.74	1.22	1.93	1.99	4.11	7.12	9.85	14.6
	250	0.47	0.63	1.09	1.12	2.36	4.19	5.68	8.24
16 to 28	2900	1.70	2.76	3.07	3.73	Consult our Application Engineers			
	1750	1.28	2.03	3.48	3.53	5.01	7.79	13.6	22.5
	1450	1.09	1.62	3.18	3.20	4.95	7.41	12.9	19.4
	1160	0.92	1.37	2.78	2.80	4.81	7.27	11.8	17.0
	960	0.83	1.26	2.45	2.49	4.48	6.91	10.7	14.9
	725	0.67	0.96	1.97	2.02	3.96	6.91	8.71	12.4
	480	0.47	0.66	1.64	1.66	2.90	4.87	6.50	8.78
	250	0.28	0.35	0.89	0.92	1.74	2.95	3.99	4.93
32 to 71	2900	1.22	2.15	3.20	4.41	7.26	9.64	18.6	36.1
	1750	0.84	1.44	2.35	3.70	5.44	7.35	13.0	23.3
	1450	0.69	1.15	2.05	3.26	4.88	7.32	11.6	20.1
	1160	0.57	0.95	1.72	2.79	4.44	7.06	10.9	16.6
	960	0.51	0.85	1.55	2.43	3.97	6.47	8.76	14.1
	725	0.40	0.66	1.18	1.78	3.53	5.15	7.25	11.0
	480	0.33	0.45	0.87	1.28	2.50	3.70	5.37	7.53
	250	0.18	0.30	0.54	0.70	1.33	2.25	2.97	4.07

Table 2. Thermal service factor Ft

Thermal service factor for ambient temperature

Ambient temperature ºC	-30	-20	-10	0	10	20	30	40	50
Factor	1.68	1.55	1.41	1.27	1.14	1.0	0.84	0.68	0.50

Table 3. Thermal service factor Fp

Thermal service factor for mounting positions

Unit Output Speed (Rev / min)	Mounting Position				
	1	2 & 3	4	5	6
0 to 25	1.00	0.997	0.996	0.995	0.993
>25 to 50	1.00	0.993	0.990	0.986	0.982
>50 to 75	1.00	0.987	0.981	0.974	0.968
>75 to 100	1.00	0.980	0.970	0.960	0.950
>100 to 200	1.00	0.943	0.914	0.886	0.858
>200 to 300	1.00	0.896	0.844	0.792	0.840
>300 to 400	1.00	0.840	0.760	0.680	0.600
>400	1.00	0.809	0.724	0.618	0.533

TABLE 4. Thermal service factor Fd

Thermal service factor for duration of running

Unit Output Speed (Rev / min)	% Running time per hour				
	100	80	60	40	20
0 to 10	1.00	1.18	1.45	1.72	2.38
>10 to 25	1.00	1.16	1.39	1.64	2.22
>25 to 50	1.00	1.14	1.31	1.54	2.00
>50 to 100	1.00	1.08	1.19	1.33	1.64
>100 to 150	1.00	1.04	1.08	1.19	1.41
>150 to 200	1.00	1.00	1.00	1.06	1.23
>200	1.00	1.00	1.00	1.00	1.00

TABLE 5. THERMAL POWER (KW) WITH COOLING FAN

Overall Ratios	Input Rev/min	Unit Size							
		C03	C04	C05	C06	C07	C08	C09	C10
8 to 14	2900	-	-	-	-	Consult our Application Engineers			
	1750	-	-	-	-				
	1450	-	-	-	-	11.4	19.1	36.4	65.0
	1160	-	-	-	-	10.6	17.6	22.5	52.2
	960	-	-	-	-	10.0	16.7	19.6	43.0
	725	-	-	-	-	8.00	13.5	15.0	30.9
16 to 28	2900	-	-	-	-	Consult our Application Engineers			
	1750	-	-	-	-	11.3	17.7	30.9	51.2
	1450	-	-	-	-	11.2	17.5	30.6	50.6
	1160	-	-	-	-	9.90	14.8	25.8	38.8
	960	-	-	-	-	8.90	13.4	21.8	31.5
	725	-	-	-	-	7.84	12.1	18.7	26.1

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

Column 10 Entry

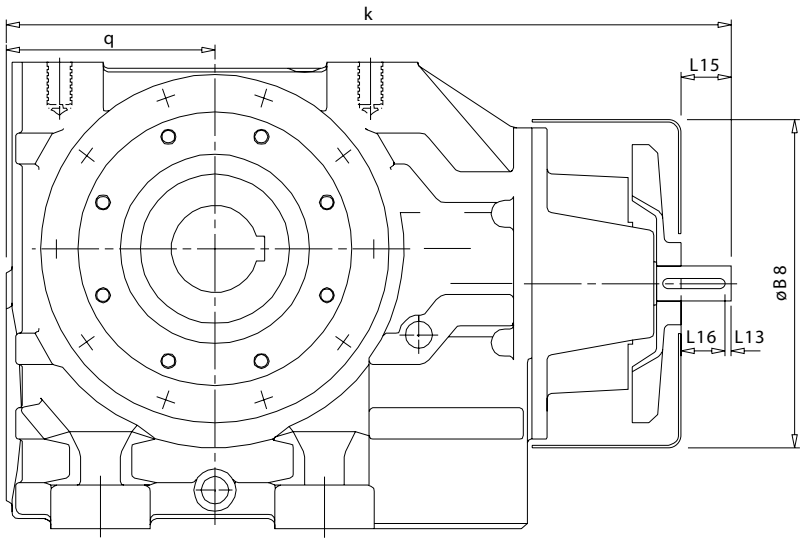
For reducer fan kit modules enter [S] in column 10

or if used in conjunction with a reducer backstop module kit

[Y] CW rotation

[Z] CCW rotation

Dimensions of Fan Cooled Units



Unit Size	øB8	k	L13	L15	L16	q
C0721	225	478	5	35	30	143
C0821	265	583	5	45	40	168
C0921	320	690	5	65	60	195
C1021	380	823	10	95	85	235

