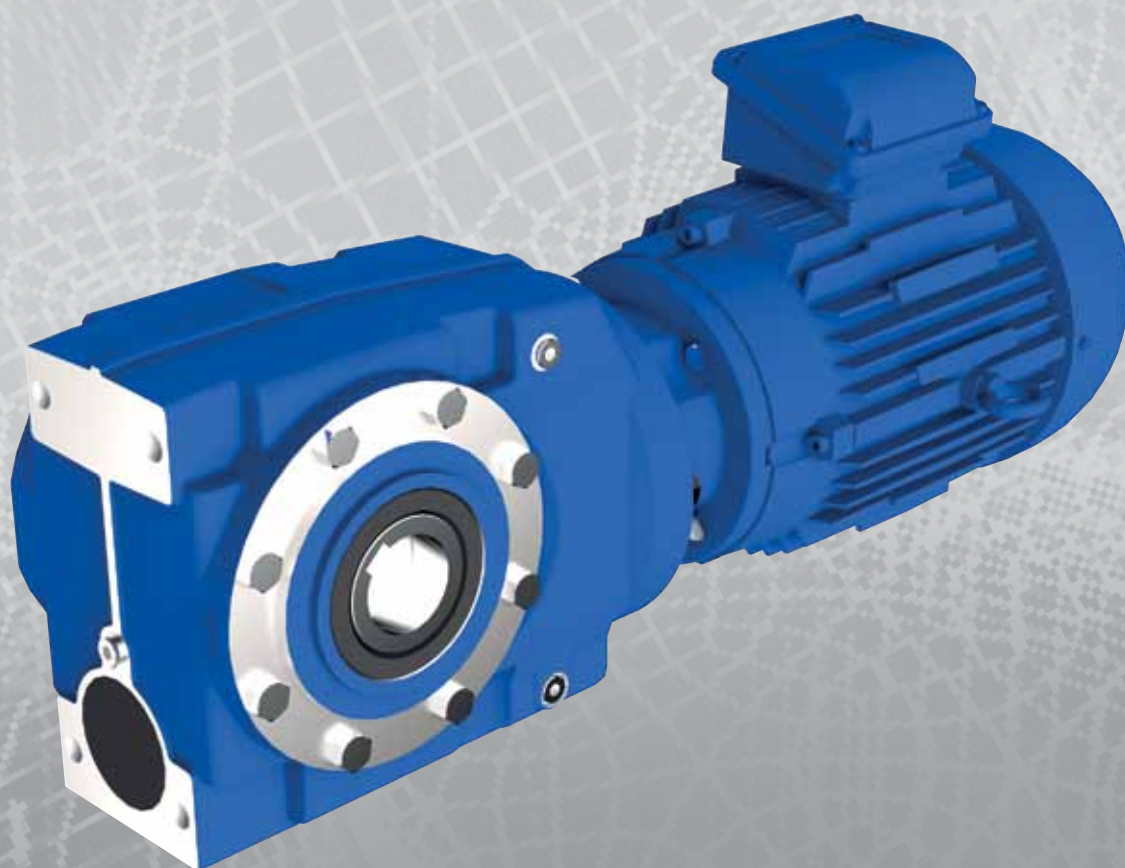


S Series

Helical Worm Gear Units



RENOLD
Superior Gear Technology

ATEX Compliance Assured



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

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

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

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

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S SERIES

GENERAL DESCRIPTION

S Series

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

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

The Range Includes

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

- Version W - Standard Unit (S03 - S06 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 S07 -S10 only)
- Version F/H - Standard Unit with Output Flange
- Version G - Standard Unit with Output Flange Reduced Diameter (size R03 only)
- Version T/Q - Standard Unit with Torque Arm
- Version U - Standard Unit Torque Arm Heavy Duty (S10 only)
- Version A - Agitator (Sizes S07 - S10 only)

Unit Types:

- Unit type M - Motorised with IEC Standard Motor
- Unit type D - Motorised with Compact Motor
- Unit type N - Motorised with NEMA Standard Motor
- Unit type H - Motorised with High Efficiency Motor (IE3)
- Unit type E - Motorised with NEMA High Efficiency Motor (PREMIUM)
- Unit type G - Unit to Allow Fitting of Customers IEC Motor
- Unit type A - Unit to Allow Fitting of Customers NEMA Motor
- Unit type R - Reducer Unit
- Unit type S - Reducer Unit with Fan Kit
- Unit type W - Reducer Unit with Backstop CCW Rotation
- Unit type X - Reducer Unit with Backstop CW Rotation
- Unit type Y - Reducer Unit with Fan and Backstop CW Rotation
- Unit type Z - Reducer Unit with Fan and Backstop CCW Rotation

Design Features Include

Patented standard motor connection (IEC or NEMA).

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

All units are dimensionally interchangeable with other major manufacturers.

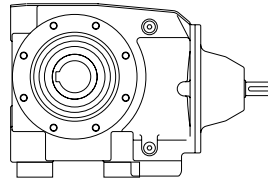
Brake geared motors are available as standard.

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

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

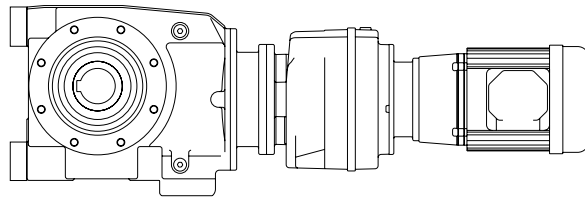
Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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



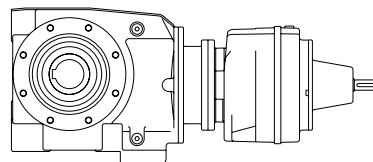
Two stage reduction unit with base mounted feet and hollow output shaft

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



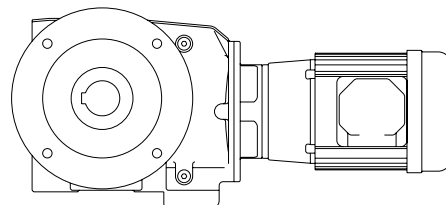
Four stage motorised unit with end mounted feet and hollow output shaft

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

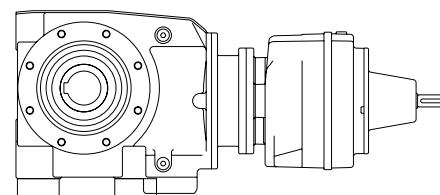


Four stage reduction unit with hollow output shaft

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

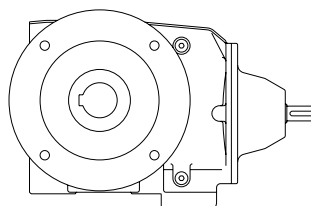


Two stage motorised unit with output flange and single extension output shaft



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

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



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

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

* Typical unit designations

S SERIES

Gear codes													Motor codes																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																						
Example <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr><td>S</td><td>0</td><td>3</td><td>2</td><td>1</td><td>5</td><td>0</td><td>.</td><td>B</td><td>M</td><td>C</td><td>-</td><td>1</td><td>D</td><td>.</td><td>1</td><td>8</td><td>A</td><td>-</td><td>-</td></tr> </table> Additional Gearbox Features Double Oil Seal, Motorised Backstop Etc eg <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>-</td><td>F</td></tr></table>																				S	0	3	2	1	5	0	.	B	M	C	-	1	D	.	1	8	A	-	-	-	F
S	0	3	2	1	5	0	.	B	M	C	-	1	D	.	1	8	A	-	-																						
-	F																																								

1 - S Series

Range

S

2, 3 - Size of Unit

0	3
---	---

 Through

1	0
---	---

4 - No of Reductions

2	3
---	---

4

5 - Revision Version

1

 For Sizes 03 to 10

6,7,8 - Nominal Overall Ratio

eg.

5	0	.
---	---	---

9 - Unit Version

W

 - Standard Unit (S03 - S06 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 S07 - S10 only)

Std Unit with Output Flange

F

 on Left

H

 on Right

G

 - Std Unit with Output Flange Reduced Dia (S03 Only)

Std Unit with Torque Arm

T

 on Left

Q

 on Right

U

 - Std Unit with Torque Arm - Heavy Duty (S10 Only)

10 - Type of Unit

M

 - Motorized with IEC standard motor

D

 - Motorized with Compact motor

N

 - Motorized with NEMA standard motor

H

 - Motorized with IEC high efficiency motor

E

 - Motorized with NEMA high efficiency motor

G

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

A

 - Unit to allow fitting of NEMA motor (customer own motor)

R

 - Reducer unit

S

 - Reducer unit with fan kit

W

 - Reducer unit with backstop CCW rotation

X

 - Reducer unit with backstop CW rotation

Y

 - Reducer unit with fan and backstop CW rotation

Z

 - Reducer unit with fan and backstop CCW rotation

19 - Additional Motor Features

eg

-	A
---	---

For Types Without Motor Enter

-

18 - No of Motor Features

<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>-</td></tr></table> No motor	-	<u>50 Hz</u>	<u>60 Hz</u>	
-				
4 Pole (Std) 1500 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>A</td></tr></table> 1800 rpm	A	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>B</td></tr></table>	B
A				
B				
4 Pole (High) 1500 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>K</td></tr></table> 1800 rpm	K	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>L</td></tr></table>	L
K				
L				
6 Pole (Std) 1000 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>C</td></tr></table> 1200 rpm	C	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>D</td></tr></table>	D
C				
D				
6 Pole (High) 1000 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>M</td></tr></table> 1200 rpm	M	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>N</td></tr></table>	N
M				
N				
2 Pole 3000 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>E</td></tr></table> 3600 rpm	E	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>F</td></tr></table>	F
E				
F				
8 Pole 750 rpm	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>G</td></tr></table> 900 rpm	G	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>H</td></tr></table>	H
G				
H				

S

 Dual Speed or Special Motor

15, 16, 17 - Geared Motor Powers

Motor Power Required

eg

.	7	5
---	---	---

For Reducer or Non-Standard

Motor Types Enter

-	-	-
---	---	---

13, 14 - Mounting Position

eg

2	B
---	---

12 - Motor Adaptor For Unit Types

Column 10 Entries M, N, H, E, G or A

For All Other Types Enter

-

11 - Output Shaft

Standard Single Extension

C

 on Left

E

 on Right

Standard Double Extension

D

Standard Hollow Shaft

H

Unit with Hollow Shaft with Reduced Bore Dia

Z

Heavy Duty Single Extension (Size S06)

J

Heavy Duty Double Extension (Size S06)

K

* This page may be photocopied allowing the Customer to enter their order

S SERIES

EXPLANATION & USE OF RATINGS & SERVICE FACTORS

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

i.e. Equivalent Load = Actual Load x Service Factor

Mechanical ratings and service factor Fm

Mechanical ratings measure capacity in terms of life and/or strength, assuming 10 hr/day continuous running under uniform load conditions.

Catalogue ratings allow 100% overload at starting, braking or momentarily during operation up to 10 hours per day.

The unit selected must therefore have a catalogue rating at least equal to half maximum overload.

Mechanical Service Factor Fm (Table 1) is used to modify the actual load according to daily operating time, and type of loading.

Load characteristics for a wide range of applications are detailed in Table 3 opposite, which are used in deciding the appropriate Service Factor Fm from Table 1.

If overloads can be calculated, or accurately assessed, actual loads should be used instead of Fm.

For units subjected to frequent stop/starts overloads in excess of 10 times/day multiply factor Fm x Factor Fs (table 2).

Table 1. Mechanical Service Factor (Fm)

Prime Mover	Duration of service hrs Per day	Load classification- driven machine		
		Uniform mass acceleration factor < 0.2	Moderate mass acceleration factor < 0.3	Heavy acceleration factor < 10
Electric Motor, Steam Turbine, or Hydraulic Motor	< 3	0.80	1.00	1.50
	3 - 10	1.00	1.25	1.75
	> 10	1.25	1.50	2.00
Multi-cylinder internal combustion engine	< 3	1.00	1.25	1.75
	3 - 10	1.25	1.50	2.00
	> 10	1.50	1.75	2.25
single cylinder internal combustion engine	< 3	1.25	1.50	2.00
	3 - 10	1.50	1.75	2.25
	> 10	1.75	2.00	2.50

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

Starts/ stops per hour	< 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 the Thermal Rating Procedure

S SERIES

LOAD CLASSIFICATION BY APPLICATION

Load Classifications - U =Uniform Load M =Moderate Shock Load H =Heavy Shock Load † =Consult our Engineers

Agitators		Elevators		Machine Tools		Pumps	
Pure liquids	U	Bucket - Uniform load	U	Bending roll	M	Centrifugal proportioning	U
Liquids and solids	M	Bucket - Heavy load	M	Punch press	H	Proportioning	M
Liquids variable density	M	Bucket - Continuous	U	Notching press	H	Reciprocating	
		Centrifugal discharge	U	Plate planer	H	Single acting 3+ cylinders	M
Blowers		Escalators	U	Other machine tools		Double acting 2+ cylinders	M
Centrifugal	U	Freight	M	Main drive	M	Single acting 1 & 2 cylinders	†
Lobe	M	Gravity discharge	U	Aux drive	U	Double acting 1 cylinder	†
Vane	U	Passenger lifts	†			Rotary- gear type	U
				Metal mills		Rotary- lobe type/ vane	U
Brewing & distilling		Fans		Carriage/main drive	M	Sand muller	M
Bottling machinery	M	Centrifugal	U	Draw bench	M		
Brew Kettles	M	Cooling towers		Dryer	M	Sewage treatment	
Cookers	M	Induced draft	†	Flattening machinery	M	Bar screen	U
Mash tubs	M	Forced draft	†	Pinch drive	M	Chemical feeder	U
Scale hopper	M	Fan - Large diameter induced draft	†	Reversing slitters	M	Collector	U
		Fan - Light, small diameter	M	Scrubber rolls	M	Dewatering screw	M
Can filling machinery	M	Feeders		Table conveyors		Mixers	M
		Apron	M	Group drives	H	Scum breaker	M
Crane knife	M	Belt	M	Individual drives	H	Thickness	M
		Disc	U	Table conveyors- reversing	H	Vacuum filters	M
Car dumper	M	Reciprocating	H	Wire draw	M		
		Screw	M	Wire roll	M	Screens	
Car puller	M			Mills		Air washing	U
Clarifier	U	Food industry		Cement kiln	H	Rotary, stone or gravel	M
		Cereal cooker	U	Dryer, Cooler	H	Traveling water intake	U
Classifier	M	Dough mixer	M	Kiln (other)	H		
		Meat grinder	M	Rod plain	H	Slab pushers	M
Clay wokring machinery		Meat slicer	M	Rod wedge bar	H		
Brick press	H	Generators - not welding	U	Rotary/ Ball	H	Slewing	H
Briquette machine	H			Tumbling barrel	H		
Clay working machinery	M	Hammer mills	H	Mixers		Steering gear	†
Plug mill	M			Concrete	M		
Compressors		Hoists		Cons density	U	Stokers	U
Centrifugal	U	Heavy duty	H	Variable density	M		
Lobe	M	Medium duty	M			Sugar industry	
Reciprocating		Skip hoist	M	Oil industry		Can knife	M
Multi cylinder	M	Laundry		Chiller's	M	Crusher	M
Single cylinder	H	Tumbler	M	Oil well pump	M	Mills	M
Conveyors- Light duty uniform load		Washer	M	Filter press	M	Textile industry	
Apron	U	Line shafts		Rotary kiln	M	Batchers	
Assembly	U	Heavy duty	M	Paper industry		Calenders	M
Belt	U	Light duty	U	Agitator (mixer)	M	Cards	M
Bucket	U			Barker (hydraulic)	M	Dry cans	M
Chain	U	Lumber industry		Barker (mechanical)	H	Dryers	M
Flight	U	Barkers	M	Barking drum	H	Dyeing machinery	M
Oven	U	Burner conveyor	H	Beater & Pulper	M	Knitting machinery	M
Screw	U	Chain/ Drag saw	H	Bleacher	U	Looms	M
		Chain transfer	H	Calednders	M	Mangles	M
Conveyors - Heavy duty uniform load		Chain way transfer	H	Calenders- super	H	Nappers	M
Apron	M	De- barking drum	H	Converting machine	M	Pads	M
Assembly	M	Edger feed	M	Conveyors	U	Range drive	M
Belt	M	Gang feed	M	Couch	M	Slashers	M
Bucket	M	Green chain	M	Cutters - plates	H	Soapers	M
Chain	M	Live roll	H	Cylinders	M	Spinners	M
Flight	M	Log deck	H	Dryers	M	Tenter frame	M
Live roll	†	Log haul	H	Felt stretchers	M	Washers	M
Oven	M	Log turning	H	Felt whipper	H	Winders	M
Reciprocating	M	Log conveyer	H	Jordans	M	Windlass	†
Screw	M	Of bearing roll	M	Log haul	H		
Shaker	M	Planer feed chaines	M	Machine real	M		
		Planer hoist	M	Presses	M		
Cranes	†	Re-saw conveyor	M	Stock chest	M		
		Roll cases	H	Suction roll	M		
Crusher		Slab conveyor	M	Washers & thickeners	M		
Ore	H	Sorting table - triple hoist	H	Winders	M		
Stone	H	Triple hoist - Drive /conveyor	M				
Sugar	H	Transfer conveyor	M	Printing presses	†		
		Transfer roll	M				
Dredger	M	Tray drive	M	Pullers			
Cable reals	M	Trimmer feed	M	Barge haul	H		
Conveyors	M	Waster conveyor	M				
Cutter head drive	H	Small waste conveyor (belt)	U				
Pumps	M	Small waste conveyor (chain)	U				
Screen drive	H						
Stackers	M						
Winches	M						

S SERIES

SELECTION PROCEDURE FOR MOTORISED UNITS

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine	=	0.7 kW
Output speed of gearbox or Input speed of machine	=	68 rev/min
Application	=	Uniformly loaded belt conveyor
Duration of service (hours per day)	=	24hrs
Mounting position	=	1
Ambient temperature	=	20°C
Running time (%)	=	100%

Note!

If you select a S Series Reducer for use without TEFC motor, A thermal check must be made.

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

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

Application = Uniformly loaded belt conveyor

Conveyors-uniformly loaded or fed

apron	U	U = Uniform load
assembly	U	
belt	U	
bucket	U	
chain	U	

Refer to mechanical service factor (Fm)

Duration of service (hours per day) = 24hrs

Prime mover	Duration of service per day	Load classification	
		Uniform	Moderate
Electric motor, steam turbine or hydraulic motor	< 3	0.80	1.00
	3 - 10	1.00	1.25
	> 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

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUT SHAFT

Absorbed output torque = Absorbed power x 9550 / 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.

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	S 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

S SERIES

SELECTION PROCEDURE FOR MOTORISED UNITS

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 4 POLE	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output SPEED	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
	74	19.12	78	1.27	2821	S 0 3 2 1 1 8 . _ M _ _ _ . 7 5 A - -	19.5	80A
	69	20.61	84	1.2	2821	2 0 .		
	64	22.11	80	1.18	2821	2 2 .		

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

1.1 kW 4 POLE	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output SPEED	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
	74	19.12	115	0.86	2800	S 0 3 2 1 1 8 . _ M _ _ _ . 1 - 1 A - -	24.5	90S
	68	20.61	123	0.82	2800	2 0 .		
	64	22.11	117	1.8	2800	2 2 .		

