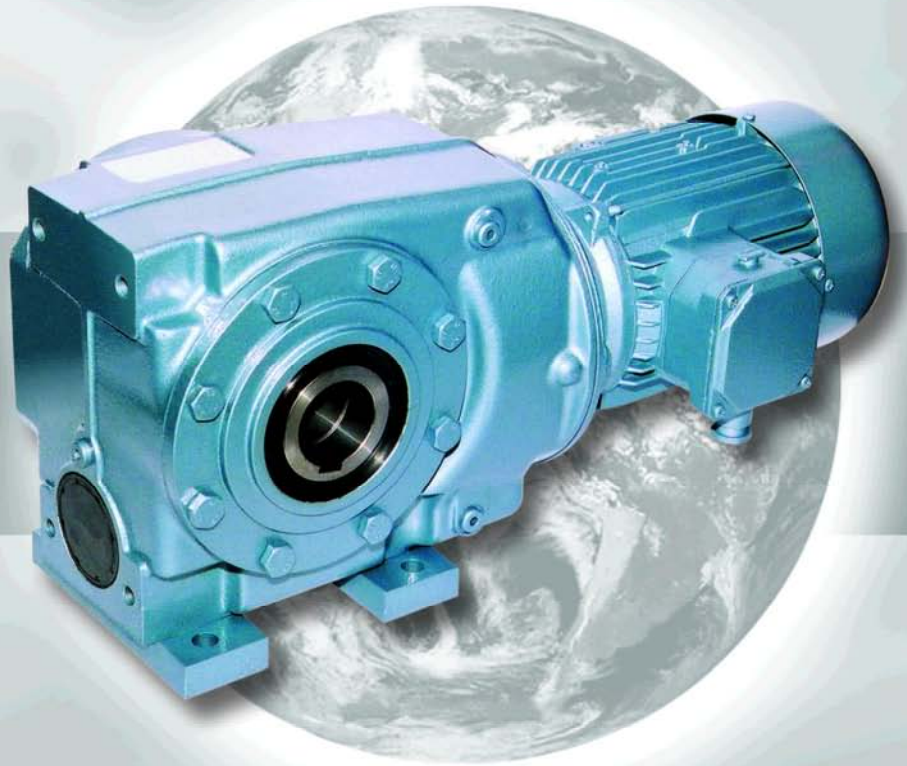
Series C



ATEX
Compliance Assured

Total compliance with the ATEX Directive safeguarding the use of industrial equipment in potentially explosive atmospheres is assured for users of Textron Power Transmission 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.

CONTENTS

GENERAL DESCRIPTION

0403

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 60000:1 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 (EFF1 or EPACT)
Unit type E - Motorised with NEMA high efficiency motor (EPACT)
Unit type G - Unit to allow fitting of IEC motor (non Textron PT motor)
Unit type A - Unit to allow fitting of NEMA motor (non Textron PT 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.

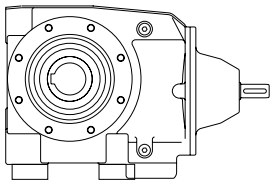
Brake geared motors are available as standard.

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.

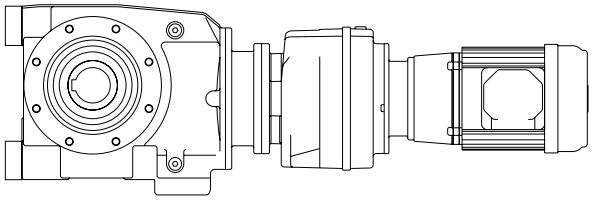
Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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.



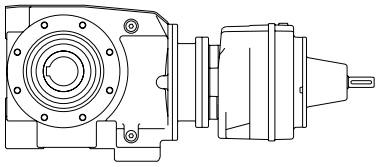
Two stage reduction unit with base mounted feet and hollow output shaft

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



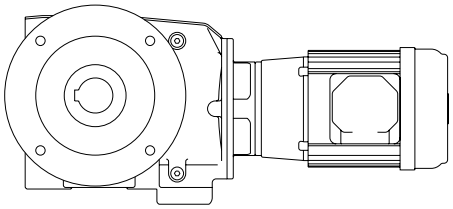
Four stage motorised unit with end mounted feet and hollow output shaft

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



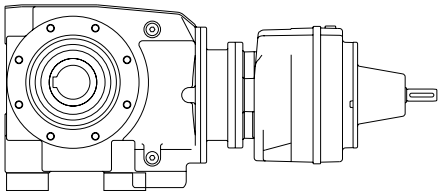
Four stage reduction unit with hollow output shaft

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



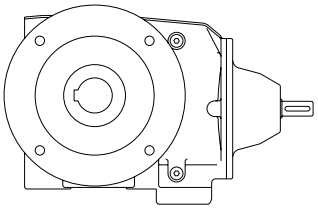
Two stage motorised unit with output flange and single extension output shaft

* 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

0403

	Gearbox Codes													Motor Codes						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
*	C																			
Example	C	0	3	2	1	5	0	.	B	M	C	-	1	D	.	1	8	A	-	-

1 - Series C

Range [C]

2, 3 - Size of Unit

[0 3] Through [1 0]

4 - No of Reductions

[2] & [4]

5 - Revision Version

[1] For Sizes 03 to 10

6, 7, 8 - Nominal Overall Ratio

eg [5 0 .] See Pages 72 - 80

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)
- [A] - Agitator (Sizes C07 - C10 Only)
- [C] - Vertical Output shaft with extended bearing housing. (Sizes C07 - C10 Only)

10 - Type of Unit

- [M] - Motorised with IEC standard motor
- [N] - Motorised with NEMA standard motor
- [H] - Motorised with IEC high efficiency motor (EFF1 or EPACT)
- [E] - Motorised with NEMA high efficiency motor (EPACT)
- [G] - Unit to allow fitting of IEC motor (non std motor)
- [A] - Unit to allow fitting of NEMA motor (non std motor)
- [R] - Reducer unit
- [S] - Reducer unit with fan kit
- [W] - Reducer unit with backstop CCW rotation
- [X] - Reducer unit with backstop CW rotation
- [Y] - Reducer unit with fan and backstop CW rotation
- [Z] - Reducer unit with fan and backstop CCW rotation

20 - Additional Gearbox Features

Double Oil Seal, Motorised Backstop Etc

eg [-] [F] See Page 25

19 - Additional Motor Features

eg [-] [A] See Page 24

For Types Without Motor Enter [-]

18 - No of Motor Poles

[-] No motor

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

[S] Dual speed or special motor

15, 16, 17 - Geared Motor Powers

Motor Power Required

eg [. 7 5] See Page 26 - 61

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

13, 14 - Mounting Position

eg [2 B] See Page 16

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

See Pages 12 and 13

For All Other Types Enter [-]

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]

For Agitator [-] See Page 99

See pages 10 & 11 for inch options

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

** Looking on Inputshaft Mounting Position 1 (See page 17 for unit handings)

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

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

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

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

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

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

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

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 0.7 kW
Output speed of gearbox or Input speed of machine = 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 108

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 3, page 7

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 6

Duration of service (hours per day) = 24hrs

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

Therefore mechanical service factor (Fm) = 1.25

If the unit is subject to frequent start/stops Fm must be multiplied by factor Fs (see table 2 page 6)

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

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

$$\frac{0.7 \times 9550}{68} = 98 \text{ Nm}$$

3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.
Absorbed power = 0.7 kW, therefore refer to 0.75 kW selection table, page 36

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
4 POLE	165	8.59	36	2.24	2841	C 0 3 2 1 8 . 0 _ 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 85 against the requirement of 98 Nm, hence the same unit fitted with a 1.1 kW motor is required (page 38).

1.1 kW

	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
4 POLE	164	8.59	53	1.52	2831	C 0 3 2 1 8 . 0 _ 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 .		

Selected unit's output torque (M2) = 125 Nm, therefore unit 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

	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
4 POLE	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	0.8	2800	2 2 .		
	164	8.59	54	2.51	5286	C 0 4 2 1 8 . 0 _ M _ - _ _ 1 . 1 A - -	26.5	90S

Selected unit's service factor (Fm) = 1.36, therefore unit is acceptable.

6 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 70, 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

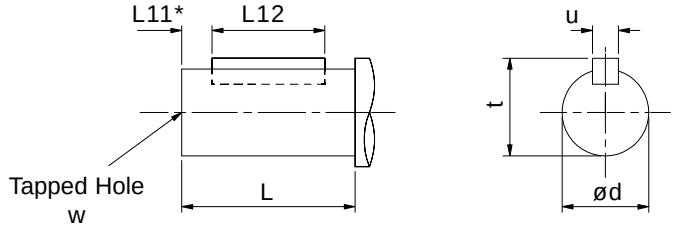
	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
4 POLE	164	8.59	53	1.52	2831	C 0 3 2 1 8 . 0 _ M _ - _ _ 1 . 1 A - -	24.5	90S
	121	11.61	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	0.8	2800	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 b) Ambient temperature is above 40°C
Inertia of Gear Unit plus Motor

0312

OUTPUTSHAFT OPTIONS, COLUMN 11 ENTRY



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

Column 11 Entry

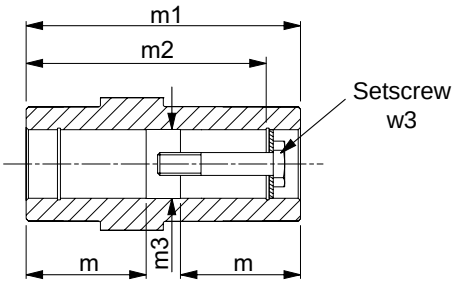
Standard Single Extension [C] on Left [E] on Right
Standard Double Extension [D]
Std Extended Shaft for Flange Mounted Units [F]
Std Heavy Duty Single Extension (Size C06) [J]
Std Heavy Duty Double Extension (Size C06) [K]
Inch Single Extension [N] on Left [B] on Right
Inch Double Extension [P]
Inch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

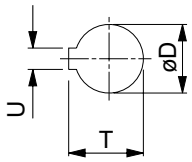
SIZE OF UNIT	TYPE OF OUTPUT SHAFT	COLUMN 11 ENTRY	DIMENSIONS IN MM (Inch shaft in inches)						
			ød	L	L11	L12	t	u	w
C03	Standard	C, E, D	20.015 / 20.002	35	3	31	22.5	6	M6 x 1.0 x 16 Deep
	Inch	N, B, P	0.7500" / 0.7495"	1.38"	*	1.28"	0.83"	0.19"	1/4 UNF x 0.63" Deep
C04	Standard	C, E, D	25.015 / 25.002	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

0211

OUTPUT BORE OPTIONS, COLUMN 11 ENTRY

Standard / Inch Hollow Shaft





Output Shaft Bore

Column 11 Entry

Standard Hollow Shaft [H]

Standard Kibo Shaft * - entry depends on shaft diameter see page 92

Standard Taper Release * [W] on Left [V] on Right

Standard Shrink Disc * [X] on Left [Y] on Right

Inch Hollow Shaft [A]

Inch Kibo Shaft *- entry depends on shaft diameter contact us

Inch Taper Release * [Z] on Left [S] on Right

Inch Shrink Disc * [M] on Left [U] on Right

* See pages 91 - 95 for dimensions of these shaft options

SIZE OF UNIT	TYPE OF BORE	COLUMN 11 ENTRY	DIMENSIONS IN MM (INCH BORE 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	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		-	-	-	-	-	-	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	P	C	H	A	J	A	G
180		-	-	-	-	-	-	-	-	-	-	-	-	B	K	B	H
200		-	-	-	-	-	-	-	-	-	-	-	-	C	L	C	J
225		-	-	-	-	-	-	-	-	-	-	-	-	D	M	D	K

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	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

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	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	500 & 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	500 & 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	P

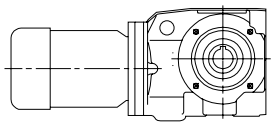
NEMA Flanges C Face - Column 12 Entry For Unit Types Column 10 Entries A, E and N Only

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
		C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	RATIO	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 & Over	500	560 & Over	450	500 & 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

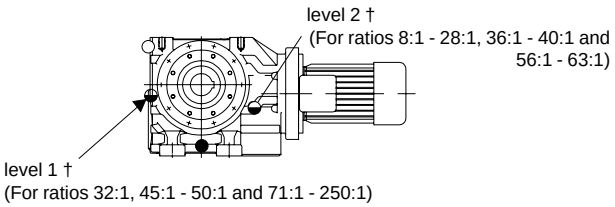
LUBRICATION FILL LEVELS

0401

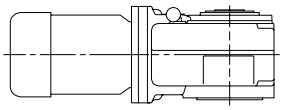
MOUNTING 1 **C03, 04, 05, 06** ★



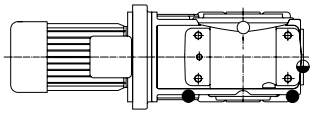
C07, 08, 09, 10



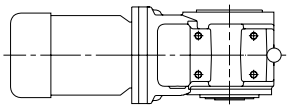
MOUNTING 2 **C03, 04, 05, 06** ★



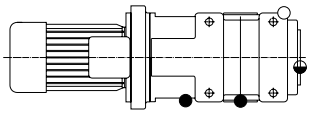
C07, 08, 09, 10



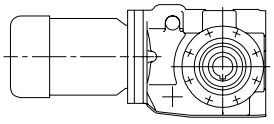
MOUNTING 3 **C03, 04, 05, 06** ★



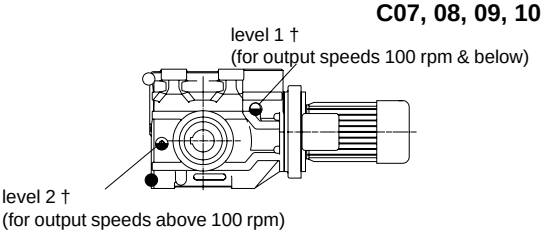
C07, 08, 09, 10



MOUNTING 4 **C03, 04, 05, 06** ★

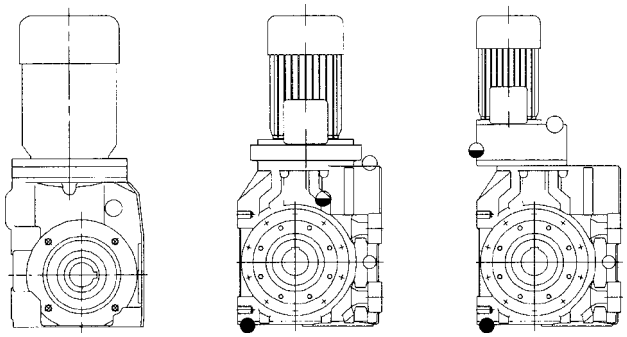


C07, 08, 09, 10



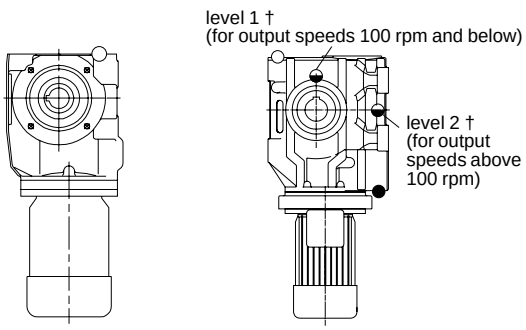
MOUNTING 5

C03, 04, 05, 06 ★ **C07, 08, 09, 10** **C0731**



MOUNTING 6

C03, 04, 05, 06 **C07, 08, 09, 10**



MOTOR MUST BE FITTED WITH SEAL FOR THIS POSITION

● DRAIN POSITION
◒ LEVEL POSITION
} C07/08/09/10 ONLY
○ VENTILATOR / FILLING POSITION

★ THESE UNITS ARE NOT FITTED WITH A VENTILATOR
SIZES C03 AND C04 HAVE TWO TAPPED HOLES FOR FILLING PURPOSES,
SIZES C05 AND C06 HAVE THREE TAPPED HOLES FOR FILLING PURPOSES

† ASSUMING 1450 RPM INPUT

MOUNTING POSITIONS - SHOWN AS MOTORISED - APPLIES ALSO FOR REDUCERS

0403

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 taken using the level plug, see page 14. These 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 35°C. Oil grades and oil level should therefore always be checked before installation, instructions are provided with all units despatched.
To determine the oil grade refer to table 1, and then subsequently to the approved lubricant scheme booklet which gives approved lubricants for use in our industrial gearboxes.
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 approved lubricant booklet for choice of lubricants within the grades.

If not 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)**	**-30°C to 20°C**	**0°C to 35°C**	**20°C to 50°C**
DOUBLES	8 - 18	0 - 750	6G	6G	8G
		>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(0.88)

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

DOUBLE REDUCTION 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	7.4	14.4	21.6
		Level 2 •										3.4	3.8	6.5	8.5	12.2
	2			0.5	0.8	0.7	0.9	1.0	1.2	2.3	2.5	3.7	3.7	6.0	11.1	19.0
	3			0.5	0.8	0.6	0.6	1.0	1.4	2.2	2.5	3.7	3.7	6.0	11.1	19.0
	4	Level 1 •		0.7	1.2	1.0	1.5	1.4	2.1	3.1	4.0	5.5	5.9	10.25	17.1	31.3
		Level 2 •										3.2	3.6	5.75	7.5	17.3
	5			0.6	1.0	0.9	1.3	1.4	2.0	3.0	4.6	6.1	6.6	9.6	16.6	31.5
	6 *	Motorised	Level 1 •	0.65 (0.65)	1.15	1.0 (0.88)	1.5	1.4 (1.3)	1.9	3.2 (3.0)	4.0	8.4	9.0	14.9	27.3	43.7
			Level 2 •									5.2	-	9.4	17.0	28.8
		Reducer	Level 1 •	0.85 (0.75)	1.35	1.2 (1.0)	1.7	1.6 (1.5)	2.1	3.4 (3.1)	4.2	8.8	9.2	15.3	27.7	44.1
			Level 2 •									5.6	-	9.8	17.4	29.2

• See page 14 for oil level positions

* For PG kits 0.8 to 2.8 use the quantities in brackets

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	1.1	1.1	1.1	1.5	1.5	2.5	2.5	4.9
	5 & 6	0.7	0.7	0.7	0.8	0.8	1.6	1.6	2.8

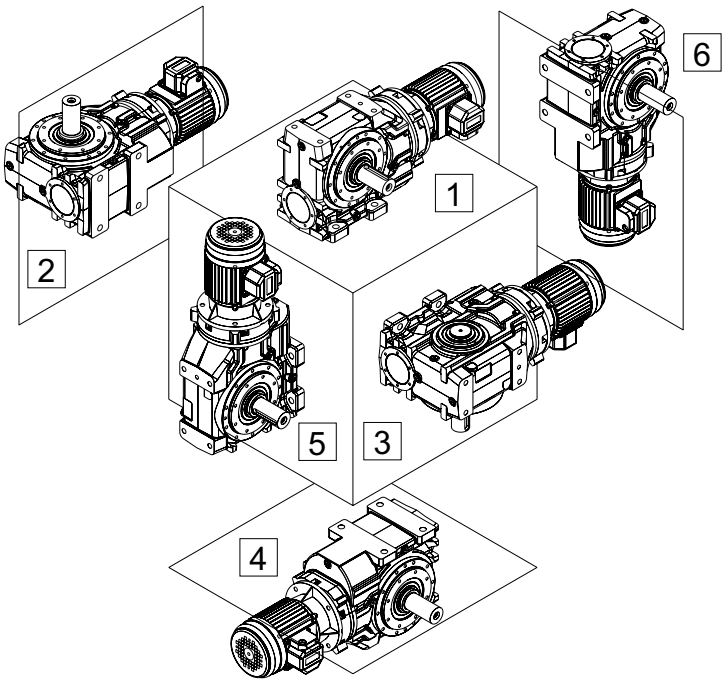
● Unit filled with Grade 6G lubricant suitable for all ambient temperatures between 0°C to 35°C and are 'lubricated for life'

0208

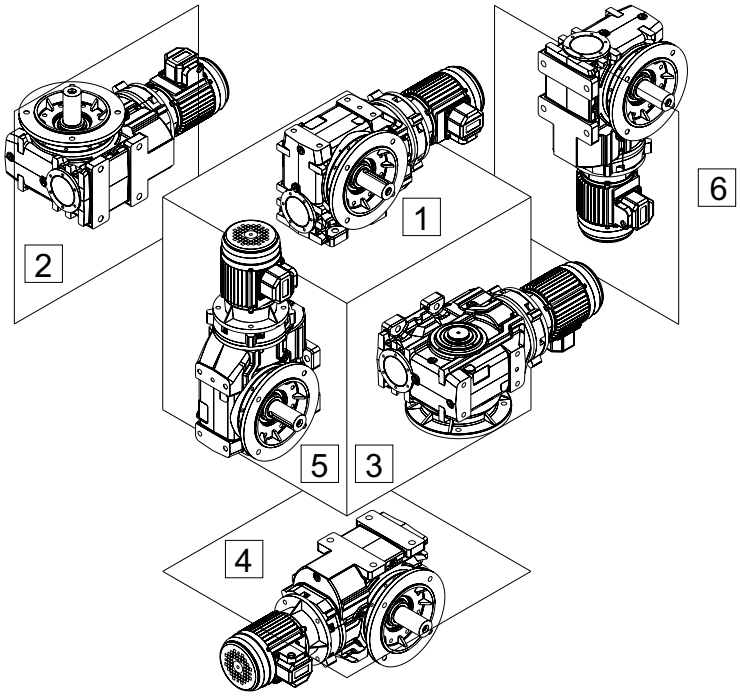
COLUMN 13 ENTRY

Enter [-] for units with no oil fill

Base Mounted Units



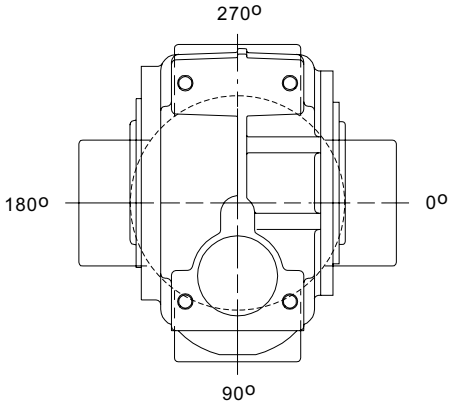
Flange Mounted Units



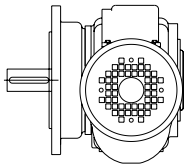
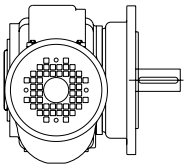
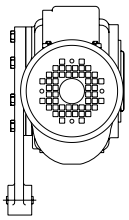
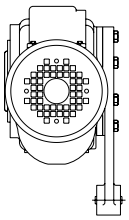
MOUNTING POSITIONS - SHOWN AS MOTORISED - APPLIES ALSO FOR REDUCERS

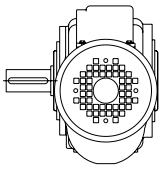
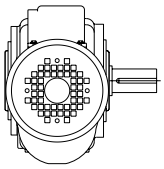
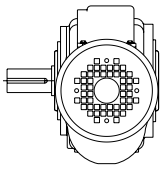
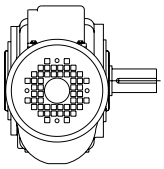
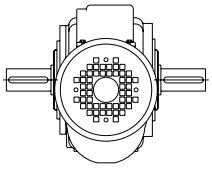
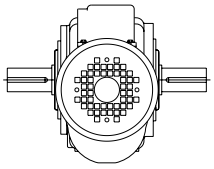
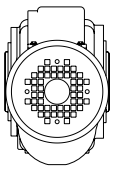
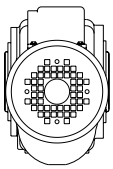
COLUMN 14 ENTRY