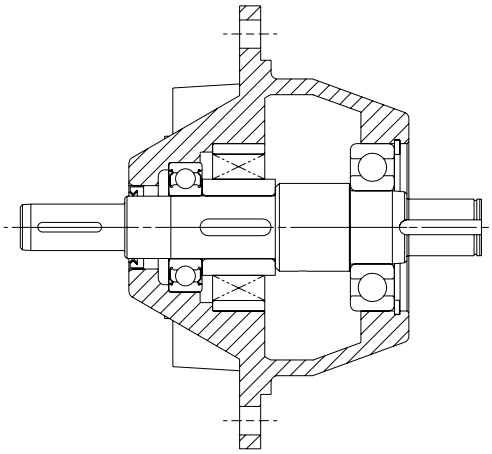
REDUCER BACKSTOP MODULE

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 -40ºC to + 50ºC

Column 10 Entry

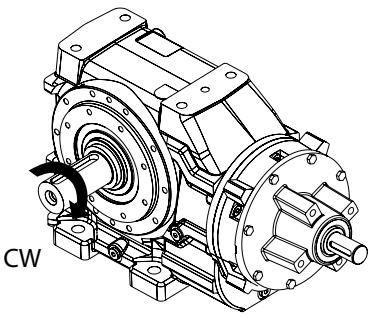
For reducer fan kit modules enter [W] for CCW rotation (or [Z] if used in conjunction with a fan kit)
[X] for CW rotation (or [Y] if used in conjunction with a fan kit)



Unit Size	Lift off Speed ('n' min) at inputshaft (rev/min)	Rated Locking Torque ('T max') at inputshaft (Nm)
C0622/C0842/C0941	800	100
C0722/C1041	670	170
C0822	670	300
C0921	620	940
C1021	550	1260

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

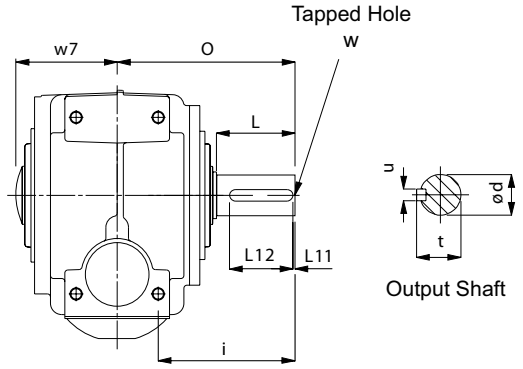
CW	-	Free Rotation	-	Clockwise
		Locked	-	Anticlockwise
AC	-	Free Rotation	-	Anticlockwise
		Locked	-	Clockwise