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

5 CHECK SERVICE FACTOR

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

Required service factor of gearbox = 1.25

1.1 kW 4 POLE	N2 R/MIN	i	M2 Nm	Fm	N	UNIT DESIGNATION	Kg	
	Output SPEED	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of Base Mount Unit	Motor Frame Size
	74	19.12	115	0.86	2800	S 0 3 2 1 1 8 . _ M _ _ _ . 1 - 1 A - -	24.5	90S
	68	20.61	123	0.82	2800	2 0 .		
	64	22.11	117	0.8	2800	2 2 .		
	86	16.36	91	1.57	5275	S 0 4 2 1 1 6 . 0 _ M _ _ _ . 1 - 1 A - -	26.5	90S
	74	19.12	117	1.43	5275	S 0 4 2 1 1 8 . 0		
	68	20.61	125	1.36	5275	S 0 4 2 1 2 0 . 0		
	64	22.11	121	1.28	5275	S 0 4 2 1 2 2 . 0		

The service factor (Fm) is only 0.82, therefore this unit is not acceptable and a larger S0421 unit must be selected with a service factor (Fm) of 1.36

5 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, and compare with allowable overhung load (N) of selected unit

Allowable overhung load (N) must be equal or more than calculated overhung load (P)

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

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

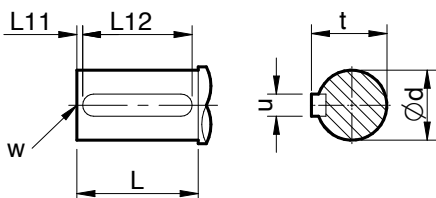
a) Inertia of the Driven Machine (Referred to motor speed) >10
Inertia of Gear Unit plus the Motor

b) Ambient temperature is above 40°C

S SERIES

OUTPUT OPTIONS

OUTPUTSHAFT OPTIONS. COLUMN 11 ENTRY



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

Column 11 Entry

Standard Single Extension C on Left E on Right

Standard Double Extension D

Std Heavy Duty Single Extension (Size S06) J

Std Heavy Duty Double Extension (Size S06) K

Inch Single Extension N on Left B on Right

Inch Double Extension P

Inch Heavy Duty Single Extension (Size S06) L

Size	Type of Output Shaft	Column 11 Entry	Dimensions in mm (Inch shaft in inches)						
			Ød	L	L11	L12	t	u	w
S03	Metric - Standard	C, E, D	20.015 / 20.002	35	3	31.2	2.5	6	M6 x 1.0 x 16
	Inch	N, B, P	0.7500" / 0.7495"	1.38"	*	1.28"	0.83"	0.19"	1/4 UNF x 0.63"
S04	Metric - Standard	C, E, D	25.015 / 25.002	46	3	42	28	8	M10 x 1.5 x 22
	Inch	N, B, P	1.0000" / 0.9995"	1.81"	*	1.69"	1.10"	0.25"	1/4 UNF x 0.63"
S05	Metric - Standard	C, E, D	30.015 / 30.002	60	3	53	33	8	M10 x 1.5 x 22
	Inch	N, B, P	1.2500" / 1.2494"	2.36"	*	2.125"	1.36"	0.25"	3/8 UNF x 0.87"
S06	Metric - Standard	C, E, D	35.018 / 35.002	63	3	55	38	10	M12 x 1.75 x 22
	Metric - Heavy Duty	J, K	45.018 / 45.002	98	5	80	48.5	14	M16 x 2.0 x 36
	Inch	N, B, P	1.3750" / 1.3744"	2.48"	*	2.34"	1.51"	0.313"	1/2 UNF x 1.125"
	Inch - Heavy Duty	L	1.7500" / 1.7494"	3.86"	*	3.75"	1.92"	0.375"	5/8 UNF x 1.44"
S07	Metric - Standard	C, E, D	45.018 / 45.002	76	3	70	48.5	14	M16 x 2.0 x 36
	Inch	N, B, P	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5/8 UNF x 1.44"
S08	Metric - Standard	C, E, D	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42
	Inch	N, B	2.3750" / 2.3744"	4.72"	*	4.125"	2.646"	0.625"	3/4 UNF x 1.75"
	Inch - Double Ext	P	2.3125" / 2.3115"	4.72"	*	4.125"	2.582"	0.625"	3/4 UNF x 1.75"
S09	Metric - Standard	C, E, D	70.030 / 70.011	135	3	125	74.5	20	M20 x 2.5 x 42
	Inch	N, B	2.8750" / 2.8740"	5.12"	*	4.5"	3.20"	0.75"	3/4 UNF x 1.75"
	Inch - Double Ext	P	2.6875" / 2.6865"	5.12"	*	4.5"	2.963"	0.625"	3/4 UNF x 1.75"
S10	Metric - Standard	C, E, D	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50
	Inch	N, B	3.6250" / 3.6240"	6.69"	*	5.875"	4.009"	0.875"	1 UNF x 2.25"
	Inch - Double Ext	P	3.1875" / 3.1865"	6.69"	*	5.875"	3.518"	0.750"	1 UNF x 2.25"

S SERIES

OUTPUTBORE OPTIONS

OUTPUT BORE OPTIONS, COLUMN 11 ENTRY

Column 11 Entry

Metric Hollow Shaft

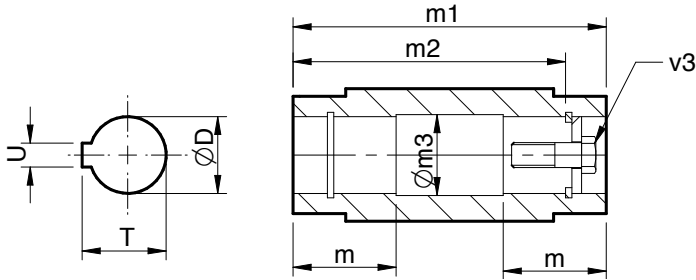
H

Inch Hollow Shaft

A

Metric Hollow Shaft with
reduced bore diameter

Z



Size	Type of Bore	Column 11 Entry	Dimensions in mm (Inch shaft in inches)							
			ØD	m	m1	m2	Øm3	T	U	v3
S03	Standard	H	20.021/20.000	52	124	104	20.2	22.9	6	M6 x 1.0 x 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"
S04	Standard	H	30.021/30.000	54	130	122	30.2	33.5	8	M10 x 1.5 x 50
	Reduced Dia	Z	25.021/25.000	54	130	125	25.2	28.5	8	M10 x 1.5 x 50
	Inch	A	1.2510"/1.2500"	2.13"	5.12"	4.81"	1.26"	1.37"	0.25"	3/8" UNF x 2"
S05	Standard	H	35.025/35.000	56	140	127	35.3	38.5	10	M12 x 1.75 x 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"
S06	Standard	H	45.025/45.000	70	180	156	45.3	49	14	M16 x 2.0 x 70
	Reduced Dia	Z	40.025/40.000	70	180	156	40.3	43.5	12	M16 x 2.0 x 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"
S07	Standard	H	60.030/60.000	79	218	188	60.5	64.6	18	M20 x 2.5 x 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"
S08	Standard	H	70.030/70.000	90	250	220	70.5	75.1	20	M20 x 2.5 x 80
	Reduced Dia	Z	60.030/60.000	90	250	220	60.5	64.6	18	M20 x 2.5 x 80
	Inch	A	2.3760"/2.3750"	3.54"	9.84"	8.68"	2.40"	2.66"	0.625"	3/4" UNF x 3"
S09	Standard	H	90.035/90.000	107.5	300	265	90.5	95.6	25	M24 x 3.0 x 110
	Reduced Dia	Z	70.030/70.000	107.5	300	270	70.5	75.1	20	M20 x 2.5, x100
	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"
S10	Standard	H	100.035/100.000	132.5	350	313	100.5	106.6	28	M24 x 3.0 x 110
	Reduced Dia	Z	80.030/80.000	132.5	350	313	80.5	85.6	22	M20 x 2.5 x 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"

S SERIES

MOTOR ADAPTERS

IEC AND NEMA

Double Reduction Units

Compact Motor - Column 12 Entry - D

Power	S0321		S0421		S0521		S0621		S0721		S0821	
	8.0 - 28.	36. - 40.	32.	45. - 250	8.0 - 28.	36. - 40.	32.	45. - 250	8.0 - 28.	36. - 40.	32.	45. - 250
0.25 kW	•	•	•	•	•	•	•	•	•	•	•	•
0.37 kW	•	•	•	•	•	•	•	•	•	•	•	•
0.55 kW	•	•	•	•	•	•	•	•	•	•	•	•
0.75 kW	•	•	•	•	•	•	•	•	•	•	•	•
1.1 kW	•	•	•	•	•	•	•	•	•	•	•	•
1.5 kW	•	•	•	•	•	•	•	•	•	•	•	•
2.2 kW	•	•	•	•	•	•	•	•	•	•	•	•
3.0 kW	•	•	•	•	•	•	•	•	•	•	•	•
4.0 kW	•	•	•	•	•	•	•	•	•	•	•	•
5.5 kW	•	•	•	•	•	•	•	•	•	•	•	•
7.5 kW	•	•	•	•	•	•	•	•	•	•	•	•

Standard Motor IEC Flanges B14 - Column 12 Entry

Motor	S0321		S0421		S0521		S0621		S0721	
	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	H	H	H	H	-	H	-	-	-	-
80	B	K	B	K	B	K	-	G	-	G
90	D	R	D	R	D	R	Z	J	-	J
100	E	S	E	S	E	S	B	L	B	L
112	E	S	E	S	E	S	B	L	B	L
132	-	-	-	-	-	-	-	-	D	N

Standard Motor IEC Flanges B5 - Column 12 Entry

Motor	S0321		S0421		S0521		S0621		S0721		S0821		S0921		S1021	
	8.0 - 28.	36. - 40.	32.	45. - 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
63	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 Motor C Face - Column 12 Entry

Motor	S0321		S0421		S0521		S0621		S0721		S0821		S0921		S1021	
	8.0 - 28.	36. - 40.	32.	45. - 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
56c	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

S SERIES

MOTOR ADAPTERS

IEC AND NEMA

Triple Reduction Units

Compact Motor - Column 12 Entry - D

Power	S0331		S0431		S0531		S0631		S0731	
	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
0.25 kW	•	•	•	•	•	•	-	•	-	-
0.37 kW	•	•	•	•	•	•	-	•	-	-
0.55 kW	•	•	•	•	•	•	•	•	-	•
0.75 kW	•	•	•	•	•	•	•	•	-	•
1.1 kW	•	-	•	-	•	-	•	-	•	•
1.5 kW	•	-	•	-	•	-	•	-	•	•
2.2 kW	-	-	-	-	-	-	-	-	•	•
3.0 kW	-	-	-	-	-	-	-	-	•	•
4.0 kW	-	-	-	-	-	-	-	-	•	-
5.5 kW	-	-	-	-	-	-	-	-	•	-
7.5 kW	-	-	-	-	-	-	-	-	-	-

Standard Motor IEC Flanges B14 - Column 12 Entry

Motor	S0331		S0431		S0531		S0631		S0731	
	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	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

Standard Motor IEC Flanges B5 - Column 12 Entry

Motor	S0331		S0431		S0531		S0631		S0731	
	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	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 Motor C Face - Column 12 Entry

Motor	S0331		S0431		S0531		S0631		S0731	
	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	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	-

S SERIES

MOTOR ADAPTERS

IEC AND NEMA

Quadruple Reduction Units

Compact Motor - Column 12 Entry - D

Power	S0341	S0441	S0541	S0641	S0741	S0841		S0941		S1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
0.25 kW	•	•	•	•	•	-	-	-	-	-	-
0.37 kW	•	•	•	•	•	-	-	-	-	-	-
0.55 kW	•	•	•	•	•	-	•	-	•	-	-
0.75 kW	•	•	•	•	•	-	•	-	•	-	-
1.1 kW	-	-	-	-	-	•	•	•	•	-	•
1.5 kW	-	-	-	-	-	•	•	•	•	-	•
2.2 kW	-	-	-	-	-	•	•	•	•	-	•
3.0 kW	-	-	-	-	-	•	•	•	•	-	•
4.0 kW	-	-	-	-	-	•	-	•	-	-	•
5.5 kW	-	-	-	-	-	•	-	•	-	-	•
7.5 kW	-	-	-	-	-	-	-	-	-	-	•

Standard Motor IEC Flanges B14 - Column 12 Entry

Motor	S0341	S0441	S0541	S0641	S0741	S0841		S0941		S1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
71	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

Standard Motor IEC Flanges B5 - Column 12 Entry

Motor	S0341	S0441	S0541	S0641	S0741	S0841		S0941		S1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560+
63	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	-

NEMA Motor C Face - Column 12 Entry

Motor	S0341	S0441	S0541	S0641	S0741	S0841		S0941		S1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
56c	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

S SERIES

LUBRICATION

Lubricant and Quantity

Unit sizes S03, 04, 05 and 06 are factory filled with a grade 6G lubricant.

Unit sizes S07, 08, 09 and 10 will be despatched without oil.

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

The grade and level are determined from the operating speed of the gear unit and the ambient temperature range, which if not given when ordering will be assumed to be 1450 rev / min input and ambient temperature range 0 to 35°C. Oil grades and oil level should always be checked before installation, Consult the Installation and Maintenance instructions provided with the gear unit.

To determine the oil grade refer to table 1, and then refer to the Installation and Maintenance instructions to select an approved lubricant

To determine the oil capacity refer to appropriate table 2 or 3. Oil capacities are only approximate and units should be filled until oil escapes from the level plug holes. Do not overfill as excess will cause overheating and leakage.

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

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

 If not stated with the order these are the operating conditions that will be assumed

Table 1 S Series oil grades

Gear unit details			Ambient temperature range		
Type	Gear unit details	Input Speed (Rev/min)	-30°C - 20°C	0°C - 35°C	20°C - 50°C
Doubles	Ratio 8 - 18	0 - 750	6G	6G	8G
		0>750 - 2000	5G	6G	7G
		>2000 - 3000	4G	6G	6G
	20 - 36	0 - 2000	6G	6G	8G
		>2000 - 3000	5G	6G	7G
	40 - 250	0 - 3000	6G	6G	8G
Quadruples	< - 2800	0 - 750	6G	7G	9G
		>750 - 3000	6G	6G	8G
	3200 - 16000	0 - 3000	6G	7G	9G

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

Table 2 lubricant quantity (Litres) (double reduction and final stage quadruple reduction)

Double, Triple & Final stage Quadruple Reduction														
Size		S0321	S0331	S0421	S0431	S0521	S0531	S0621	S0631	S0721	S0731	S0821	S0921	S1021
Mounting position	1	Level 1 *	0.3	0.4	0.4	0.5	0.7	0.9	1.5	2.1	4.5	4.8	7.1	28
		Level 2 *									3.0	3.8	5.9	17
	2		0.5	0.8	0.7	0.9	1.0	1.4	2.3	2.5	3.5	3.7	6.2	21
	3		0.5	0.8	0.7	0.9	1.0	1.4	2.2	2.5	3.5	3.7	6.2	21
	4	Level 1 *	0.7	1.2	1.0	1.5	1.4	2.1	3.1	4.0	5.1	5.9	9.5	26
		Level 2 *									3.0	3.6	4.8	14
	5		0.6	1.0	0.9	1.3	1.4	2.0	3.0	4.6	5.6	6.6	9.6	31
	6	Level 1 *	0.7	1.2	1.0	1.5	1.4	1.9	3.2	4.0	7.4	9.2	12	42
		Level 2 *									5.1	6.9	9.5	28

* Use Level 1 for output speeds lower than 100 rpm

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

Table 3 lubricant quantity (Litres) (primary stage quadruple reduction)

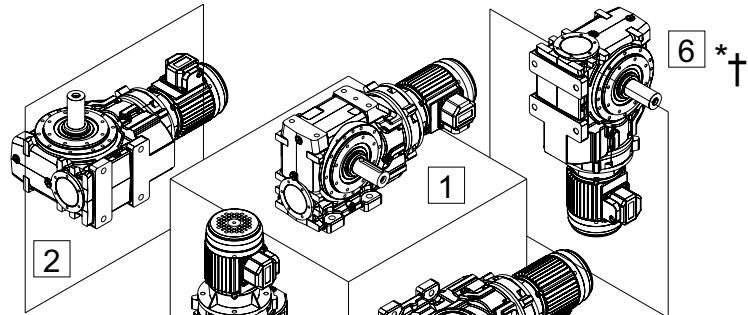
Primary stage quadruple reduction								
Size	S0341	S0441	S0541	S0641	S0741	S0841	S0941	S1041
Secondary unit (Lubricant quantity see table 2)	S0321	S0421	S0521	S0621	S0721	S0821	S0921	S1021
Primary unit	R0122	R0122	R0122	R0322	R0322	R0522	R0522	R0722
Primary Quantity (unit lubricant)	1 to 4	0.5	0.5	0.5	0.8	0.8	1.5	2.6
	5 & 6	1.0	1.0	1.0	1.4	1.4	2.6	4.7

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

S SERIES

MOUNTING POSITIONS

Column 13 Entry

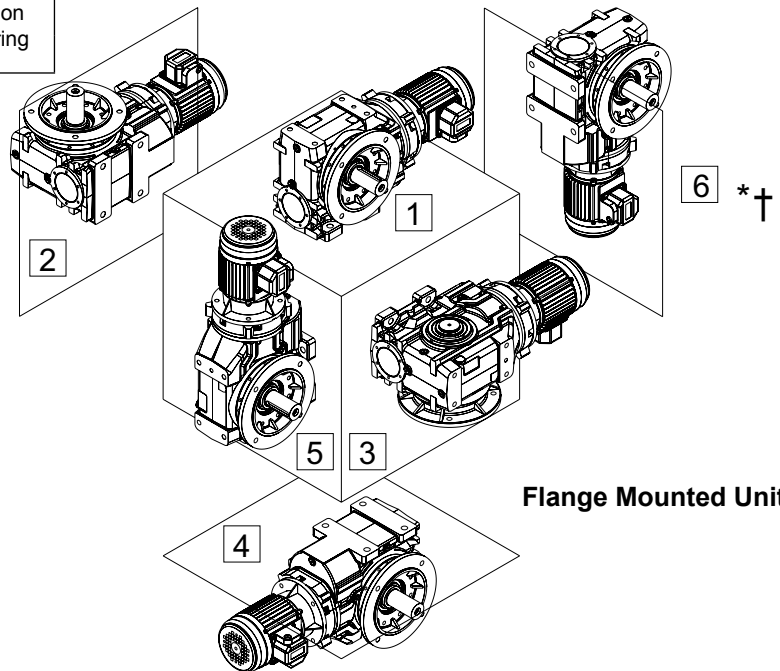


* Mounting Position 6 is not recommended for geared motors
- Consult Application Engineering

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

Size	Input speed (RPM)			
	1000	1500	1800	>1800
S03-S08	All	All	All	Consult application engineering
S09	18:1	18:1	25:1	
S10	18:1	40:1	63:1	