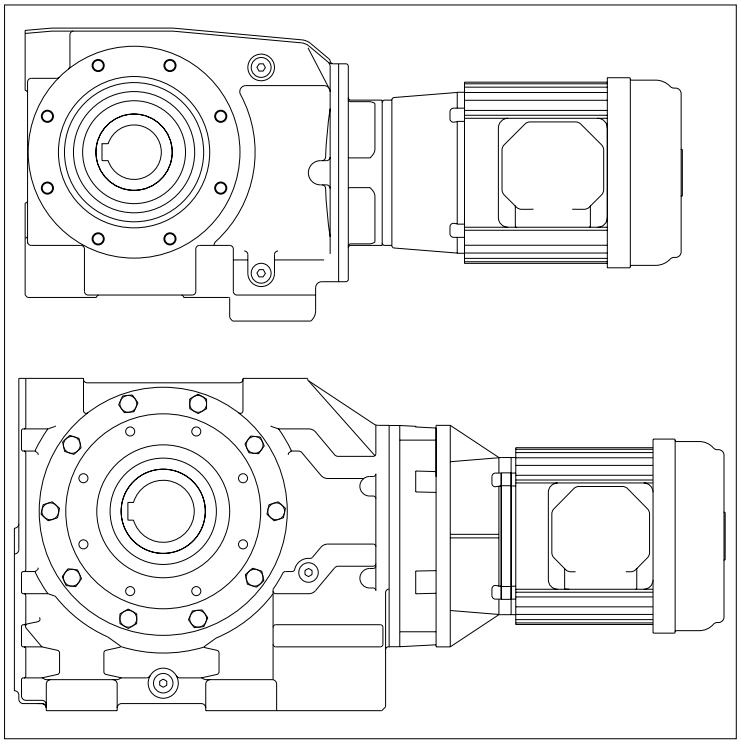
ALL MOTORS



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

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 	



MOTORISED

SERIES C

0312

TEFC, CLASS F, 40°C AMBIENT TEMP. AS; BS DESIGN B CONTINUOUS DUTY S.F. 1.0, 380, 400, 415 50HZ

ALUMINIUM MOTORS TYPICAL PERFORMANCE (400 V)

kW	Full Load (RPM)	Frame No.	Current at 400V (Amps)	Efficiency		Power Factor		D.O.L. Start Current (% FLT)	D.O.L. Start Torque (% FLT)	Pull Up Torque (% FLT)	Pull Out Torque (% FLT)	Rotor Inertia GD^2 (kg,m^2)	Approx Weight (kg)
				100% Load (%)	75% Load (%)	100% Load (Cos ø)	75% Load (Cos ø)						
0.12	2790	63	0.44	61.2	59.0	0.65	0.58	490	200	170	280	0.0020	4.5
	1360	63	0.45	60.5	60.0	0.62	0.51	450	200	180	260	0.0022	4.5
	870	63	0.59	52.0	51.0	0.57	0.49	380	175	158	200	0.0029	4.5
0.18	2800	63	0.59	64.0	61.5	0.70	0.62	490	200	170	280	0.0021	4.5
	1370	63	0.64	62.0	62.4	0.64	0.59	430	200	180	260	0.0028	4.5
	900	71	0.68	60.0	61.9	0.60	0.51	380	175	158	200	0.0053	6.5
0.25	2800	63	0.76	66.2	64.6	0.75	0.67	550	200	170	280	0.0023	4.5
	1400	71	0.82	65.5	64.0	0.67	0.59	490	200	180	250	0.0034	6.5
	900	71	0.90	63.0	63.3	0.61	0.53	400	175	158	210	0.0064	6.5
0.37	2800	71	0.92	71.0	69.0	0.83	0.76	670	200	170	280	0.0023	6.5
	1400	71	1.13	68.5	66.2	0.70	0.61	530	200	180	250	0.0045	6.5
	920	80A	1.29	66.7	65.2	0.62	0.58	450	175	158	210	0.0081	9.5
0.55	2780	71	1.35	74.3	72.8	0.80	0.74	680	200	170	260	0.0023	6.5
	1420	80A	1.56	73.5	72.0	0.72	0.64	590	200	180	250	0.0067	9.5
	920	80B	1.76	69.5	67.5	0.65	0.58	490	175	158	220	0.011	11
0.75	2830	80A	1.66	76.5	77.0	0.85	0.80	690	200	170	250	0.0045	9.5
	1415	80A	1.97	75.3	74.3	0.73	0.67	580	200	180	250	0.0081	9.5
	920	90S	2.16	73.8	72.3	0.67	0.60	510	175	158	210	0.016	13.5
1.1	2820	80B	2.36	79.0	79.5	0.85	0.81	795	200	170	250	0.0054	11
	1410	90S	2.70	77.8	76.8	0.76	0.69	640	200	180	240	0.013	13.5
	925	90L	3.05	74.0	76.8	0.67	0.60	520	175	158	220	0.022	14.5
1.5	2860	90S	3.18	80.0	80.5	0.85	0.82	755	200	170	270	0.0099	13.5
	1420	90L	3.50	80.0	78.2	0.79	0.71	650	200	180	240	0.016	14.5
	925	100L	3.88	79.0	78.2	0.70	0.64	590	175	158	210	0.03	24
2.2	2860	90L	4.59	82.3	82.8	0.84	0.82	795	200	170	270	0.014	14.5
	1420	90LA	5.03	81.0	81.2	0.78	0.72	760	200	180	240	0.022	20
	1425	100L	4.89	82.3	81.6	0.79	0.73	700	200	180	240	0.03	24
	950	112M	5.40	81.6	80.8	0.72	0.65	640	175	158	220	0.054	31
3	2870	100L	5.94	83.8	84.3	0.87	0.85	770	200	170	270	0.021	24
	1425	100L	6.51	83.2	83.0	0.80	0.74	700	200	180	240	0.042	24
	955	132SA	6.74	83.2	83.0	0.77	0.72	680	175	158	230	0.14	48
4	2880	112M	7.7	85.3	85.8	0.88	0.86	830	200	160	260	0.042	31
	1435	112M	8.45	85.3	84.0	0.80	0.75	760	200	160	240	0.059	31
	960	132M	9.19	84.5	83.0	0.75	0.68	685	175	158	240	0.16	52
5.5	2900	132SA	10.5	86.7	86.2	0.88	0.83	830	200	170	250	0.059	48
	1430	112MA	11.7	85.7	85.5	0.79	0.75	820	200	180	230	0.085	45
	1440	132SA	11.5	86.7	85.5	0.80	0.75	760	200	180	230	0.095	48
	960	132M	12.0	85.5	84.8	0.77	0.72	720	175	158	230	0.21	52
7.5	2900	132SB	14.2	87.9	87.9	0.87	0.85	765	200	170	240	0.07	53
	1445	132M	14.9	87.9	87.9	0.83	0.78	730	200	180	230	0.13	52
	960	160MA	16.0	86.5	84.7	0.79	0.73	680	175	158	230	0.37	81
9.2	1440	132MA	18.15	87.7	87.9	0.84	0.80	760	200	180	230	0.19	78
11	2900	160MA	20.5	88.5	88.0	0.88	0.86	795	200	170	230	0.15	81
	1440	132MB	21.1	88.4	88.1	0.85	0.82	820	200	180	230	0.22	88
	1450	160MA	20.7	88.5	88.5	0.87	0.83	790	200	180	230	0.29	81
	965	160L	22.3	88.0	88.0	0.81	0.76	730	175	158	220	0.54	95
15	2910	160MB	26.6	90.5	90.5	0.90	0.89	820	200	170	230	0.20	78
	1455	160L	27.9	90.5	90.5	0.86	0.81	780	200	180	220	0.34	95
18.5	2915	160L	32.6	91.0	91.0	0.90	0.89	775	200	170	230	0.24	95

0312

TEFC, CLASS F, 40. AMBIENT TEMP. AS; BS DESIGN B CONTINUOUS DUTY S.F. 1.0, 380, 400, 415 50HZ

CAST IRON MOTORS TYPICAL PERFORMANCE (400 V)

kW	Full Load (RPM)	Frame No.	Current at 400V (Amps)	Efficiency		Power Factor		D.O.L. Start Current (% FLT)	D.O.L. Start Torque (% FLT)	Pull Up Torque (% FLT)	Pull Out Torque (% FLT)	Rotor Inertia GD^2 (kg,m^2)	Approx Weight (kg)
				100% Load (%)	75% Load (%)	100% Load (Cos ø)	75% Load (Cos ø)						
4	723	D160M	9.8	85.9	85.7	75.5	67.9	532	198	188	283	0.351	113
5.5	720	D160M	12.9	84.5	84.9	75.5	68.2	575	217	195	331	0.0821	113
7.5	720	D160L	17	86.1	86.9	77.3	70.3	576	216	194	340	0.1141	133
11	730	D180L	24	87.5	87.8	77.4	70.2	657	230	207	297	0.167	181
15	970	D180L	29	89.5	89.8	82.7	77.9	640	213	191	303	0.167	181
	730	D200L	32	89.1	89.2	77.8	71.2	625	186	167	298	0.325	232
18.5	1470	D180M	34	90.5	90.7	89.1	84.7	757	245	220	315	0.135	167
	975	D200L	36	89.9	90.1	84.0	78.7	651	213	191	329	0.302	232
	730	D225S	38	90.1	90.2	77.0	71.0	680	200	180	300	0.481	287
22	2940	D180M	39	90.8	90.6	90.7	88.9	752	252	226	344	0.071	167
	1470	D180L	40	91.3	91.8	88.1	84.2	674	225	202	309	0.136	181
	975	D200L	42	89.9	90.3	84.7	81.1	669	217	195	316	0.347	232
	730	D225M	44	90.6	90.7	77.0	72.2	682	213	191	301	0.531	322
30	2945	D200L	53	91.6	91.3	90.0	87.9	742	266	239	346	0.119	232
	1470	D200L	55	91.9	92.1	88.5	83.4	664	231	207	303	0.245	232
	980	D225M	55	91.7	91.8	85.2	82.6	612	235	211	284	0.525	322
	730	D250M	60	90.8	90.8	82.3	76.8	582	198	178	298	0.809	385
37	2945	D200L	64	92.0	91.3	92.0	89.8	782	248	223	298	0.809	232
	1475	D225S	66	92.4	92.5	87.5	84.9	658	221	198	306	0.39	287
	980	D250M	68	91.5	91.4	86.8	83.1	688	212	190	323	0.807	385
	735	D280S	74	91.5	91.5	79.0	71.0	660	200	180	240	1.381	510
45	2950	D225M	77	92.5	92.4	89.8	87.8	788	275	247	369	0.221	322
	1475	D225M	80	92.5	92.5	88.8	86.2	743	209	188	314	0.45	322
	980	D280S	82	92.5	92.3	86.0	83.0	700	230	207	270	1.334	510
	735	D280M	90	92.0	91.8	79.0	71.0	660	200	180	240	1.721	600
55	2965	D250M	95	93.0	92.1	89.2	86.3	770	195	175	368	0.305	385
	1475	D250M	98	93.0	92.8	88.9	86.0	685	223	200	316	0.64	385
	980	D280M	100	92.8	92.5	86.0	83.0	700	230	207	270	1.598	600
75	2965	D280S	127	93.6	93.0	91.0	89.0	780	220	200	250	0.584	510
	1485	D280S	133	93.8	93.5	87.0	85.0	750	220	200	240	1.045	510
90	2965	D280M	152	93.9	93.3	91.0	89.0	780	220	200	250	0.665	600
	1485	D280M	159	94.2	93.9	87.0	85.0	750	220	200	240	1.396	600

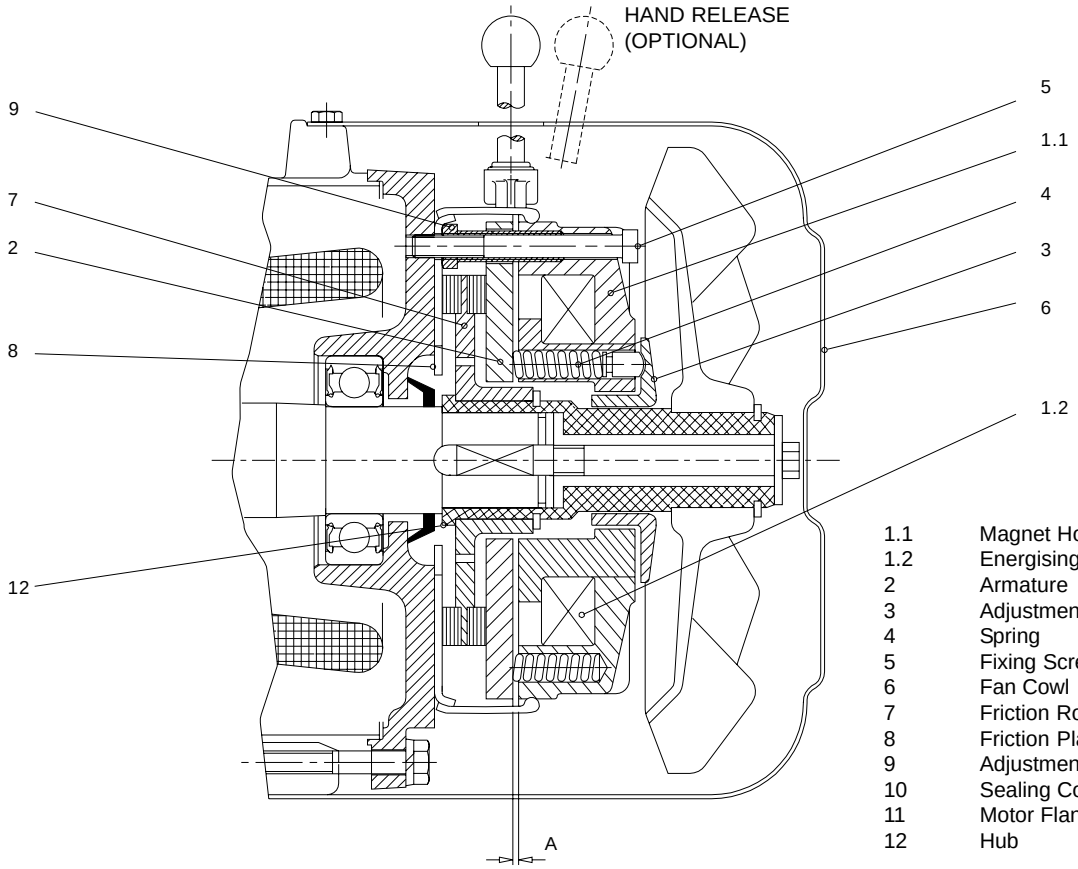
NOTE. 1. The above are typical values based on test.

2. Actual load & full voltage starting, According to BS 4999, AS 1359.

3. Tolerance according to BS4999, AS1359.

4. Efficiency, power factor, speed and torque are the same for other voltages. Current values vary inversely with voltage.

5. Data subject to change without notice.



1.1	Magnet Housing
1.2	Energising Coil
2	Armature
3	Adjustment Ring
4	Spring
5	Fixing Screws
6	Fan Cowl
7	Friction Rotor
8	Friction Plate
9	Adjustment Sleeves
10	Sealing Cover (optional)
11	Motor Flange
12	Hub

BRAKE MOTORS

Construction and Operating Principle

The magnet housing (1.1) of the spring applied brake contains the permanently fitted energising coil (1.2) with its supply lead protruding from the brake periphery. In the adjustment ring (3) are fitted the pressure springs (4), which push the friction rotor (7) via the armature (2) against the static friction plate (8) and thus against the motor flange (11). The braking effect is achieved thereby. The air gap 'A' is adapted by means of sleeves (9). The air gap 'A' cannot be re-adjusted. It is recommended to replace the friction rotor (7) when it is worn (end of wear). The friction rotor (7) has a star shaped bore (size 10,11 and 14) or a square bore (size 08, 13, 16 and 19) and can thus be glided axially on the hub (12). When applying a DC current to the energising coil (1.2), a magnetic force is induced, compensating the effect of the spring. lifting the armature (2) and thereby releasing the brake. No axial load is applied by the brake to the shaft that is to be decelerated

Condition upon Delivery

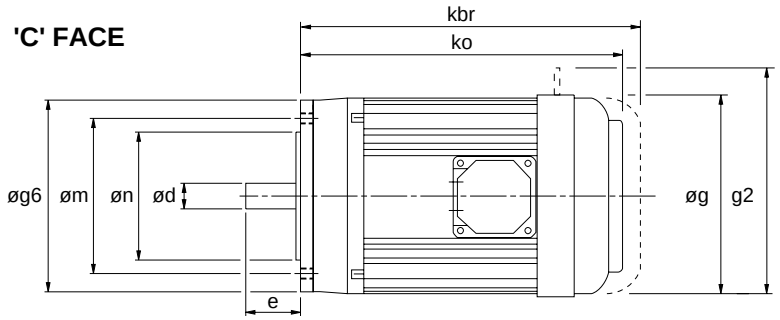
The brake motor is supplied ready for use, ie the air gap 'A' is pre-set to the specified value at the factory by means of the sleeves (9). The required nominal torque M_2 is also adjusted at the factory.

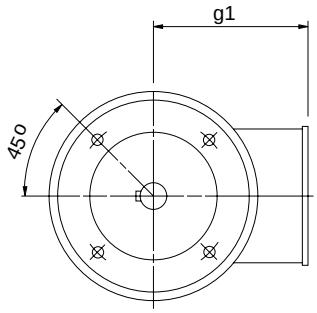
MOTOR FRAME SIZE	63	71	80	90	100	112	132S	132M	160
BRAKE SIZE	08	08	10	11	13	14	14	16	19
BRAKE TORQUE (M_2) Nm	2.5	5	10	20	40	65	65	100	170
COUPLING TIME (t_1) Ms	18	18	20	30	45	86	86	90	130

For larger frame sizes standard proprietary brake motors are available. For details contact Textron Power Transmission

0312

B14 'C' FACE

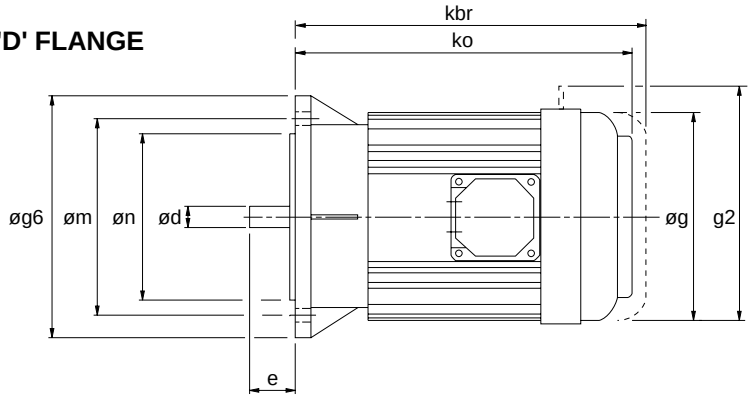


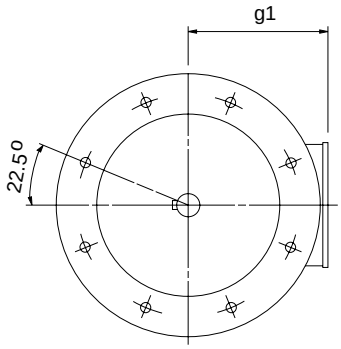


Textron Power Transmission standard motors

MOTOR FRAME SIZE	øg6	øm	øn	ød	e	ko*	kbr*	øg*	g1*	g2*	FIXING BOLTS
71	105	85	70	14	30	221	265	138	102	167	4 x M6
80A	120	100	80	19	40	239	291	157	125	190	4 x M6
80B	120	100	80	19	40	248	300	157	125	190	4 x M6
90S	140	115	95	24	50	260	312	177	133	218	4 x M8
90L	140	115	95	24	50	275	327	177	133	218	4 x M8
90LA	140	115	95	24	50	284	336	177	133	218	4 x M8
100L	160	130	110	28	60	310	370	197	144	238	4 x M8
112M	160	130	110	28	60	325	399	219	155	238	4 x M8
112MA	160	130	110	28	60	344	419	219	155	238	4 x M8
132SA	200	165	130	38	80	392	475	235	172	288	4 x M10
132M	200	165	130	38	80	412	495	235	172	288	4 x M10
132MA	200	165	130	38	80	436	519	235	172	288	4 x M10
132MB	200	165	130	38	80	472	555	235	172	288	4 x M10

B5 'D' FLANGE





Textron Power Transmission standard motors

MOTOR FRAME SIZE	øg6	øm	øn	ød	e	ko*	kbr*	øg*	g1*	g2*	FIXING BOLTS
63	140	115	95	11	23	218	263	122	96	160	4 x M8
71	160	130	110	14	30	221	265	138	102	167	4 x M8
80A	200	165	130	19	40	239	291	157	125	190	4 x M10
80B	200	165	130	19	40	248	300	157	125	190	4 x M10
90S	200	165	130	24	50	260	312	177	133	218	4 x M10
90L	200	165	130	24	50	275	327	177	133	218	4 x M10
90LA	200	165	130	24	50	284	336	177	133	218	4 x M10
100L	250	215	180	28	60	310	370	197	144	238	4 x M12
112M	250	215	180	28	60	325	399	219	155	238	4 x M12
112MA	250	215	180	28	60	344	419	219	155	238	4 x M12
132SA	300	265	230	38	80	392	475	235	172	288	4 x M12
132M	300	265	230	38	80	412	495	235	172	288	4 x M12
132MA	300	265	230	38	80	436	519	235	172	288	4 x M12
132MB	300	265	230	38	80	472	555	235	172	288	4 x M12
160M	350	300	250	42	110	455	538	273	282	323	4 x M16
160L	350	300	250	42	110	500	583	273	282	323	4 x M16
180M	350	300	250	48	110	557	-	382	307	-	4 x M16
180L	350	300	250	48	110	595	-	382	307	-	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 TPT 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 our Application Engineers 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
- IP55

ADDITIONAL GEARBOX FEATURES - COLUMN 20 ENTRY

Column 20 Entry	Double Oil Seals	Oil Level Glass	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)

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

0401

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 Size
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

0401

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 Size
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 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

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 Size
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

0401

0.12kW

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 Size
11	82.83	82	2.28	5290	8 0 .		
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

0401

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 Size
0.23	3760.71	3866	0.85	41545	3 6 C		
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

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 Size
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

0401

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

0401

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 Size
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

0401

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 Size
1.6	580.00	700	1.09	11515	5 6 0		
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

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

0401

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 Size
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

0401

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 Size
0.91	1532.14	2085	1.57	41545	1 6 C		
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

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 Size
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 00		
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 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

0401

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 Size
5.6	160.26	320	1.22	5904	1 6 0		
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

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

0401

0.37kW

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 Size
36	39.26	68	1.60	2826	4 0 .		
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 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

0401

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 Size
1.6	899.27	1842	1.47	41656	9 0 0		
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

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 Size
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		

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

0401

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 Size
3.8	240.00	585	0.82	7390	2 5 0		
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

0401

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

0401

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 Size
6.8	208.65	612	1.96	29200	2 1 2		
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	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 Size
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 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

0401

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 Size
23	40.74	166	2.53	7434	4 0 .		
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

0401

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 Size
1.5	626.07	2997	2.83	87299	6 3 0		
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

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 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	1.20	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

0401

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 Size
9	156.67	560	1.37	11600	1 6 0		
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		

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 Size
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 .		

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

0401

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 Size
48	19.12	118	0.91	2798	1 8 .		
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		
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		

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

0401

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 Size
4.5	204.75	1270	2.07	41832	2 1 2		
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

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 Size
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		
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 .		

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

0401

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 Size
15	91.58	503	1.52	11644	9 0 .		
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		
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		

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

0401

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 Size
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		
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

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

0401

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 Size
5.7	161.44	1474	3.78	53741	1 6 0		
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

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 Size
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 .		
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

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

0401

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 Size
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	6 3 .		
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		
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 .		

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

0401

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 Size
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 .		

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 Size
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		
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		

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

0401

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 Size
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

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 Size
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		
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		

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

0401

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 Size
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

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 Size
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 .		
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 .		

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

0401

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 Size
35	27.03	513	1.75	29165	2 8 .		
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		

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 Size
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 .		

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

0401

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 Size
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	4 0 .		
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		
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		

3.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
116	8.23	221	1.99	11846	C 0 6 2 1 8 . 0 _ M _ - _ _ 3 . 0 C - -	82	132SA
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 .		

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

0401

3.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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	132SA
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	132SA
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	132SA
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	132SA
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	132SA
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		
5.9	160.55	4062	2.09	87299	C 1 0 4 1 1 6 0 _ M _ - _ _ 3 . 0 C - -	378	132SA
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		

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

0401

4.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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		
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		

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

0401

4.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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		

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 Size
175	8.23	270	1.38	11786	C 0 6 2 1 8 . 0 _ M _ - _ _ 5 . 5 A - -	82	132SA
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 .		

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

0401

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 Size
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	132SA
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	132SA
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	132SA
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	132SA
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	132SA
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	132SA
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		

5.5 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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 .		

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

0401

5.5 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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

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 Size
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 .		
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 .		

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

0401

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 Size
14	103.53	4304	1.13	53347	1 0 0		
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 Size
122	7.90	540	1.14	23015	C 0 7 2 1 8 . 0 _ M _ - _ _ 7 . 5 C - -	159	160MA
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	160MA
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	160MA
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	160MA
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

0401

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 Size
9.5	101.47	6405	1.22	87273	1 0 0		
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	160MA

11.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
184	7.90	526	1.17	21137	C 0 7 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	159	160MA
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	160MA
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	160MA
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	160MA
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	160MA

11.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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 .		