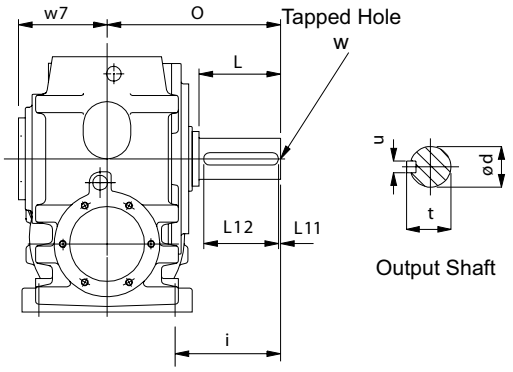
DIMENSIONS
OUTPUTSHAFT OPTIONS

STANDARD OUTPUTSHAFT OPTION

Sizes C03 - C06

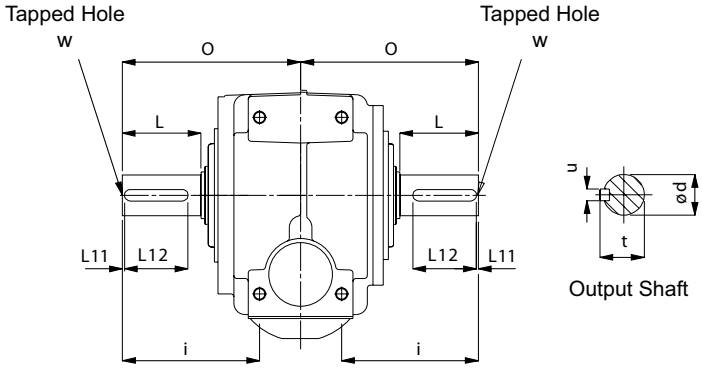


Sizes C07 - C10

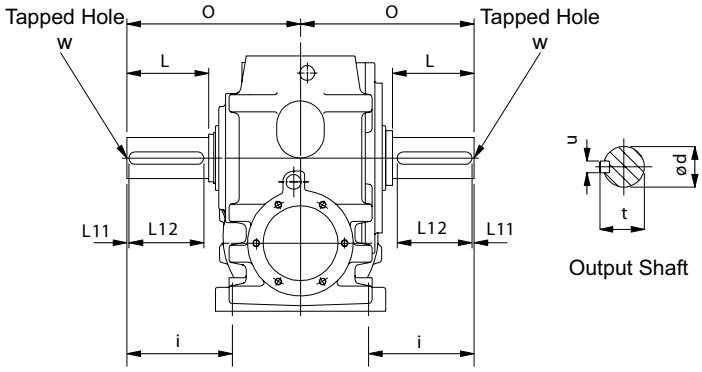


STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION

Sizes C03 - C06



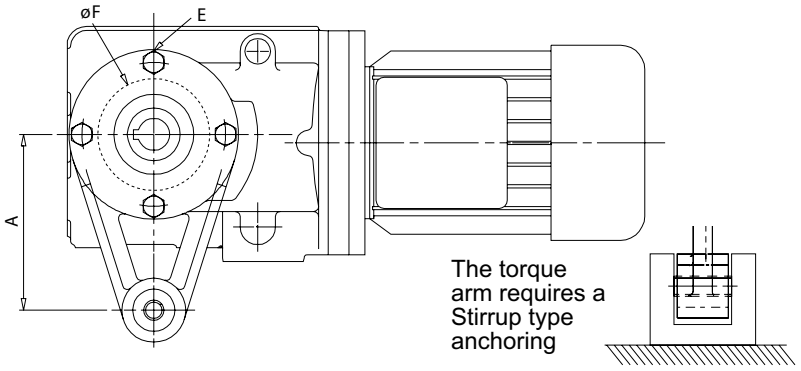
Sizes C07 - C10

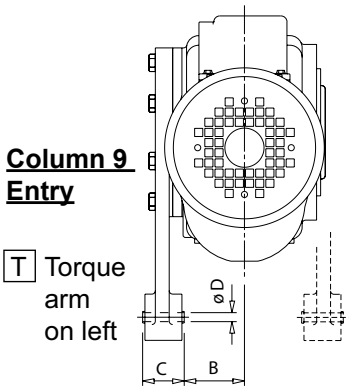


all parallel keys are to DIN 6885

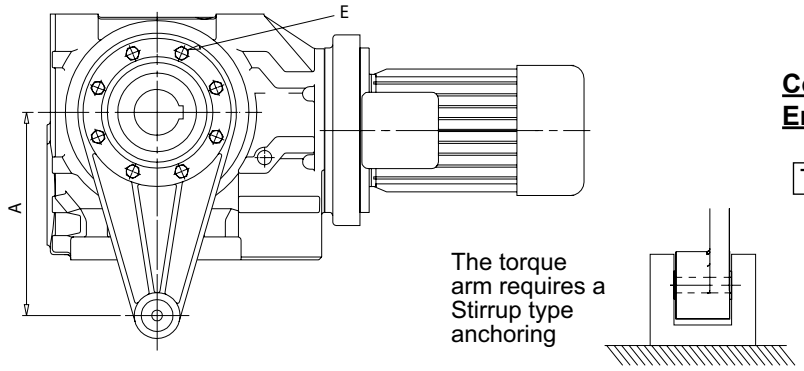
SIZE	ød	i	L	L11	L12	O	t	u	w	w7
C0321	20.015 / 20.002	73	35	3	31	100	22.5	6	M8 x 1.0, 16 Deep	70
C0421	25.015 / 25.002	87	46	3	42	115	28	8	M10 x 1.5, 22 Deep	74.8
C0521	30.015 / 30.002	100	60	3	53	134	33	8	M10 x 1.5, 22 Deep	79
C0621	35.018 / 35.002	120	63	3	55	160	38	10	M12 x 1.75, 25 Deep	101
C0621 Heavy Duty	45.018 / 45.002	155	98	5	80	195	48.5	14	M12 x 1.75, 25 Deep	101
C0721	45.018 / 45.002	120	76	3	70	195	48.5	14	M16 x 2, 36 Deep	125
C0821	60.030 / 60.011	155	120	3	110	255	64	18	M20 x 2.5, 42 Deep	143
C0921	70.030 / 70.011	170	135	3	125	295	74.5	20	M20 x 2.5, 42 Deep	169
C1021	90.035 / 90.013	216	170	3	160	366	95	25	M24 x 3, 50 Deep	198

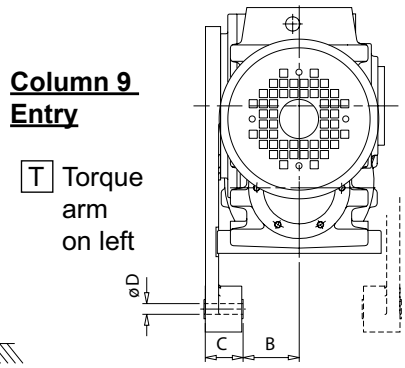
It is recommended that the torque arm is positioned such that the it is fitted on the side of the unit adjacent to the driven machine.