Base Mounted Units

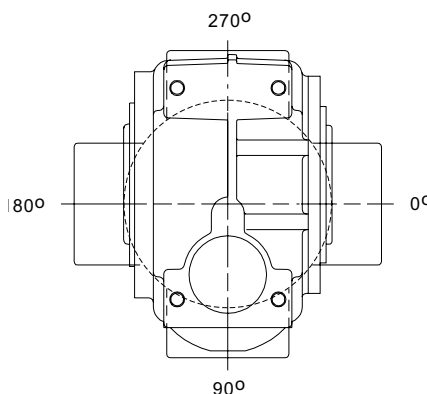


Flange Mounted Units

Mounting Positions- Shown as Motorised - Applies also for Reducers

COLUMN 14 ENTRY

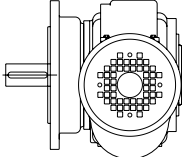
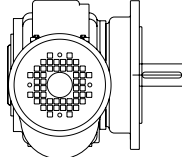
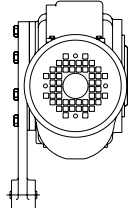
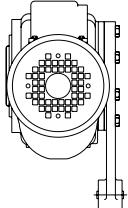
All motors

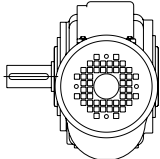
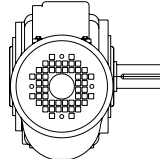
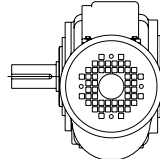
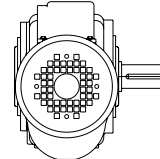
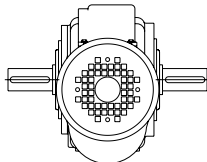
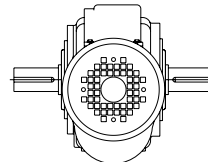
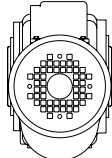
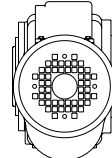


Column 14 entry	Terminal box position
A	0°
B	90°
C	180°
D	270°
-	Reducer or no motor fitted

S SERIES

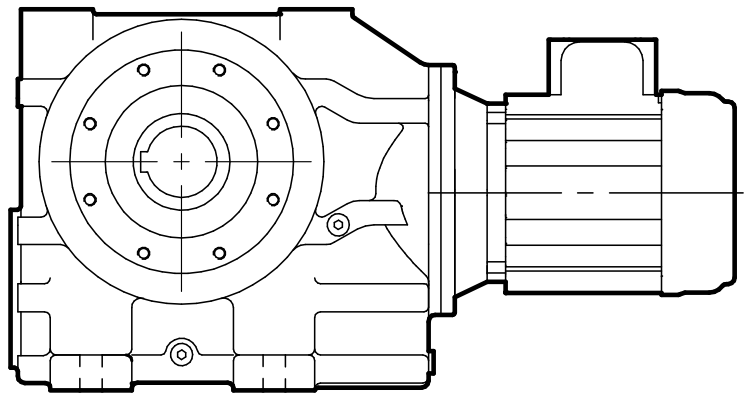
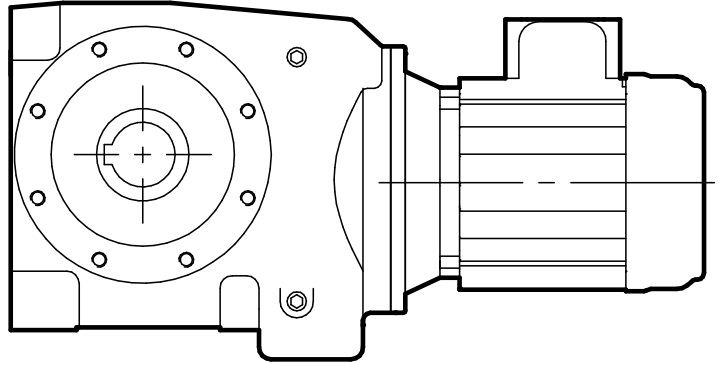
UNIT HANDINGS

Column 9 entry	Left	Right
Std unit with foutput flange	F 	H 
Std unit with Torque bracket	T 	Q 

Column entry 11	Metric		Inch	
	Left	Right	Left	Right
Single output shaft	C 	E 	N 	B 
Double output shaft	D 		P 	
Hollow shaft	H 		A 	

S SERIES

NOTES



MOTORISED
S SERIES

S SERIES

MOTOR

PERFORMANCE DATA

TEFC Squirrel Cage 3 Phase Motors
4 poles = 1500 rpm 400V, 50Hz, S1
IP55, Class F

P (kW)	Frame Size	n RPM	I (A)	Ist / I	Tst / T	J (kgm ²)
0.12	63	1360	0.6	2.6	2.5	0.0004
0.18	63	1370	0.72	3.0	2.2	0.0005
0.25	71	1370	0.65	3.5	2.0	0.0007
0.37	71	1380	0.88	4.0	2.1	0.0009
0.55	80	1420	1.45	5.0	2.0	0.0015
0.75	80	1420	1.8	5.3	2.7	0.0020
1.1	90S	1430	2.4	6.2	2.7	0.0045
1.5	90L	1430	3.3	6.3	2.7	0.0053
2.2	100L	1450	4.7	6.4	2.9	0.0085
3.0	100L	1450	6.3	7.7	2.9	0.0110
4.0	112M	1450	8.2	7.0	2.9	0.0125
5.5	132S	1450	11.1	5.9	2.0	0.033
7.5	132M	1450	14.8	5.6	2.0	0.036
11	160M	1460	21	6.7	2.2	0.081
15	160L	1460	28.5	7.1	2.6	0.099
18.5	180M	1470	35	7.2	2.6	0.166
22	180L	1470	41	7.3	2.6	0.195
30	200L	1470	56	6.7	2.2	0.31
37	225S	1470	68	7.1	2.6	0.36
45	225M	1480	83	7.5	2.7	0.44
55	250M	1480	98	7.5	2.6	0.77
75	280S	1480	134	6.8	2.5	1.25
90.0	280M	1480	160	7.1	2.5	1.50
110	315S	1480	195	7.7	2.4	2.30
132	315M	1480	232	7.2	2.4	2.60
160	315L	1480	284	7.2	2.4	2.90

TEFC Squirrel Cage 3 Phase Motors
6 poles = 1000 rpm 400V, 50Hz, S1
IP55, Class F

P (kW)	Frame Size	n RPM	I (A)	Ist / I	Tst / T	J (kgm ²)
0.12	63	900	0.57	2.1	2.1	0.0007
0.18	71	900	0.6	3.1	2	0.0009
0.25	71	920	0.77	3.4	2.1	0.0011
0.37	80	920	1.09	3.6	2.2	0.0019
0.55	80	920	1.51	3.8	1.8	0.0024
0.75	90S	930	2.36	4.5	1.8	0.005
1.1	90L	930	3	4	2.3	0.006
1.5	100L	940	3.8	4	1.9	0.009
2.2	112M	940	5.5	4.5	1.7	0.125
3	132S	960	8	5.5	1.8	0.033
4	132M	960	10	4.6	1.7	0.038
5.5	132M	960	12.9	5.1	2	0.045
7.5	160M	970	15.4	7.4	1.7	0.087
11	160L	970	23	7.5	1.9	0.114
15	180L	970	31	6.5	1.8	0.192
18.5	200L	980	36	6.7	2.2	0.380
22	200L	980	43	6.6	2.2	0.440
30	225M	985	56	7	2.6	0.660
37	250M	985	69	6.8	2.7	1.16
45	280S	985	85	7	2.5	1.85
55	280M	985	100	7	2.7	2.20
75	315S	985	139	7.4	2.4	3.20
90	315M	985	163	7.5	2.4	4.10
110	315L	985	201	7.4	2.5	4.90
132	315L	985	240	7.5	2.7	5.60

Key

I = Nominal current Ist/I = Starting current factor Tst/T = Starting torque factor J = Motor moment of inertia
P = Rated output power n = Motor speed T = Rated output torque

Recalculation Factors Fv

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

50 Hz	Fv
220V	1.82
230V	1.74
415V	0,96
500V	0,80
660V	0,61
690V	0,58

60 Hz Operation

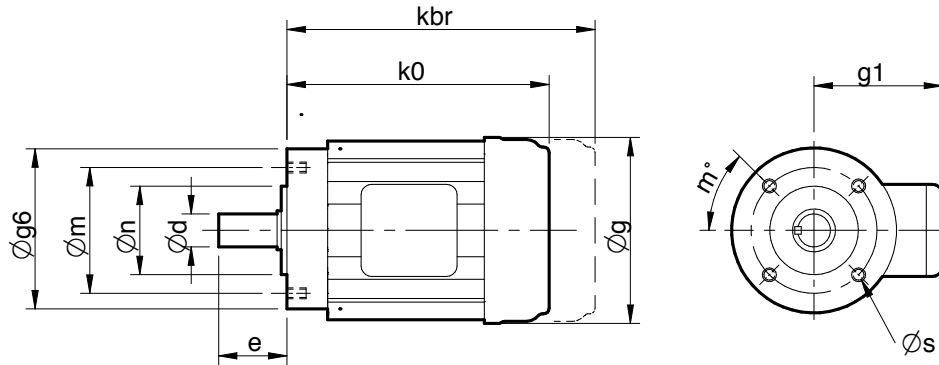
Motors wound for a certain voltage at 50 Hz can be operated at 60 Hz, without any modifications, subject to the following changes in their data

60 Hz	P (kW)	n RPM	I (A)	Ist (I)	T (Nm)	Tst (T)
380V	100%	120%	100%	80%	83%	66%
400V	100%	120%	98%	83%	83%	70%
415V	105%	120%	100%	8%8	86%	78%
440V	110%	120%	100%	95%	91%	85%
460V	115%	120%	100%	100%	96%	95%
480V	120%	120%	100%	105%	100%	100%

S SERIES

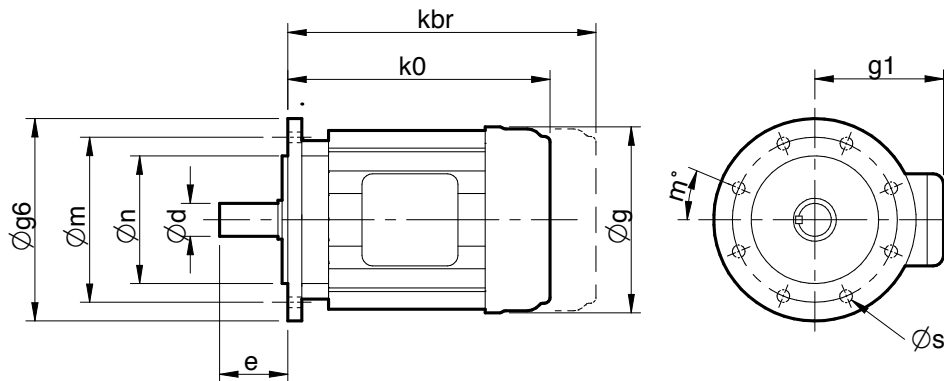
MOTOR DETAILS

B14 'C' face



Size	Øg6	Øm	Øn	Ød	e	ko	kbr	Øg	g1	m	Øs
71	105	85	70	14	30	220	270	140	105	45 deg	4xM6
80	120	100	80	19	40	240	290	158	122	45 deg	4xM6
90S	140	115	95	24	50	260	310	180	129	45 deg	4xM8
90L	140	115	95	24	50	280	330	180	129	45 deg	4xM8
100L	160	130	110	28	60	310	375	198	152	45 deg	4xM8
112M	160	130	110	28	60	330	405	222	165	45 deg	4xM8
132S	200	165	130	38	80	380	475	260	185	45 deg	4xM10
132M	200	165	130	38	80	420	505	260	185	45 deg	4xM10

B5 'D' face



Size	Øg6	Øm	Øn	Ød	e	ko	kbr	Øg	g1	m	Øs
63	140	115	95	11	23	195	260	125	100	45 deg	4x9 (M8)
71	160	130	110	14	30	220	270	140	105	45 deg	4x9 (M8)
80	200	165	130	19	40	240	290	158	122	45 deg	4x11 (M10)
90S	200	165	130	24	50	260	310	180	129	45 deg	4x11 (M10)
90L	200	165	130	24	50	280	330	180	129	45 deg	4x11 (M10)
100L	250	215	180	28	60	310	375	198	152	45 deg	4x14 (M12)
112M	250	215	180	28	60	330	405	222	165	45 deg	4x14 (M12)
132S	300	265	230	38	80	380	475	260	185	45 deg	4x14 (M12)
132M	300	265	230	38	80	420	505	260	185	45 deg	4x14 (M12)
160M	350	300	250	42	110	480	565	320	264	45 deg	4x18 (M16)
160L	350	300	250	42	110	530	615	320	264	45 deg	4x18 (M16)
180M	350	300	250	48	110	560	-	360	279	45 deg	4x18 (M16)
180L	350	300	250	48	110	595	-	360	279	45 deg	4x18 (M16)
200L	400	350	300	55	110	660	-	400	317	45 deg	4x18 (M16)
225S	450	400	350	60	140	680	-	450	385	22.5 deg	8x18 (M16)
225M	450	400	350	60	140	715	-	450	385	22.5 deg	8x18 (M16)
250M	550	500	450	65	140	770	-	500	405	22.5 deg	8x18 (M16)
280S	550	500	450	75	140	850	-	560	480	22.5 deg	8x18 (M16)
280M	550	500	450	75	140	930	-	560	480	22.5 deg	8x18 (M16)
315S	660	600	550	80	170	1100	-	630	530	22.5 deg	8x22 (M20)
315M	660	600	550	80	170	1260	-	630	530	22.5 deg	8x22 (M20)
315L	660	600	550	80	170	1400	-	630	530	22.5 deg	8x22 (M20)

ADDITIONAL MOTOR FEATURES

Additional Motor Features- Column 19 Entry

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

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

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

ADDITIONAL GEARBOX FEATURES

Additional Gearbox Features- Column 20 Entry

Column 20 entry	Double Oil Seals on Output Shaft	Oil Level Glass S07- S10	* Motorised Backstop		Special
			CW Rotation	CCW Rotation	
-					
A	•				
B		•			
C	•	•			
D			•		
E	•		•		
F		•	•		
G	•	•	•		
H				•	
I	•			•	
J		•		•	
K	•	•		•	
L					•

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

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

* IEC B5 frame sizes 100 - 200 and NEMA frame sizes 182TC -326TC

S SERIES

SELECTION TABLE

GEARED MOTORS

0.12 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
158	8.59	6	13.44	2860	S 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		
13.0	105.36	65	2.26	2830	S 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	S 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	S 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	S 0 5 2 1 2 5 0 _ M _ _ _ . 1 2 A - -	18.5	63
8.5	160.26	103	3.82	7440	S 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	S 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		

S SERIES SELECTION TABLE GEARED MOTORS

0.12 kW

4 POLE

0.12 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
1.3	1021.77	655	1.17	11402	S 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	S 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	S 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	S 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	S 0 9 4 1 1 8 C _ M _ _ _ . 1 2 A _ _	209.5	63
0.65	2106.88	1440	3.44	53383	2 0 C		
0.60	2250.46	1538	3.20	53383	2 2 C		
0.55	2484.44	1694	2.92	53383	2 5 C		
0.50	2720.42	1852	2.67	53383	2 8 C		
0.41	3333.96	2262	2.19	53383	3 2 C		
0.36	3774.96	2554	1.93	53383	3 6 C		
101	8.59	9	9.52	2860	S 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	S 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	S 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 .		

S SERIES

SELECTION TABLE

GEARED MOTORS

012.kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
11 10 8.6 7.6 6.7 6.1 5.5 4.0 3.5	82.83 86.67 101.54 114.33 129.94 142.00 157.78 217.78 247.50	82 74 86 113 127 118 130 176 198	2.28 3.31 2.95 1.14 0.99 2.35 2.13 1.14 0.99	5290 5290 5290 5290 5280 5290 5280 5270 5260	S 0 4 2 1 8 0 . _ M _ _ _ . 1 2 C - - 9 0 . 1 0 0 1 1 2 1 2 5 1 4 0 1 6 0 2 1 2 2 5 0	16.5	63
8.3 7.2 6.7 6.2 5.4 4.6 4.3 3.8 2.8 2.4	105.36 120.39 130.10 140.21 162.50 190.38 200.68 229.32 309.52 362.64	103 117 107 115 156 182 162 184 243 283	1.94 1.70 2.55 2.40 1.26 1.08 1.71 1.51 1.14 0.98	5290 5290 5290 5290 5280 5270 5280 5270 5250 5240	S 0 4 3 1 1 0 0 _ M _ _ _ . 1 2 C - - 1 1 8 1 3 2 1 5 0 1 6 0 1 8 0 2 0 0 2 2 5 3 1 5 3 6 0	20.5	63
8.0 7.0 6.1 5.4 4.1 3.6	109.07 124.00 142.00 160.00 211.11 240.00	111 125 122 136 178 200	3.49 3.04 3.93 3.52 2.70 2.40	7440 7440 7440 7440 7440 7440	S 0 5 2 1 1 1 2 _ M _ _ _ . 1 2 C - - 1 2 5 1 4 0 1 6 0 2 1 2 2 5 0	18.5	63
8.4 7.3 5.4 4.6 4.3 3.8 3.3 3.0 2.8 2.4 2.2 1.9 1.7 1.5	103.90 118.73 160.26 187.76 201.10 229.81 262.58 291.75 310.18 363.40 402.70 457.66 508.21 564.68	105 119 159 186 168 191 257 284 254 295 391 441 406 449	3.76 3.29 2.45 2.08 2.85 2.51 1.50 1.35 1.90 1.63 0.97 0.86 1.19 1.07	7440 7440 7440 7440 7440 7440 7440 7440 7440 7440 7430 7420 7430 7420	S 0 5 3 1 1 0 0 _ M _ _ _ . 1 2 C - - 1 1 8 1 6 0 1 8 0 2 0 0 2 2 5 2 6 5 2 8 0 3 1 5 3 6 0 4 0 0 4 5 0 5 0 0 5 6 0	21.5	63
7.0 3.6	124.00 240.00	132 211	3.95 3.62	11900 11900	S 0 6 2 1 1 2 5 _ M _ _ _ . 1 2 C - - 2 5 0	32.5	63
4.7 3.3 2.9 2.6 2.4 2.2 1.9 1.7 1.5 1.1 1.0	184.62 265.95 299.67 328.67 357.32 395.39 449.50 514.75 580.00 765.28 870.00	193 275 309 282 305 405 458 431 482 629 709	3.95 2.78 2.48 2.71 2.51 1.89 1.67 1.77 1.59 1.22 1.08	11900 11800 11800 11800 11800 11700 11700 11700 11700 11600 11500	S 0 6 3 1 1 8 0 _ M _ _ _ . 1 2 C - - 2 6 5 2 8 0 3 1 5 3 6 0 4 0 0 4 5 0 5 0 0 5 6 0 8 0 0 9 0 0	37.5	63
2.7 2.5 2.3 2.1 1.7 1.6 1.2 1.0	319.95 341.61 373.83 419.25 499.88 547.35 747.66 838.50	323 344 400 446 495 539 731 817	3.93 3.69 3.35 3.00 2.55 2.33 1.72 1.54	29200 29200 29200 29200 29200 29200 29200 29200	S 0 7 3 1 3 1 5 _ M _ _ _ . 1 2 C - - 3 6 0 4 0 0 4 5 0 5 0 0 5 6 0 8 0 0 9 0 0	84.5	63
0.86 0.79 0.72 0.62 0.57	1009.20 1097.19 1213.28 1395.57 1517.24	1059 1150 1260 1446 1570	1.27 1.17 1.06 0.93 0.85	28931 28931 28931 28931 28931	S 0 7 4 1 1 0 C _ M _ _ _ . 1 2 C - - 1 1 C 1 2 C 1 4 C 1 6 C	88.5	63
1.4 1.2 1.1 0.97 0.91 0.80 0.73 0.62 0.57 0.46 0.42 0.39 0.35 0.32 0.26	636.31 711.92 758.79 899.27 960.14 1083.79 1191.45 1404.96 1532.14 1901.25 2088.45 2241.96 2462.71 2696.62 3304.80	682 761 812 959 1023 1151 1264 1484 1610 1991 2180 2340 2563 2801 3414	3.98 3.57 3.34 2.83 2.65 2.47 2.15 1.83 2.03 1.64 1.54 1.40 1.31 1.20 0.98	41656 41656 41656 41656 41656 41656 41656 41656 41545 41545 41545 41545 41545 41545 41545	S 0 8 4 1 6 3 0 _ M _ _ _ . 1 2 C - - 7 1 0 8 0 0 9 0 0 1 0 C 1 1 C 1 2 C 1 4 C 1 6 C 1 8 C 2 0 C 2 2 C 2 5 C 2 8 C 3 2 C	141.5	63