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

0401

11.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
71	13.61	1353	1.23	32600	1 4 .		
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	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 Size
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 Other output speeds are available using 2 and 8 pole motors - Please contact our Application Engineers

0401

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 Size
39	37.38	3294	1.84	77673	3 6 .		
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

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 Size
122	7.97	1095	2.29	46400	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 5 . C - -	365	D180L
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	D180L
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

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 Size
184	7.97	895	2.37	43286	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . A - -	351	D180M
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	D180M
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

0401

18.5 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
34	43.65	4790	1.49	75342	4 5 .		
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

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 Size
122	7.97	1344	1.87	45560	C 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . C - -	423	D200L
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	D200L
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	43.65	7154	1.14	80500	4 5 .		
20	48.51	7934	1.05	81700	5 0 .		

22.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
184	7.97	1064	1.99	42720	C 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . A - -	365	D180L
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	D180L
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 .		

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

0401

22.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
122	7.97	1599	1.57	44720	C 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . C - -	423	D200L
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	D200L
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 .		

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 Size
184	7.97	1452	1.46	41426	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . A - -	423	D200L
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	D200L
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 .		
34	43.65	7767	0.92	67400	4 5 .		
30	48.51	8605	0.84	68000	5 0 .		

30.0 kW

6 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	Motor Size
123	7.97	2169	1.16	42800	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . C - -	513	D225M
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	D225M
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 .		

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

0401

37.0 kW

4 POLE

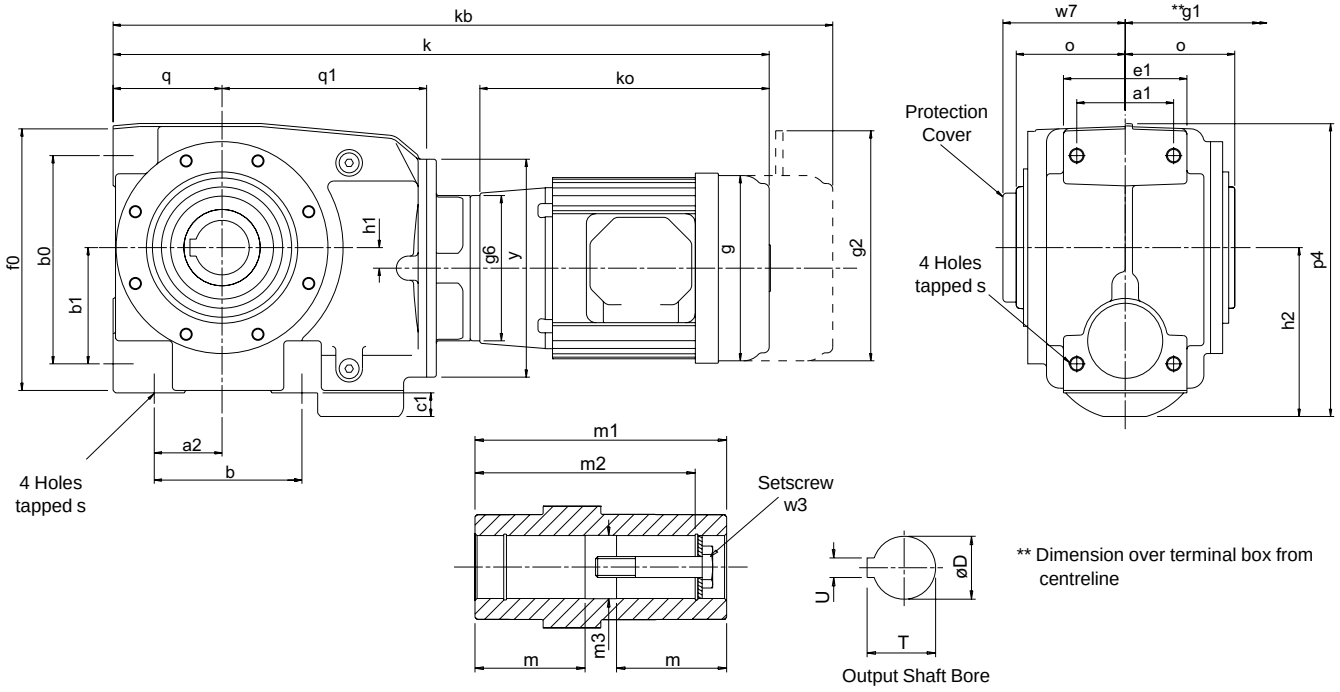
N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
185	7.97	1784	1.19	40294	C 0 9 2 1 8 . 0 _ M _ - _ _ 3 7 . A - -	478	D225S
134	10.98	2451	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	D225S
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 .		

45.0 kW

4 POLE

N2 R/MIN	i	M2 Nm	Fm	N	Unit Designation	Kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry [1] Through [20] Spaces to be filled when entering order	Weight of base mount unit	Motor Size
185	7.97	2170	0.98	39000	C 0 9 2 1 8 . 0 _ M _ - _ _ 4 5 . A - -	513	D225M
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	D225M
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 .		

0312



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

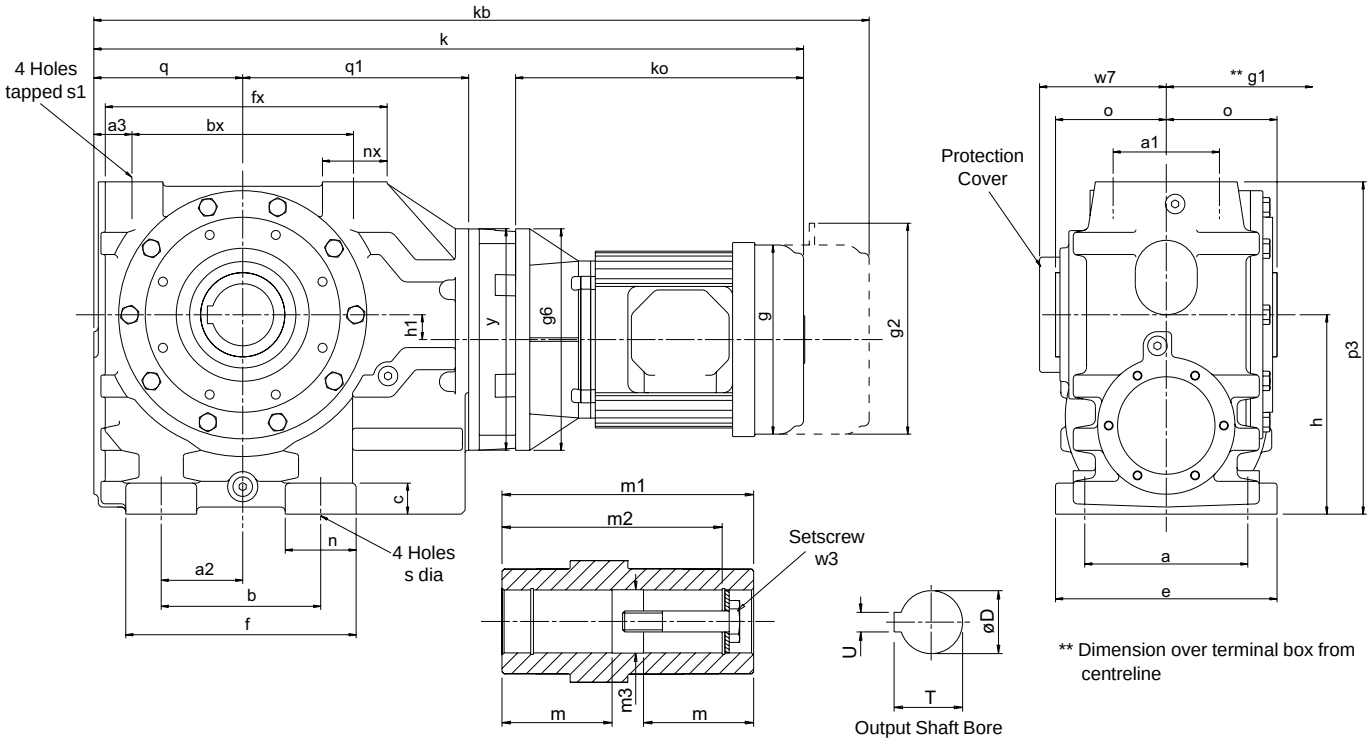
	All Sizes of IEC Motor					C0321		C0421		C0521		C0621	
	ko	g	g1**	g2	g6	K*	Kb*	K*	Kb*	K*	Kb*	K*	Kb*
63	218	122	96	160	140	415	460	435	480	454	499	489	534
71	221	138	102	167	160	422	466	442	486	461	505	498	542
80A	239	157	125	190	200	453	505	473	525	492	544	534	586
80B	248	157	125	190	200	462	514	482	534	501	553	543	595
90S	260	177	133	218	200	484	536	504	556	523	575	565	617
90L	275	177	133	218	200	499	551	519	571	538	590	580	632
90LA	284	177	133	218	200	508	560	528	580	547	599	589	641
100L	310	197	144	238	250	523	583	543	603	562	622	642	702
112M	325	219	155	238	250	538	612	558	632	577	651	657	731
112MA	344	219	155	238	250	557	632	577	652	596	671	676	751
132SA	392	235	172	288	300							723	806
132M	412	235	172	288	300							743	826
132MA	436	235	172	288	300							767	850
132MB	472	235	172	288	300							803	886

*Motor Lengths for TPT standard motors, These lengths may vary if alternative motor is fitted.

**Dimension over terminal box from centreline

DIMENSIONS
DOUBLE REDUCTION

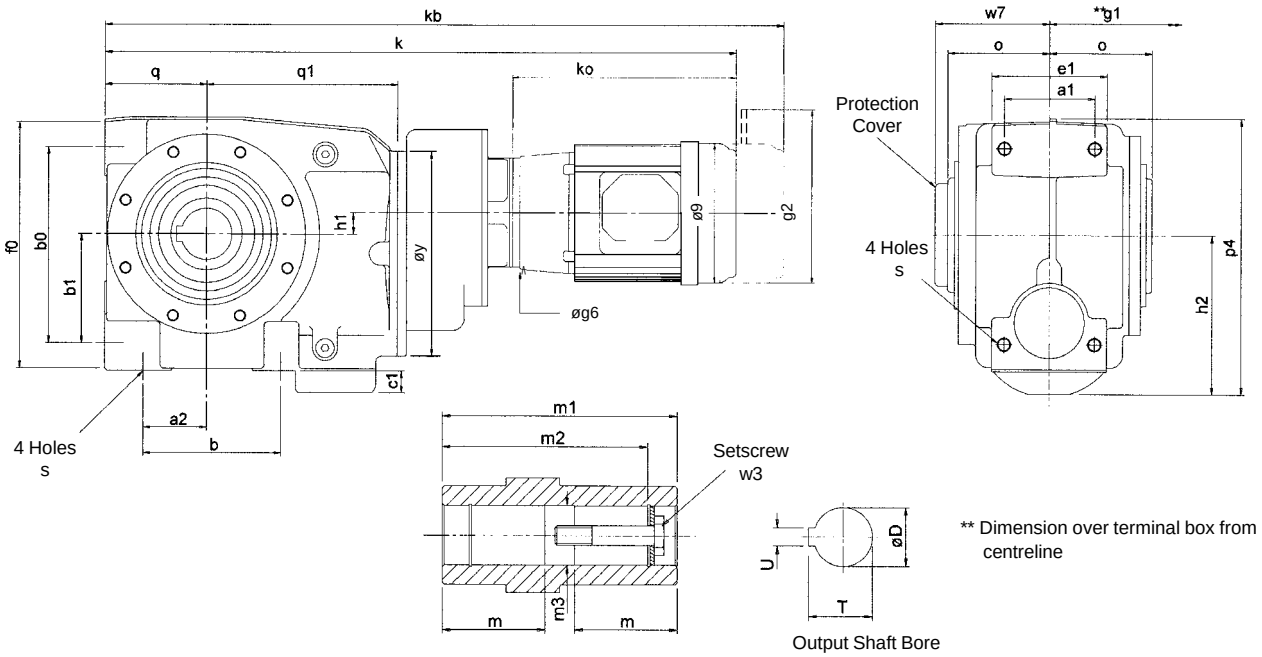
0312



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

	All Sizes of IEC Motor					C0721		C0821		C0921		C1021	
	ko	g	g1**	g2	g6	K*	Kb*	K*	Kb*	K*	Kb*	K*	Kb*
80A	239	157	125	190	200	639	691	709	761	792	844		
80B	248	157	125	190	200	648	700	718	770	801	853		
90S	260	177	133	218	200	670	722	730	782	813	865		
90L	275	177	133	218	200	685	737	745	797	828	880		
90LA	284	177	133	218	200	694	746	754	806	837	889		
100L	310	197	144	238	250	731	791	786	846	869	929	947	1007
112M	325	219	155	238	250	746	820	801	875	884	958	962	1036
112MA	344	219	155	238	250	765	840	820	895	903	978	981	1056
132SA	392	235	172	288	300	836	919	868	951	951	1034	1029	1112
132M	412	235	172	288	300	856	939	888	971	971	1054	1049	1132
132MA	436	235	172	288	300	880	963	912	995	995	1078	1073	1156
132MB	472	235	172	288	300	916	999	948	1031	1031	1114	1109	1192
160M	455	273	282	323	350	907	990	961	1044	1049	1132	1127	1210
160L	500	273	282	323	350	952	1035	1006	1089	1094	1177	1172	1255
180M	557	382	307	-	350					1151	-	1229	-
180L	595	382	307	-	350					1189	-	1267	-
200L	658	420	372	-	400					1252	-	1330	-
225S	671	458	427	-	450					1292	-	1370	-
225M	696	458	427	-	450					1317	-	1395	-



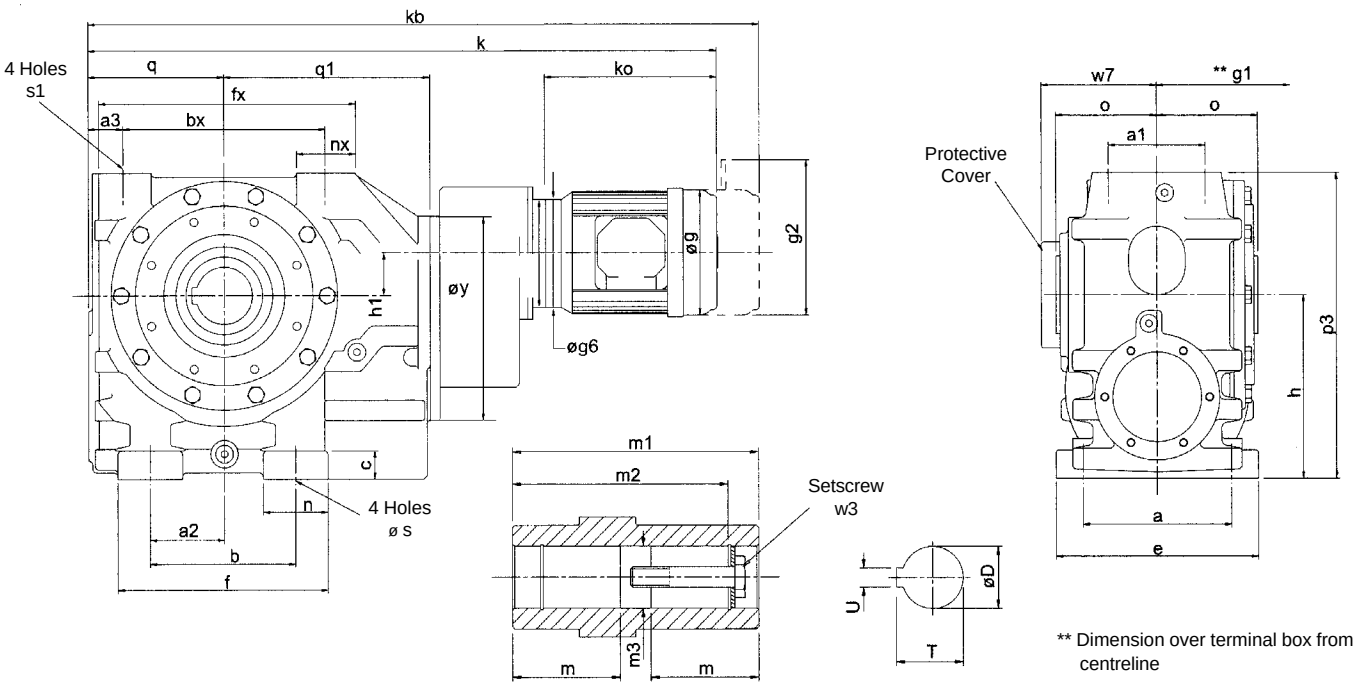
SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0331	54	35	63	80	40	9	70	139	30.75	79.5	62	148	54	109
C0431	56	35	80	118	65	7	80	158	21.2	93	65	168	64	119
C0531	68	46	100	142	77	16	86	177	23	112	70	200	68	134
C0631	80	56	122	172	96	20	102	218	30	139.5	90	243	90	169

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

*Motor Lengths for TPT standard motors, These lengths may vary if alternative motor is fitted.

**Dimension over terminal box from centreline

0312



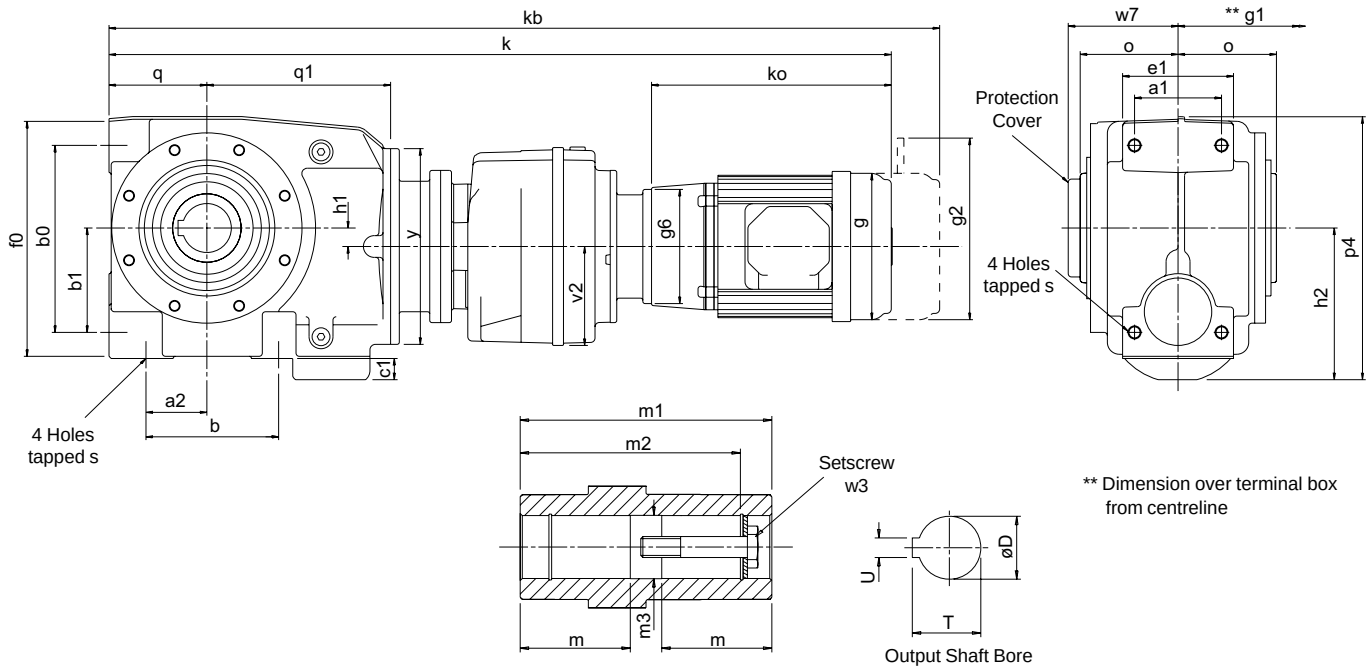
SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
C0731	150	100	75	35.5	135	215	28	185	202	280	180	34	67	63	109	302	143	220

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

	All Sizes of IEC Motor					C0331		C0431		C0531		C0631		C0731	
	ko	g	g1**	g2	g6	K*	Kb*	K*	Kb*	K*	Kb*	K*	Kb*	K*	Kb*
63	218	122	96	160	140	471	375	491	395	510	414	578	482	673	577
71	221	138	102	167	160	478	395	498	415	517	434	585	502	682	599
80A	239	157	125	190	200	509	427	529	447	548	466	616	534	718	636
80B	248	157	125	190	200	518	427	538	447	557	466	625	534	727	636
90S	260	177	133	218	200	540	457	560	477	579	496	647	564	749	666
90L	275	177	133	218	200	555	457	575	477	594	496	662	564	764	666
90LA	284	177	133	218	200	564	457	584	477	603	496	671	564	773	666
100L	310	197	144	238	250	579	466	599	486	618	505	686	573	826	713
112M	325	219	155	238	250	594	488	614	508	633	527	701	595	841	735
112MA	344	219	155	238	250	613	488	633	508	652	527	720	595	860	735
132SA	392	235	172	288	300	-	-	-	-	-	-	-	-	907	750
132M	412	235	172	288	300	-	-	-	-	-	-	-	-	927	750
132MA	436	235	172	288	300	-	-	-	-	-	-	-	-	951	750
132MB	472	235	172	288	300	-	-	-	-	-	-	-	-	987	750

*Motor Lengths for TPT standard motors, These lengths may vary if alternative motor is fitted.

**Dimension over terminal box from centreline



SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0342	54	35	63	80	40	9	70	139	5.3	79.5	62	148	54	109
C0442	56	35	80	118	65	7	80	158	15	93	65	168	64	119
C0542	68	45	100	142	77	16	86	177	13	112	70	200	68	134
C0642	80	56	122	172	96	20	102	218	17	139.5	90	243	90	169

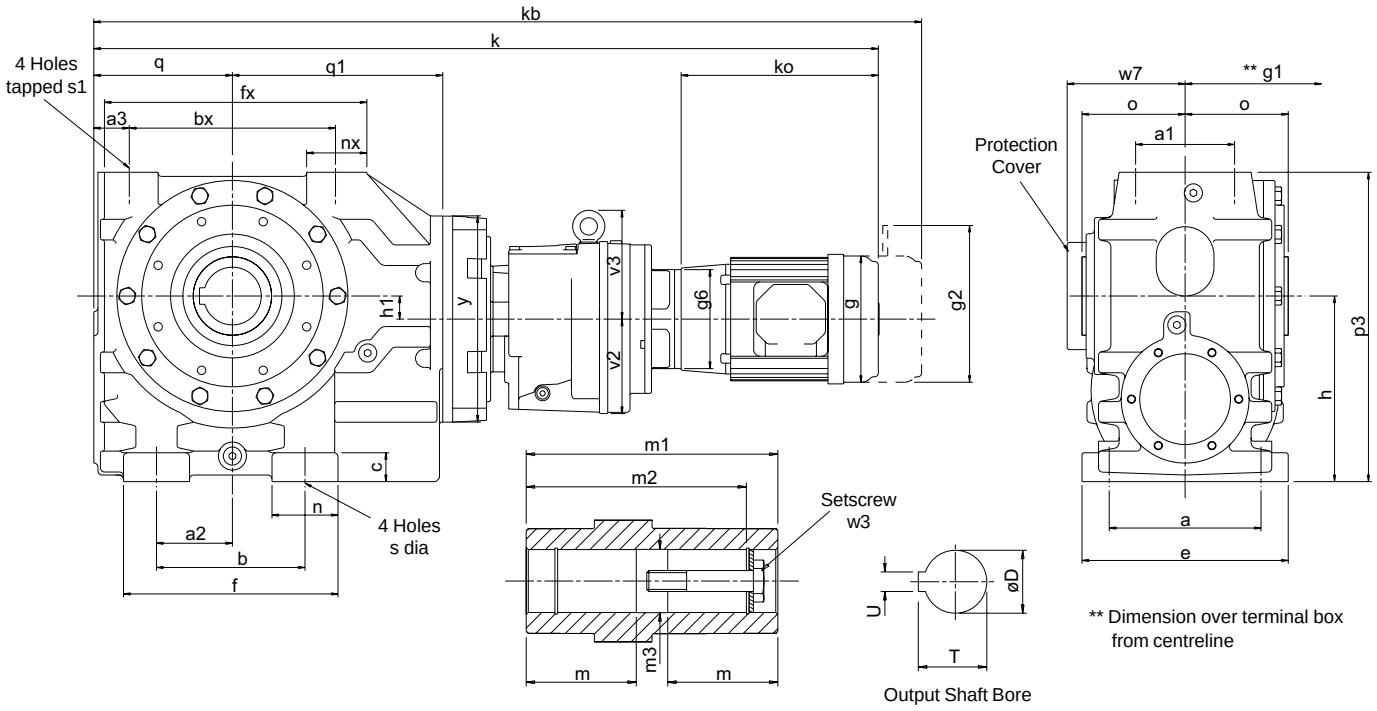
SIZE	s	v2	w7	y	Hollow Output Bore							
					D	m	m1	m2	m3	T	U	w3
C0342	M8x1.25, 15 deep	76	70	140	20	52	124	104	20.2	22.9	6	M6x1.0, 40 long
C0442	M10x1.5, 20 deep	76	74.5	140	30	54	130	122	30.2	33.5	8	M10x1.5, 50 long
C0542	M10x1.5, 18 deep	76	79	140	35	56	140	127	35.3	38.5	10	M12x1.75, 55 long
C0642	M12x1.75, 20 deep	91	101	180	45	70	180	156	45.3	49	14	M16x2.0, 70 long

Motor Frame Size	All Sizes					C0341		C0441		C0541		C0641	
	ko	g	g1**	g2	g6	k	kb	k	kb	k	kb	k	kb
63	218	122	96	160	140	601	646	621	666	640	685	713	758
71	221	138	102	167	160	608	652	628	672	647	691	720	764
80A	239	157	125	190	200	639	691	659	711	678	730	751	803
80B	248	157	125	190	200	648	700	668	720	687	739	760	812
90S	260	177	133	218	200	670	722	690	742	709	761	782	834
90L	275	177	133	218	200	685	737	705	757	724	776	797	849
90LA	284	177	133	218	200	694	746	714	766	733	785	806	858
100L	310	197	144	238	250	709	769	729	789	748	808	821	881
112M	325	219	155	238	250	724	798	744	818	763	837	836	910
112MA	344	219	155	238	250	743	818	763	838	782	857	855	930

*Motor Lengths for TPT standard motors, These lengths may vary if alternative motor is fitted.