SIZE OF UNIT	DIMENSIONS IN MM					
	A	B	C	øD	E	øF (Spigot Dia)
C03	110	47	36	10.3	4 x M8 on a 90 pcd	69.990 / 6 9.969
C04	130	52	36	10.3	8 x M8 on a 107 pcd	84.990 / 84.968
C05	160	52	36	10.3	8 x M8 on a 130 pcd	104.990 / 104.968
C06	200	71.5	44	16.5	8 x M10 on a 155 pcd	124.990 / 124.965

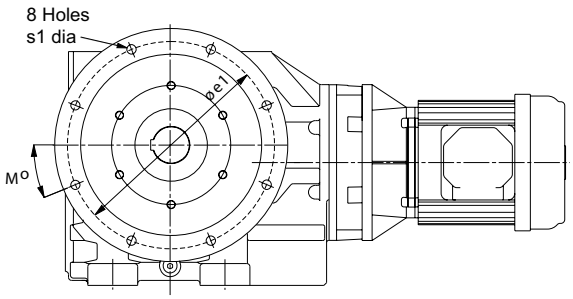




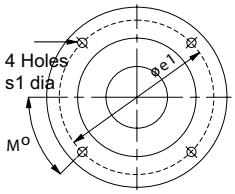
SIZE OF UNIT	DIMENSIONS IN MM				
	A	B	C	øD	E
C07	250	77.5	60	16.4	6 x M12 on a 150 pcd
C08	310	85.5	60	16.4	6 x M12 on a 195 pcd
C09	380	98	80	25	6 x M16 on a 230 pcd
C10	430	137	80	25	10 x M16 on a 280 pcd

DIMENSIONS
D (B5) FLANGE

Sizes C09 & C10

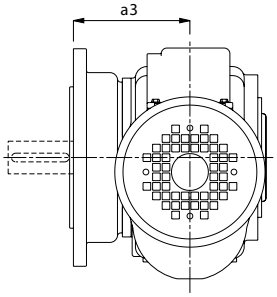


Sizes C03 to C08



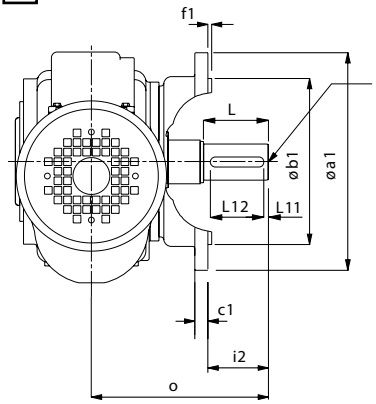
Column 9 Entry

F B5 (D) Output Flange on Left



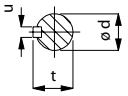
Column 9 Entry

H B5 (D) Output Flange on Right



Tapped Hole
v

Output Shaft



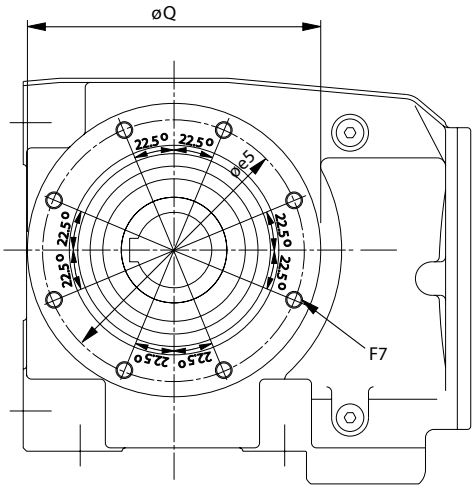
SIZE	øa1	a3	øb1	c1	øe1	f1	m	øs1
C03 Red Dia	120	75	80 j6	8	100	3	45o	6.6
C03	160	75	110 j6	10	130	4	45o	9
C04	160	86	110 j6	10	130	3.5	45o	9
C05	200	107	130 j6	12	165	3.5	45o	11
C06	200	120	130 j6	12	165	3.5	45o	11
C07	250	145	180 j6	12	215	4	45o	14
C08	350	170	250 h6	18	300	5	45o	18
C09	450	200	350 h6	20	400	5	22.5o	18
C10	450	232	350 h6	22	400	5	22.5o	18

SIZE	Standard Output Shaft - Column 11 Entry C								
	ød	i 2	L	L11	L12	o	t	u	v
C0321	20.015 / 20.002	25	35	3	31	100	22.5	6	M8 x 1.0, 16 Deep
C0421	25.015 / 25.002	29	46	3	42	115	28	8	M10 x 1.5, 22 Deep
C0521	30.015 / 30.002	27	60	3	53	134	33	8	M10 x 1.5, 22 Deep
C0621	35.018 / 35.002	40	63	3	55	160	38	10	M12 x 1.75, 22 Deep
C0621 Heavy Duty	45.018 / 45.002	75	98	5	80	195	48.5	14	M12 x 1.75, 22 Deep
C0721	45.018 / 45.002	50	76	3	70	195	48.5	14	M16 x 2, 36 Deep
C0821	60.030 / 60.011	85	120	3	110	255	64	18	M20 x 2.5, 42 Deep
C0921	70.030 / 70.011	95	135	3	125	295	74.5	20	M20 x 2.5, 42 Deep
C1021	90.035 / 90.013	134	170	3	160	366	95	25	M24 x 3, 50 Deep