NOTE

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

S SERIES

SELECTION TABLE

GEARED MOTORS

012.kW

6 POLE

0.18 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
0.23	3760.71	3866	0.85	41545	S 0 8 4 1 3 6 C _ M _ - _ _ . 1 2 C - -	141.5	63
0.72	1216.09	1319	3.62	53383	S 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		
159	8.59	8	9.03	2858	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.18 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
13	103.90	101	3.95	7436	S 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	S 0 6 2 1 2 5 0 _ M _ - _ - . 1 8 A - -	32.5	63
5.2	265.95	265	2.89	11830	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.18 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
105	8.59	13	6.56	2857	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.18 kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
1.6 1.2	580.00 765.28	700 913	1.09 0.84	11515 11400	S 0 6 3 1 5 6 0 _ M _ _ _ . 1 8 C - - 8 0 0	39.5	71
4.0 3.6 3.3 2.8 2.6 2.4 2.1 1.8 1.6 1.2 1.1	226.39 249.94 273.68 319.95 341.61 373.83 419.25 499.88 547.35 747.66 838.50	334 392 428 468 499 580 648 717 782 1061 1185	3.79 3.41 3.12 2.71 2.54 2.31 2.07 1.76 1.61 1.19 1.06	29180 29171 29161 29161 29152 29144 29144 29130 29116 29080 29056	S 0 7 3 1 2 2 5 _ M _ _ _ . 1 8 C - - 2 6 5 2 8 0 3 1 5 3 6 0 4 0 0 4 5 0 5 0 0 5 6 0 8 0 0 9 0 0	86.5	71
0.89 0.82	1009.20 1097.19	1536 1667	0.87 0.80	28931 28931	S 0 7 4 1 1 0 C _ M _ _ _ . 1 8 C - - 1 1 C	90.5	71
1.6 1.4 1.3 1.2 1.0 0.94 0.83 0.76 0.64 0.59 0.47 0.43 0.40 0.37 0.33	547.09 636.31 711.92 758.79 899.27 960.14 1083.79 1191.45 1404.96 1532.14 1901.25 2088.45 2241.96 2462.71 2696.62	852 989 1104 1177 1391 1484 1669 1833 2152 2335 2887 3162 3394 3716 4061	3.19 2.74 2.46 2.31 1.95 1.83 1.70 1.48 1.26 1.40 1.13 1.06 0.97 0.90 0.83	41656 41656 41656 41656 41656 41656 41656 41656 41656 41545 41545 41545 41545 41545 41545	S 0 8 4 1 5 6 0 _ M _ _ _ . 1 8 C - - 6 3 0 7 1 0 8 0 0 9 0 0 1 0 C 1 1 C 1 2 C 1 4 C 1 6 C 1 8 C 2 0 C 2 2 C 2 5 C 2 8 C	143.5	71
1.2 0.98 0.92 0.83 0.74 0.63 0.59 0.47 0.43 0.40 0.36 0.33 0.27 0.24	774.48 917.87 980.00 1088.78 1216.09 1434.02 1537.95 1908.45 2106.88 2250.46 2484.44 2720.42 3333.96 3774.96	1227 1451 1547 1713 1912 2246 2391 2957 3258 3476 3830 4185 5102 5746	3.90 3.29 3.09 2.81 2.50 2.13 2.06 1.67 1.52 1.42 1.29 1.18 0.97 0.86	53383 53383 53383 53383 53383 53383 53383 53383 53383 53383 53383 53383 53383 53383	S 0 9 4 1 8 0 0 _ M _ _ _ . 1 8 C - - 9 0 0 1 0 C 1 1 C 1 2 C 1 4 C 1 6 C 1 8 C 2 0 C 2 2 C 2 5 C 2 8 C 3 2 C 3 6 C	211.5	71
163 121 106 94 86 73 68 63 56 49 42 38 36 31 26 25 22 19 17 16 14 12 10 8.9	8.59 11.61 13.20 14.95 16.36 19.12 20.61 22.11 25.14 28.48 33.71 36.43 39.26 45.50 53.31 56.19 64.21 74.55 82.83 86.67 101.54 114.33 142.00 157.78	12 16 18 20 20 26 28 26 30 34 45 42 46 60 70 64 73 97 107 97 112 146 153 169	6.64 5.37 4.90 4.48 4.29 3.76 3.56 3.51 3.21 2.95 2.49 2.49 2.37 2.00 1.79 1.85 1.69 1.47 1.36 1.43 1.27 0.88 0.97 0.88	2856 2855 2854 2854 2853 2852 2852 2852 2849 2849 2837 2837 2837 2831 2821 2831 2818 2808 2804 2808 2800 2780 2780 2770	S 0 3 2 1 8 . 0 _ M _ _ _ . 2 5 A - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 4 5 . 5 0 . 5 6 . 6 3 . 7 1 . 8 0 . 9 0 . 1 0 0 1 1 2 1 4 0 1 6 0	15.5	71
13 12 11 10	105.36 120.39 130.10 140.21	133 151 138 148	1.12 0.98 1.07 1.00	2788 2780 2790 2780	S 0 3 3 1 1 0 0 _ M _ _ _ . 2 5 A - - 1 1 8 1 3 2 1 5 0	19.5	71

NOTE

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

S SERIES SELECTION TABLE GEARED MOTORS

0.25 kW
4 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
38	36.43	44	3.98	5286	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 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

S SERIES

SELECTION TABLE

GEARED MOTORS

0.25 kW

4 POLE

0.25 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
0.91	1532.14	2085	1.57	41545	S 0 8 4 1 1 6 C _ M _ _ _ . 2 5 A - -	143.5	71
0.74	1901.25	2582	1.27	41545	1 8 C		
0.67	2088.45	2826	1.19	41545	2 0 C		
0.62	2241.96	3039	1.08	41545	2 2 C		
0.57	2462.71	3326	1.01	41545	2 5 C		
0.52	2696.62	3637	0.92	41545	2 8 C		
1.5	917.87	1298	3.68	53383	S 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		
105	8.59	18	4.72	2854	S 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	S 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	S 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	S 0 5 2 1 7 1 . _ M _ _ _ . 2 5 C - -	21.5	71
11	82.67	170	2.33	7430	8 0 .		
10	90.67	162	2.97	7430	9 0 .		
9.1	98.57	175	2.74	7429	1 0 0		
8.3	109.07	223	1.73	7427	1 1 2		
7.3	124.00	252	1.51	7427	1 2 5		
6.3	142.00	246	1.95	7427	1 4 0		
5.6	160.00	275	1.75	7421	1 6 0		
4.3	211.11	359	1.34	5904	2 1 2		
3.8	240.00	404	1.19	7414	2 5 0		
8.7	103.90	211	1.87	6567	S 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		

S SERIES SELECTION TABLE GEARED MOTORS

0.25 kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
5.6	160.26	320	1.22	5904	S 0 5 3 1 1 6 0 _ M _ _ _ . 2 5 C - -	25.5	71
4.8	187.76	374	1.03	7412	1 8 0		
4.5	201.10	340	1.42	7418	2 0 0		
3.9	229.81	385	1.25	7412	2 2 5		
2.9	310.18	512	0.94	7403	3 1 5		
2.5	363.40	595	0.81	6691	3 6 0		
11	80.94	176	3.9	11834	S 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	S 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	S 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	S 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	S 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		
163	8.59	18	4.49	2852	S 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 .		

0.37 kW

4 POLE

NOTE

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

S SERIES

SELECTION TABLE

GEARED MOTORS

0.37 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
36	39.26	68	1.60	2826	S 0 3 2 1 4 0 . _ M _ _ _ . 3 7 A - -	15.5	71
31	45.50	90	1.35	2815	4 5 .		
26	53.31	104	1.21	2805	5 0 .		
25	56.19	96	1.25	2815	5 6 .		
22	64.21	108	1.14	2799	6 3 .		
19	74.55	143	0.99	2780	7 1 .		
17	82.83	159	0.92	2780	8 0 .		
16	86.67	143	0.97	2780	9 0 .		
63	22.11	41	3.78	5286	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 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		

S SERIES SELECTION TABLE GEARED MOTORS

0.37 kW

4 POLE

0.37 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
1.6	899.27	1842	1.47	41656	S 0 8 4 1 9 0 0 _ M _ _ _ . 3 7 A - -	143.5	71
1.5	960.14	1966	1.38	41656	1 0 C		
1.3	1083.79	2210	1.29	41656	1 1 C		
1.2	1191.45	2432	1.12	41656	1 2 C		
0.99	1404.96	2860	0.95	41656	1 4 C		
0.91	1532.14	3086	1.06	41545	1 6 C		
0.74	1901.25	3822	0.86	41545	1 8 C		
0.67	2088.45	4183	0.80	41545	2 0 C		
2.2	649.47	1363	3.51	53383	S 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		
107	8.59	27	3.26	2849	S 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	S 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	S 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	S 0 5 2 1 3 2 . _ M _ _ _ . 3 7 C - -	25.5	80A
23	40.74	111	3.76	7440	4 0 .		
20	46.84	143	2.82	7440	4 5 .		
18	50.93	156	2.59	7440	5 0 .		
17	55.45	149	3.00	7440	5 6 .		
15	63.00	167	2.75	7440	6 3 .		
13	73.37	220	1.81	7424	7 1 .		
11	82.67	247	1.61	7422	8 0 .		
10	90.67	235	2.05	7422	9 0 .		
9.3	98.57	254	1.90	7419	1 0 0		
8.4	109.07	324	1.20	7416	1 1 2		
7.4	124.00	365	1.04	7416	1 2 5		
6.5	142.00	357	1.35	7416	1 4 0		
5.8	160.00	399	1.21	7404	1 6 0		
4.4	211.11	519	0.93	4487	2 1 2		
3.8	240.00	585	0.82	7390	2 5 0		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.37 kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
8.9	103.90	306	1.29	5761	S 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	S 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	S 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	S 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	S 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	S 0 8 2 1 2 5 0 _ M _ _ _ . 3 7 C - -	130.5	80A
1.7	547.09	1713	1.58	41656	S 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	S 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

S SERIES SELECTION TABLE GEARED MOTORS

0.55 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
165	8.59	26	3.06	2847	S 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	S 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	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.55 kW

4 POLE

0.55 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
6.8 6.1	208.65 231.83	612 678	1.96 1.80	29200 29200	S 0 7 2 1 2 1 2 _ M _ _ _ . 5 5 A - 2 5 0	80.5	80A
13 11 10 8.9 8.3 7.3 6.3 5.7 5.2 4.4 4.2 3.8 3.4 2.8 2.6	113.20 125.04 141.75 159.98 170.81 194.65 226.39 249.94 273.68 319.95 341.61 373.83 419.25 499.88 547.35	356 372 416 498 529 571 658 767 838 915 975 1133 1266 1412 1540	3.76 2.96 2.69 2.69 2.53 2.08 1.85 1.74 1.60 1.39 1.30 1.18 1.06 0.90 0.82	29125 29200 29200 29096 29106 29106 29075 29044 29013 25273 21625 20101 28926 28858 28858	S 0 7 3 1 1 1 8 _ M _ _ _ . 5 5 A - 1 3 2 1 5 0 1 6 0 1 8 0 2 0 0 2 2 5 2 6 5 2 8 0 3 1 5 3 6 0 4 0 0 4 5 0 5 0 0 5 6 0	89.5	80A
6.0 2.6 2.2 2.0 1.9 1.6 1.5 1.3	235.77 547.09 636.31 711.92 758.79 899.27 960.14 1083.79	699 1649 1916 2140 2282 2700 2881 3239	3.61 1.65 1.42 1.27 1.19 1.01 0.94 0.88	41900 41656 41656 41656 41656 41656 41656 41656	S 0 8 2 1 2 5 0 _ M _ _ _ . 5 5 A - S 0 8 4 1 5 6 0 _ M _ _ _ . 5 5 A - 6 3 0 7 1 0 8 0 0 9 0 0 1 0 C 1 1 C	130.5 146.5	80A 80A
2.5 2.2 2.0 1.8 1.5 1.4 1.3 1.2 0.99 0.92 0.74	558.41 649.47 726.65 774.48 917.87 980.00 1088.78 1216.09 1434.02 1537.95 1908.45	1719 1998 2231 2380 2816 3004 3325 3717 4371 4636 5740	2.78 2.39 2.14 2.01 1.70 1.59 1.45 1.29 1.09 1.06 0.86	53383 53383 53383 53383 53383 53383 53383 53383 53383 53383 53383	S 0 9 4 1 5 6 0 _ M _ _ _ . 5 5 A - 6 3 0 7 1 0 8 0 0 9 0 0 1 0 C 1 1 C 1 2 C 1 4 C 1 6 C 1 8 C	214.5	80A
107 79 70 62 56 48 45 42 37 32 27 25	8.59 11.61 13.20 14.95 16.36 19.12 20.61 22.11 25.14 28.48 33.71 36.43	40 53 61 68 66 87 93 88 99 112 150 140	2.20 1.79 1.62 1.49 1.44 1.24 1.18 1.18 1.08 0.99 0.83 0.83	2841 2835 2831 2828 2829 2814 2810 2814 2809 2802 2781 2788	S 0 3 2 1 8 . 0 _ M _ _ _ . 5 5 C - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 .	21	80B
107 79 70 62 56 48 45 42 37 32 27 25 23 20 17 16 14	8.59 11.61 13.20 14.95 16.36 19.12 20.61 22.11 25.14 28.48 33.71 36.43 39.26 45.50 53.31 56.19 64.21	41 55 61 69 68 89 94 90 101 114 152 144 154 203 236 215 244	3.64 2.96 2.70 2.47 2.32 2.06 1.97 1.88 1.72 1.58 1.37 1.33 1.27 1.02 0.87 0.99 0.90	5285 5281 5279 5279 5279 5277 5274 5274 5271 5261 5268 5263 5255 5249 5255 5242	S 0 4 2 1 8 . 0 _ M _ _ _ . 5 5 C - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 4 5 . 5 0 . 5 6 . 6 3 .	24	80B
50 44 41 37 33 28 26	18.53 21.05 22.56 24.86 28.24 32.55 35.86	87 98 95 104 118 151 147	3.69 3.42 3.89 3.62 3.29 2.56 2.77	7439 7438 7439 7438 7437 7435 7435	S 0 5 2 1 1 8 . _ M _ _ _ . 5 5 C - 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 .	27	80B

S SERIES SELECTION TABLE GEARED MOTORS

0.55 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
23	40.74	166	2.53	7434	S 0 5 2 1 4 0 . _ M _ _ _ . 5 5 C - -	27	80B
20	46.84	213	1.90	7432	4 5 .		
18	50.93	232	1.74	7430	5 0 .		
17	55.45	222	2.02	7432	5 6 .		
15	63.00	249	1.85	7430	6 3 .		
13	73.37	328	1.22	7413	7 1 .		
11	82.67	367	1.08	7409	8 0 .		
10	90.67	349	1.38	7409	9 0 .		
9.3	98.57	377	1.28	7404	1 0 0		
8.4	109.07	481	0.81	7399	1 1 2		
6.5	142.00	530	0.91	7400	1 4 0		
5.8	160.00	593	0.81	7378	1 6 0		
8.9	103.90	455	0.87	4552	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 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	S 1 0 4 1 5 0 0 _ M _ _ _ . 5 5 C - -	334	80B
1.7	544.84	2611	3.24	87299	5 6 0		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.55 kW

6 POLE

0.75 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
1.5	626.07	2997	2.83	87299	S 1 0 4 1 6 3 0 _ M _ _ _ . 5 5 C - -	334	80B
1.3	709.95	3391	2.50	87299	7 1 0		
1.2	783.06	3741	2.27	87299	8 0 0		
1.0	896.77	4277	1.98	87299	9 0 0		
0.91	1013.93	4827	1.76	87299	1 0 C		
0.82	1126.71	5342	1.55	87375	1 1 C		
0.78	1175.54	5582	1.52	87299	1 2 C		
0.66	1402.11	6635	1.28	87299	1 4 C		
0.57	1606.71	7534	1.14	87299	1 6 C		
0.49	1862.80	8716	0.98	87299	1 8 C		
0.43	2146.36	9991	0.86	87299	2 0 C		
0.41	2221.83	10366	0.83	87299	2 2 C		
165	8.59	36	2.24	2841	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

0.75 kW

4 POLE

NOTE

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

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

S SERIES

SELECTION TABLE

GEARED MOTORS

0.75 kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
107	8.59	55	1.61	2832	S 0 3 2 1 8 . 0 _ M _ - _ - . 7 5 C - -	24.5	90S
79	11.61	73	1.32	2823	1 1 .		
70	13.20	83	1.19	2818	1 2 .		
62	14.95	93	1.09	2814	1 4 .		
56	16.36	90	1.06	2815	1 6 .		
48	19.12	118	0.91	2798	S 0 3 2 1 1 8 . _ M _ - _ - . 7 5 C - -	24.5	90S
45	20.61	127	0.86	2792	2 0 .		
42	22.11	120	0.87	2798	2 2 .		
107	8.59	56	2.67	5283	S 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	S 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	S 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	S 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	S 0 7 2 1 4 5 . _ M _ - _ - . 7 5 C - -	84.5	90S
18	49.90	339	2.82	29158	5 0 .		
17	53.62	346	2.91	29156	5 6 .		
15	61.62	398	2.61	29156	6 3 .		
13	69.00	461	2.27	29142	7 1 .		
12	75.56	505	2.10	29127	8 0 .		
10	88.26	560	1.98	29132	9 0 .		
9.2	99.79	632	1.80	29132	1 0 0		
8.8	104.32	688	1.60	29132	1 1 2		
7.9	115.92	761	1.44	29099	1 2 5		
6.7	138.00	861	1.39	29095	1 4 0		
6.1	151.12	936	1.30	29095	1 6 0		
4.4	208.65	1270	1.00	29000	2 1 2		
4.0	231.83	1405	0.90	28900	2 5 0		