**Dimension over terminal box from centreline

0210



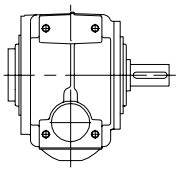
SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1		nx	o	p3	q	q1
C0742	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109	302	143	220
C0842	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125	375	168	255
C0941	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150	457	195	300
C1041	300	150	170	62.5	310	345	45	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
C0742	18	M20x2.5, 34 deep	91	-	125	212	60	79	218	188	60.5	64.6	18	M20x2.5, 80 long
C0842	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

Motor Frame Size	All Sizes					C0341		C0441		C0541		C0641	
	ko	g	g1**	g2	g6	k	kb	k	kb	k	kb	k	kb
63	218	122	96	160	140	818	863	904	949	987	1032	1100	1145
71	221	138	102	167	160	825	869	913	957	996	1040	1103	1147
80A	239	157	125	190	200	856	908	949	1001	1032	1084	1158	1210
80B	248	157	125	190	200	865	917	958	1010	1041	1093	1167	1219
90S	260	177	133	218	200	887	939	980	1032	1063	1115	1189	1241
90L	275	177	133	218	200	902	954	995	1047	1078	1130	1204	1256
90LA	284	177	133	218	200	911	963	1004	1056	1087	1139	1213	1265
100L	310	197	144	238	250	926	986	1057	1117	1140	1200	1250	1310
112M	325	219	155	238	250	941	1015	1072	1146	1155	1229	1265	1339
112MA	344	219	155	238	250	960	1035	1091	1166	1174	1249	1284	1359
132SA	392	235	172	288	300	-	-	1138	1221	1221	1304	1355	1438
132M	412	235	172	288	300	-	-	1158	1241	1241	1324	1375	1458
132MA	436	235	172	288	300	-	-	1182	1265	1265	1348	1399	1482
132MB	472	235	172	288	300	-	-	1218	1301	1301	1384	1435	1518
160M	455	273	282	323	350	-	-	-	-	-	-	1426	1509
160L	500	273	282	323	350	-	-	-	-	-	-	1471	1554

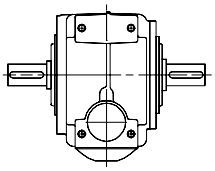
*Motor Lengths for TPT standard motors, These lengths may vary if alternative motor is fitted.

**Dimension over terminal box from centreline



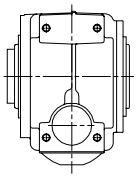
Single Extended Outputshaft

See Page 90



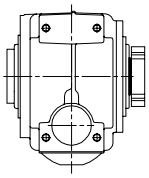
Double Extended Outputshaft

See Page 90



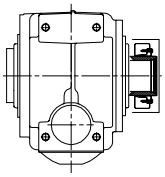
Kibo Bushes

See Pages 91 - 92



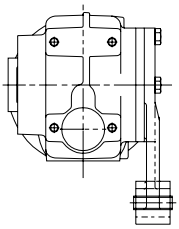
Taper Release Bushing

See Pages 94 - 95



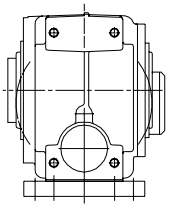
Shrink Disc

See Page 93



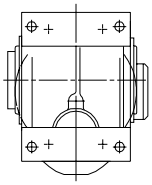
Torque Bracket

See Page 96



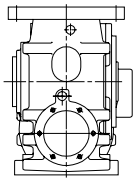
Base Mounted Feet

See Page 85



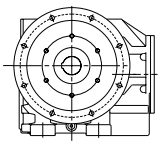
End Mounted Feet

See Page 85 & 86



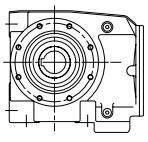
Top Mounted Feet

See Page 86



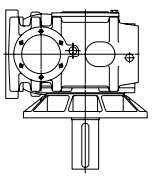
B5 (D) Flange Mounting

See Page 97



B14 (C) Flange Mounting

See Page 98



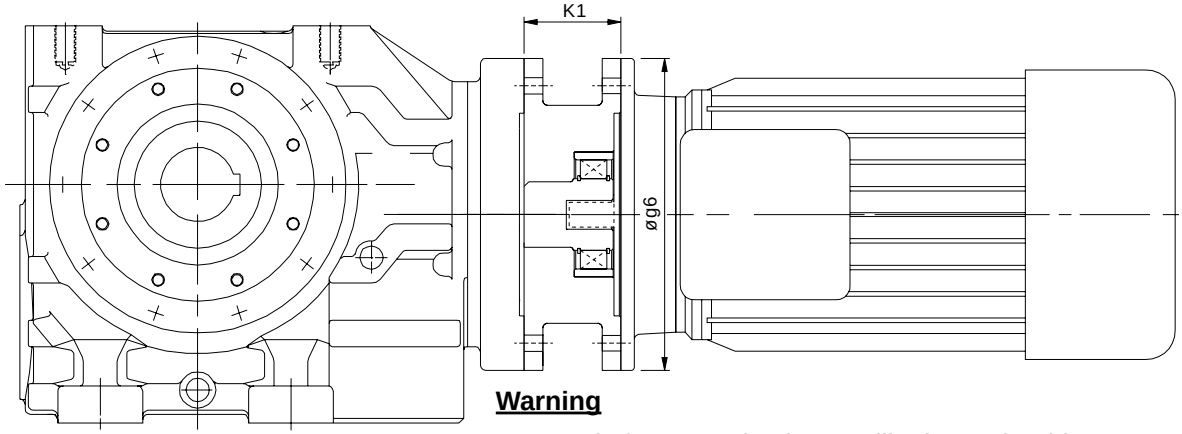
Agitator Units

See Page 99

0203

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

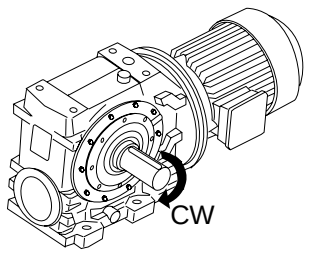
NEMA C FLANGE

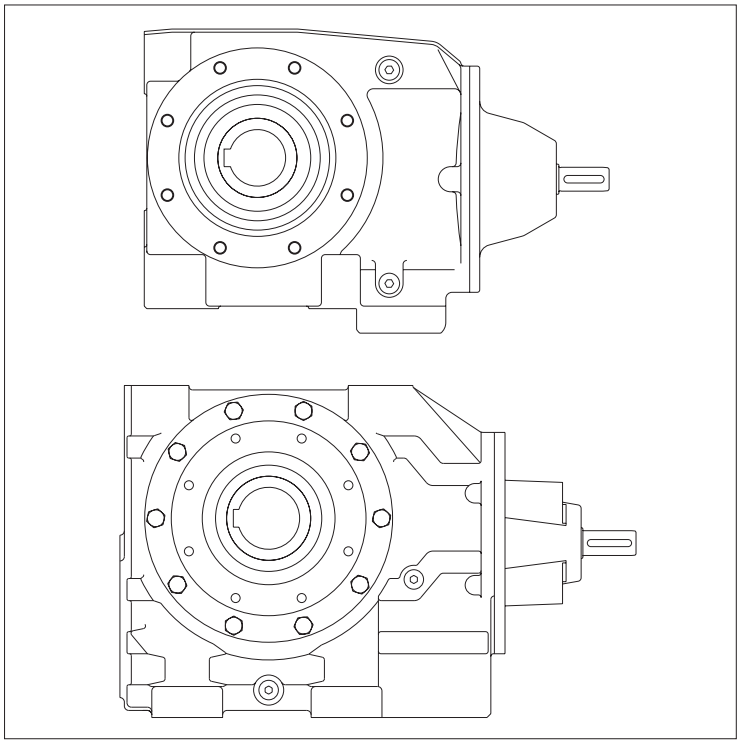
Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	øg6	K1
182TC / 184TC	670	300	228	95.25
213TC / 215TC	670	300	228	95.25
254TC / 256TC	620	940	228	120.65
284TC / 286TC	620	940	280	136.50
324TC / 326TC	550	1260	330	152.40

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 25 for column 20 entry

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





REDUCER

SERIES C

NOTES

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)

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

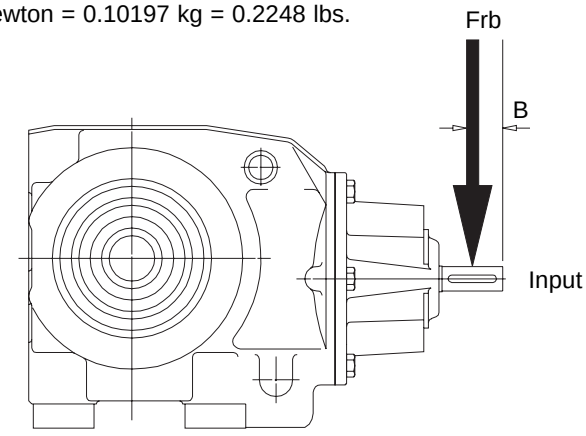
where

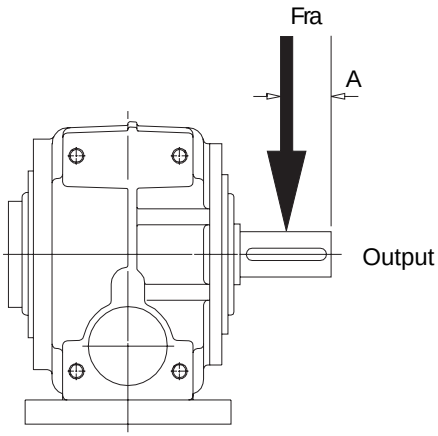
P	=	equivalent overhung load (Newtons)
kW	=	power transmitted by the shaft (kilowatts)
N	=	speed of shaft (rpm)
R	=	pitch radius of sprocket, etc. (mm)
K	=	factor

Note: 1 Newton = 0.10197 kg = 0.2248 lbs.

Overhung member	K (factor)
Chain sprocket*	1.00
Spur or helical pinion	1.25
Vee belt sheave	1.50
Flat belt pulley	2.00

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





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

Axial Thrust Capacities (Newtons)

Permissible axial thrust capacities vary according to the direction of rotation and the direction of thrust, towards or away from the unit. The values tabulated are for the most unfavourable direction and hence can sometimes be increased. Similarly they can sometimes be increased if the power transmitted is less than the rated capacity of the gear unit.

Thrust capacities tabulated refer to outputshafts, and are calculated without any overhung loads being applied. In cases where combined axial thrusts and overhung loads are to be applied, refer to our Application Engineers.

Inputshaft Overhung Loads, Frb (Kn) 1450 rpm

Two 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 26 to 61 and pages 72 to 80.

Axial Thrust Capacities (Newtons)

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

DOUBLE REDUCTION RATINGS
SIZES C03 - C04

0401

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)
8 . 0	2900	337	8.591	66	84	2.8	2.78	337	8.591	110	86	4.53	5.27
	1450	168		80	83	1.72	2.78	168		137	85	2.84	5.27
	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
1 1 .	2900	249	11.61	74	84	2.33	2.78	249	11.61	125	86	3.81	5.27
	1450	124		87	83	1.39	2.78	124		149	84	2.31	5.27
	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
1 2 .	2900	219	13.2	77	84	2.12	2.78	219	13.2	131	86	3.52	5.27
	1450	109		90	82	1.27	2.78	109		154	84	2.11	5.27
	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
1 4 .	2900	193	14.95	79	83	1.95	2.78	193	14.95	136	85	3.24	5.27
	1450	96		93	82	1.16	2.78	96		159	83	1.94	5.27
	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
1 6 .	2900	177	16.36	69	74	1.76	2.78	177	16.36	114	77	2.76	5.27
	1450	88		87	73	1.11	2.78	88		144	75	1.78	5.27
	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
1 8 .	2900	151	19.12	84	83	1.63	2.78	151	19.12	145	85	2.72	5.27
	1450	75		99	81	0.973	2.78	75		168	82	1.62	5.27
	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
2 0 .	2900	140	20.61	86	83	1.55	2.78	140	20.61	148	84	2.59	5.27
	1450	70		101	81	0.923	2.78	70		171	82	1.54	5.27
	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
2 2 .	2900	131	22.11	79	74	1.48	2.78	131	22.11	129	76	2.32	5.27
	1450	65		94	72	0.908	2.78	65		156	74	1.45	5.27
	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
2 5 .	2900	115	25.14	82	73	1.37	2.78	115	25.14	135	76	2.15	5.27
	1450	57		97	71	0.831	2.78	57		161	73	1.33	5.27
	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
2 8 .	2900	101	28.48	85	73	1.26	2.78	101	28.48	142	75	2.01	5.27
	1450	50		101	70	0.765	2.78	50		167	72	1.23	5.27
	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
3 2 .	2900	86	33.71	98	81	1.09	2.78	86	33.71	167	83	1.82	5.27
	1450	43		113	79	0.644	2.78	43		192	80	1.08	5.27
	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
3 6 .	2900	79	36.43	91	72	1.06	2.78	79	36.43	152	75	1.7	5.27
	1450	39		107	69	0.645	2.78	39		176	71	1.03	5.27
	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
4 0 .	2900	73	39.26	93	72	1.01	2.78	73	39.26	155	74	1.62	5.27
	1450	36		110	69	0.614	2.78	36		179	71	0.979	5.27
	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
4 5 .	2900	63	45.5	105	80	0.877	2.78	63	45.5	179	82	1.46	5.27
	1450	31		122	79	0.518	2.78	31		206	79	0.867	5.27
	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

0401

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)
5 0 .	2900	54	53.31	109	80	0.78	2.78	54	53.31	185	81	1.3	5.27
	1450	27		127	78	0.464	2.78	27		209	79	0.756	5.27
	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
5 6 .	2900	51	56.19	104	70	0.798	2.78	51	56.19	171	72	1.28	5.27
	1450	25		120	68	0.479	2.78	25		196	69	0.766	5.27
	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
6 3 .	2900	45	64.21	107	70	0.726	2.78	45	64.21	176	72	1.16	5.27
	1450	22		124	67	0.437	2.78	22		202	68	0.699	5.27
	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
7 1 .	2900	38	74.55	124	78	0.644	2.78	38	74.55	211	80	1.08	5.27
	1450	19		143	76	0.381	2.78	19		206	77	0.542	5.27
	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
8 0 .	2900	35	82.83	127	78	0.595	2.78	35	82.83	197	79	0.911	5.27
	1450	17		147	76	0.353	2.78	17		192	77	0.456	5.27
	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
9 0 .	2900	33	86.67	121	69	0.618	2.78	33	86.67	199	70	0.994	5.27
	1450	16		139	66	0.37	2.78	16		227	67	0.592	5.27
	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
1 0 0	2900	28	101.5	124	68	0.547	2.78	28	101.5	204	69	0.879	5.27
	1450	14		143	65	0.329	2.78	14		234	66	0.528	5.27
	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
1 1 2	2900	25	114.3	132	77	0.456	2.78	25	114.3	134	78	0.456	5.27
	1450	12		129	75	0.228	2.78	12		130	76	0.228	5.27
	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
1 2 5	2900	22	129.9	130	77	0.395	2.78	22	129.9	131	78	0.395	5.27
	1450	11		127	75	0.197	2.78	11		128	76	0.197	5.27
	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
1 4 0	2900	20	142	133	66	0.431	2.78	20	142	218	68	0.69	5.27
	1450	10		149	63	0.251	2.78	10		252	65	0.416	5.27
	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
1 6 0	2900	18	157.8	136	66	0.399	2.78	18	157.8	223	67	0.639	5.27
	1450	9		149	63	0.228	2.78	9		257	64	0.385	5.27
	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
2 1 2	2900	13	217.8	146	65	0.315	2.78	13	217.8	214	65	0.456	5.27
	1450	6		149	62	0.168	2.78	6		206	63	0.228	5.27
	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
2 5 0	2900	11	247.5	149	64	0.287	2.78	11	247.5	209	65	0.395	5.27
	1450	5		149	61	0.149	2.78	5		201	63	0.197	5.27
	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

DOUBLE REDUCTION RATINGS
SIZES C05 - C06

0401

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)
8 . 0	2900	348	8.312	154	88	6.42	7.41	352	8.232	273	89	11.3	11.4
	1450	174		209	87	4.39	7.41	176		372	90	7.62	11.4
	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
1 1 .	2900	248	11.66	179	87	5.35	7.41	250	11.57	319	90	9.34	11.4
	1450	124		238	86	3.62	7.41	125		427	89	6.26	11.4
	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
1 2 .	2900	225	12.85	187	87	5.08	7.41	223	12.97	336	90	8.76	11.4
	1450	112		247	85	3.42	7.41	111		446	89	5.85	11.4
	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
1 4 .	2900	198	14.59	197	87	4.74	7.41	199	14.56	353	90	8.21	11.4
	1450	99		259	85	3.17	7.41	99		466	89	5.46	11.4
	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
1 6 .	2900	180	16.09	250	81	5.84	7.41	182	15.93	389	82	9.06	11.4
	1450	90		320	78	3.86	7.41	91		517	82	6.03	11.4
	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
1 8 .	2900	156	18.53	218	86	4.14	7.41	156	18.49	390	89	7.17	11.4
	1450	78		282	84	2.74	7.41	78		508	88	4.72	11.4
	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
2 0 .	2900	137	21.05	229	86	3.85	7.41	138	20.96	410	89	6.66	11.4
	1450	68		295	84	2.54	7.41	69		531	88	4.37	11.4
	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
2 2 .	2900	128	22.56	287	79	4.86	7.41	129	22.4	450	82	7.44	11.4
	1450	64		345	77	3.03	7.41	64		579	81	4.87	11.4
	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
2 5 .	2900	116	24.86	298	79	4.6	7.41	115	25.11	471	82	6.97	11.4
	1450	58		352	76	2.83	7.41	57		594	80	4.49	11.4
	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
2 8 .	2900	102	28.24	311	79	4.25	7.41	102	28.18	493	81	6.52	11.4
	1450	51		362	75	2.59	7.41	51		611	80	4.13	11.4
	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
3 2 .	2900	89	32.55	270	85	2.98	7.41	86	33.48	490	88	5.04	11.4
	1450	44		341	82	1.93	7.41	43		623	87	3.26	11.4
	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
3 6 .	2900	80	35.86	331	77	3.62	7.41	81	35.79	541	81	5.67	11.4
	1450	40		378	74	2.16	7.41	40		637	78	3.45	11.4
	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
4 0 .	2900	71	40.74	341	77	3.32	7.41	71	40.57	567	81	5.27	11.4
	1450	35		388	73	1.97	7.41	35		651	78	3.13	11.4
	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
4 5 .	2900	61	46.84	306	83	2.38	7.41	61	47.32	554	87	4.07	11.4
	1450	30		382	81	1.52	7.41	30		695	86	2.6	11.4
	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

0401

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)
5 0 .	2900	56	50.93	315	83	2.26	7.41	57	50.52	567	87	3.91	11.4
	1450	28		391	81	1.44	7.41	28		709	86	2.49	11.4
	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
5 6 .	2900	52	55.45	368	75	2.68	7.41	52	55.71	623	79	4.28	11.4
	1450	26		415	72	1.58	7.41	26		698	76	2.49	11.4
	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
6 3 .	2900	46	63	378	74	2.45	7.41	44	64.8	642	79	3.83	11.4
	1450	23		427	71	1.45	7.41	22		721	75	2.24	11.4
	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
7 1 .	2900	39	73.37	354	81	1.8	7.41	39	73.92	644	86	3.07	11.4
	1450	19		406	79	1.06	7.41	19		766	84	1.87	11.4
	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
8 0 .	2900	35	82.67	367	81	1.67	7.41	35	80.94	663	86	2.9	11.4
	1450	17		404	79	0.939	7.41	17		766	84	1.71	11.4
	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
9 0 .	2900	31	90.67	424	72	1.96	7.41	31	91.58	720	77	3.1	11.4
	1450	15		478	70	1.15	7.41	15		766	74	1.72	11.4
	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
1 0 0	2900	29	98.57	429	72	1.84	7.41	29	97.78	726	77	2.94	11.4
	1450	14		482	69	1.08	7.41	14		766	73	1.62	11.4
	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
1 1 2	2900	26	109.1	399	81	1.38	7.41	26	110.6	728	85	2.36	11.4
	1450	13		393	78	0.698	7.41	13		748	83	1.24	11.4
	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
1 2 5	2900	23	124	391	80	1.2	7.41	23	124	541	84	1.58	11.4
	1450	11		386	78	0.607	7.41	11		530	82	0.79	11.4
	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
1 4 0	2900	20	142	455	70	1.39	7.41	20	143.1	766	75	2.18	11.4
	1450	10		482	67	0.768	7.41	10		766	71	1.14	11.4
	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
1 6 0	2900	18	160	466	70	1.27	7.41	18	156.7	766	74	2.01	11.4
	1450	9		482	67	0.687	7.41	9		766	71	1.05	11.4
	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
2 1 2	2900	13	211.1	482	68	1.02	7.41	13	214	766	72	1.5	11.4
	1450	6		482	66	0.529	7.41	6		766	69	0.785	11.4
	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
2 5 0	2900	12	240	482	68	0.903	7.41	12	240	766	72	1.35	11.4
	1450	6		482	65	0.47	7.41	6		766	69	0.706	11.4
	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

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)
8 . 0	2900	367	7.901	468	91	19.7	0	373	7.77	828	91	35.4	0
	1450	183		618	92	12.9	20.7	186		977	92	20.7	26.3
	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
1 1 .	2900	264	10.94	546	92	16.5	0	263	11.01	978	92	29.3	0
	1450	132		734	92	11.1	22.1	131		1320	92	19.7	27.7
	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
1 2 .	2900	235	12.29	576	92	15.5	0	237	12.24	1030	92	27.7	0
	1450	117		768	92	10.3	22.7	118		1380	93	18.5	28.3
	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
1 4 .	2900	214	13.52	600	92	14.7	0	213	13.61	1080	92	26.1	0
	1450	107		796	92	9.75	23.4	106		1430	92	17.3	29.2
	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
1 6 .	2900	183	15.8	586	87	13	20.7	186	15.54	1040	87	23.3	24.0
	1450	91		716	88	7.81	25.5	93		1390	89	15.2	31.6
	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
1 8 .	2900	164	17.66	673	92	12.6	26.9	164	17.6	1200	92	22.5	25.0
	1450	82		879	91	8.29	26.9	82		1580	92	14.8	31.3
	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
2 0 .	2900	144	20.07	709	92	11.7	26.9	146	19.76	1260	92	21.1	25.5
	1450	72		921	91	7.66	26.9	73		1650	92	13.8	32.4
	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
2 2 .	2900	132	21.89	648	87	10.3	26.9	131	22.03	1210	88	18.9	26.0
	1450	66		781	88	6.19	26.9	65		1580	89	12.3	34.5
	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
2 5 .	2900	117	24.59	669	87	9.45	26.9	118	24.47	1260	88	17.8	26.6
	1450	58		803	87	5.69	26.9	59		1650	88	11.6	35.1
	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
2 8 .	2900	107	27.03	685	87	8.81	26.9	106	27.22	1320	88	16.7	27.2
	1450	53		822	87	5.3	26.9	53		1700	88	10.8	35.8
	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
3 2 .	2900	94	30.81	836	91	9.04	26.9	91	31.78	1520	91	15.9	27.9
	1450	47		1070	90	5.87	26.9	45		1950	90	10.3	35.6
	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
3 6 .	2900	82	35.31	738	87	7.28	26.9	82	35.2	1450	87	14.3	28.4
	1450	41		872	86	4.35	26.9	41		1800	87	8.88	38.8
	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
4 0 .	2900	72	40.15	764	87	6.64	26.9	73	39.51	1520	88	13.3	29.5
	1450	36		895	86	3.95	26.9	36		1840	87	8.14	40.2
	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
4 5 .	2900	65	44.13	953	90	7.26	26.9	66	43.64	1710	91	13.1	31.4
	1450	32		1200	89	4.66	26.9	33		2170	90	8.43	39
	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