DIMENSIONS
C (B14) FLANGE

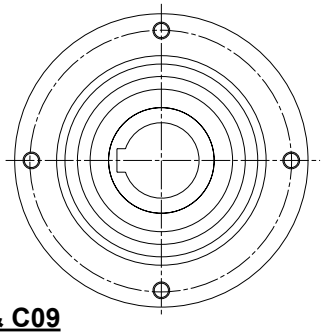
C04, C05, C06 & C08

Eight hole pattern



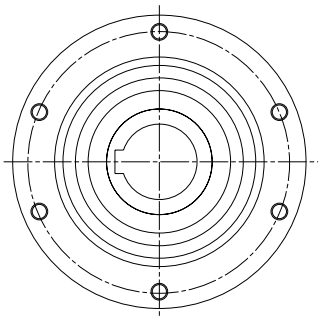
C03

Four hole pattern



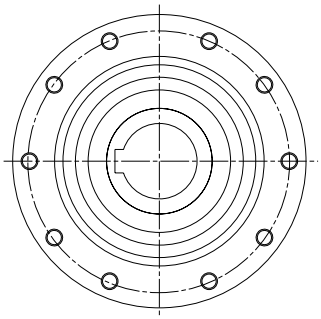
C07 & C09

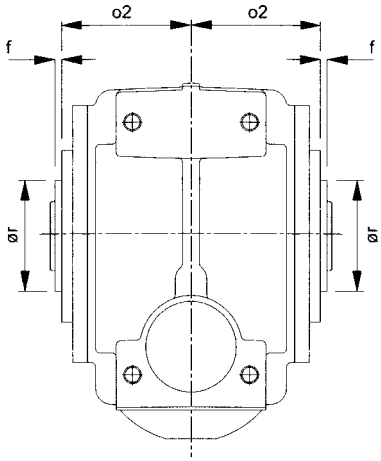
Six hole pattern



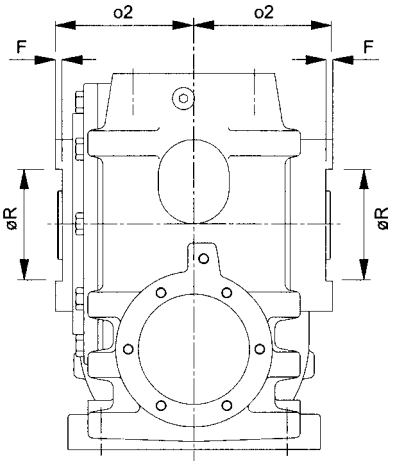
C10

Ten hole pattern





Male spigot
C03 - C06

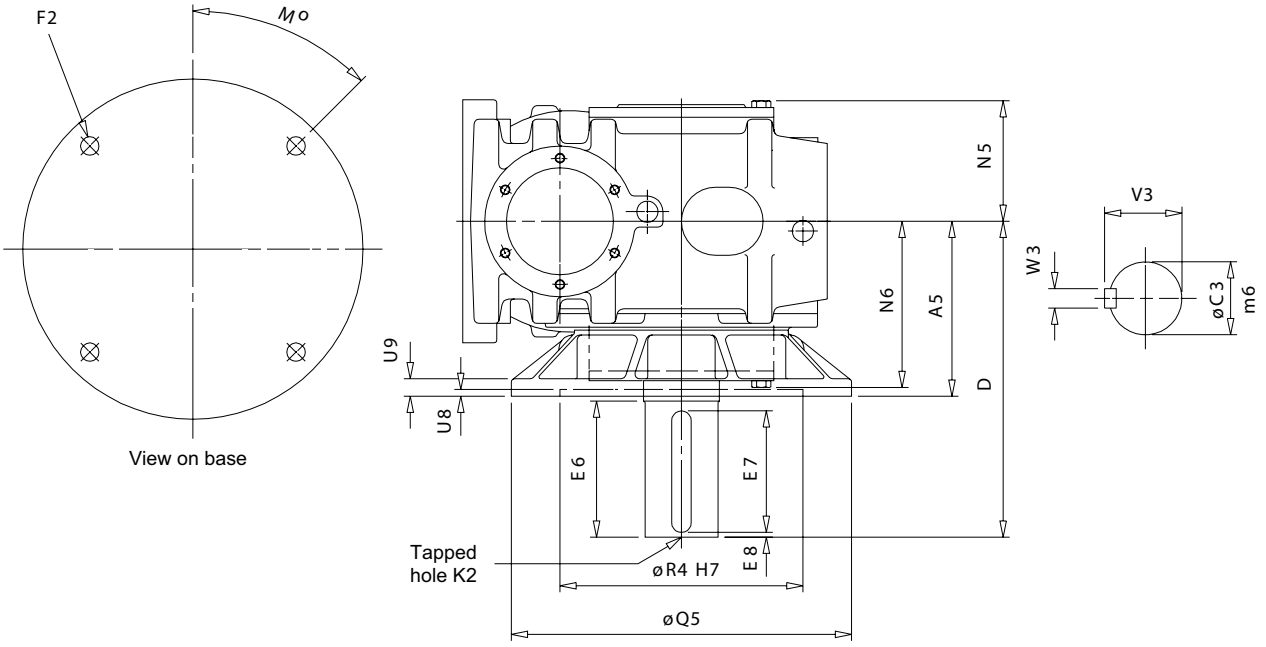


Female recess
C07 - C10

SIZE	øe5	F7	o2	Q	ør h7 spigot ø	øR H7	Spigot	Recess
C03	90 pcd	4 Holes M8 x 1.25, 22 Deep	57	106	70	-	4	-
C04	107 pcd	8 Holes M8 x 1.25, 22 Deep	57	122	85	-	4	-
C05	130 pcd	8 Holes M8 x 1.25, 22 Deep	62	146	105	-	4	-
C06	155 pcd	8 Holes M10 x 1.5, 27 Deep	81	175	125	-	5	-
C07	150 pcd	6 Holes M12 x 1.75, 22 Deep	104	180	-	130	-	4.5
C08	195 pcd	8 Holes M12 x 1.75, 21 Deep	120	220	-	150	-	5.0
C09	230 pcd	6 Holes M16 x 2.0, 27 Deep	144	280	-	180	-	5.0
C10	280 pcd	10 Holes M16 x 2.0, 27 Deep	167	360	-	210	-	7.0