NOTE

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

S SERIES SELECTION TABLE GEARED MOTORS

0.75 kW

6 POLE

1.1 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
9.5	97.33	643	2.08	29078	S 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	S 0 8 2 1 1 0 0 _ M _ _ _ . 7 5 C - -	134.5	90S
7.8	117.89	782	3.72	41879	1 2 5		
6.6	139.29	878	2.82	41858	1 4 0		
6.0	153.00	962	2.62	41858	1 6 0		
4.5	204.75	1270	2.07	41832	S 0 8 2 1 2 1 2 _ M _ _ _ . 7 5 C - -	134.5	90S
3.9	235.77	1443	1.81	41832	2 5 0		
3.7	249.73	1526	3.65	53800	S 0 9 2 1 2 5 0 _ M _ _ _ . 7 5 C - -	197.5	90S
1.6	558.41	3619	1.32	53383	S 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	S 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		
164	8.59	53	1.52	2831	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

1.1 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
67	20.96	137	3.86	11944	S 0 6 2 1 2 0 . _ M _ _ _ 1 . 1 A - -	42.5	90S
56	25.11	149	3.97	11944	2 5 .		
50	28.18	167	3.65	11936	2 8 .		
42	33.48	216	2.88	11820	3 2 .		
39	35.79	208	3.05	11836	3 6 .		
35	40.57	235	2.77	11832	4 0 .		
30	47.32	302	2.30	11795	4 5 .		
28	50.52	322	2.20	11764	5 0 .		
25	55.71	317	2.20	11811	5 6 .		
22	64.80	364	1.98	11764	6 3 .		
19	73.92	463	1.64	11644	7 1 .		
17	80.94	506	1.20	11644	8 0 .		
15	91.58	503	1.52	11644	S 0 6 2 1 9 0 . _ M _ _ _ 1 . 1 A - -	42.5	90S
14	97.78	534	1.43	11644	1 0 0		
13	110.57	680	0.93	11500	1 1 2		
14	103.86	637	1.20	11500	S 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	S 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	S 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	S 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	S 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	S 0 9 2 1 2 5 0 _ M _ _ _ 1 . 1 A - -	197.5	90S
6.3	224.51	1396	3.42	53383	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

1.1 kW

4 POLE

1.1 kW

6 POLE

NOTE

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

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

S SERIES

SELECTION TABLE

GEARED MOTORS

1.1 kW

6 POLE

1.5 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
12	76.50	754	3.77	41843	S 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	S 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	S 0 9 2 1 1 2 5 _ M _ - _ _ 1 . 1 C - -	198.5	90L
5.7	161.44	1474	3.78	53741	S 0 9 2 1 1 6 0 _ M _ - _ _ 1 . 1 C - -	198.5	90L
4.2	222.08	1990	2.80	53713	2 1 2		
3.7	249.73	2227	2.51	53703	2 5 0		
5.8	159.68	1518	3.15	53383	S 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	S 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		
165	8.59	72	1.12	2820	S 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	S 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	S 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 .		

S SERIES

SELECTION TABLE

GEARED MOTORS

1.5 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
109	12.97	116	3.82	11945	S 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	S 0 7 2 1 3 2 . _ M _ _ _ 1 . 5 A - -	85.5	90L
32	44.13	393	2.21	29142	4 5 .		
28	49.90	443	1.98	29142	5 0 .		
26	53.62	458	2.06	29144	5 6 .		
23	61.62	523	1.85	29117	S 0 7 2 1 6 3 . _ M _ _ _ 1 . 5 A - -	85.5	90L
21	69.00	606	1.53	29117	7 1 .		
19	75.56	663	1.41	29089	8 0 .		
16	88.26	740	1.39	29084	9 0 .		
14	99.79	829	1.27	29084	1 0 0		
14	104.32	901	1.08	29084	1 1 2		
12	115.92	1000	0.97	29027	1 2 5		
10	138.00	1128	0.99	29000	1 4 0		
9.4	151.12	1238	0.92	29000	1 6 0		
15	97.33	841	1.59	29056	S 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	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

1.5 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
108	8.59	109	0.81	2800	S 0 3 2 1 8 . 0 _ M _ _ _ 1 . 5 C - -	35	100L
108	8.59	111	1.34	5276	S 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	S 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	S 0 6 2 1 8 . 0 _ M _ _ _ 1 . 5 C - -	53	100L
80	11.57	158	3.13	11911	1 1 .		
71	12.97	177	2.92	11889	1 2 .		
64	14.56	198	2.72	11867	1 4 .		
58	15.93	198	2.94	11889	1 6 .		
50	18.49	250	2.34	11845	1 8 .		
44	20.96	282	2.16	11823	2 0 .		
41	22.40	273	2.28	11845	2 2 .		
37	25.11	304	2.09	11823	2 5 .		
33	28.18	339	1.92	11813	2 8 .		
28	33.48	445	1.59	11650	3 2 .		
26	35.79	423	1.62	11682	3 6 .		
23	40.57	477	1.48	11642	4 0 .		
20	47.32	621	1.23	11568	4 5 .		
18	50.52	658	1.16	11535	5 0 .		
17	55.71	642	1.18	11535	5 6 .		
14	64.80	736	1.04	11469	6 3 .		
13	73.92	953	0.80	11300	7 1 .		
59	15.80	214	3.73	29200	S 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	S 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	S 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	S 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	S 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		

S SERIES

SELECTION TABLE

GEARED MOTORS

1.5 kW

6 POLE

2.2 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
5.8	159.68	2070	2.31	53383	S 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	S 1 0 2 1 1 6 0 _ M _ _ _ 1 . 5 C - -	305	100L
4.1	225.50	2845	3.10	87400	2 1 2		
3.8	242.27	3044	2.90	87400	2 5 0		
1.9	495.31	6445	1.31	87299	S 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		
166	8.59	107	1.27	5282	S 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	S 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	S 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	S 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	S 0 7 3 1 1 0 0 _ M _ _ _ 2 . 2 A - -	104	100L
13	113.20	1421	0.94	28838	1 1 8		

S SERIES

SELECTION TABLE

GEARED MOTORS

2.2 kW

4 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
40	35.20	453	3.97	41900	S 0 8 2 1 3 6 . _ M _ - _ _ 2 . 2 A -	145	100L
36	39.51	506	3.64	41900	4 0 .		
33	43.64	576	3.77	41063	4 5 .		
29	49.26	646	3.48	41638	5 0 .		
26	54.60	690	2.84	41900	5 6 .		
22	63.56	797	2.52	41900	6 3 .		
20	69.64	901	2.76	41828	7 1 .		
19	76.50	989	2.59	41805	8 0 .		
16	87.29	1081	1.96	41833	9 0 .		
14	98.53	1211	1.78	41852	1 0 0		
14	102.38	1311	2.10	41852	1 1 2		
12	117.89	1497	1.90	41804	1 2 5		
10	139.29	1684	1.37	41756	1 4 0		
9.3	153.00	1845	1.27	41765	1 6 0		
7.0	204.75	2435	1.01	41630	2 1 2		
6.0	235.77	2789	0.91	41700	2 5 0		
9.1	156.45	1885	1.44	41656	S 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	S 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	S 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	S 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	S 1 0 4 1 5 0 0 _ M _ - _ _ 2 . 2 A -	347	100L
2.6	544.84	6742	1.26	87299	5 6 0		
2.3	626.07	7741	1.09	87299	6 3 0		
2.0	709.95	8763	0.97	87299	7 1 0		
1.8	783.06	9669	0.88	87299	8 0 0		

2.2 kW

6 POLE

111	8.59	159	0.94	5270	S 0 4 2 1 8 . 0 _ M _ - _ _ 2 . 2 C -	45	112M
114	8.31	157	1.56	7440	S 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	S 0 6 2 1 8 . 0 _ M _ - _ _ 2 . 2 C -	65	112M
82	11.57	226	2.20	11857	1 1 .		
73	12.97	253	2.05	11821	1 2 .		
65	14.56	283	1.90	11785	1 4 .		
60	15.93	283	2.06	11821	1 6 .		
51	18.49	357	1.64	11750	1 8 .		
45	20.96	403	1.52	11714	2 0 .		
42	22.40	390	1.60	11750	2 2 .		
38	25.11	435	1.46	11714	2 5 .		
34	28.18	484	1.34	11697	2 8 .		
28	33.48	635	1.12	11496	3 2 .		
27	35.79	605	1.13	11547	3 6 .		
23	40.57	681	1.03	11482	4 0 .		
20	47.32	886	0.86	11350	4 5 .		
19	50.52	940	0.81	11300	5 0 .		
17	55.71	917	0.82	11300	5 6 .		

NOTE

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

S SERIES

SELECTION TABLE

GEARED MOTORS

2.2 kW

6 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
120	7.90	160	3.84	24856	S 0 7 2 1 8 . 0 _ M _ - _ _ 2 . 2 C - -	109	112M
87	10.94	221	3.84	26975	1 1 .		
77	12.29	248	3.61	27838	1 2 .		
70	13.52	272	3.41	28591	1 4 .		
60	15.80	305	2.61	28978	1 6 .		
54	17.66	353	2.89	28908	1 8 .		
47	20.07	398	2.66	28966	2 0 .		
43	21.89	419	2.05	29165	2 2 .		
39	24.59	468	1.88	29165	2 5 .		
35	27.03	513	1.75	29165	S 0 7 2 1 2 8 . _ M _ - _ _ 2 . 2 C - -	109	112M
31	30.81	603	1.43	29092	3 2 .		
27	35.31	663	1.43	29144	3 6 .		
24	40.15	749	1.29	29116	4 0 .		
22	44.13	854	1.11	29048	4 5 .		
19	49.90	963	0.99	28998	5 0 .		
18	53.62	984	1.03	28991	5 6 .		
15	61.62	1133	0.92	28991	6 3 .		
14	69.00	1311	0.80	28921	7 1 .		
39	24.47	474	3.84	41597	S 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	S 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	S 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	S 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	S 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	S 1 0 4 1 5 0 0 _ M _ - _ _ 2 . 2 C - -	361	112M
1.7	544.84	10117	0.84	87299	5 6 0		

NOTE

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

S SERIES

SELECTION TABLE

GEARED MOTORS

3.0 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
166	8.59	147	0.93	5280	S 0 4 2 1 8 . 0 _ M _ _ _ 3 . 0 A - -	37	100L
171	8.31	145	1.44	7440	S 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	S 0 6 2 1 8 . 0 _ M _ _ _ 3 . 0 A - -	53	100L
123	11.57	208	2.05	11858	1 1 .		
110	12.97	232	1.92	11858	1 2 .		
98	14.56	260	1.79	11802	1 4 .		
89	15.93	261	1.98	11851	1 6 .		
77	18.49	328	1.55	11752	1 8 .		
68	20.96	370	1.43	11752	2 0 .		
64	22.40	362	1.60	11752	2 2 .		
57	25.11	403	1.47	11752	2 5 .		
51	28.18	451	1.35	11715	2 8 .		
43	33.48	583	1.07	11544	3 2 .		
40	35.79	563	1.13	11615	3 6 .		
35	40.57	634	1.03	11600	S 0 6 2 1 4 0 _ M _ _ _ 3 . 0 A - -	53	100L
30	47.32	815	0.85	11400	4 5 .		
130	10.94	201	3.64	24654	S 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	S 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	S 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	S 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	S 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		

S SERIES SELECTION TABLE GEARED MOTORS

3.0 kW

4 POLE

3.0 kW

6 POLE

NOTE

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

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

S SERIES

SELECTION TABLE

GEARED MOTORS

3.0 kW

6 POLE

4.0 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
5.9	160.55	4062	2.09	87299	S 1 0 4 1 1 6 0 _ M _ _ _ 3 . 0 C - -	378	132S
5.4	178.41	4494	1.84	87375	1 8 0		
4.3	222.38	5623	1.51	87299	2 1 2		
3.9	247.12	6221	1.33	87375	2 5 0		
3.5	274.67	6942	1.22	87299	2 8 0		
3.1	305.22	7680	1.08	87375	3 1 5		
2.7	358.77	9058	0.94	87299	3 6 0		
2.3	407.90	10293	0.82	87299	4 0 0		
173	8.31	192	1.09	7440	S 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	S 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	S 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	S 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	S 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	S 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	S 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		

S SERIES SELECTION TABLE GEARED MOTORS

4.0 kW
4 POLE

4.0 kW
6 POLE

NOTE

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

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

S SERIES

SELECTION TABLE

GEARED MOTORS

5.5 kW

4 POLE

NOTE

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

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

S SERIES

SELECTION TABLE

GEARED MOTORS

5.5 kW

6 POLE

7.5 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
117 83 74 60	8.23 11.57 12.97 15.93	403 561 627 700	1.09 0.89 0.83 0.83	11700 11600 11500 11500	S 0 6 2 1 8 . 0 _ M _ _ _ 5 . 5 C - - 1 1 . 1 2 . 1 6 .	86	132M
122 88 78 71 61 54 48 44	7.90 10.94 12.29 13.52 15.80 17.66 20.07 21.89	396 547 613 673 756 873 984 1037	1.55 1.55 1.46 1.38 1.05 1.17 1.08 0.83	23710 25447 26133 26666 27933 27533 27866 29000	S 0 7 2 1 8 . 0 _ M _ _ _ 5 . 5 C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 .	130	132M
124 87 78 71 62 55 49 44 39 35 30 27 24 22 19 18 14	7.77 11.01 12.24 13.61 15.54 17.60 19.76 22.03 24.47 27.22 31.78 35.20 39.51 43.64 49.26 54.60 69.64	391 557 614 680 755 875 981 1060 1173 1298 1550 1657 1851 2117 2375 2521 3316	3.16 2.78 2.62 2.45 2.15 2.09 1.95 1.68 1.55 1.43 1.44 1.18 1.07 1.16 1.07 0.83 0.84	30947 33284 34157 35089 36915 37400 38447 39878 40173 41300 41033 41833 41766 41756 41612 41700 41500	S 0 8 2 1 8 . 0 _ M _ _ _ 5 . 5 C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 4 5 . 5 0 . 5 6 . 7 1 .	173	132M
22 19 14 12 10 9.3 9.0 8.0 6.6	44.55 49.49 69.91 77.18 93.18 103.53 106.17 119.38 146.23	2179 2420 3372 3716 4213 4659 5060 5645 6461	1.95 1.77 1.32 1.21 1.24 1.15 0.91 0.82 0.86	53660 53614 53518 53448 53377 53307 53300 53200 53100	S 0 9 2 1 4 5 . _ M _ _ _ 5 . 5 C - - 5 0 . 7 1 . 8 0 . 9 0 . 1 0 0 1 1 2 1 2 5 1 4 0	236	132M
22 20 14 12 11 9.5 8.9 8.3 6.6 5.8 4.3 4.0	43.65 48.51 69.18 79.71 91.32 101.47 107.80 115.82 144.71 166.73 225.50 242.27	2160 2395 3366 3876 4246 4697 5172 5542 6601 7558 10054 10756	3.76 3.47 2.56 2.25 1.81 1.67 1.68 1.43 1.26 1.13 0.88 0.82	85776 86058 87340 87400 87357 87315 87400 87400 87266 87200 87100 87100	S 1 0 2 1 4 5 . _ M _ _ _ 5 . 5 C - - 5 0 . 7 1 . 8 0 . 9 0 . 1 0 0 1 1 2 1 2 5 1 4 0 1 6 0 2 1 2 2 5 0	333	132M
6.0 5.4 4.3	160.55 178.41 222.38	7408 8196 10256	1.14 1.01 0.83	87299 87375 87299	S 1 0 4 1 1 6 0 _ M _ _ _ 5 . 5 C - - 1 8 0 2 1 2	382	132M
176 125	8.23 11.57	367 513	1.01 0.83	11700 11600	S 0 6 2 1 8 . 0 _ M _ _ _ 7 . 5 A - - 1 1 .	86	132M
183 132 118 107 91 82 72 66	7.90 10.94 12.29 13.52 15.80 17.66 20.07 21.89	360 497 561 614 689 797 904 949	1.71 1.47 1.37 1.30 1.04 1.10 1.02 0.82	21957 23273 23732 24252 25632 25550 26100 27200	S 0 7 2 1 8 . 0 _ M _ _ _ 7 . 5 A - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 .	130	132M
186 131 118 106 93 82 73 66 59 53 45 41 37 33 29 26 21	7.77 11.01 12.24 13.61 15.54 17.60 19.76 22.03 24.47 27.22 31.78 35.20 39.51 43.64 49.26 54.60 69.64	355 504 561 622 688 803 899 966 1070 1184 1424 1525 1701 1937 2173 2322 3032	3.20 2.62 2.46 2.30 2.02 1.97 1.83 1.63 1.54 1.44 1.37 1.18 1.08 1.12 1.04 0.84 0.82	28647 30675 31350 32243 33809 34229 35239 36429 36922 37370 37565 39250 39671 38375 40800 41800 41600	S 0 8 2 1 8 . 0 _ M _ _ _ 7 . 5 A - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 4 5 . 5 0 . 5 6 . 7 1 .	173	132M

S SERIES

SELECTION TABLE

GEARED MOTORS

7.5 kW

4 POLE

7.5 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
32	44.55	1995	2.02	53652	S 0 9 2 1 4 5 . _ M _ _ _ 7 . 5 A - -	236	132M
29	49.49	2214	1.85	53616	5 0 .		
21	69.91	3082	1.38	53541	7 1 .		
19	77.18	3402	1.26	53476	8 0 .		
16	93.18	3891	1.21	53412	9 0 .		
14	103.53	4304	1.13	53347	S 0 9 2 1 1 0 0 _ M _ _ _ 7 . 5 A - -	236	132M
14	106.17	4628	0.96	53400	1 1 2		
12	119.38	5174	0.87	53300	1 2 5		
10	146.23	5959	0.89	53200	1 4 0		
9.0	161.44	6557	0.83	53100	1 6 0		
33	43.65	1975	3.61	82939	S 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	S 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		
122	7.90	540	1.14	23015	S 0 7 2 1 8 . 0 _ M _ _ _ 7 . 5 C - -	159	160M
88	10.94	746	1.14	24521	1 1 .		
78	12.29	836	1.07	25100	1 2 .		
71	13.52	918	1.01	25500	1 4 .		
54	17.66	1191	0.86	26700	1 8 .		
124	7.77	534	2.32	30421	S 0 8 2 1 8 . 0 _ M _ _ _ 7 . 5 C - -	202	160M
87	11.01	759	2.04	32526	1 1 .		
78	12.24	838	1.92	33336	1 2 .		
71	13.61	927	1.80	34184	1 4 .		
62	15.54	1029	1.57	36073	1 6 .		
55	17.60	1193	1.53	36200	1 8 .		
49	19.76	1338	1.43	37121	2 0 .		
44	22.03	1446	1.23	38868	2 2 .		
39	24.47	1600	1.14	39310	2 5 .		
35	27.22	1770	1.05	41000	2 8 .		
30	31.78	2114	1.05	40600	3 2 .		
27	35.20	2260	0.86	41800	3 6 .		
22	43.64	2887	0.85	41700	4 5 .		
87	10.98	760	3.73	51500	S 0 9 2 1 1 1 . _ M _ _ _ 7 . 5 C - -	265	160M
78	12.30	850	3.49	52800	1 2 .		
70	13.81	952	3.25	53800	1 4 .		
58	16.68	1108	2.73	53800	1 6 .		
54	17.79	1220	2.79	53800	1 8 .		
48	19.88	1357	2.60	53800	2 0 .		
42	22.96	1513	2.25	53800	2 2 .		
37	25.73	1685	2.11	53800	2 5 .		
33	28.89	1887	1.96	53800	2 8 .		
31	31.43	2119	1.92	53800	3 2 .		
26	37.22	2398	1.68	53800	3 6 .		
23	41.59	2679	1.56	53700	4 0 .		
22	44.55	2971	1.43	53602	4 5 .		
19	49.49	3300	1.30	53536	5 0 .		
17	57.66	3647	1.27	53600	5 6 .		
15	65.74	4129	1.16	53500	6 3 .		
14	69.91	4599	0.97	53400	7 1 .		
12	77.18	5067	0.88	53300	8 0 .		
10	93.18	5745	0.91	53200	9 0 .		
9.3	103.53	6354	0.85	53100	1 0 0		
41	23.23	1554	3.84	79500	S 1 0 2 1 2 2 . _ M _ _ _ 7 . 5 C - -	362	160M
38	25.27	1682	3.61	81400	2 5 .		
33	28.70	1902	3.28	84200	2 8 .		
30	31.85	2167	3.40	85000	3 2 .		
26	37.38	2463	2.67	87400	3 6 .		
24	40.36	2642	2.52	87400	4 0 .		
22	43.65	2945	2.76	84964	4 5 .		
20	48.51	3267	2.55	85388	5 0 .		
16	58.85	3798	1.87	87400	5 6 .		
14	66.62	4303	1.68	87400	6 3 .		
14	69.18	4590	1.88	87311	7 1 .		
12	79.71	5286	1.65	87400	8 0 .		
11	91.32	5790	1.33	87336	9 0 .		