0401

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)
5 0 .	2900	58	49.9	995	90	6.73	26.9	58	49.26	1780	91	12.1	32.2
	1450	29		1250	88	4.3	26.9	29		2250	89	7.79	40.5
	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
5 6 .	2900	54	53.62	820	86	5.37	26.9	53	54.6	1700	88	10.8	32.6
	1450	27		946	85	3.16	26.9	26		1960	86	6.35	41.7
	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
6 3 .	2900	47	61.62	847	86	4.85	26.9	45	63.56	1760	87	9.65	33.4
	1450	23		970	84	2.84	26.9	22		2010	85	5.64	41.7
	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
7 1 .	2900	42	69	1110	89	5.49	26.9	41	69.64	2010	90	9.79	34.5
	1450	21		1340	87	3.38	26.9	20		2490	88	6.18	41.7
	960	13		1340	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
8 0 .	2900	38	75.56	1140	88	5.18	26.9	37	76.5	2080	89	9.23	35.6
	1450	19		1340	87	3.1	26.9	18		2560	88	5.79	41.7
	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
9 0 .	2900	32	88.26	912	85	3.7	26.9	33	87.29	1880	86	7.59	36.4
	1450	16		1030	83	2.13	26.9	16		2120	84	4.39	41.7
	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
1 0 0	2900	29	99.79	934	84	3.37	26.9	29	98.53	1920	86	6.92	41.7
	1450	14		1050	82	1.94	26.9	14		2160	83	3.99	41.7
	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
1 1 2	2900	27	104.3	1260	87	4.2	26.9	28	102.4	2280	89	7.63	41.7
	1450	13		1340	86	2.27	26.9	14		2760	87	4.71	41.7
	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
1 2 5	2900	25	115.9	1160	87	3.49	26.9	24	117.9	2380	88	6.97	41.7
	1450	12		1140	85	1.75	26.9	12		2850	86	4.26	41.7
	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
1 4 0	2900	21	138	989	83	2.61	26.9	20	139.3	2040	84	5.28	41.7
	1450	10		1120	81	1.52	26.9	10		2310	82	3.07	41.7
	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
1 6 0	2900	19	151.1	1000	83	2.43	26.9	18	153	2080	84	4.91	41.7
	1450	9		1140	81	1.41	26.9	9		2350	82	2.85	41.7
	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
2 1 2	2900	13	208.6	1060	82	1.89	26.9	14	204.8	2180	83	3.9	41.7
	1450	6		1200	79	1.1	26.9	7		2470	81	2.27	41.7
	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
2 5 0	2900	12	231.8	1080	81	1.75	26.9	12	235.8	2240	82	3.51	41..7
	1450	6		1220	79	1.01	26.9	6		2530	80	2.03	41.7
	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

DOUBLE REDUCTION RATINGS
SIZES C09 - C10

0401

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)
8 . 0	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
	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
1 1 .	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
	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
1 2 .	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
	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
1 4 .	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
	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
1 6 .	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
	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
1 8 .	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
	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
2 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
	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
2 2 .	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
	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
2 5 .	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
	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
2 8 .	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
	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
3 2 .	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
	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
3 6 .	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
	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
4 0 .	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
	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
4 5 .	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
	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	87.2

DOUBLE REDUCTION RATINGS
SIZES C09 - C10

0401

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)
5 0 .	2900	58	49.49	3300	92	22.1	53.2	59	48.51	5800	92	39.3	60.0
	1450	29		4090	90	13.9	53.2	29		7390	91	25.4	71.5
	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
5 6 .	2900	50	57.66	3180	88	19.1	53.2	49	58.85	5740	89	33.1	62.0
	1450	25		4060	86	12.4	53.2	24		6620	88	19.4	83.4
	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
6 3 .	2900	44	65.74	3340	88	17.6	53.2	43	66.62	5910	89	30.2	63.0
	1450	22		4240	86	11.4	53.2	21		6770	88	17.6	86.8
	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
7 1 .	2900	41	69.91	3730	91	17.8	53.2	41	69.18	6590	92	31.6	64.0
	1450	20		4260	89	10.4	53.2	20		8250	90	20.1	79.4
	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
8 0 .	2900	37	77.18	3850	91	16.7	53.2	36	79.71	6920	91	28.9	67.4
	1450	18		4300	89	9.51	53.2	18		8390	90	17.8	83.3
	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
9 0 .	2900	31	93.18	3780	87	14.2	53.2	31	91.32	6310	89	23.7	69.5
	1450	15		4710	84	9.11	53.2	15		7120	86	13.7	87.2
	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
1 0 0	2900	28	103.5	3920	86	13.4	53.2	28	101.5	6440	88	21.9	75.5
	1450	14		4850	84	8.48	53.2	14		7240	86	12.6	87.2
	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
1 1 2	2900	27	106.2	4120	89	13.2	53.2	26	107.8	7650	91	23.8	77.0
	1450	13		4440	88	7.22	53.2	13		8650	89	13.7	87.2
	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
1 2 5	2900	24	119.4	4180	89	11.9	53.2	25	115.8	7820	90	22.8	79.4
	1450	12		4490	87	6.53	53.2	12		7980	89	11.8	87.2
	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
1 4 0	2900	19	146.2	4380	85	10.7	53.2	20	144.7	6860	87	16.6	81.0
	1450	9		5290	82	6.68	53.2	10		7760	85	9.62	87.2
	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
1 6 0	2900	17	161.4	4520	84	10.1	53.2	17	166.7	7020	86	14.8	84.5
	1450	8		5420	82	6.22	53.2	8		7960	84	8.62	87.2
	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
2 1 2	2900	13	222.1	4940	83	8.13	53.2	12	225.5	7400	85	11.7	87.2
	1450	6		5580	80	4.74	53.2	6		8370	83	6.8	87.2
	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
2 5 0	2900	11	249.7	5090	82	7.51	53.2	11	242.3	7510	85	11.1	87.2
	1450	5		5580	80	4.25	53.2	5		8470	83	6.43	87.2
	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

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

Column Entry 678	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)
100	2900	27	105.4	126	75	0.482	2.78	27	105.4	209	77	0.782	5.26
	1450	13		149	74	0.289	2.78	13		204	76	0.389	5.26
	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
118	2900	24	120.4	132	75	0.443	2.78	24	120.4	208	77	0.684	5.26
	1450	12		149	74	0.254	2.78	12		203	75	0.34	5.26
	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
132	2900	22	130.1	120	64	0.441	2.78	22	130.1	197	66	0.696	5.26
	1450	11		148	63	0.276	2.78	11		239	64	0.435	5.26
	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
150	2900	20	140.2	122	63	0.417	2.78	20	140.2	200	66	0.659	5.26
	1450	10		149	62	0.26	2.78	10		245	64	0.416	5.26
	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
160	2900	17	162.5	146	75	0.365	2.78	17	162.5	206	76	0.507	5.26
	1450	8		149	73	0.19	2.78	8		201	75	0.252	5.26
	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
180	2900	15	190.4	149	74	0.321	2.78	15	190.4	205	76	0.433	5.26
	1450	7		149	73	0.163	2.78	7		200	74	0.216	5.26
	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
200	2900	14	200.7	136	63	0.328	2.78	14	200.7	219	64	0.515	5.26
	1450	7		149	61	0.185	2.78	7		276	63	0.334	5.26
	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
225	2900	12	229.3	142	62	0.302	2.78	12	229.3	229	64	0.474	5.26
	1450	6		149	61	0.163	2.78	6		278	62	0.296	5.26
	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
265	2900	10	266.2	149	73	0.232	2.78	10	266.2	202	74	0.31	5.26
	1450	5		149	72	0.118	2.78	5		198	73	0.154	5.26
	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
280	2900	9	295.8	149	73	0.21	2.78	9	295.8	201	74	0.279	5.26
	1450	4		149	71	0.107	2.78	4		197	73	0.139	5.26
	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
315	2900	9	309.5	149	61	0.239	2.78	9	309.5	253	63	0.394	5.26
	1450	4		149	59	0.123	2.78	4		278	61	0.223	5.26
	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
360	2900	7	362.6	149	61	0.206	2.78	7	362.6	267	63	0.357	5.26
	1450	3		149	59	0.106	2.78	3		278	61	0.192	5.26
	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
400	2900	7	408.3	149	72	0.153	2.78	7	408.3	199	73	0.202	5.26
	1450	3		149	71	0.078	2.78	3		195	72	0.101	5.26
	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
450	2900	6	464.1	149	72	0.135	2.78	6	464.1	199	73	0.178	5.26
	1450	3		149	71	0.069	2.78	3		195	72	0.089	5.26
	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
500	2900	5	507.1	149	59	0.15	2.78	5	507.1	278	61	0.271	5.26
	1450	2		149	58	0.077	2.78	2		278	59	0.14	5.26
	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
560	2900	5	563.5	149	59	0.135	2.78	5	563.5	278	61	0.246	5.26
	1450	2		149	58	0.069	2.78	2		278	59	0.127	5.26
	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
800	2900	3	777.8	149	59	0.099	2.78	3	777.8	278	60	0.181	5.26
	1450	1		149	57	0.051	2.78	1		278	58	0.093	5.26
	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
900	2900	3	883.9	149	58	0.088	2.78	3	883.9	278	60	0.16	5.26
	1450	1		149	57	0.045	2.78	1		278	58	0.082	5.26
	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

0401

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

Column Entry 678	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
100	1450	13	103.9	401	78	0.753	7.42	13	103.9	766	82	1.36	11.4
	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
118	1450	12	118.7	399	77	0.659	7.42	12	118	766	82	1.2	11.4
	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
132	1450	11	130.4	482	67	0.841	7.42	11	130	766	71	1.26	11.4
	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
150	1450	10	140.5	482	66	0.784	7.42	9	147.7	766	70	1.12	11.4
	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
160	1450	9	160.3	395	77	0.489	7.42	8	169.8	766	81	0.846	11.4
	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
180	1450	7	187.8	393	76	0.418	7.42	7	184.6	766	81	0.781	11.4
	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
200	1450	7	201.1	482	65	0.56	7.42	7	201	766	69	0.84	11.4
	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
225	1450	6	229.8	482	65	0.493	7.42	6	228.4	766	68	0.745	11.4
	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
265	1450	5	262.6	389	75	0.3	7.42	5	266	766	80	0.55	11.4
	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
280	1450	4	291.8	388	75	0.27	7.42	4	299.7	766	79	0.49	11.4
	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
315	1450	4	310.2	482	63	0.372	7.42	4	328.7	766	67	0.53	11.4
	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
360	1450	3	363.4	482	63	0.32	7.42	4	357.3	766	66	0.49	11.4
	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
400	1450	3	402.7	385	74	0.196	7.42	3	395.4	766	79	0.374	11.4
	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
450	1450	3	457.7	384	74	0.172	7.42	3	449.5	766	78	0.331	11.4
	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
500	1450	2	508.2	482	62	0.233	7.42	2	514.8	766	65	0.348	11.4
	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
560	1450	2	564.7	482	61	0.211	7.42	2	580	766	64	0.311	11.4
	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
800	1450	1	779.4	482	61	0.155	7.42	1	765.3	766	64	0.239	11.4
	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
900	1450	1	885.8	482	60	0.137	7.42	1	870	766	63	0.212	11.4
	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

0401

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

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)
1 0 C	2900	3.02	960	150	70	0.068	2.78	3.02	960	208	71	0.093	5.26
	1450	1.51				0.034	2.78	1.51				0.046	5.26
	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
1 1 C	2900	2.64	1097	150	70	0.059	2.78	2.64	1097	208	71	0.081	5.26
	1450	1.32				0.030	2.78	1.32				0.041	5.26
	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
1 2 C	2900	2.38	1220	150	70	0.053	2.78	2.38	1220	208	71	0.073	5.26
	1450	1.19				0.027	2.78	1.19				0.036	5.26
	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
1 4 C	2900	2.16	1345	150	70	0.048	2.78	2.16	1345	206	70	0.066	5.26
	1450	1.08				0.024	2.78	1.08				0.033	5.26
	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
1 6 C	2900	1.77	1635	150	69	0.040	2.78	1.77	1635	192	70	0.051	5.26
	1450	0.89				0.020	2.78	0.89				0.025	5.26
	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
1 0 C	2900	1.67	1735	150	70	0.038	2.78	1.67	1735	206	70	0.052	5.26
	1450	0.84				0.019	2.78	0.84				0.026	5.26
	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
2 0 C	2900	1.51	1916	150	69	0.034	2.78	1.51	1916	192	70	0.043	5.26
	1450	0.76				0.017	2.78	0.76				0.022	5.26
	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
2 2 C	2900	1.39	2081	150	70	0.031	2.78	1.39	2081	206	70	0.043	5.26
	1450	0.70				0.016	2.78	0.70				0.021	5.26
	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
2 5 C	2900	1.20	2426	150	70	0.027	2.78	1.20	2426	206	70	0.037	5.26
	1450	0.60				0.013	2.78	0.60				0.018	5.26
	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
2 8 C	2900	1.08	2679	150	69	0.025	2.78	1.08	2679	192	70	0.031	5.26
	1450	0.54				0.012	2.78	0.54				0.016	5.26
	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
3 2 C	2900	0.89	3246	150	70	0.020	2.78	0.89	3246	206	70	0.028	5.26
	1450	0.45				0.010	2.78	0.45				0.014	5.26
	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
3 6 C	2900	0.81	3585	150	69	0.018	2.78	0.81	3585	192	70	0.023	5.26
	1450	0.40				0.009	2.78	0.40				0.012	5.26
	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
4 0 C	2900	0.71	4109	150	69	0.016	2.78	0.71	4109	192	70	0.020	5.26
	1450	0.35				0.008	2.78	0.35				0.010	5.26
	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

QUADRUPLE REDUCTION RATINGS
SIZES C03 - C04

0401

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)
4 5 C	2900	0.62	4670	150	69	0.014	2.78	0.62	4670	192	70	0.018	5.26
	1450	0.31				0.007	2.78	0.31				0.009	5.26
	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
5 0 C	2900	0.58	4978	150	68	0.013	2.78	0.58	4978	278	69	0.025	5.26
	1450	0.29				0.007	2.78	0.29				0.012	5.26
	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
5 6 C	2900	0.51	5658	150	68	0.012	2.78	0.51	5658	278	69	0.022	5.26
	1450	0.26				0.006	2.78	0.26				0.011	5.26
	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
6 3 C	2900	0.45	6485	150	68	0.010	2.78	0.45	6485	278	69	0.019	5.26
	1450	0.22				0.005	2.78	0.22				0.009	5.26
	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
7 1 C	2900	0.39	7370	150	68	0.009	2.78	0.39	7370	278	69	0.017	5.26
	1450	0.20				0.005	2.78	0.20				0.008	5.26
	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
8 0 C	2900	0.37	7874	150	53	0.011	2.78	0.37	7874	278	54	0.020	5.26
	1450	0.18				0.005	2.78	0.18				0.010	5.26
	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
9 0 C	2900	0.32	8949	150	53	0.010	2.78	0.32	8949	278	54	0.017	5.26
	1450	0.16				0.005	2.78	0.16				0.009	5.26
	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
1 0 K	2900	0.31	9482	150	53	0.009	2.78	0.31	9482	190	53	0.011	5.26
	1450	0.15				0.005	2.78	0.15				0.006	5.26
	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
1 1 K	2900	0.27	10869	150	53	0.008	2.78	0.27	10869	190	53	0.010	5.26
	1450	0.13				0.004	2.78	0.13				0.005	5.26
	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
1 2 K	2900	0.23	12352	150	53	0.007	2.78	0.21	14038	183	53	0.007	5.26
	1450	0.12				0.004	2.78	0.10				0.004	5.26
	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
1 4 K	2900	0.21	14038	150	150	0.002	2.78	0.21	14038	183	53	0.007	5.26
	1450	0.10				0.001	2.78	0.10				0.004	5.26
	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

QUADRUPLE REDUCTION RATINGS
SIZES C05 - C06

0401

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)
1 0 C	2900	3.07	945	406	73	0.179	7.41	2.84	1022	766	77	0.296	11.50
	1450	1.53				0.089	7.41	1.42				0.148	11.50
	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
1 1 C	2900	2.69	1080	406	73	0.156	7.41	2.61	1111	766	77	0.272	11.50
	1450	1.34				0.078	7.41	1.31				0.136	11.50
	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
1 2 C	2900	2.41	1201	406	73	0.141	7.41	2.23	1300	766	77	0.232	11.50
	1450	1.21				0.070	7.41	1.12				0.116	11.50
	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
1 4 C	2900	2.19	1324	406	73	0.128	7.41	1.94	1495	766	77	0.202	11.50
	1450	1.10				0.064	7.41	0.97				0.101	11.50
	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
1 6 C	2900	1.77	1642	404	72	0.104	7.41	1.78	1625	766	77	0.186	11.50
	1450	0.88				0.052	7.41	0.89				0.093	11.50
	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
1 0 C	2900	1.70	1707	406	73	0.099	7.41	1.63	1780	766	76	0.172	11.50
	1450	0.85				0.049	7.41	0.81				0.086	11.50
	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
2 0 C	2900	1.51	1924	404	72	0.089	7.41	1.49	1951	766	77	0.155	11.50
	1450	0.75				0.044	7.41	0.74				0.077	11.50
	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
2 2 C	2900	1.42	2048	406	73	0.082	7.41	1.24	2342	766	77	0.129	11.50
	1450	0.71				0.041	7.41	0.62				0.065	11.50
	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
2 5 C	2900	1.21	2387	406	73	0.071	7.41	1.10	2638	766	77	0.114	11.50
	1450	0.61				0.035	7.41	0.55				0.057	11.50
	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
2 8 C	2900	1.08	2690	404	72	0.063	7.41	1.00	2889	766	76	0.106	11.50
	1450	0.54				0.032	7.41	0.50				0.053	11.50
	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
3 2 C	2900	0.91	3195	406	73	0.053	7.41	0.95	3067	766	77	0.098	11.50
	1450	0.45				0.026	7.41	0.47				0.049	11.50
	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
3 6 C	2900	0.81	3599	404	72	0.047	7.41	0.86	3359	766	76	0.091	11.50
	1450	0.40				0.024	7.41	0.43				0.046	11.50
	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
4 0 C	2900	0.70	4126	404	72	0.041	7.41	0.76	3812	766	76	0.080	11.50
	1450	0.35				0.021	7.41	0.38				0.040	11.50
	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

QUADRUPLE REDUCTION RATINGS
SIZES C05 - C06

0401

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)
4 5 C	2900	0.62	4689	404	72	0.036	7.41	0.67	4334	766	76	0.071	11.50
	1450	0.31				0.018	7.41	0.33				0.035	11.50
	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
5 0 C	2900	0.61	4778	393	71	0.035	7.41	0.56	5145	766	76	0.059	11.50
	1450	0.30				0.018	7.41	0.28				0.030	11.50
	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
5 6 C	2900	0.54	5399	386	71	0.031	7.41	0.49	5920	766	76	0.052	11.50
	1450	0.27				0.015	7.41	0.24				0.026	11.50
	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
6 3 C	2900	0.47	6189	386	71	0.027	7.41	0.44	6639	766	76	0.046	11.50
	1450	0.23				0.013	7.41	0.22				0.023	11.50
	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
7 1 C	2900	0.41	7033	386	71	0.024	7.41	0.39	7378	766	58	0.054	11.50
	1450	0.21				0.012	7.41	0.20				0.027	11.50
	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
8 0 C	2900	0.36	7985	482	55	0.033	7.41	0.35	8388	766	58	0.048	11.50
	1450	0.18				0.017	7.41	0.17				0.024	11.50
	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
9 0 C	2900	0.32	9075	482	55	0.029	7.41	0.33	8879	766	57	0.046	11.50
	1450	0.16				0.015	7.41	0.16				0.023	11.50
	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
1 0 K	2900	0.32	9192	482	54	0.029	7.41	0.29	10078	766	57	0.040	11.50
	1450	0.16				0.015	7.41	0.14				0.020	11.50
	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
1 1 K	2900	0.28	10536	482	54	0.026	7.41	0.29	10078	766	57	0.040	11.50
	1450	0.14				0.013	7.41	0.14				0.020	11.50
	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
1 2 K	2900	0.24	11974	482	54	0.023	7.41	0.23	12849	766	56	0.032	11.50
	1450	0.12				0.011	7.41	0.11				0.016	11.50
	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
1 4 K	2900	0.21	13613	482	54	0.020	7.41	-	-	-	-	-	-
	1450	0.11				0.010	7.41	-				-	-
	960	0.07				0.007	7.41	-				-	-
	720	0.05				0.005	7.41	-				-	-

0401

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

0401

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	-				-	-

QUADRUPLE REDUCTION RATINGS
SIZES C08- C09

0401

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

Column Entry 678	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)
160	2900	18.54	156	2600	81	6.230	41.7	18.16	160	4800	82	11.084	53.2
	1450	9.27				3.115	41.7	9.08				5.542	53.2
	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
180	2900	16.42	177	2600	81	5.519	41.7	16.35	177	4850	82	10.081	53.2
	1450	8.21				2.760	41.7	8.17				5.040	53.2
	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
212	2900	13.18	220	2600	81	4.431	41.7	12.92	225	4800	82	7.884	53.2
	1450	6.59				2.216	41.7	6.46				3.942	53.2
	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
250	2900	11.68	248	2600	81	3.926	41.7	11.63	249	4850	82	7.170	53.2
	1450	5.84				1.963	41.7	5.81				3.585	53.2
	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
280	2900	10.48	277	2600	81	3.522	41.7	10.27	282	4800	82	6.267	53.2
	1450	5.24				1.761	41.7	5.13				3.133	53.2
	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
320	2900	9.28	312	2600	81	3.120	41.7	9.24	314	4850	82	5.710	53.2
	1450	4.64				1.560	41.7	4.62				2.855	53.2
	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
360	2900	8.25	351	2600	81	2.774	41.7	8.08	359	4800	82	4.935	53.2
	1450	4.13				1.387	41.7	4.04				2.467	53.2
	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
400	2900	7.28	398	2600	81	2.447	41.7	7.13	407	4800	82	4.353	53.2
	1450	3.64				1.223	41.7	3.57				2.176	53.2
	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
450	2900	6.45	450	2600	81	2.168	41.7	6.42	452	4850	82	3.966	53.2
	1450	3.22				1.084	41.7	3.21				1.983	53.2
	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
500	2900	6.10	475	2600	81	2.051	41.7	5.98	485	4800	82	3.650	53.2
	1450	3.05				1.026	41.7	2.99				1.825	53.2
	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
560	2900	5.30	547	2600	81	1.782	41.7	5.19	558	4800	82	3.170	53.2
	1450	2.65				#REF!	41.7	2.60				1.585	53.2
	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
630	2900	4.56	636	2600	81	1.532	41.7	4.47	649	4800	82	2.725	53.2
	1450	2.28				0.766	41.7	2.23				1.363	53.2
	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
710	2900	4.07	712	2600	81	1.369	41.7	3.99	727	4800	82	2.436	53.2
	1450	2.04				0.685	41.7	2.00				1.218	53.2
	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
800	2900	3.82	759	2600	81	1.285	41.7	3.74	774	4800	82	2.286	53.2
	1450	1.91				0.642	41.7	1.87				1.143	53.2
	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
900	2900	3.22	899	2600	81	1.084	41.7	3.16	918	4800	82	1.928	53.2
	1450	1.61				0.542	41.7	1.58				0.964	53.2
	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
10C	2900	3.02	960	2600	81	1.015	41.7	2.96	980	4800	82	1.806	53.2
	1450	1.51				0.508	41.7	1.48				0.903	53.2
	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
11C	2900	2.68	1084	2600	81	0.899	41.7	2.66	1089	4850	80	1.689	53.2
	1450	1.34				0.450	41.7	1.33				0.845	53.2
	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
12C	2900	2.43	1191	2600	81	0.818	41.7	2.38	1216	4800	82	1.456	53.2
	1450	1.22				0.409	41.7	1.19				0.728	53.2
	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
14C	2900	2.06	1405	2600	81	0.694	41.7	2.02	1434	4800	82	1.234	53.2
	1450	1.03				0.347	41.7	1.01				0.617	53.2
	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
16C	2900	1.89	1532	2800	80	0.694	41.7	1.89	1538	5000	81	1.215	53.2
	1450	0.95				0.347	41.7	0.94				0.607	53.2
	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