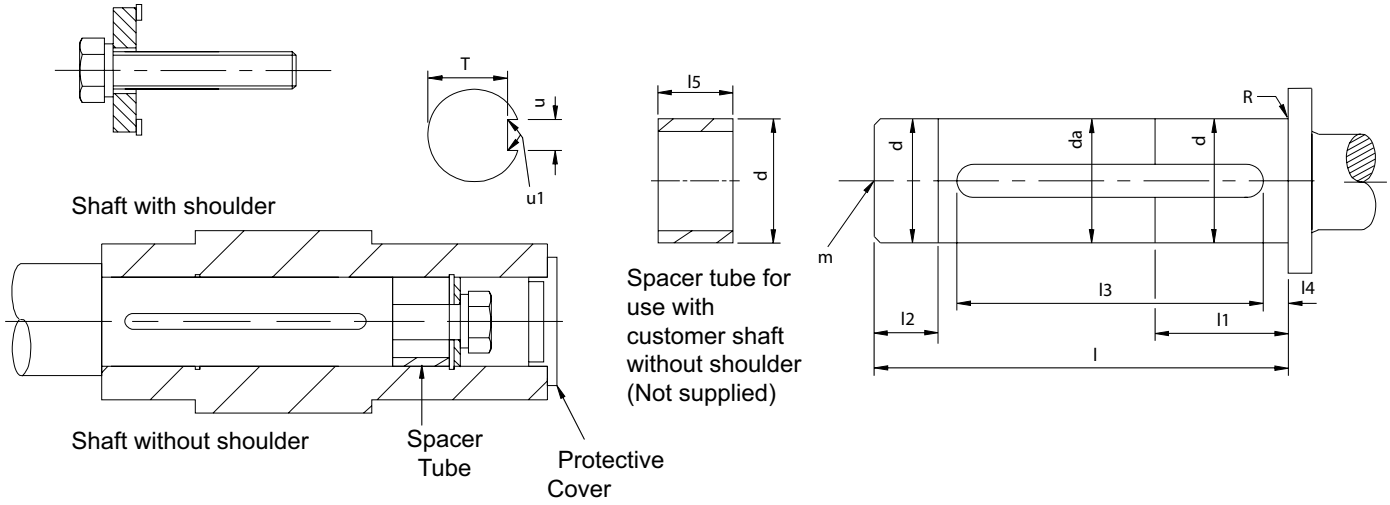
AGITATOR - Non Standard Special Build.

Please consult our Application Engineers



SIZE	A5	C3	D	E6	E7	E8	øF2	K2	M	N5	N6	Q5	R4	U8	U9	V3	W3
C07	160	65	290	125	110	5	4 x ø15 on 265 pcd	M20 x 2.5, 40 deep	45	109	149	300	230	6	16	69	18
C08	180	75	325	140	125	5	4 x ø19 on 300 pcd	M20 x 2.5, 40 deep	45	124	171	350	250	7	17	79.5	20
C09	200	85	360	155	140	5	4 x ø19 on 350 pcd	M24 x 3, 50 deep	45	142	192	400	300	7	20	90	22
C10	212	100	392	175	160	5	8 x ø19 on 400 pcd	M24 x 3, 50 deep	22.5	152.5	205	450	350	7	22	106	28