S SERIES SELECTION TABLE GEARED MOTORS

7.5 kW

6 POLE

11.0 kW

4 POLE

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
9.5	101.47	6405	1.22	87273	S 1 0 2 1 1 0 0 _ M _ - _ _ 7 . 5 C - -	362	160M
8.9	107.80	7054	1.23	87400	1 1 2		
8.3	115.82	7557	1.05	87400	1 2 5		
6.6	144.71	9002	0.93	87200	1 4 0		
5.8	166.73	10306	0.83	87100	1 6 0		
6.0	160.55	10103	0.84	87299	S 1 0 4 1 1 6 0 _ M _ - _ _ 7 . 5 C - -	411	160M
184	7.90	526	1.17	21137	S 0 7 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	159	160M
132	10.94	727	1.01	22200	1 1 .		
118	12.29	820	0.94	22500	1 2 .		
107	13.52	898	0.89	22900	1 4 .		
187	7.77	520	2.19	28018	S 0 8 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	202	160M
132	11.01	737	1.79	29800	1 1 .		
119	12.24	820	1.68	30393	1 2 .		
107	13.61	909	1.57	31150	1 4 .		
93	15.54	1005	1.38	32825	1 6 .		
82	17.60	1174	1.35	32862	1 8 .		
73	19.76	1315	1.25	33681	2 0 .		
66	22.03	1413	1.12	35062	2 2 .		
59	24.47	1564	1.05	35418	2 5 .		
53	27.22	1731	0.98	35700	2 8 .		
46	31.78	2082	0.94	35100	3 2 .		
41	35.20	2229	0.81	37500	3 6 .		
182	7.97	539	3.93	44500	S 0 9 2 1 8 . 0 _ M _ - _ _ 1 1 . A - -	265	160M
132	10.98	741	3.26	47600	1 1 .		
118	12.30	831	3.05	48700	1 2 .		
105	13.81	928	2.85	50100	1 4 .		
87	16.68	1075	2.40	53100	1 6 .		
81	17.79	1194	2.45	53300	1 8 .		
73	19.88	1326	2.29	53800	2 0 .		
63	22.96	1473	1.98	53800	2 2 .		
56	25.73	1652	1.85	53800	2 5 .		
50	28.89	1841	1.73	53800	2 8 .		
46	31.43	2078	1.73	53800	3 2 .		
39	37.22	2355	1.48	53800	3 6 .		
35	41.59	2634	1.38	53700	4 0 .		
33	44.55	2916	1.38	53572	4 5 .		
29	49.49	3236	1.26	53515	5 0 .		
25	57.66	3601	1.13	53600	5 6 .		
22	65.74	4091	1.04	53500	6 3 .		
21	69.91	4505	0.95	53400	7 1 .		
19	77.18	4973	0.86	53300	8 0 .		
16	93.18	5687	0.83	53200	9 0 .		
62	23.23	1520	3.55	73000	S 1 0 2 1 2 2 . _ M _ - _ _ 1 1 . A - -	362	160M
57	25.27	1651	3.35	74000	2 5 .		
51	28.70	1869	3.05	75400	2 8 .		
46	31.85	2126	3.01	75100	3 2 .		
39	37.38	2424	2.50	79400	3 6 .		
36	40.36	2601	2.36	81000	4 0 .		
33	43.65	2887	2.47	80522	4 5 .		
30	48.51	3198	2.27	81258	5 0 .		
25	58.85	3753	1.76	87400	5 6 .		
22	66.62	4231	1.60	87400	6 3 .		
21	69.18	4512	1.68	82911	7 1 .		
18	79.71	5176	1.48	84754	8 0 .		
16	91.32	5716	1.25	87400	9 0 .		
14	101.47	6320	1.15	87331	1 0 0		
13	107.80	6945	1.25	87400	1 1 2		
13	115.82	7438	1.07	87400	1 2 5		
10	144.71	8873	0.87	87200	1 4 0		
9.0	160.55	9787	0.87	87299	S 1 0 4 1 1 6 0 _ M _ - _ _ 1 1 . A - -	411	160M

NOTE

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

S SERIES

SELECTION TABLE

GEARED MOTORS

11.0 kW

6 POLE

15.0 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
124	7.77	779	1.59	29500	S 0 8 2 1 8 . 0 _ M _ - _ _ 1 1 . C -	216	160L
88	11.01	1108	1.40	31200	1 1 .		
79	12.24	1223	1.32	31900	1 2 .		
71	13.61	1353	1.23	32600	S 0 8 2 1 1 4 . _ M _ - _ _ 1 1 . C -	216	160L
62	15.54	1502	1.08	34600	1 6 .		
55	17.60	1741	1.05	34100	1 8 .		
49	19.76	1953	0.98	34800	2 0 .		
44	22.03	2110	0.84	37100	2 2 .		
121	7.97	807	3.11	47360	S 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	S 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		
184	7.90	716	0.86	20200	S 0 7 2 1 8 . 0 _ M _ - _ _ 1 5 . A -	173	160L
187	7.77	707	1.61	27300	S 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	S 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	S 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 .		

S SERIES

SELECTION TABLE

GEARED MOTORS

15.0 kW

4 POLE

15.0 kW

6 POLE

18.5 kW

4 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
39	37.38	3294	1.84	77673	S 1 0 2 1 3 6 . _ M _ - _ _ 1 5 . A - -	376	160L
36	40.36	3535	1.74	79147	4 0 .		
33	43.65	3923	1.82	77759	4 5 .		
30	48.51	4347	1.67	78467	5 0 .		
25	58.85	5100	1.30	85327	5 6 .		
22	66.62	5750	1.18	85945	6 3 .		
21	69.18	6132	1.24	80870	7 1 .		
18	79.71	7034	1.09	83552	8 0 .		
16	91.32	7768	0.92	87400	9 0 .		
14	101.47	8589	0.84	87300	1 0 0		
122	7.97	1095	2.29	46400	S 0 9 2 1 8 . 0 _ M _ - _ _ 1 5 . C - -	365	180L
88	10.98	1505	1.89	49033	1 1 .		
79	12.30	1682	1.76	50033	1 2 .		
70	13.81	1886	1.64	50900	1 4 .		
58	16.68	2194	1.38	53179	1 6 .		
55	17.79	2415	1.41	51937	1 8 .		
49	19.88	2687	1.31	52351	2 0 .		
42	22.96	2995	1.14	53593	2 2 .		
38	25.73	3335	1.06	53595	2 5 .		
34	28.89	3736	0.99	53527	2 8 .		
31	31.43	4195	0.97	53459	3 2 .		
26	37.22	4748	0.85	53400	3 6 .		
122	7.95	1100	3.49	59266	S 1 0 2 1 8 . 0 _ M _ - _ _ 1 5 . C - -	462	180L
87	11.11	1533	3.30	63366	1 1 .		
80	12.08	1666	3.13	64500	1 2 .		
71	13.72	1887	2.90	66500	1 4 .		
58	16.63	2218	2.49	70700	1 6 .		
54	17.87	2445	2.47	70666	1 8 .		
50	19.29	2637	2.35	72300	2 0 .		
42	23.23	3077	1.94	76466	2 2 .		
38	25.27	3330	1.83	78100	2 5 .		
34	28.70	3765	1.66	80466	2 8 .		
30	31.85	4290	1.72	79300	3 2 .		
26	37.38	4876	1.35	84089	3 6 .		
24	40.36	5231	1.27	84710	4 0 .		
22	43.65	5830	1.39	81920	4 5 .		
20	48.51	6466	1.29	82873	5 0 .		
16	58.85	7518	0.94	87263	5 6 .		
15	66.62	8518	0.85	87300	6 3 .		
14	69.18	9086	0.95	87200	7 1 .		
184	7.97	895	2.37	43286	S 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . A - -	351	180M
134	10.98	1230	1.97	45945	1 1 .		
119	12.30	1379	1.84	46853	1 2 .		
106	13.81	1540	1.72	48051	1 4 .		
88	16.68	1783	1.45	51284	1 6 .		
83	17.79	1980	1.47	50655	1 8 .		
74	19.88	2201	1.38	51618	2 0 .		
64	22.96	2444	1.19	53663	2 2 .		
57	25.73	2741	1.11	53663	2 5 .		
51	28.89	3054	1.04	53663	2 8 .		
47	31.43	3447	1.04	53400	3 2 .		
39	37.22	3907	0.89	53500	3 6 .		
35	41.59	4369	0.83	53400	4 0 .		
33	44.55	4838	0.83	53400	4 5 .		
132	11.11	1251	3.44	59054	S 1 0 2 1 1 1 . _ M _ - _ _ 1 8 . A - -	448	180M
122	12.08	1362	3.27	60144	1 2 .		
107	13.72	1544	3.03	62045	1 4 .		
88	16.63	1809	2.61	65844	1 6 .		
82	17.87	2002	2.59	66038	1 8 .		
76	19.29	2156	2.47	67583	2 0 .		
63	23.23	2522	2.14	70970	2 2 .		
58	25.27	2739	2.02	71794	2 5 .		
51	28.70	3101	1.84	72890	2 8 .		
46	31.85	3528	1.81	71292	3 2 .		
39	37.38	4021	1.51	76163	3 6 .		
36	40.36	4316	1.42	77526	4 0 .		

S SERIES

SELECTION TABLE

GEARED MOTORS

18.5 kW

4 POLE

18.5 kW

6 POLE

22.0 kW

4 POLE

22.0 kW

6 POLE

NOTE

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

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
34 30 25 22 21 18	43.65 48.51 58.85 66.62 69.18 79.71	4790 5306 6226 7019 7486 8586	1.49 1.37 1.06 0.96 1.01 0.89	75342 76025 83513 84672 79085 82500	S 1 0 2 1 4 5 . _ M _ - _ _ 1 8 . A - - 5 0 . 5 6 . 6 3 . 7 1 . 8 0 .	448	180M
122 89 79 71 58 55 49 42 38 34	7.97 10.98 12.30 13.81 16.68 17.79 19.88 22.96 25.73 28.89	1344 1847 2064 2314 2692 2963 3297 3675 4092 4584	1.87 1.54 1.44 1.34 1.13 1.15 1.07 0.93 0.87 0.81	45560 47882 48742 49546 52889 51068 51675 53496 53500 53400	S 0 9 2 1 8 . 0 _ M _ - _ _ 1 8 . C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 .	423	200L
123 88 81 71 59 55 51 42 39 34 31 26 24	7.95 11.11 12.08 13.72 16.63 17.87 19.29 23.23 25.27 28.70 31.85 37.38 40.36	1350 1881 2044 2316 2722 3001 3235 3775 4086 4620 5264 5983 6418	2.84 2.69 2.55 2.37 2.03 2.01 1.92 1.58 1.49 1.35 1.40 1.10 1.04	58597 62417 63473 65333 69673 69157 70666 75051 76560 78724 76640 82544 83455	S 1 0 2 1 8 . 0 _ M _ - _ _ 1 8 . C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 .	522	200L
184 134 119 106 88 83 74 64 57 51	7.97 10.98 12.30 13.81 16.68 17.79 19.88 22.96 25.73 28.89	1064 1462 1640 1831 2120 2355 2617 2906 3260 3632	1.99 1.65 1.55 1.45 1.22 1.24 1.16 1.00 0.94 0.88	42720 45173 45992 47096 50436 49421 50600 53600 53600 53600	S 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . A - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 .	365	180L
185 132 122 107 88 82 76 63 58 51 46 39 36 34 30 25 22 21	7.95 11.11 12.08 13.72 16.63 17.87 19.29 23.23 25.27 28.70 31.85 37.38 40.36 43.65 48.51 58.85 66.62 69.18	1066 1488 1620 1836 2151 2381 2564 2999 3258 3687 4195 4782 5133 5696 6310 7405 8347 8903	3.50 2.89 2.75 2.55 2.20 2.18 2.08 1.80 1.70 1.55 1.53 1.27 1.20 1.25 1.15 0.89 0.81 0.85	54676 58426 59464 61273 65164 65029 66502 70023 70764 71719 69515 74652 75905 72925 73582 81700 83400 77300	S 1 0 2 1 8 . 0 _ M _ - _ _ 2 2 . A - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 . 5 0 . 5 6 . 6 3 . 7 1 .	462	180L
122 89 79 71 58 55 49	7.97 10.98 12.30 13.81 16.68 17.79 19.88	1599 2197 2455 2752 3201 3523 3921	1.57 1.29 1.21 1.13 0.95 0.96 0.90	44720 46731 47451 48193 52600 50200 51000	S 0 9 2 1 8 . 0 _ M _ - _ _ 2 2 . C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 .	423	200L
123 88 81 71 59 55 51 42 39 34 31 26 24	7.95 11.11 12.08 13.72 16.63 17.87 19.29 23.23 25.27 28.70 31.85 37.38 40.36	1605 2236 2431 2754 3237 3568 3848 4490 4859 5494 6260 7115 7633	2.39 2.26 2.15 1.99 1.71 1.69 1.61 1.33 1.25 1.14 1.18 0.92 0.87	57928 61468 62446 64166 68646 67648 69033 73635 75020 76982 73980 81000 82200	S 1 0 2 1 8 . 0 _ M _ - _ _ 2 2 . C - - 1 1 . 1 2 . 1 4 . 1 6 . 1 8 . 2 0 . 2 2 . 2 5 . 2 8 . 3 2 . 3 6 . 4 0 .	522	200L

S SERIES

SELECTION TABLE

GEARED MOTORS

30.0 kW

4 POLE

30.0 kW

6 POLE

37.0 kW

4 POLE

45.0 kW

4 POLE

NOTE

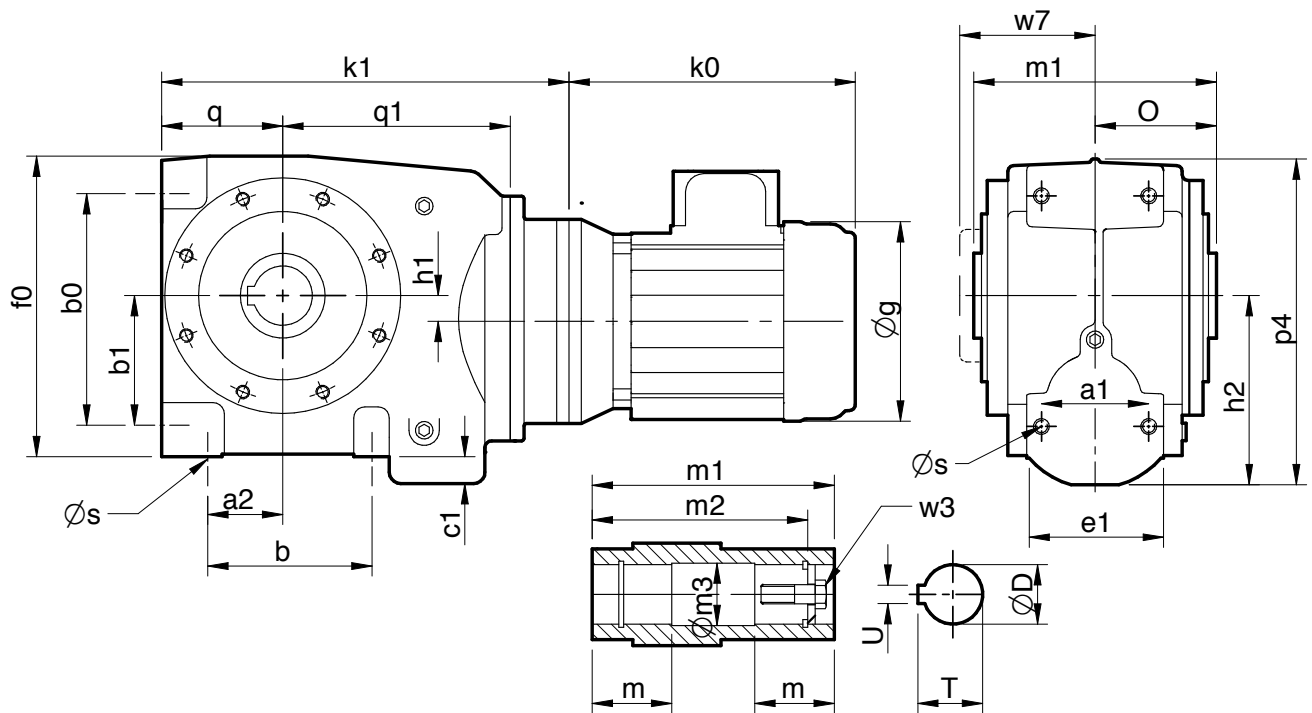
Other output speeds are available using 2 and 8 pole motors. Please contact our Application Engineers