0401

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

0401

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

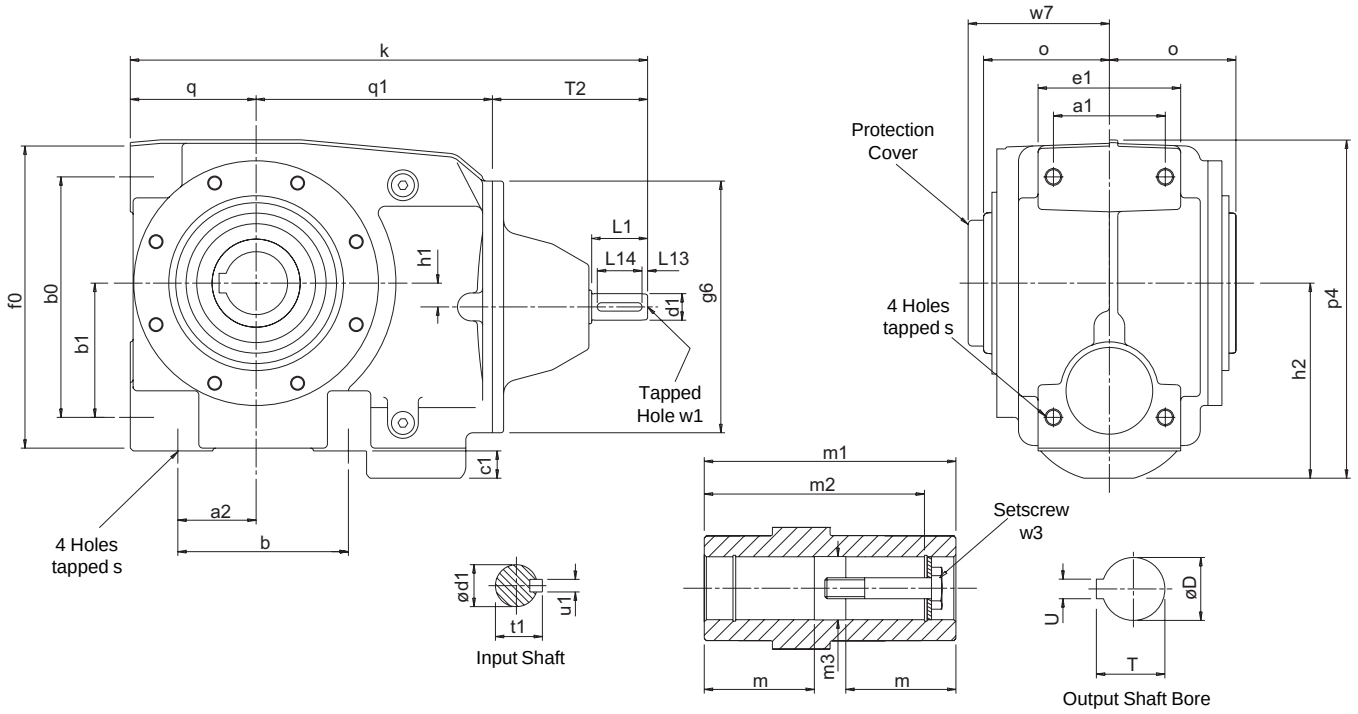
Column Entry 678	Input Speed N1 (rpm)	C1041					
		N2 (rpm)	i (:1)	M2 (Nm)	η (%)	Pm (kW)	fra (kN)
160	2900	18.06	161	8330	83	19.025	87.2
	1450	9.03				9.512	87.2
	960	5.98				6.298	87.2
	720	4.48				4.723	87.2
180	2900	16.25	178	8150	83	16.750	87.2
	1450	8.13				8.375	87.2
	960	5.38				5.545	87.2
	720	4.04				4.159	87.2
212	2900	13.04	222	8330	83	13.736	87.2
	1450	6.52				6.868	87.2
	960	4.32				4.547	87.2
	720	3.24				3.410	87.2
250	2900	11.74	247	8150	83	12.094	87.2
	1450	5.87				6.047	87.2
	960	3.88				4.004	87.2
	720	2.91				3.003	87.2
280	2900	10.56	275	8330	83	11.121	87.2
	1450	5.28				5.560	87.2
	960	3.50				3.681	87.2
	720	2.62				2.761	87.2
320	2900	9.50	305	8150	83	9.792	87.2
	1450	4.75				4.896	87.2
	960	3.15				3.241	87.2
	720	2.36				2.431	87.2
360	2900	8.08	359	8330	83	8.514	87.2
	1450	4.04				4.257	87.2
	960	2.68				2.819	87.2
	720	2.01				2.114	87.2
400	2900	7.11	408	8330	83	7.489	87.2
	1450	3.55				3.744	87.2
	960	2.35				2.479	87.2
	720	1.77				1.859	87.2
450	2900	6.40	453	8150	83	6.593	87.2
	1450	3.20				3.297	87.2
	960	2.12				2.183	87.2
	720	1.59				1.637	87.2
500	2900	5.85	495	8330	83	6.167	87.2
	1450	2.93				3.084	87.2
	960	1.94				2.042	87.2
	720	1.45				1.531	87.2
560	2900	5.32	545	8330	83	5.606	87.2
	1450	2.66				2.803	87.2
	960	1.76				1.856	87.2
	720	1.32				1.392	87.2
630	2900	4.63	626	8330	83	4.879	87.2
	1450	2.32				2.440	87.2
	960	1.53				1.615	87.2
	720	1.15				1.211	87.2
710	2900	4.08	710	8330	83	4.303	87.2
	1450	2.04				2.151	87.2
	960	1.35				1.424	87.2
	720	1.01				1.068	87.2
800	2900	3.70	783	8330	83	3.901	87.2
	1450	1.85				1.950	87.2
	960	1.23				1.291	87.2
	720	0.92				0.968	87.2
900	2900	3.23	897	8330	83	3.406	87.2
	1450	1.62				1.703	87.2
	960	1.07				1.128	87.2
	720	0.80				0.846	87.2
10C	2900	2.86	1014	8330	83	3.013	87.2
	1450	1.43				1.506	87.2
	960	0.95				0.997	87.2
	720	0.71				0.748	87.2
11C	2900	2.57	1127	8150	83	2.653	87.2
	1450	1.29				1.326	87.2
	960	0.85				0.878	87.2
	720	0.64				0.659	87.2
12C	2900	2.47	1176	8330	83	2.598	87.2
	1450	1.23				1.299	87.2
	960	0.82				0.860	87.2
	720	0.61				0.645	87.2
14C	2900	2.07	1402	8330	83	2.179	87.2
	1450	1.03				1.089	87.2
	960	0.68				0.721	87.2
	720	0.51				0.541	87.2
16C	2900	1.80	1607	8420	82	1.943	87.2
	1450	0.90				0.972	87.2
	960	0.60				0.643	87.2
	720	0.45				0.482	87.2

QUADRUPLE REDUCTION RATINGS
SIZE C10

0401

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

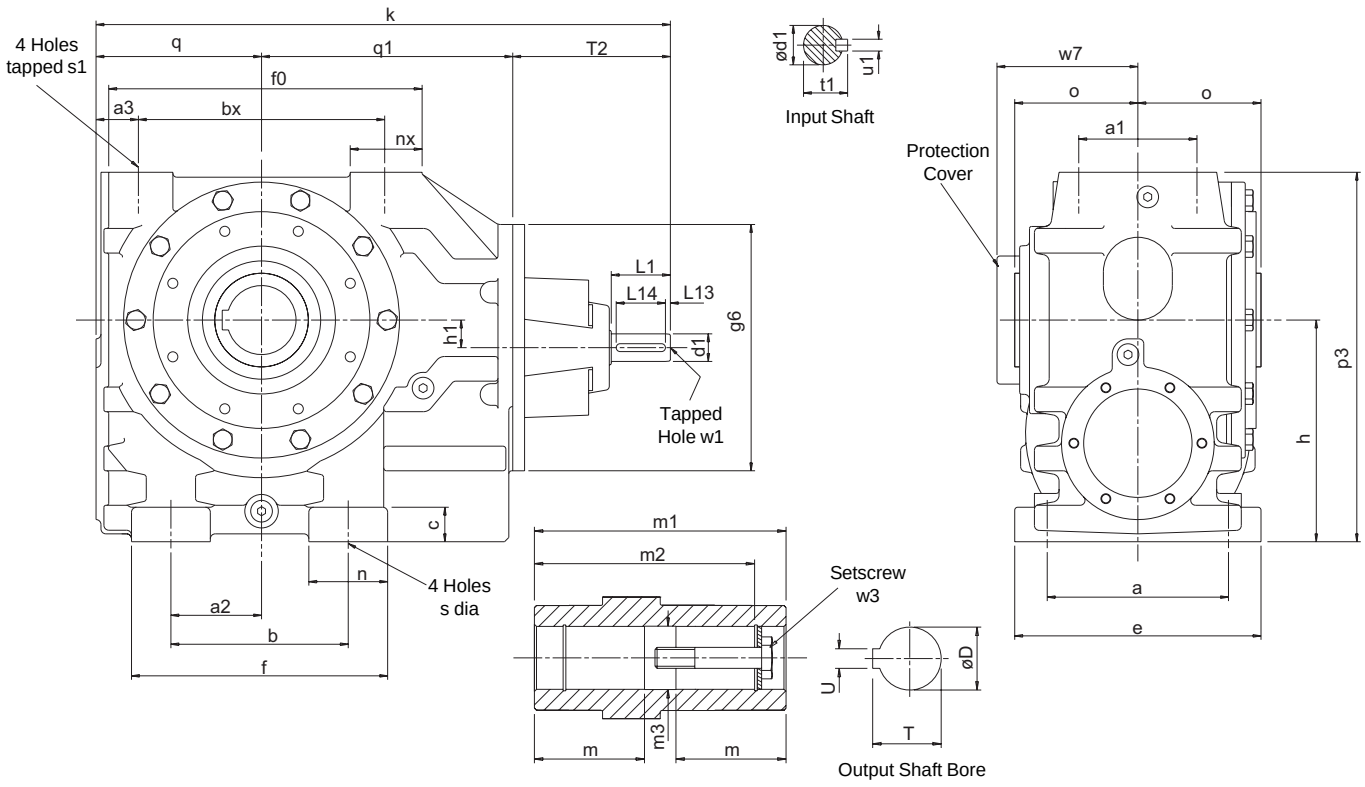


SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0321	54	35	63	80	40	9	70	139	5.3	79.5	62
C0421	56	35	80	118	65	7	80	158	15	93	65
C0521	68	45	100	142	77	16	86	177	13	112	70
C0621	80	56	122	172	96	20	102	218	17	139.5	90

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

0401

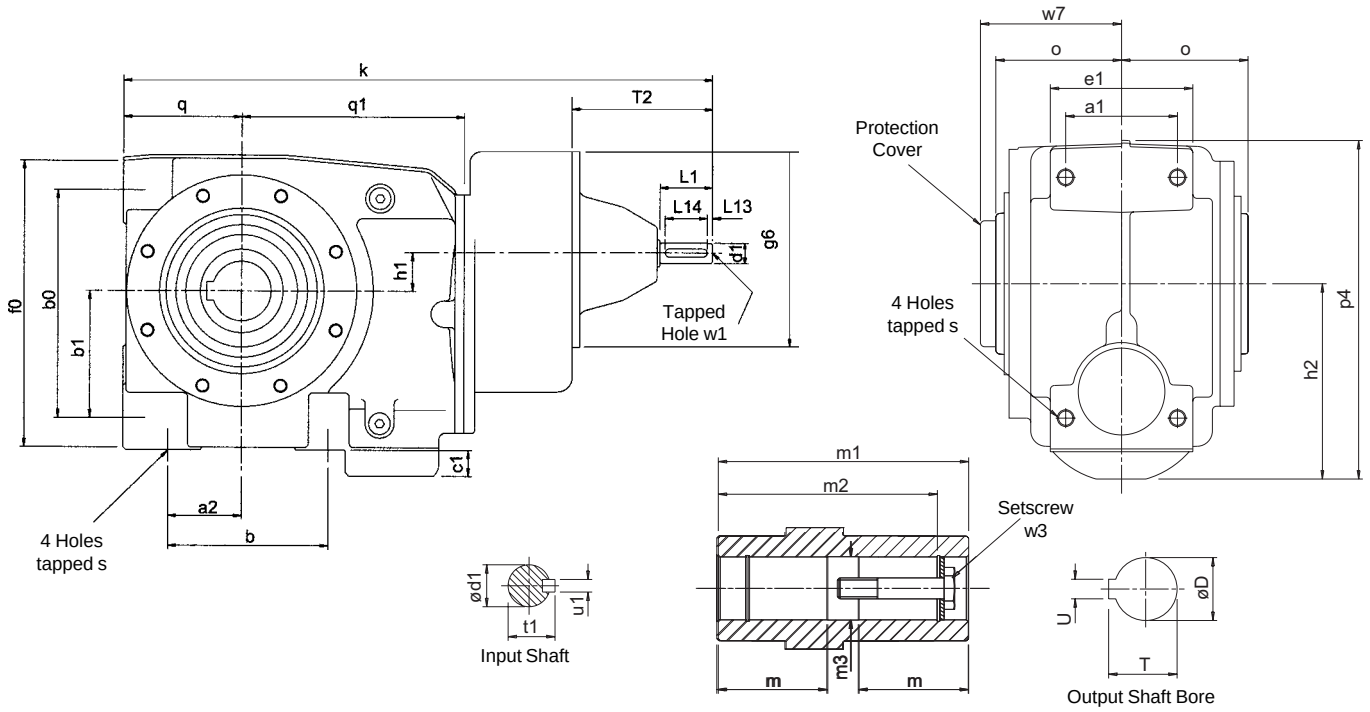


SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o
C0721	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109
C0821	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125
C0921	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150
C1021	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175

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

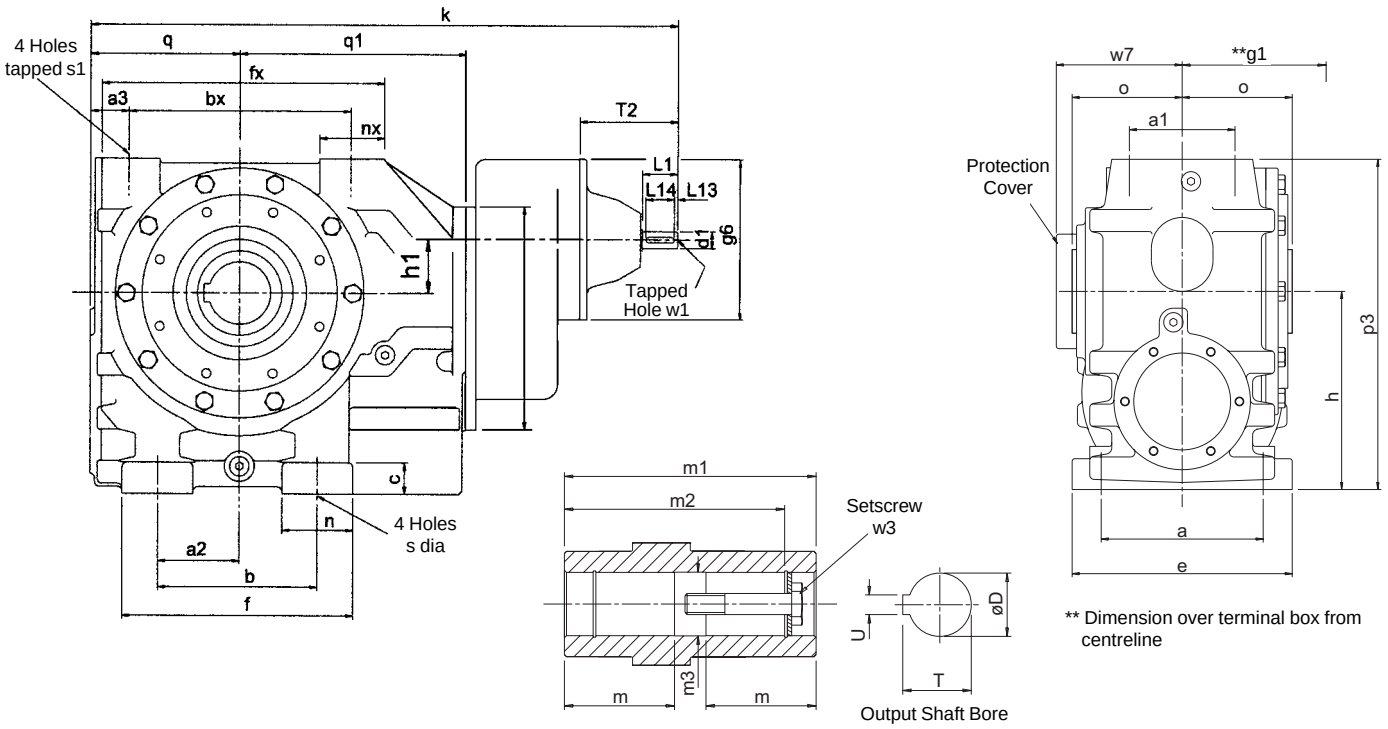
0401



SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	k	o	p4	q	q1
C0331	54	35	63	80	40	9	70	139	30.75	79.5	330	62	148	54	109
C0431	56	35	80	118	65	7	80	158	21.2	93	349	65	168	64	119
C0531	68	46	100	142	77	16	86	177	23	112	369	70	200	68	134
C0631	80	56	122	172	96	20	102	218	30	139.5	436	90	243	90	169

SIZE					Hollow Output Bore							
	s	T1	w7	y	D	m	m1	m2	m3	T	U	w3
C0331	M8x1.25 - 15 deep	111	70	140	20	52	124	104	20.2	22.9	6	M6x1.0 - 40 long
C0431	M10x1.5 - 18 deep	111	74.5	140	30	54	130	122	30.2	33.5	8	M10x1.5 - 50 long
C0531	M10x1.5 - 18 deep	111	79	140	35	56	140	127	35.3	38.5	10	M12x1.75 - 55 long
C0631	M12x1.75 - 20 deep	111	101	180	45	70	180	156	45.3	49	14	M16x2.0 - 70 long

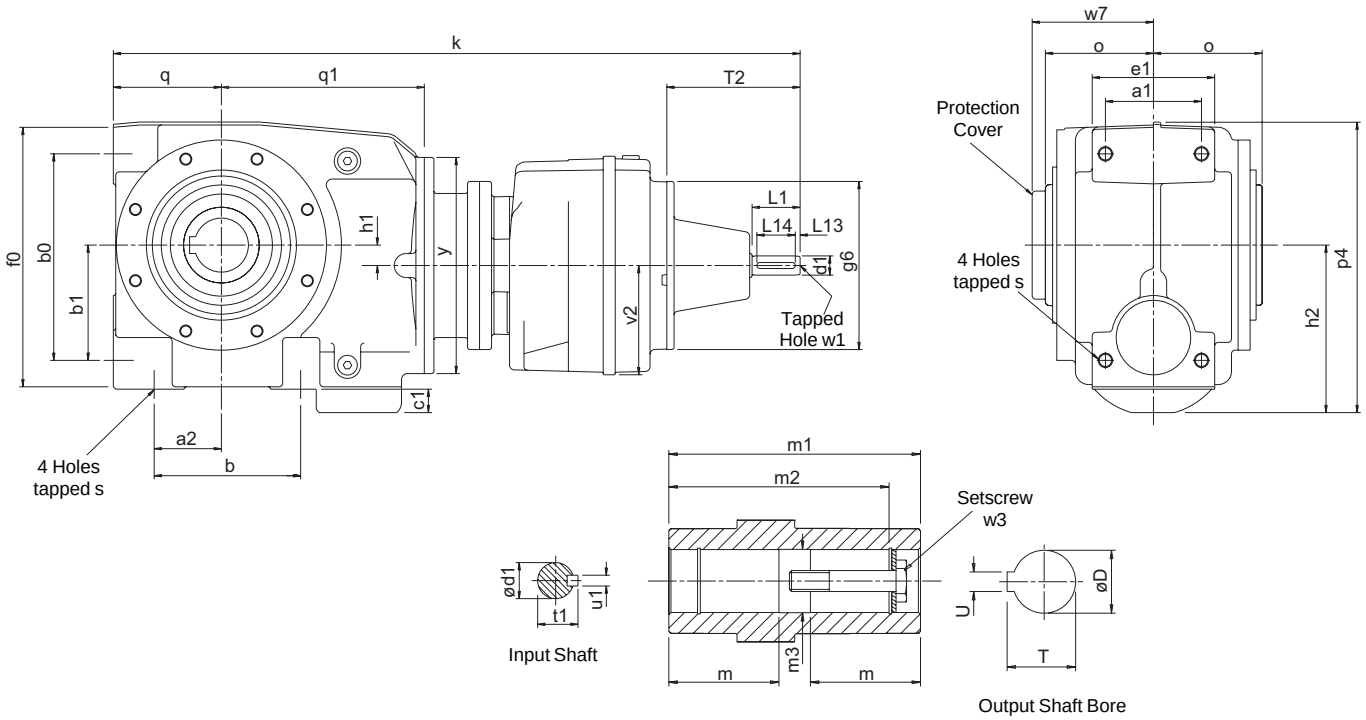
0401



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	s	s1	T1	w7	y	Hollow Output Bore							
						D	m	m1	m2	m3	T	U	w3
C0731	18	M20x2.5 - 34 deep	111	125	212	60	79	218	188	60.5	64.6	18	M20x2.5 - 80 long

0401

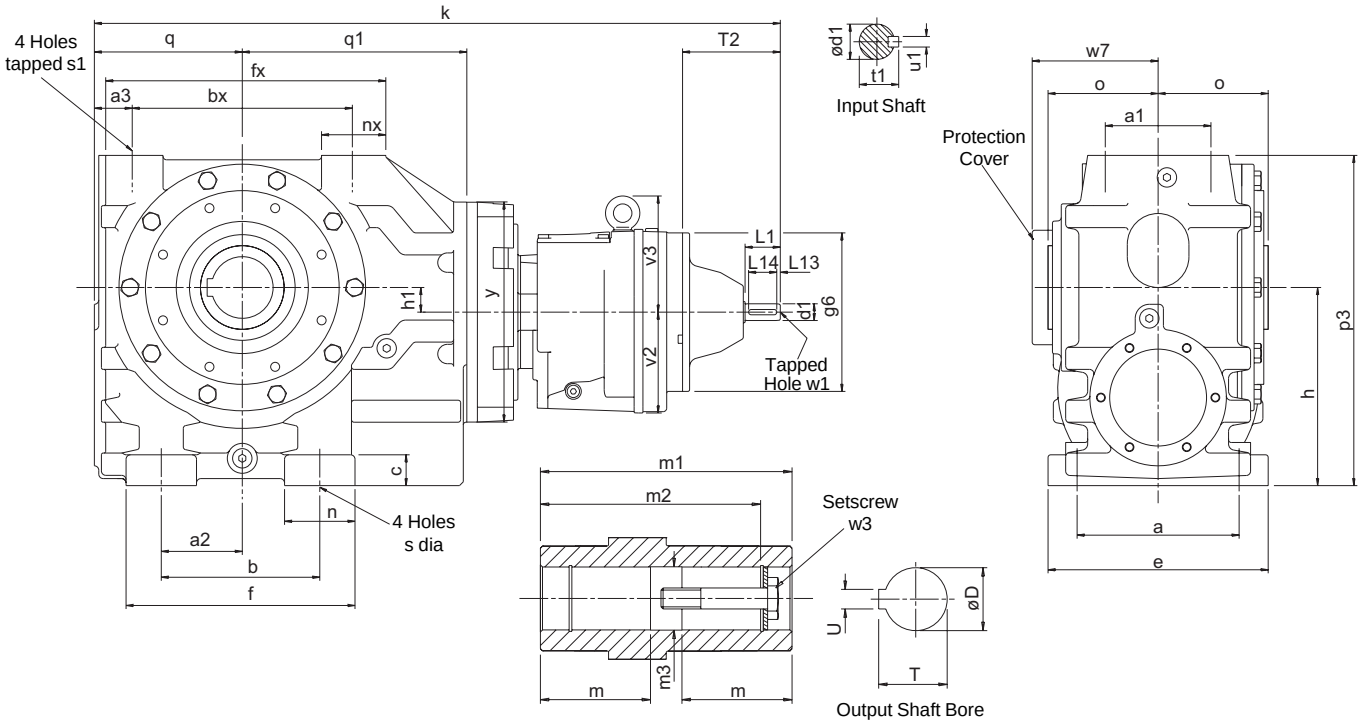


SIZE	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0341	54	35	63	80	40	9	70	139	5.3	79.5	62
C0441	56	35	80	118	65	7	80	158	15	93	65
C0541	68	45	100	142	77	16	86	177	13	112	70
C0641	80	56	122	172	96	20	102	218	17	139.5	90