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



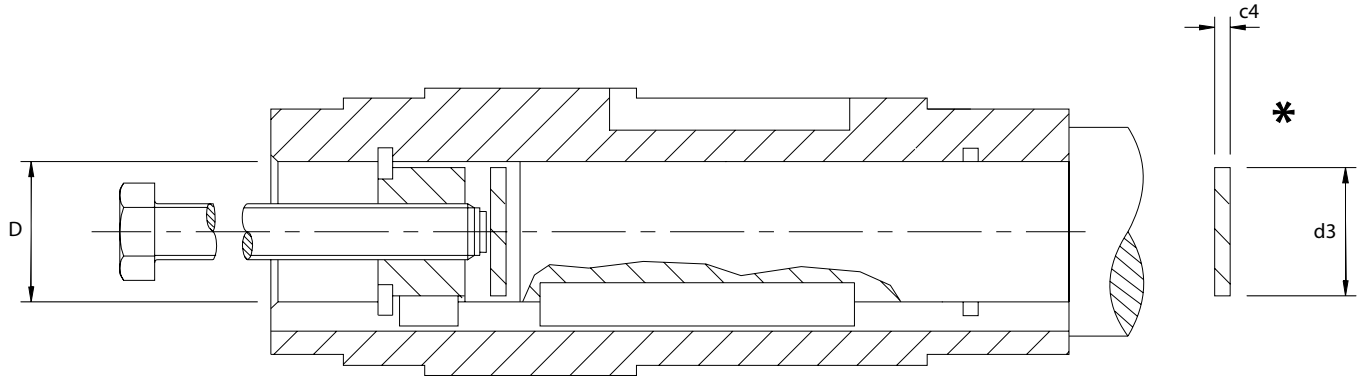
SIZE	Bore	d	da	l	l1	l2	l3	l4	l5	m	N	R	T	u	u1
C03	Std	19.993/ 19.980	19.6	82	30	10	61.3 61.0	3	22	M6 x 1.0 16 deep	8 Nm	0.8R	16.5 16.4	6.000 / 5.970	0.16 0.25R
C04	Reduced	24.993/ 24.980	24.6	99	38	13	79.3 79.0	3	23	M10 x 1.5 22 deep	15 Nm	0.8R	21.0 20.8	8.000 / 7.964	0.16 0.25R
	Std	29.993/ 29.980	29.6	99	45	15	79.3 79.0	3	26	M10 x 1.5 22 deep	15 Nm	0.8R	26.0 25.8	8.000 / 7.964	0.16 0.25R
C05	Reduced	29.993/ 29.980	29.6	104	45	15	79.3 79.0	3	23	M10 x 1.5 22 deep	15 Nm	0.8R	26.0 25.8	8.000 / 7.964	0.16 0.25R
	Std	34.991/ 34.975	34.6	104	53	18	77.3 77.0	3	23	M12 x 1.75 28 deep	20 Nm	0.8R	30.0 29.8	10.000 / 9.964	0.16 0.25R
C06	Reduced	39.991/ 39.975	39.6	125	60	20	100.5 100.0	3	31	M16 x 2 36 deep	45 Nm	0.8R	35.0 34.8	12.000 / 11.957	0.4 0.25R
	Std	44.991/ 44.975	44.6	125	68	23	101.5 101.0	3	31	M16 x 2 36 deep	45 Nm	0.8R	39.5 39.3	14.000 / 13.957	0.4 0.25R
C07	Reduced	49.991/ 49.975	49.6	153	75	25	130.5 130.0	3	35	M16 x 2 38 deep	45 Nm	1.2R	44.5 44.3	14.000 / 13.957	0.4 0.25R
	Std	59.990 / 59.971	59.6	153	90	30	148.5 148.0	3	38	M20x 2.5 42 deep	85 Nm	1.2R	53.0 52.8	18.000 / 17.957	0.4 0.25R
C08	Reduced	59.990 / 59.971	59.6	183	91	31	148.5 148.0	3	37	M20x 2.5 42 deep	85 Nm	1.2R	53.0 52.8	18.000 / 17.957	0.4 0.25R
	Std	69.990 / 69.971	69.6	183	105	35	177.5 177.0	3	37	M20 x 2.5 42 deep	85 Nm	1.2R	62.5 62.3	20.000 / 19.94	0.6 80.4R
C09	Reduced	69.990 / 69.971	69.6	227	105	35	177.5 177.0	3	58	M20 x 2.5 42 deep	85 Nm	1.2R	62.5 62.3	20.000 / 19.94	0.6 80.4R
	Std	89.988 / 89.966	89.6	227	135	45	221.5 221.0	3	58	M24 x 3.0 50 deep	200 Nm	1.2R	81.0 80.8	25.000 / 24.948	0.6 0.4R
C10	Reduced	79.990 / 79.971	79.6	260	120	40	225.5 225.0	3	53	M20 x 2.5 42 deep	85 Nm	1.2R	71.0 70.8	22.000 / 21.946	0.6 0.4R
	Std	99.988/ 99.966	99.6	327	150	45	238.5 238.0	10	46	M24 x 3 50 deep	200 Nm	1.2R	90 89.8	28.000/ 27.948	0.4 0.4R

Assembly Instructions

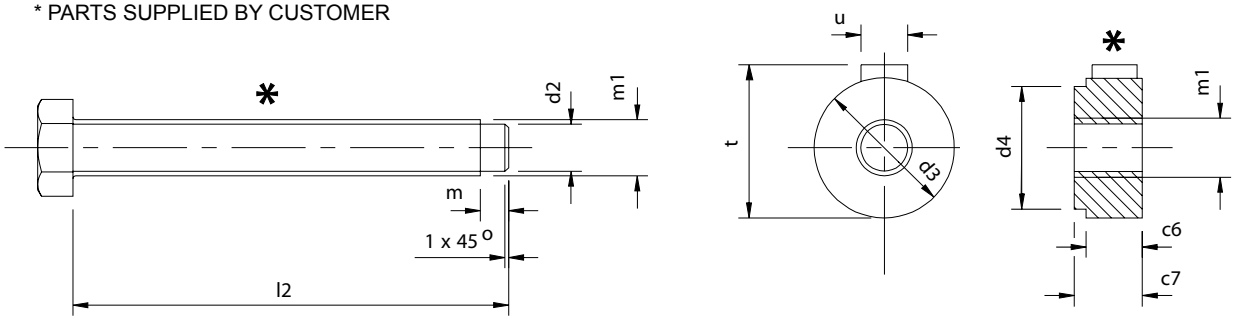
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent antiscuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.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