N2 RPM	i	M2 Nm	Fm	N	Unit Designation	kg	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 - 20 Spaces to be filled when entering order	Weight of Base Mount unit	Motor Size
184	7.97	1452	1.46	41426	S 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . A -	423	200L
134	10.98	1994	1.21	43408	1 1 .		
119	12.30	2237	1.14	44023	1 2 .		
106	13.81	2497	1.06	44911	1 4 .		
88	16.68	2891	0.89	48500	1 6 .		
83	17.79	3212	0.91	46600	1 8 .		
185	7.95	1454	2.56	53641	S 1 0 2 1 8 . 0 _ M _ - _ _ 3 0 . A -	522	200L
132	11.11	2029	2.12	56991	1 1 .		
122	12.08	2209	2.01	57911	1 2 .		
107	13.72	2504	1.87	59508	1 4 .		
88	16.63	2934	1.61	63611	1 6 .		
82	17.87	3247	1.60	62723	1 8 .		
76	19.29	3497	1.52	64032	2 0 .		
63	23.23	4089	1.32	67858	2 2 .		
58	25.27	4442	1.25	68411	2 5 .		
51	28.70	5028	1.14	69042	2 8 .		
46	31.85	5721	1.12	65453	3 2 .		
39	37.38	6520	0.93	71200	3 6 .		
36	40.36	6999	0.88	72200	4 0 .		
123	7.97	2169	1.16	42800	S 0 9 2 1 8 . 0 _ M _ - _ _ 3 0 . C -	513	225M
89	10.98	2980	0.95	44100	1 1 .		
80	12.30	3331	0.89	44500	1 2 .		
71	13.81	3733	0.83	45100	1 4 .		
123	7.95	2178	1.76	56400	S 1 0 2 1 8 . 0 _ M _ - _ _ 3 0 . C -	612	225M
88	11.11	3034	1.67	59300	1 1 .		
81	12.08	3299	1.58	60100	1 2 .		
71	13.72	3736	1.47	61500	1 4 .		
59	16.63	4392	1.26	66300	1 6 .		
55	17.87	4841	1.25	64200	1 8 .		
51	19.29	5220	1.19	65300	2 0 .		
42	23.23	6091	0.98	70400	2 2 .		
39	25.27	6593	0.92	71500	2 5 .		
34	28.70	7454	0.84	73000	2 8 .		
31	31.85	8493	0.87	67900	3 2 .		
185	7.97	1784	1.19	40294	S 0 9 2 1 8 . 0 _ M _ - _ _ 3 7 . A -	478	225S
134	10.98	2451	0.99	41864	1 1 .		
120	12.30	2749	0.92	42300	1 2 .		
107	13.81	3069	0.86	43000	1 4 .		
186	7.95	1787	2.09	52735	S 1 0 2 1 8 . 0 _ M _ - _ _ 3 7 . A -	577	225S
133	11.11	2494	1.72	55735	1 1 .		
122	12.08	2715	1.64	56552	1 2 .		
108	13.72	3078	1.52	57964	1 4 .		
89	16.63	3606	1.31	62252	1 6 .		
83	17.87	3991	1.30	60705	1 8 .		
76	19.29	4298	1.24	61870	2 0 .		
63	23.23	5026	1.07	65964	2 2 .		
58	25.27	5460	1.01	66352	2 5 .		
51	28.70	6181	0.92	66700	2 8 .		
46	31.85	7032	0.91	61900	3 2 .		
185	7.97	2170	0.98	39000	S 0 9 2 1 8 . 0 _ M _ - _ _ 4 5 . A -	513	225M
134	10.98	2982	0.81	40100	1 1 .		
186	7.95	2173	1.72	51700	S 1 0 2 1 8 . 0 _ M _ - _ _ 4 5 . A -	612	225M
133	11.11	3033	1.42	54300	1 1 .		
122	12.08	3302	1.35	55000	1 2 .		
108	13.72	3743	1.25	56200	1 4 .		
89	16.63	4386	1.08	60700	1 6 .		
83	17.87	4854	1.07	58400	1 8 .		
76	19.29	5228	1.02	59400	2 0 .		
63	23.23	6113	0.88	63800	2 2 .		
58	25.27	6641	0.83	64000	2 5 .		

S SERIES

DIMENSIONS

DOUBLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
S0321	54	35	63	80	40	9	70	139	5.3	79.5	62	148	54	109
S0421	56	35	80	118	65	7	80	158	15	93	65	168	64	119
S0521	68	45	100	142	77	16	86	177	13	112	70	200	68	134
S0621	80	56	122	172	96	20	102	218	17	139.5	90	243	90	169

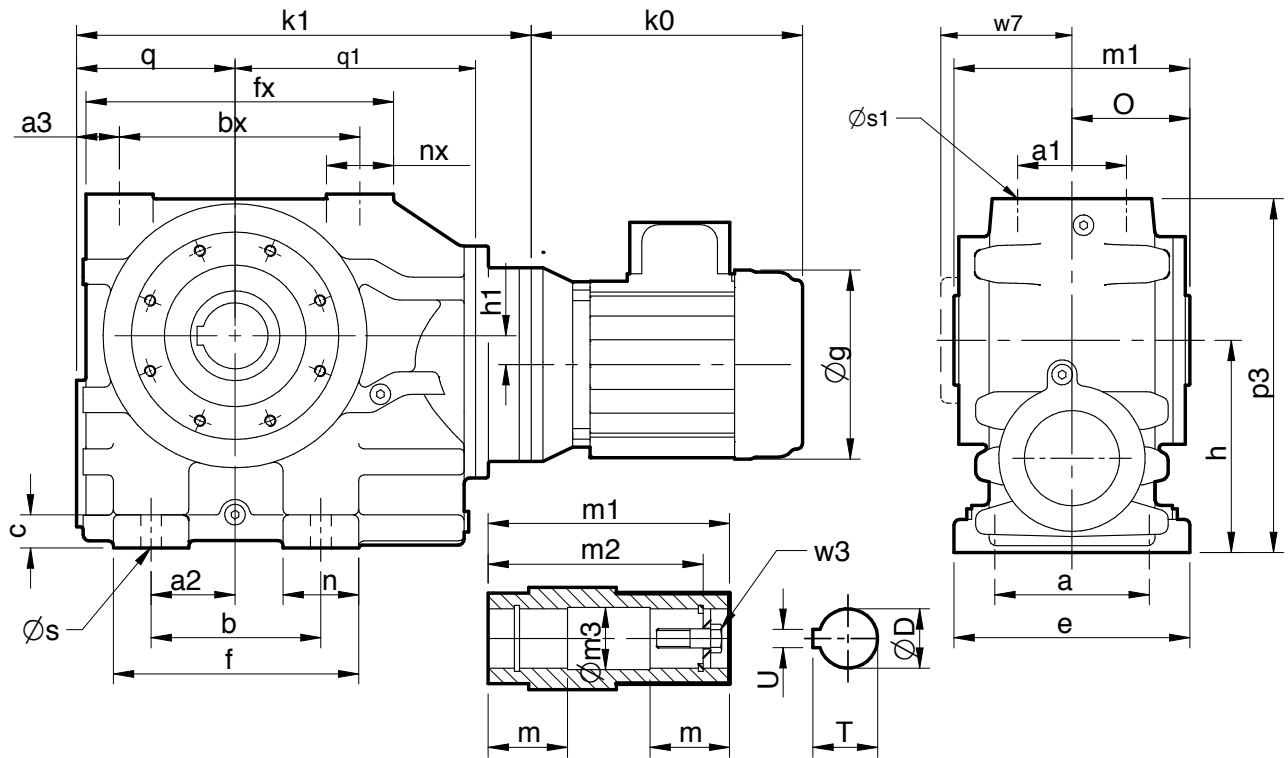
Size	s	w7	D	m	m1	m2	m3	T	U	w3
S0321	M8 x 1.25 x 15	70	20	52	124	104	20.2	22.9	6	M6 x 1.0 x 40
S0421	M10 x 1.5 x 20	74.5	30	54	130	122	30.2	33.5	8	M10 x 1.5 x 50
S0521	M10 x 1.5 x 18	79	35	56	140	127	35.3	38.5	10	M12 x 1.75 x 55
S0621	M12 x 1.75 x 20	101	45	70	180	156	45.3	49	14	M16 x 2.0 x 70

Size			S0321	S0421	S0521	S0621
	k0	g	k1	k1	k1	k1
63	195	125	197	217	236	271
71	220	140	201	221	240	277
80	240	160	214	234	253	295
90S	260	180	224	244	263	305
90L	280	180	224	244	263	305
100L	310	200	232	252	271	332
112M	330	225	232	252	271	332
132S	380	260	-	-	-	332
132M	420	260	-	-	-	332

S SERIES

DIMENSIONS

DOUBLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
S0721	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109	302	143	220
S0821	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125	375	168	255
S0921	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150	457	195	300
S1021	300	150	170	62.5	310	345	45	360	420	460	335	65	110	107	175	565	235	355

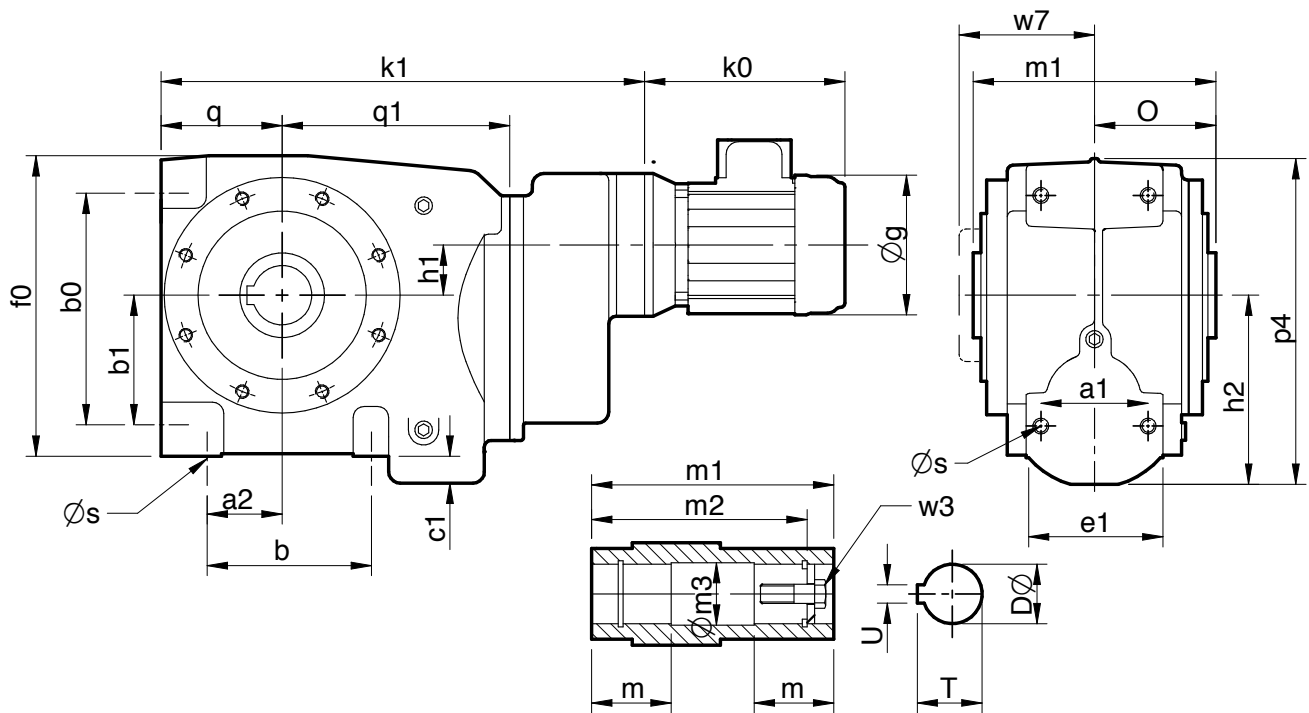
Size	s	s1	w7	D	m	m1	m2	m3	T	U	w3
S0721	18	M20 x 2.5 x 34	125	60	79	218	188	60.5	64.6	18	M20 x 2.5, 80
S0821	22	M20 x 2.5 x 34	143	70	90	250	220	70.5	75.1	20	M20 x 2.5, 80
S0921	26	M24 x 3.0 x 45	169	90	107.5	300	265	90.5	95.6	25	M24 x 3.0 x 110
S1021	26	M24 x 3.0 x 45	198	100	132.5	350	313	100.5	106.6	28	M24 x 3.0 x 110

Size			S0721	S0821	S0921	S1021
	k0	g	k1	k1	k1	k1
80	240	160	400	505	553	-
90S	260	180	410	505	553	-
90L	280	180	410	505	553	-
100L	310	200	422	511	559	637
112M	330	225	422	511	559	637
132S	380	260	444	511	559	637
132M	420	260	444	511	559	637
160M	480	320	452	541	594	672
160L	530	320	452	541	594	672
180M	560	360	-	-	594	672
180L	595	360	-	-	594	672
200L	660	400	-	-	594	672
225S	680	450	-	-	621	699
225M	725	450	-	-	621	699

S SERIES

DIMENSIONS

TRIPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
S0331	54	35	63	80	40	9	70	139	30.75	79.5	62	148	54	109
S0431	56	35	80	118	65	7	80	158	21.2	93	65	168	64	119
S0531	68	46	100	142	77	16	86	177	23	112	70	200	68	134
S0631	80	56	122	172	96	20	102	218	30	139.5	90	243	90	169

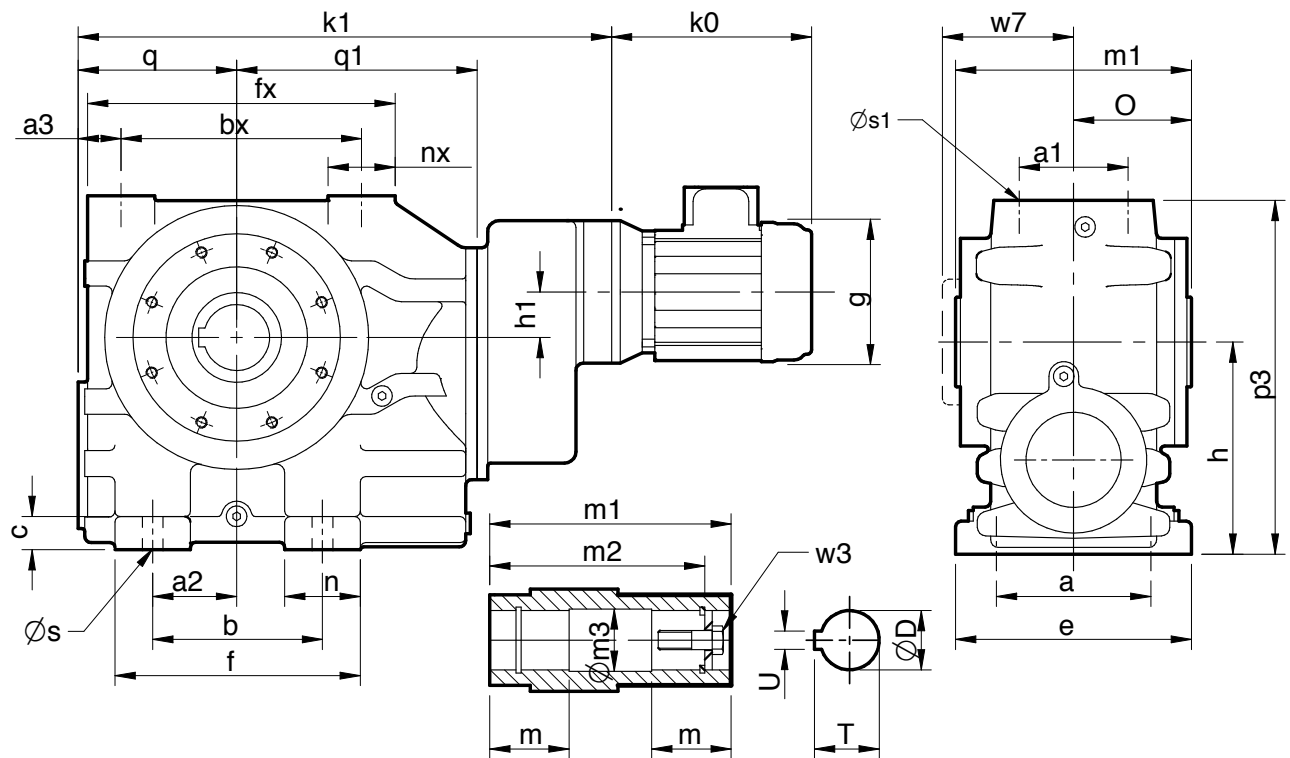
Size	s	w7	D	m	m1	m2	m3	T	U	w3
S0331	M8 x 1.25 x 15	70	20	52	124	104	20.2	22.9	6	M6 x 1.0 x 40
S0431	M10 x 1.5 x 18	74.5	30	54	130	122	30.2	33.5	8	M10 x 1.5 x 50
S0531	M10 x 1.5 x 18	79	35	56	140	127	35.3	38.5	10	M12 x 1.75 x 55
S0631	M12 x 1.75 x 20	101	45	70	180	156	45.3	49	14	M16 x 2.0 x 70

Size			S0331	S0431	S0531	S0631
	k0	g	k1	k1	k1	k1
63	195	125	253	273	292	359
71	220	140	257	277	296	363
80	240	160	270	290	309	376
90S	260	180	280	300	319	386
90L	280	180	280	300	319	386
100L	310	200	288	308	327	394
112M	330	225	288	308	327	394

S SERIES

DIMENSIONS

TRIPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
S0731	150	100	75	35.5	135	215	28	185	202	280	180	34	67	63	109	302	143	220

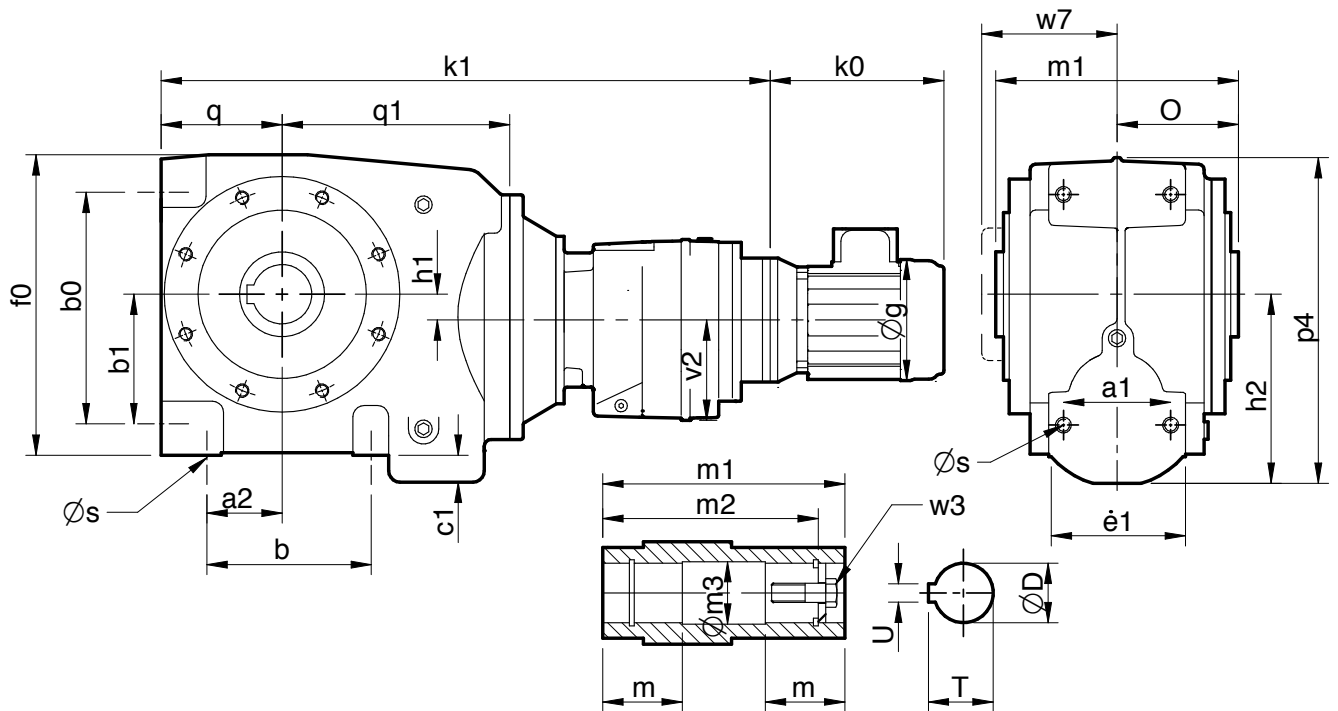
Size	s	s1	w7	D	m	m1	m2	m3	T	U	w3
S0731	18	M20 x 2.5 x 34	125	60	79	218	188	60.5	64.6	18	M20 x 2.5 x 80