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

0401



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

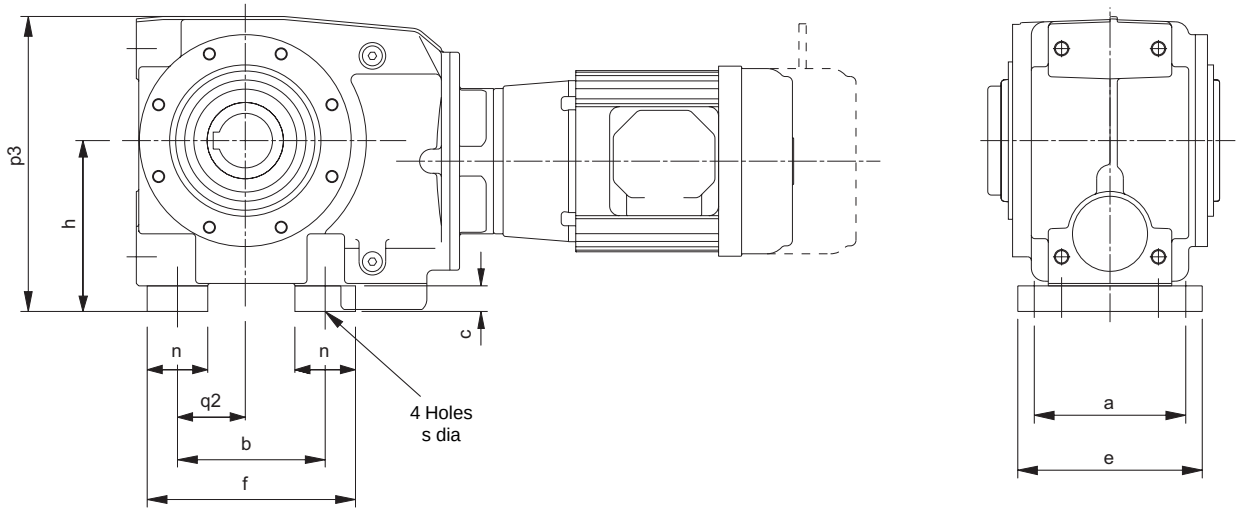
SIZE	p3	q	q1	s	s1	v2	v3	w7	y	T2	g6	k
C0741	302	143	220	18	M20x2.5, 34 deep	91	-	125	212	111	140	677
C0841	375	168	255	22	M20x2.5, 34 deep	115	-	143	250	111	180	785
C0941	457	195	300	26	M24x3, 45 deep	115	-	169	300	111	180	868
C1041	565	235	355	26	M24x3, 45 deep	140	155	198	360	115	212	997

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

0210

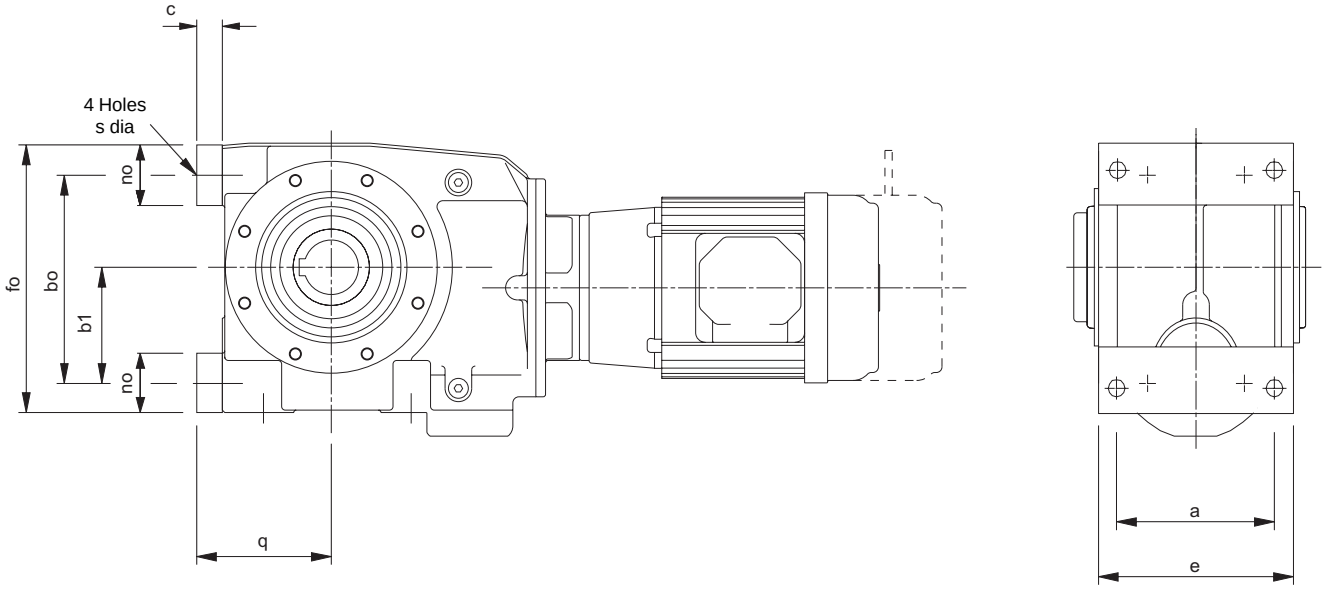
C	0			2				B	R

STANDARD UNIT WITH BASE MOUNTED FEET



C	0			2				E	R

STANDARD UNIT WITH END MOUNTED FEET

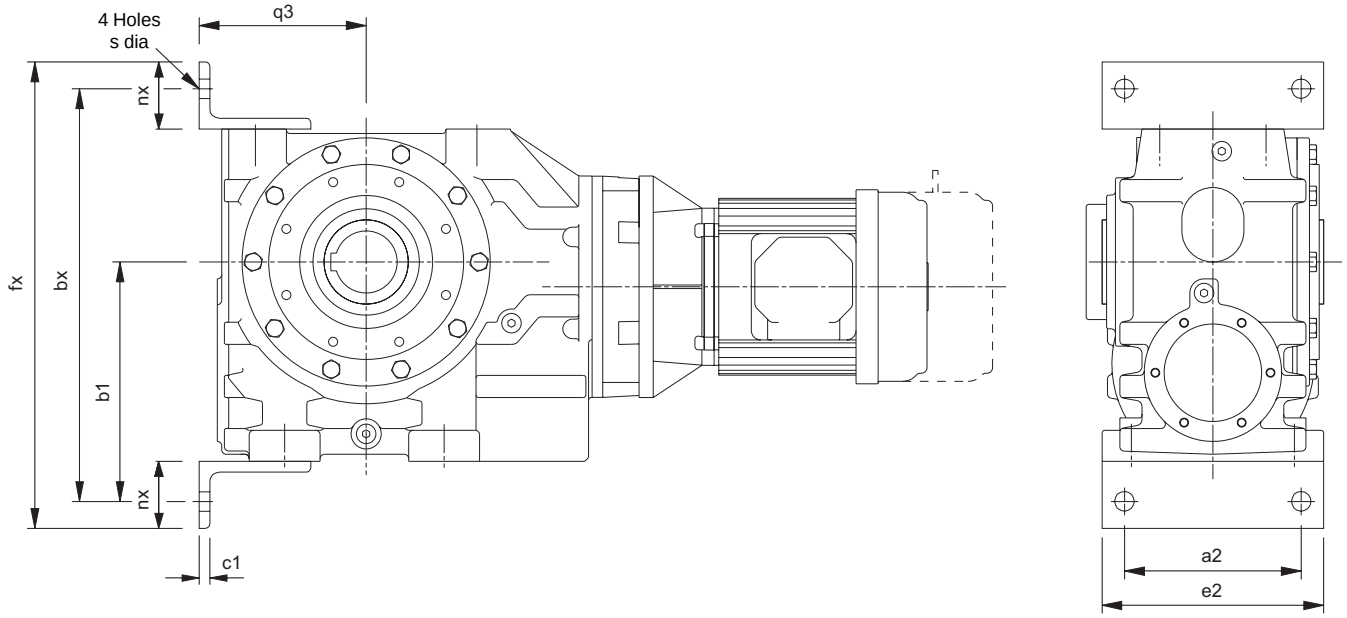


SIZE	a	b	bo	b1	c	e	f	fo	h	n	n0	p3	q	q2	s
C03	90	63	80	40	9	110	88	105	80	25	25	148	63	35	9
C04	100	80	118	65	14	124	115	153	100	35	35	175	78	35	11
C05	110	100	142	77	16	136	140	182	112	40	40	200	84	45	11
C06	130	130	180	100	20	160	172	222	140	50	50	243	110	60	14

0210

C								E	R

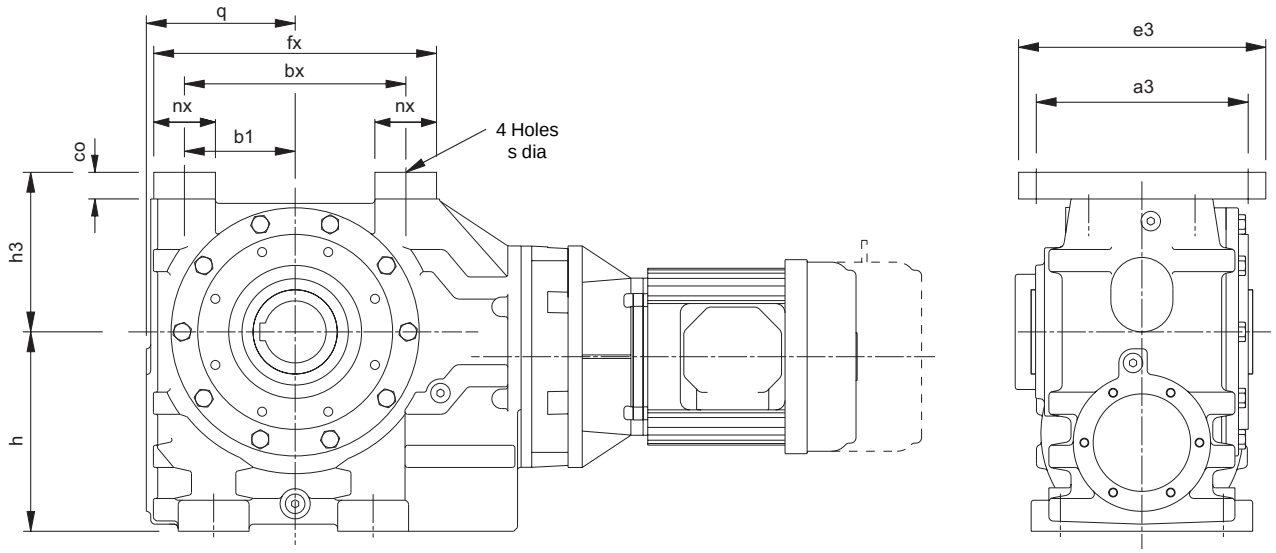
STANDARD UNIT WITH END MOUNTED FEET



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

0210

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 20°C. 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 °C	-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.

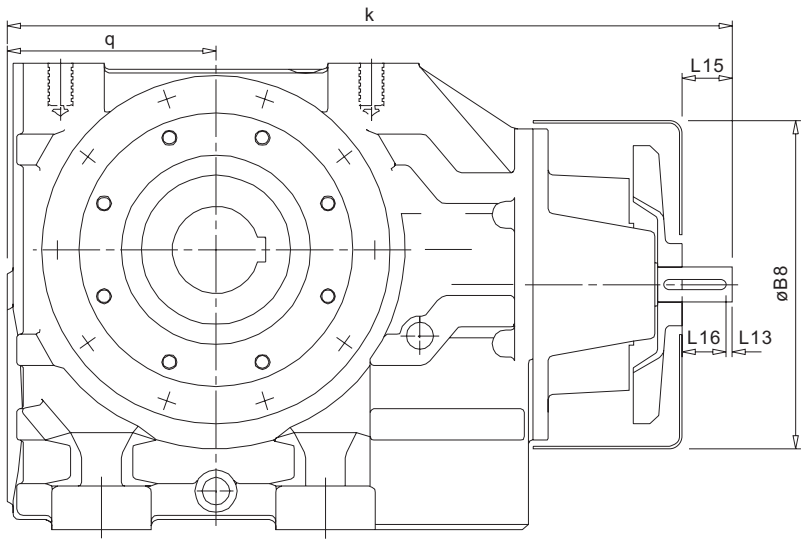
Column 10 Entry

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

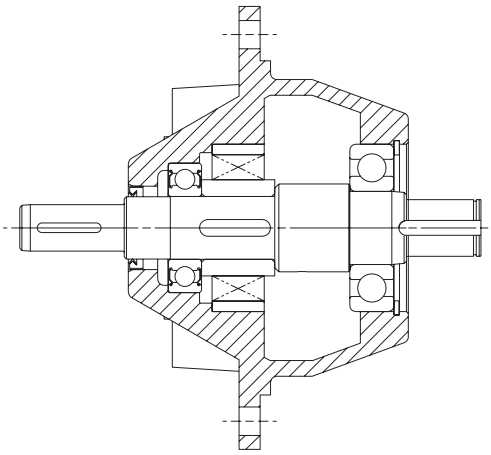
0210

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

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

Column 10 Entry

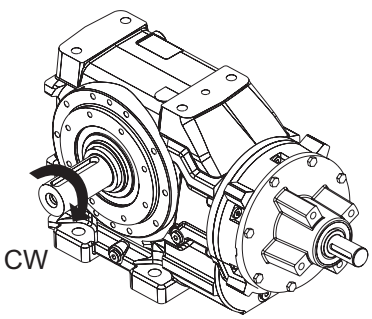
For reducer backstop modules enter [W] for CCW rotation (or [Z] if used in conjunction with a fan kit)
[X] for CW rotation (or [Y] if used in conjunction with a fan kit)



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

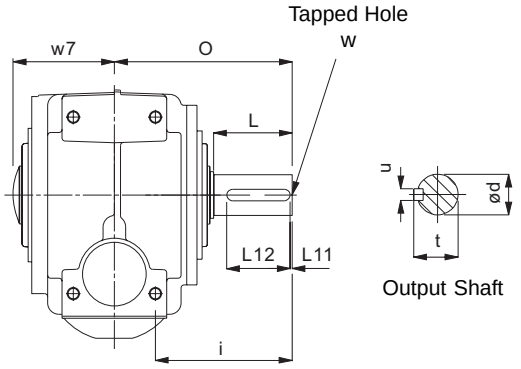
Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram)

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

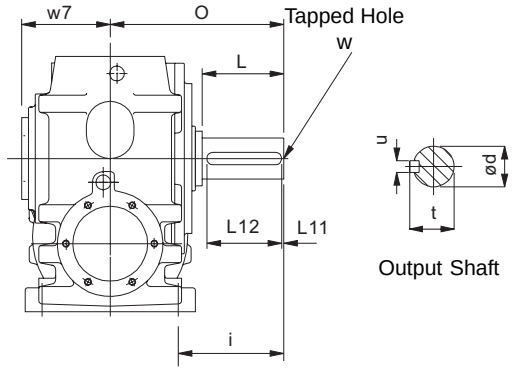


STANDARD OUTPUTSHAFT OPTION

Sizes C03 - C06

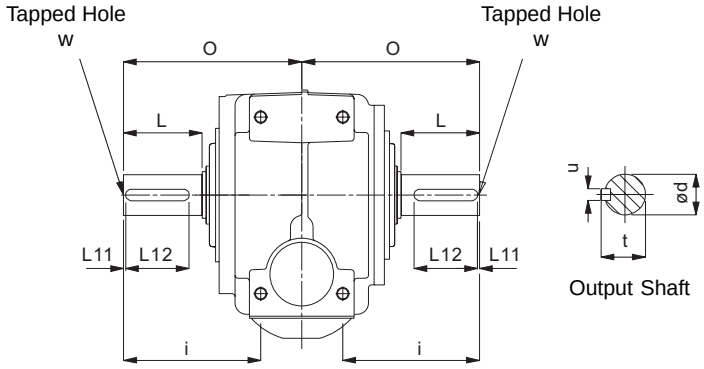


Sizes C07 - C10

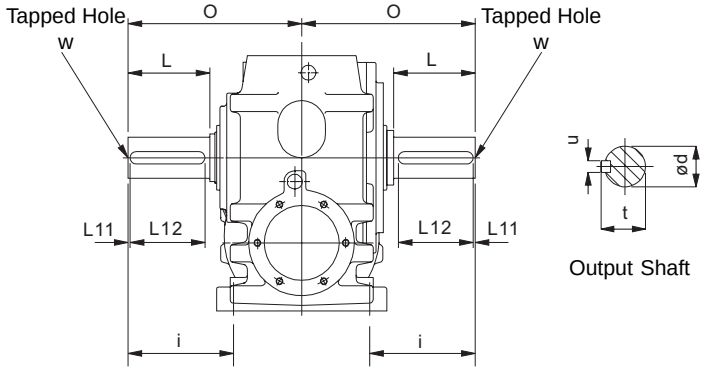


STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION

Sizes C03 - C06



Sizes C07 - C10

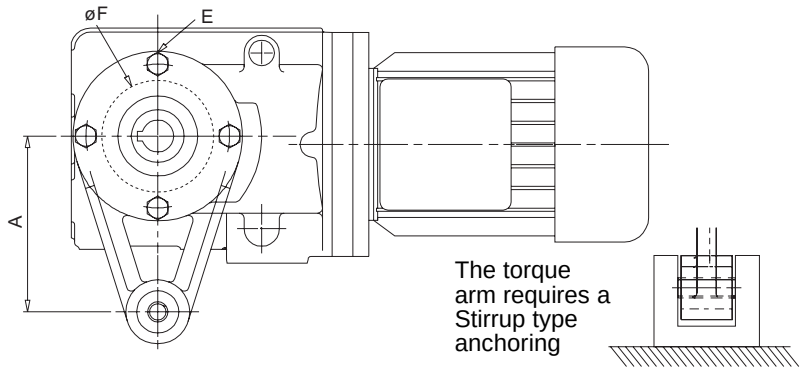


all parallel keys are to DIN 6885

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

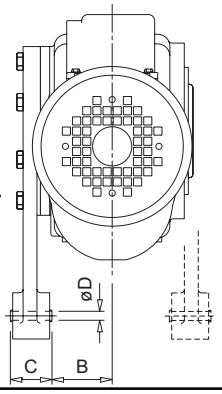
0403

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.



Column 9 Entry

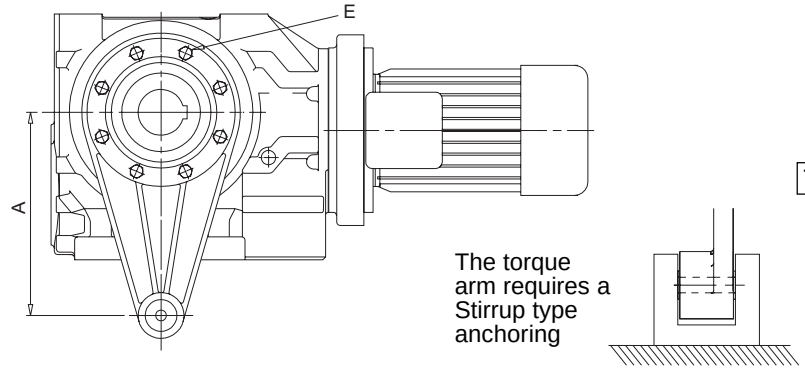
T Torque arm on left



Column 9 Entry

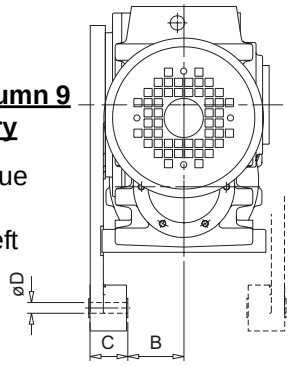
Q Torque arm on right

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 / 69.969
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



Column 9 Entry

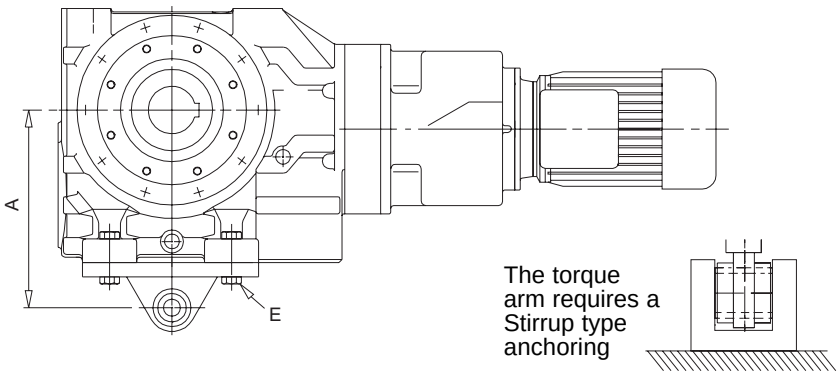
T Torque arm on left



Column 9 Entry

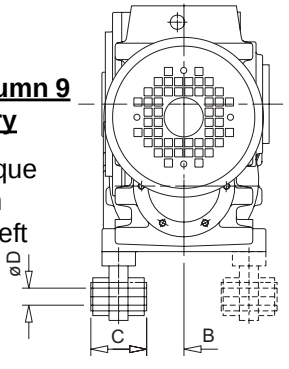
Q Torque arm on right

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	8 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



Column 9 Entry

T Torque arm on left

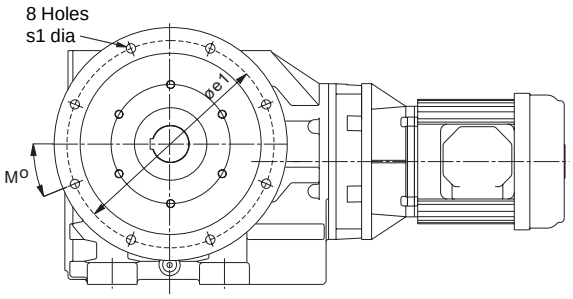


Column 9 Entry

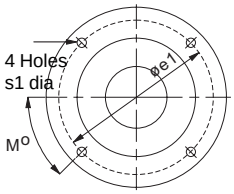
Q Torque arm on right

SIZE OF UNIT	DIMENSIONS IN MM				
	A	B	C	øD	E
C1040	430	95	110	25	2 Nuts & M24 x 100L Bolts

Sizes C09 & C10

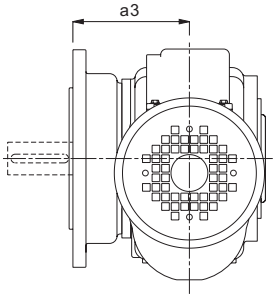


Sizes C03 to C08



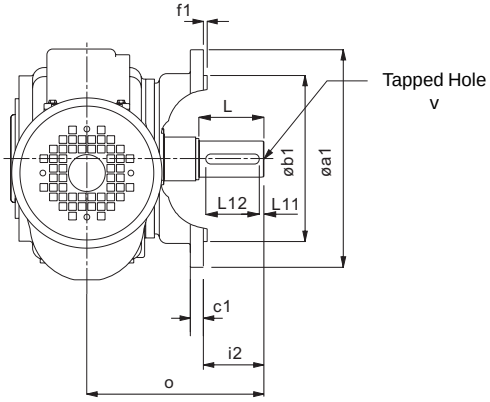
Column 9 Entry

F B5 (D) Output Flange on Left

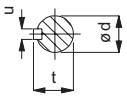


Column 9 Entry

H B5 (D) Output Flange on Right



Output Shaft



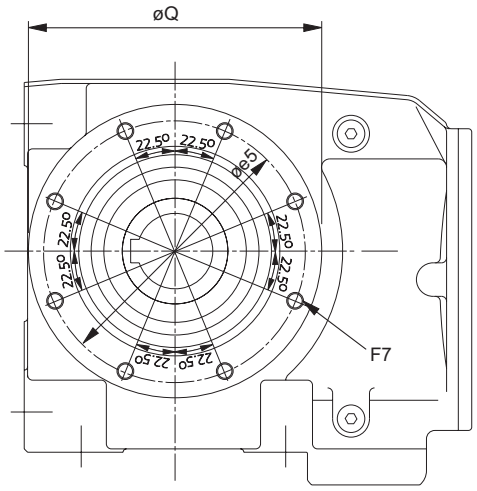
Note: Flange units can be supplied as standard with an extended output shaft Column 11 Entry F