DIMENSIONS
STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



* PARTS SUPPLIED BY CUSTOMER



SIZE	Bore	c4	c6	c7	D (H7)	d2	d3	d4	l2	m	m1	t	u
C03	Std	5	10	12	20	7	19.9	11.2	120	3	M10 x 1.5	22	6
C04	Reduced	5	15	17	25	13	24.9	16.2	160	3	M16 x 1.5	2	8
	Std	5	15	17	30	13	29.9	20.8	160	3	M16 x 1.5	33	8
C05	Reduced	5	15	17	30	13	29.9	20.8	160	3	M16 x 1.5	33	8
	Std	5	15	17	35	13	34.9	25.2	160	3	M16 x 1.5	38	10
C06	Reduced	5	20	23	40	20	39.9	30.9	220	3	M24 x 1.5	43	12
	Std	5	20	23	45	20	44.9	34.1	220	3	M24 x 1.5	49	14
C07	Reduced	5	20	23	50	20	49.9	39.0	220	3	M24 x 1.5	54	14
	Std	8	24	27	60	26	59.9	47.4	250	5	M30 x 1.5	64	1
C08	Reduced	8	24	27	60	26	59.9	47.4	250	5	M30 x 1.5	64	1
	Std	8	24	27	70	26	69.9	58.4	310	5	M30 x 1.5	74.5	20
C09	Reduced	8	24	27	70	26	69.9	58.4	310	5	M30 x 1.5	74.5	20
	Std	8	24	27	90	26	89.9	75.3	360	5	M30 x 1.5	95	25
C10	Reduced	8	24	27	80	26	79.9	65.5	360	5	M30 x 1.5	85	22
	Std	8	30	34	100	32	99.9	84.1	420	5	M36 x 1.5	106	2

BASE MOUNT UNITS WITH STANDARD HOLLOW SHAFT

UNIT SIZE & No OF REDUCTIONS			C0321	C0331	C0341	C0421	C0431	C0441	C0521	C0531	C0541	C0621	C0631	C0641	C0721	C0731	C0741	C0821	C0841	C0921	C0941	C1021	C1041
Reducer Version			11	14	20	15	18	23	18	21	28	32	38	43	74	81	83	117	143	181	204	326	372
Single Output Shaft			0.4			1.0			1.5			3.7			7.0			12		19		30	
Double Output Shaft			0.6			1.5			2.3			5.6			11			18		28		45	
MOTORISED	63	Without Motor	12	13	20	16	17	24	18	19	29	28	33	44		80	83						
		With Motor	16	17	25	20	21	29	23	24	33	32	37	48		84	88						
	71	Without Motor	11	13	20	15	17	24	18	19	28	28	33	44		80	83						
		With Motor	18	19	26	22	23	30	25	26	35	34	39	50		87	89						
	80A	Without Motor	12	14	20	16	18	24	19	22	29	31	35	44	71	80	83	118	143	174	204		369
		With Motor	21	23	30	25	27	34	28	31	38	39	43	54	80	88	93	127	152	183	213		37
	80B	Without Motor	12	14	20	16	18	24	19	22	29	31	35	44	71	80	83	118	143	174	204		369
		With Motor	23	25	31	27	29	35	30	33	40	42	46	55	82	91	94	129	154	185	215		380
	90S	Without Motor	13	15	21	16	18	25	19	22	30	32	35	45	72	80	84	118	144	174	205		370
		With Motor	26	28	35	30	32	39	33	36	43	46	50	58	85	94	98	131	157	187	218		383
	90L	Without Motor	13	15	21	16	18	25	19	22	30	32	35	45	72	80	84	118	144	174	205		370
		With Motor	27	29	36	31	33	40	34	37	44	47	52	59	86	95	99	132	158	188	219		3 4
	100L	Without Motor										35			74			120	146	176	207	313	372
		With Motor										59			98			144	170	200	231	337	396
	112M	Without Motor										35			74			120	146	176	207	313	372
		With Motor										66			105			151	177	207	238	344	403
	132S	Without Motor													76			123		179		316	374
		With Motor													124			171		227		364	422
	132M	Without Motor													76			123		179		316	374
		With Motor													128			175		231		368	426
	160M	Without Motor																128		184		321	
		With Motor																241		297		434	
	160L	Without Motor																128		184		321	
		With Motor																261		317		454	
	180M	Without Motor																		197		334	
		With Motor																		364		501	
	180L	Without Motor																		197		334	
		With Motor																		378		515	
	200L	Without Motor																		201		338	
		With Motor																		433		570	
	225S	Without Motor																		205		342	
		With Motor																		492		629	
	225M	Without Motor																		205		342	
		With Motor																		527		664	

ALL WEIGHTS IN KG ALL WEIGHTS EXCLUDE LUBRICANT AND ARE FOR STANDARD SHAFT MOUNT UNITS, FOR BASE MOUNT UNITSADD WEIGHT OF SHAFT (SHOWN AT TOP OF TABLE) TO THE FIGURES SHOWN ABOVE

Product Safety Information

IMPORTANT

General - The following information is important in ensuring safety. It **must** be brought to the attention of personnel involved in the selection of power transmission 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.

Our 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 oC), 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, we 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.

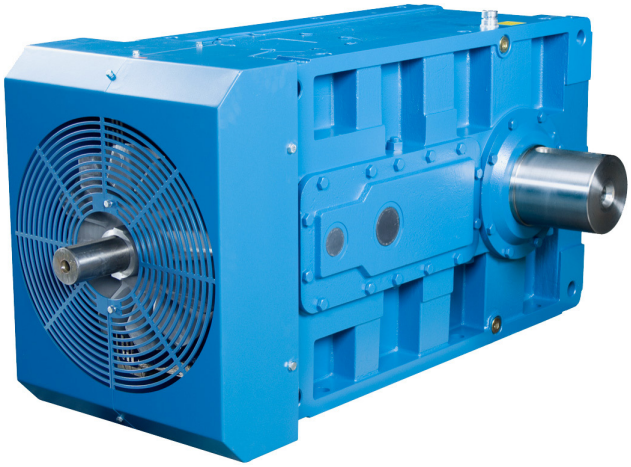
   The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).
   (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overwrap or wax film preservative. Gloves should be worn when 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 our 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 our Application Engineers.

NOTES



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