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

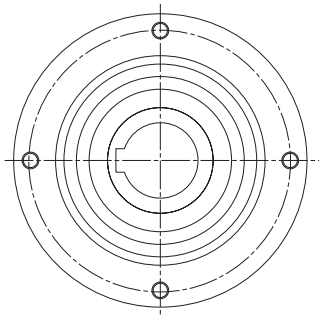
SIZE	Standard Output Shaft - Column 11 Entry C								
	ød	i	L	L11	L12	o	t	u	v
CO321	20.015 / 20.002	73	35	3	31	100	22.5	6	M8 x 1.0, 16 Deep
C0421	25.015 / 25.002	87	46	3	42	115	28	8	M10 x 1.5, 22 Deep
C0521	30.015 / 30.002	100	60	3	53	134	33	8	M10 x 1.5, 22 Deep
C0621	35.018 / 35.002	120	63	3	55	160	38	10	M12 x 1.75, 22 Deep
C0621 Heavy Duty	45.018 / 45.002	155	98	5	80	195	48.5	14	M12 x 1.75, 22 Deep
C0721	45.018 / 45.002	120	76	3	70	195	48.5	14	M16 x 2, 36 Deep
C0821	60.030 / 60.011	155	120	3	110	255	64	18	M20 x 2.5, 42 Deep
CO921	70.030 / 70.011	170	135	3	125	295	74.5	20	M20 x 2.5, 42 Deep
CO1021	90.035 / 90.013	216	170	3	160	366	95	25	M24 x 3, 50 Deep

SIZE	Extended Output Shaft - Column 11 Entry F								
	d	i2	L	L11	L12	o	t	u	w
C07	45.018/ 45.002	90	90	3	84	235	48.5	14	M16 x 2, 36 Deep
C08	60.030 / 60.011	120	120	3	110	290	64	18	M20 x 2.5, 42 Deep
C09	70.030 / 70.011	140	140	3	125	340	74.5	20	M20 x 2.5, 42 Deep
C010	90.035 / 90.013	170	170	3	160	402	95	25	M24 x 3, 50 Deep

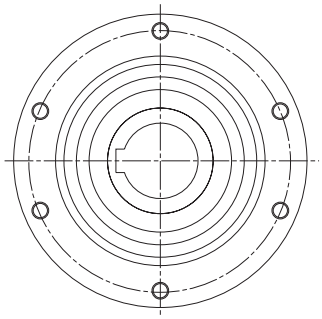
C04, C05, C06 & C08
Eight hole pattern



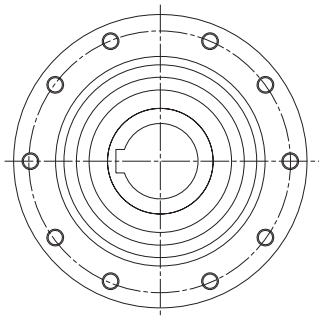
C03
Four hole pattern

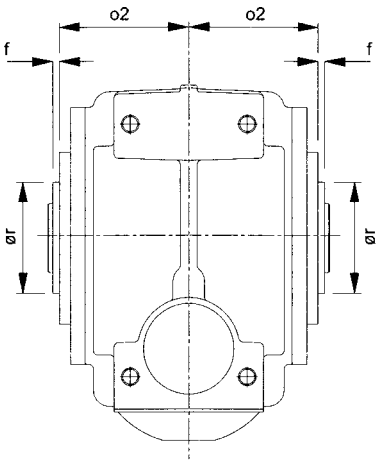


C07 & C09
Six hole pattern

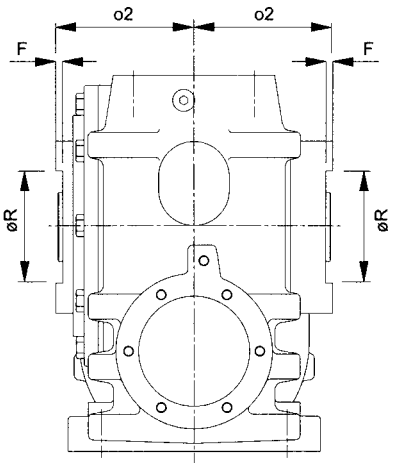


C10
Ten hole pattern





Male spigot
C03 - C06

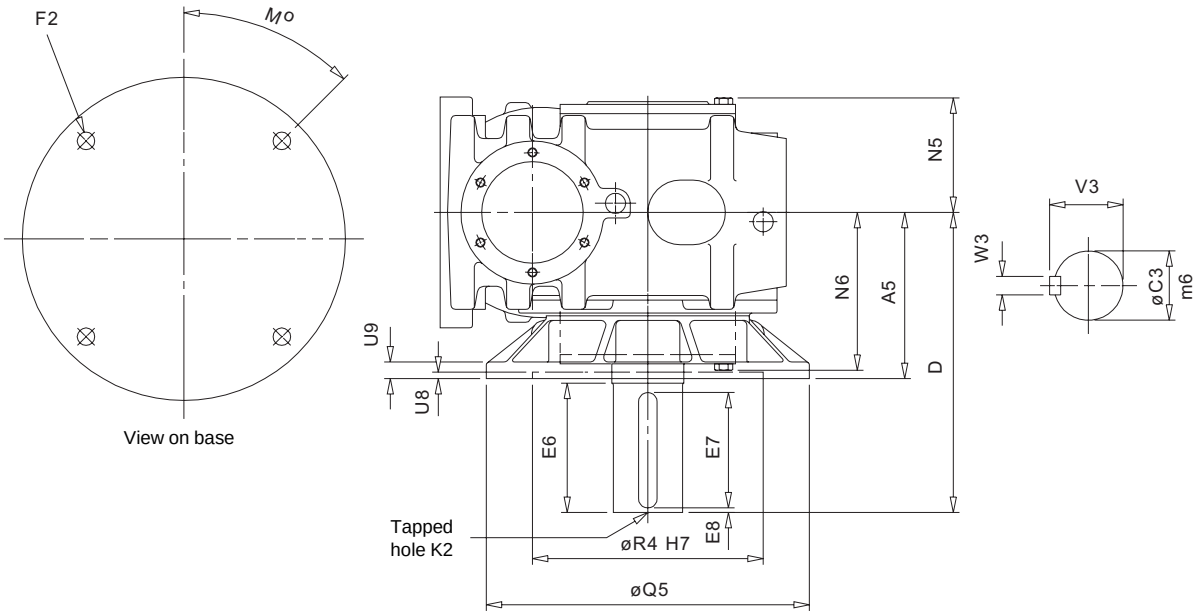


Female recess
C07 - C10

SIZE	øe5	F7	o2	Q	ør h7 spigot ø	øR H7	Spigot f	Recess F
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

0403

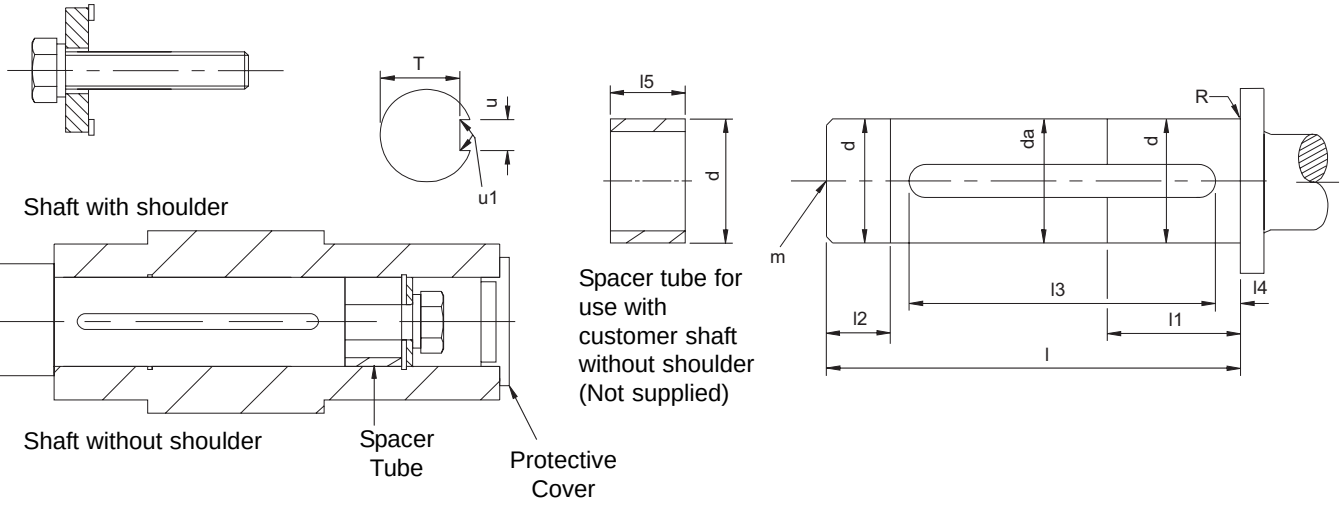
AGITATOR



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

0403

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL

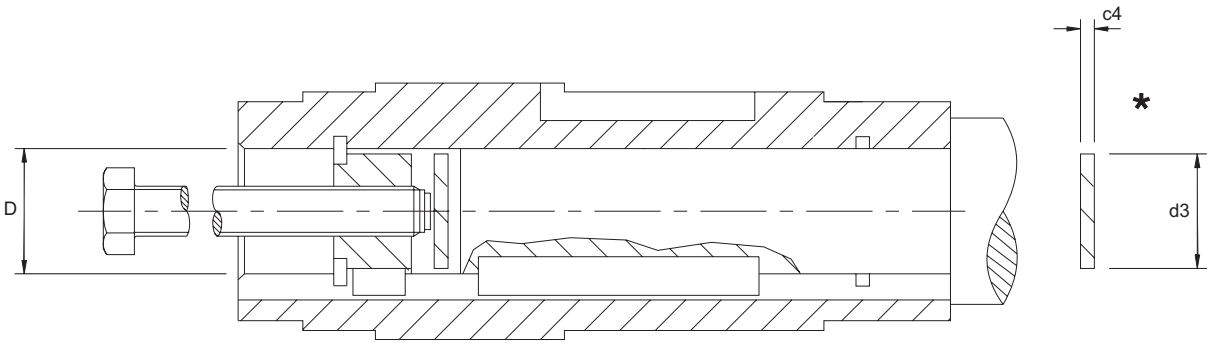


SIZE	Bore	d	da	l	l1	l2	l3	l4	l5	m	N	R	T	u	u1
C03	Std	19.993/ 19.980	19.6	82	30	10	61.3 61.0	3	22	M6 x 1.0 16 deep	8 Nm	0.8R	16.5 16.4	6.000 / 5.970	0.16 0.25R
C04	Reduced	24.993/ 24.980	24.6	99	38	13	79.3 79.0	3	23	M10 x 1.5 22 deep	15 Nm	0.8R	21.0 20.8	8.000 / 7.964	0.16 0.25R
	Std	29.993/ 29.980	29.6	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 / 19.948	0.6 0.4R
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 / 19.948	0.6 0.4R
	Std	89.988 / 89.966	76.6	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	0.8R	90 89.8	28.000/ 27.948	0.4 0.4R

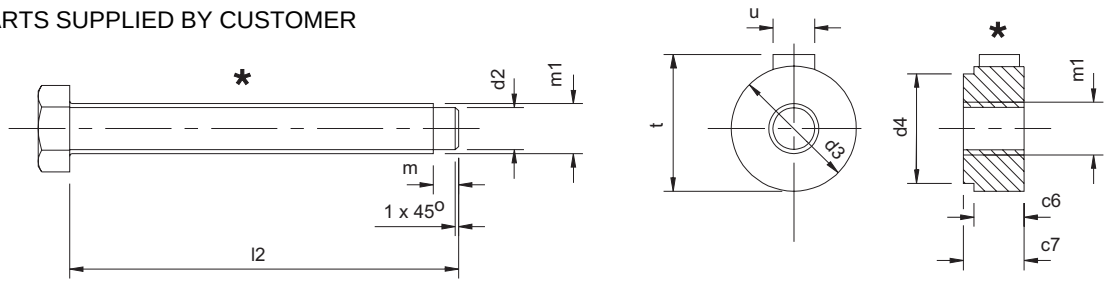
Assembly Instructions

1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent anti-scuffing 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.

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	28	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	18
C08	Reduced	8	24	27	60	26	59.9	47.4	250	5	M30 x 1.5	64	18
	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	28

0403

BASE MOUNT UNITS WITH STANDARD HOLLOW SHAFT

		UNIT SIZE & No OF REDUCTIONS	C0321	C0341	C0421	C0441	C0521	C0541	C0621	C0641	C0721	C0741	C0821	C0841	C0921	C0941	C1021	C1041
		Reducer Version	0.006	0.013	0.008	0.015	0.011	0.022	0.020	0.038	0.038	0.063	0.067	0.102	0.112	0.158	0.195	0.264
		Single Output Shaft *	1.2		1.3		1.3		1.4		1.3		1.4		1.4		1.4	
		Double Output Shaft *	1.5		1.6		1.7		1.9		1.6		1.8		1.8		1.8	
MOTORISED	63	Without Motor	0.004	0.011	0.006	0.013	0.009	0.020		0.034		0.057						
		With Motor	0.009	0.016	0.011	0.019	0.017	0.027		0.046		0.075						
		With Motor & Brake	0.010	0.017	0.012	0.020	0.018	0.029		0.048		0.078						
	71	Without Motor	0.005	0.011	0.006	0.013	0.009	0.020		0.034		0.057						
		With Motor	0.010	0.016	0.011	0.019	0.017	0.028		0.046		0.075						
		With Motor & Brake	0.011	0.017	0.013	0.020	0.018	0.029		0.048		0.079						
	80A	Without Motor	0.005	0.012	0.006	0.014	0.009	0.020	0.016	0.034	0.032	0.058	0.054	0.093	0.090	0.146		0.245
		With Motor	0.010	0.017	0.012	0.020	0.018	0.029	0.029	0.048	0.051	0.078	0.081	0.121	0.128	0.184		0.302
		With Motor & Brake	0.011	0.018	0.014	0.021	0.019	0.031	0.032	0.050	0.056	0.082	0.087	0.127	0.137	0.193		0.315
	80B	Without Motor	0.005	0.012	0.006	0.014	0.009	0.020	0.016	0.034	0.032	0.058	0.054	0.093	0.090	0.146		0.245
		With Motor	0.010	0.017	0.013	0.020	0.018	0.029	0.030	0.048	0.052	0.078	0.082	0.122	0.130	0.186		0.304
		With Motor & Brake	0.012	0.018	0.014	0.022	0.020	0.031	0.033	0.051	0.056	0.083	0.088	0.128	0.139	0.195		0.317
	90S	Without Motor	0.005	0.012	0.006	0.014	0.010	0.020	0.017	0.035	0.033	0.059	0.054	0.094	0.090	0.147		0.248
		With Motor	0.011	0.018	0.013	0.021	0.019	0.030	0.031	0.049	0.054	0.080	0.083	0.124	0.132	0.189		0.309
		With Motor & Brake	0.012	0.019	0.014	0.022	0.020	0.032	0.034	0.052	0.058	0.084	0.089	0.130	0.140	0.198		0.322
	90L	Without Motor	0.005	0.012	0.006	0.014	0.010	0.020	0.017	0.035	0.033	0.059	0.054	0.094	0.090	0.147		0.248
		With Motor	0.011	0.018	0.013	0.021	0.020	0.031	0.032	0.050	0.055	0.081	0.085	0.126	0.134	0.192		0.313
		With Motor & Brake	0.012	0.019	0.015	0.023	0.021	0.032	0.035	0.053	0.059	0.086	0.091	0.132	0.143	0.200		0.325
	90LA	Without Motor	0.005	0.012	0.006	0.014	0.010	0.020	0.017	0.035	0.033	0.059	0.054	0.094	0.090	0.147		0.248
		With Motor	0.012	0.018	0.014	0.021	0.020	0.031	0.032	0.051	0.056	0.082	0.086	0.127	0.136	0.193		0.315
		With Motor & Brake	0.013	0.019	0.015	0.023	0.021	0.033	0.035	0.053	0.060	0.086	0.092	0.133	0.144	0.202		0.327
	100L	Without Motor							0.018		0.034		0.054	0.097	0.091	0.151	0.151	0.250
		With Motor							0.035		0.059		0.090	0.133	0.141	0.202	0.225	0.324
		With Motor & Brake							0.039		0.063		0.097	0.140	0.151	0.211	0.239	0.338
	112M	Without Motor							0.018		0.034		0.054	0.097	0.091	0.151	0.151	0.250
		With Motor							0.036		0.060		0.092	0.134	0.143	0.204	0.228	0.327
		With Motor & Brake							0.040		0.066		0.100	0.143	0.155	0.216	0.246	0.345
	112MA	Without Motor							0.018		0.034		0.054	0.097	0.091	0.151	0.151	0.250
		With Motor							0.037		0.061		0.094	0.137	0.146	0.207	0.233	0.332
		With Motor & Brake							0.041		0.067		0.102	0.145	0.159	0.219	0.250	0.349
	132SA	Without Motor									0.034		0.054		0.091		0.151	0.251
		With Motor									0.065		0.099		0.154		0.244	0.344
		With Motor & Brake									0.072		0.109		0.168		0.264	0.363
	132M	Without Motor									0.034		0.054		0.091		0.151	0.251
		With Motor									0.067		0.102		0.158		0.249	0.348
		With Motor & Brake									0.074		0.111		0.171		0.269	0.368
	132MA	Without Motor									0.026		0.043		0.074		0.127	0.227
		With Motor									0.061		0.093		0.145		0.231	0.330
		With Motor & Brake									0.068		0.102		0.159		0.251	0.350
	132MB	Without Motor									0.034		0.054		0.091		0.151	0.251
		With Motor									0.072		0.108		0.167		0.263	0.363
		With Motor & Brake									0.078		0.118		0.181		0.283	0.382
	160M	Without Motor											0.058		0.096		0.159	
		With Motor											0.110		0.170		0.267	
	160L	Without Motor											0.058		0.096		0.159	
		With Motor											0.115		0.177		0.278	
	180M	Without Motor													0.096		0.159	
		With Motor													0.187		0.292	
	180L	Without Motor													0.096		0.159	
		With Motor													0.193		0.301	
	200L	Without Motor													0.096		0.159	
		With Motor													0.203		0.316	
	225S	Without Motor													0.101		0.166	
		With Motor													0.210		0.325	
	225M	Without Motor													0.101		0.166	
		With Motor													0.214		0.331	

ALL VOLUMES IN m^3 * VOLUMES ARE FOR SHAFT MOUNT UNITS, FOR UNITS FITTED WITH SHAFTS MULTIPLY BY FACTORS SHOWN

0403

BASE MOUNT UNITS WITH STANDARD HOLLOW SHAFT

		UNIT SIZE & No OF REDUCTIONS	C0321	C0341	C0421	C0441	C0521	C0541	C0621	C0641	C0721	C0741	C0821	C0841	C0921	C0941	C1021	C1041
		Reducer Version	11	20	15	23	18	28	32	43	74	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	20	16	24	18	29		44		83						
		With Motor	16	25	20	29	23	33		48		88						
		With Motor & Brake	17	26	21	30	24	34		49		89						
	71	Without Motor	11	20	15	24	18	28		44		83						
		With Motor	18	26	22	30	25	35		50		89						
		With Motor & Brake	19	27	23	31	26	36		51		90						
	80A	Without Motor	12	20	16	24	19	29	31	44	71	83	118	143	174	204		369
		With Motor	21	30	25	34	28	38	41	54	80	93	127	152	183	213		378
		With Motor & Brake	23	32	27	36	30	40	43	56	82	95	129	154	185	215		380
	80B	Without Motor	12	20	16	24	19	29	31	44	71	83	118	143	174	204		369
		With Motor	23	31	27	35	30	40	42	55	82	94	129	154	185	215		380
		With Motor & Brake	25	33	29	37	32	42	44	57	84	96	131	156	187	217		382
	90S	Without Motor	13	21	16	25	19	30	32	45	72	84	118	144	174	205		370
		With Motor	26	35	30	39	33	43	46	58	85	98	131	157	187	218		383
		With Motor & Brake	29	38	33	42	36	46	49	61	88	101	134	160	190	221		386
	90L	Without Motor	13	21	16	25	19	30	32	45	72	84	118	144	174	205		370
		With Motor	27	36	31	40	34	44	47	59	86	99	132	158	188	219		384
		With Motor & Brake	30	39	34	43	37	47	50	62	89	102	135	161	191	222		387
	90LA	Without Motor	13	21	16	25	19	30	32	45	72	84	118	144	174	205		370
		With Motor	33	41	36	45	39	50	52	65	92	104	138	164	194	225		390
		With Motor & Brake	36	44	39	48	42	53	55	68	95	107	141	167	197	228		393
	100L	Without Motor							35		74		120	146	176	207	313	372
		With Motor							59		98		144	170	200	231	337	396
		With Motor & Brake							64		103		149	175	205	236	342	401
	112M	Without Motor							35		74		120	146	176	207	313	372
		With Motor							66		105		151	177	207	238	344	403
		With Motor & Brake							71		110		156	182	212	243	349	408
	112MA	Without Motor							35		74		120	146	176	207	313	372
		With Motor							80		119		165	191	221	252	358	417
		With Motor & Brake							85		124		170	196	226	257	363	422
	132SA	Without Motor									76		123		179		316	374
		With Motor									124		171		227		364	422
		With Motor & Brake									133		180		236		373	431
	132M	Without Motor									76		123		179		316	374
		With Motor									128		175		231		368	426
		With Motor & Brake									137		184		240		377	435
	132MA	Without Motor									76		123		179		316	374
		With Motor									154		201		257		394	452
		With Motor & Brake									163		210		266		403	461
	132MB	Without Motor									76		123		179		316	374
		With Motor									164		211		267		404	462
		With Motor & Brake									173		220		276		413	471
	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 UNITS ADD WEIGHT OF SHAFT (SHOWN AT TOP OF TABLE) TO THE FIGURES SHOWN ABOVE

0205

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 °C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.

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

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

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

5) Lubricants and Lubrication
   (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.

   (b) The lubrication status of the equipment must be checked before commissioning. Read and carry out all instructions on the lubricant plate and in the installation and maintenance literature. Heed all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.

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

7) Installation, Maintenance and Storage
   (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, 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.

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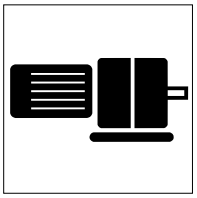
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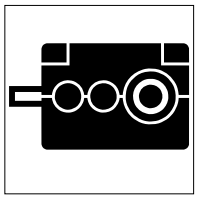
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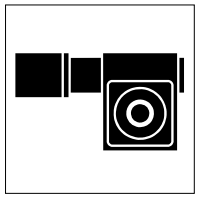
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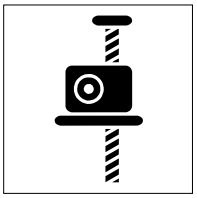
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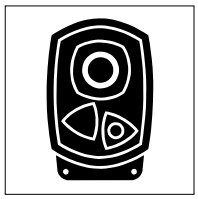
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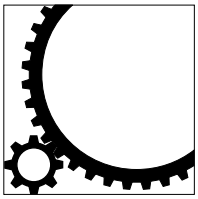
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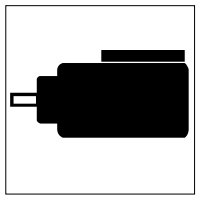
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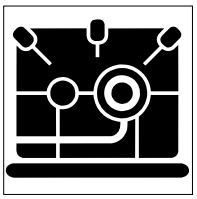
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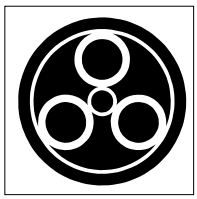
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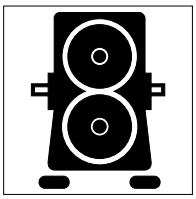
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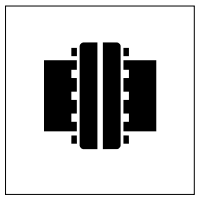
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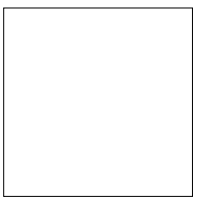
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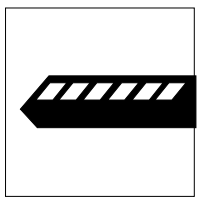
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