Size	S0721		
	k0	g	k1
63	195	125	461
71	220	140	467
80	240	160	485
90S	260	180	495
90L	280	180	495
100L	310	200	522
112M	330	225	522
132S	380	260	522
132M	420	260	522

S SERIES

DIMENSIONS

QUADRUPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
S0341	54	35	63	80	40	9	70	139	5.3	79.5	62	148	54	109
S0441	56	35	80	118	65	7	80	158	15	93	65	168	64	119
S0541	68	45	100	142	77	16	86	177	13	112	70	200	68	134
S0641	80	56	122	172	96	20	102	218	17	139.5	90	243	90	169

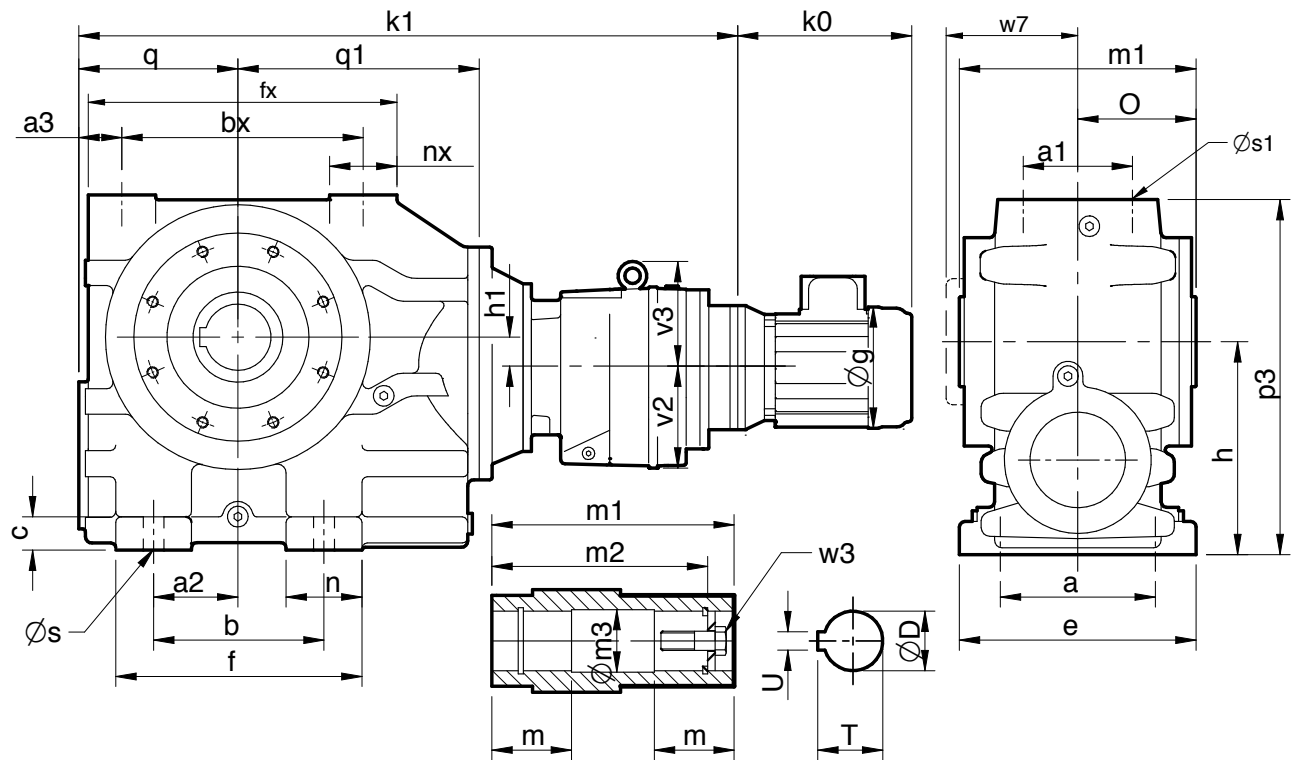
Size	s	v2	w7	D	m	m1	m2	m3	T	U	w3
S0341	M8 x 1.25 x 15	76	70	20	52	124	104	20.2	22.9	6	M6 x 1.0 x 40
S0441	M10 x 1.5 x 20	76	74.5	30	54	130	122	30.2	33.5	8	M10 x 1.5 x 50
S0541	M10 x 1.5 x 18	76	79	35	56	140	127	35.3	38.5	10	M12 x 1.75 x 55
S0641	M12 x 1.75 x 20	91	101	45	70	180	156	45.3	49	14	M16 x 2.0 x 70

Size			S0341	S0441	S0541	S0641
	k0	g	k1	k1	k1	k1
63	195	125	383	403	422	495
71	220	140	387	407	426	499
80	240	160	400	420	439	512
90S	260	180	410	430	449	522
90L	280	180	410	430	449	522
100L	310	200	418	438	457	530
112M	330	225	418	438	457	530

S SERIES

DIMENSIONS

QUADRUPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
S0741	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109	302	143	220
S0841	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125	375	168	255
S0941	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150	457	195	300
S1041	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	D	m	m1	m2	m3	T	U	w3
S0741	18	M20 x 2.5 x 34	91	-	125	60	79	218	188	60.5	64.6	18	M20 x 2.5 x 80
S0841	22	M20 x 2.5 x 34	115	-	143	70	90	250	220	70.5	75.1	20	M20 x 2.5 x 80
S0941	26	M24 x 3.0 x 45	115	-	169	90	107.5	300	265	90.5	95.6	25	M24 x 3.0 x 110
S1041	26	M24 x 3.0 x 45	140	155	198	100	132.5	350	313	100.5	106.6	28	M24 x 3.0 x 110

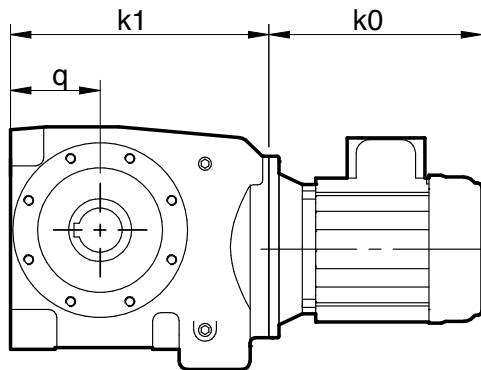
Size			S0741	S0841	S0941	S1041
	k0	g	k1	k1	k1	k1
63	195	125	600	680	763	-
71	220	140	604	686	769	-
80	240	160	617	704	787	919
90S	260	180	627	714	797	929
90L	280	180	627	714	797	929
100L	310	200	635	741	824	941
112M	330	225	635	741	824	941
132S	380	260	-	741	824	963
132M	420	260	-	741	824	963
160M	480	320	-	-	-	971
160L	530	320	-	-	-	971

S SERIES

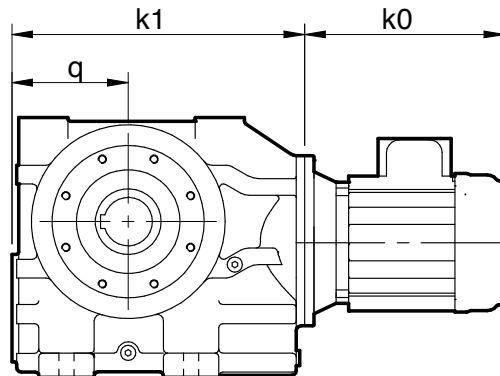
DIMENSIONS

UNITS WITH COMPACT MOTOR

Double Reduction Units



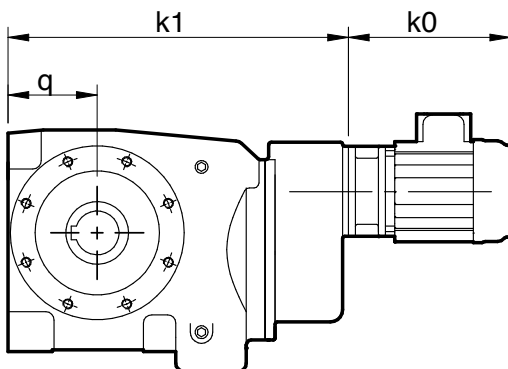
S0321 - S0621



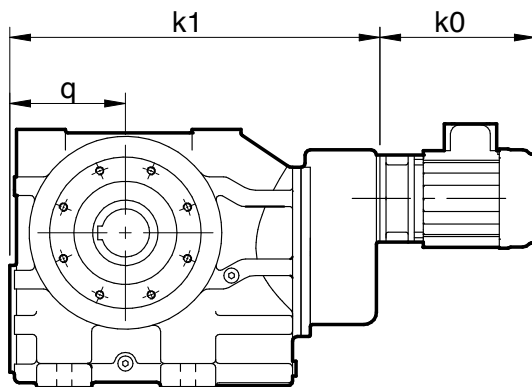
S0721 - S0821

Size	S0321				S0421			S0521			S0621			S0721			S0821		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.25 kW	140	163	230	54	183	230	64	202	230	68	-	-	-	-	-	-	-	-	-
0.37 kW	140	163	230	54	183	230	64	202	230	68	-	-	-	-	-	-	-	-	-
0.55 kW	158	163	280	54	183	280	64	202	280	68	259	265	90	-	-	-	-	-	-
0.75 kW	158	163	300	54	183	300	64	202	300	68	259	285	90	-	-	-	-	-	-
1.1 kW	180	163	330	54	183	330	64	202	330	68	259	315	90	363	300	143	-	-	-
1.5 kW	180	163	365	54	183	365	64	202	365	68	259	350	90	363	335	143	-	-	-
2.2 kW	198	-	-	-	-	-	-	-	-	-	259	355	90	363	340	143	423	335	168
3.0 kW	198	-	-	-	-	-	-	-	-	-	259	365	90	363	350	143	423	350	168
4.0 kW	222	-	-	-	-	-	-	-	-	-	259	424	90	363	410	143	423	400	168
5.5 kW	262	-	-	-	-	-	-	-	-	-	259	495	90	363	480	143	423	475	168
7.5 kW	262	-	-	-	-	-	-	-	-	-	-	-	-	363	480	143	423	475	168

Triple Reduction Units



S0331 - S0631



S0731 - S0831

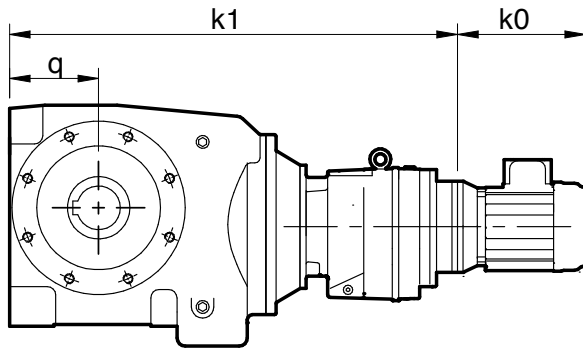
Size	S0331				S0431			S0531			S0631			S0731		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.25 kW	140	219	230	54	239	230	64	258	230	68	325	230	90	-	-	-
0.37 kW	140	219	230	54	239	230	64	258	230	68	325	230	90	-	-	-
0.55 kW	160	219	280	54	239	280	64	258	280	68	325	280	90	449	265	143
0.75 kW	160	219	300	54	239	300	64	258	300	68	325	300	90	449	285	143
1.1 kW	180	210	330	54	239	330	64	258	330	68	325	330	90	449	315	143
1.5 kW	180	219	365	54	239	365	64	258	365	68	325	365	90	449	350	143
2.2 kW	200	-	-	-	-	-	-	-	-	-	-	-	-	449	355	143
3.0 kW	200	-	-	-	-	-	-	-	-	-	-	-	-	449	365	143
4.0 kW	225	-	-	-	-	-	-	-	-	-	-	-	-	449	424	143
5.5 kW	260	-	-	-	-	-	-	-	-	-	-	-	-	449	495	143

S SERIES

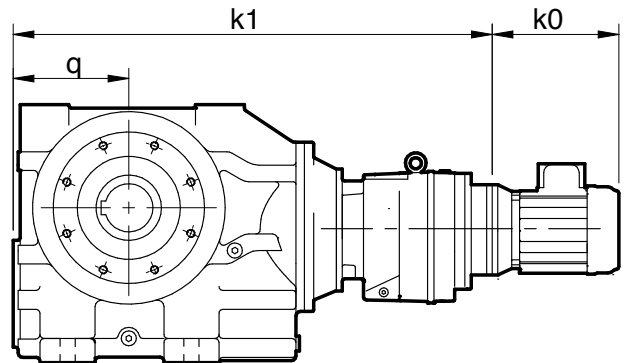
DIMENSIONS

UNITS WITH COMPACT MOTOR

Quadruple Reduction Units



S0341 - S0641



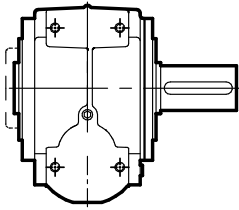
S0741 - S0841

Size	S0341				S0441			S0541			S0641			S0741		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.25 kW	140	349	230	54	369	230	64	388	230	68	461	230	90	566	230	143
0.37 kW	140	349	230	54	369	230	64	388	230	68	461	230	90	566	230	143
0.55 kW	160	349	280	54	369	280	64	388	280	68	461	280	90	566	280	143
0.75 kW	160	349	300	54	369	300	64	388	300	68	461	300	90	566	300	143

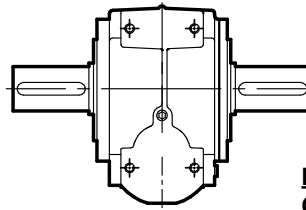
Size	S0841				S0941			S1041		
	g	k1	k0	q	k1	k0	q	k1	k0	q
0.55 kW	160	668	265	168	751	265	195	-	-	-
0.75 kW	160	668	285	168	751	285	195	-	-	-
1.1 kW	180	668	315	168	751	315	195	882	300	235
1.5 kW	180	668	350	168	751	350	195	882	335	235
2.2 kW	200	668	355	168	751	355	195	882	340	235
3.0 kW	200	668	365	168	751	365	195	882	350	235
4.0 kW	225	668	424	168	751	424	195	882	410	235
5.5 kW	260	668	495	168	751	495	195	882	480	235
7.5 kW	-	-	-	-	-	-	-	882	480	235

S SERIES

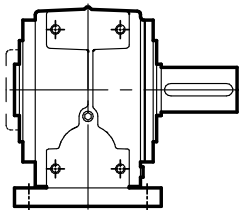
GEAR UNIT OPTIONS



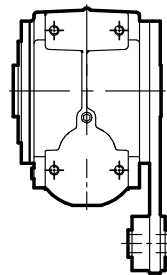
**Single Extended
Outputshaft**



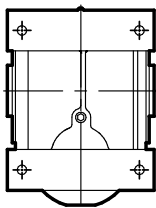
**Double Extended
Outputshaft**



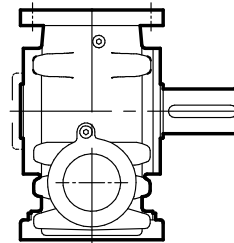
Base Mounted Feet



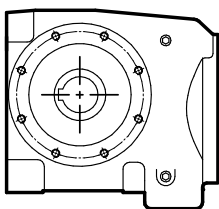
Torque Bracket



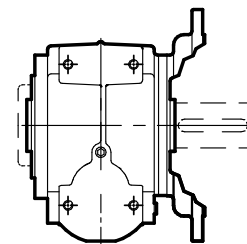
End Mounted Feet



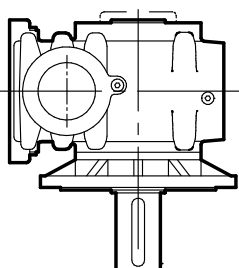
Top Mounted Feet



B14 (C) Flange Mounting



B5 (D) Flange Mounting



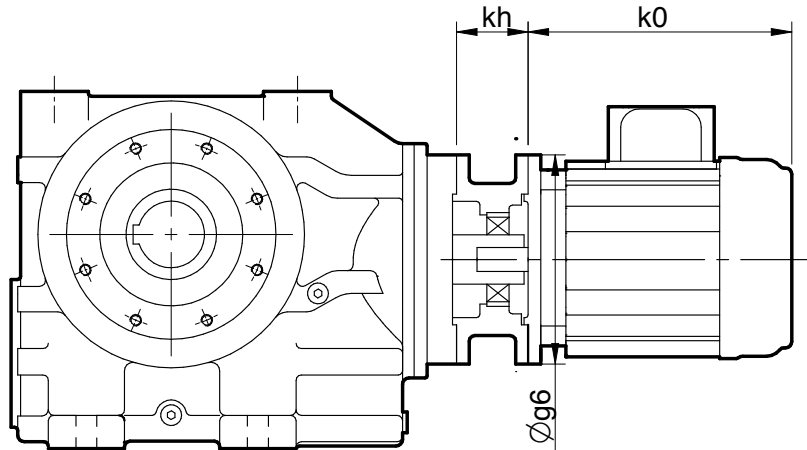
**Agitator Units
Non-Standard
Special Build**

S SERIES

MOTORISED BACKSTOP MODULE

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

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



Warning

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

IEC B5 FLANGE

Motor Frame Size	Lift off Speed (n min) (rev/min)	Rated Locking Torque (T max') (at motor) (Nm)	Øg6	kh
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

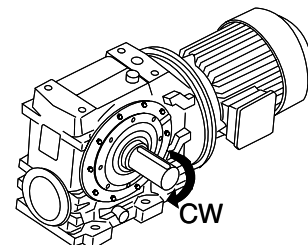
NEMA C FLANGE

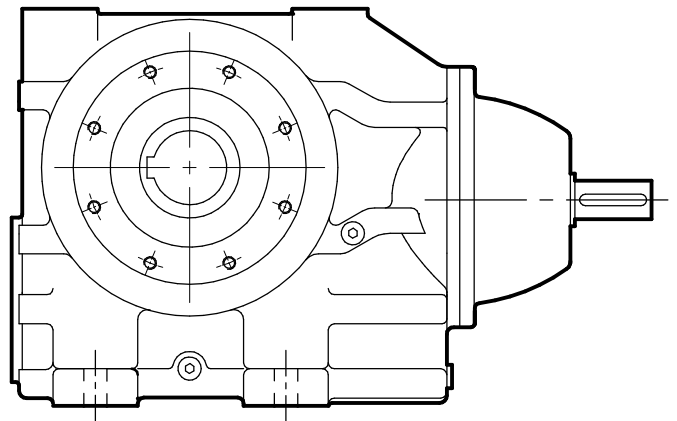
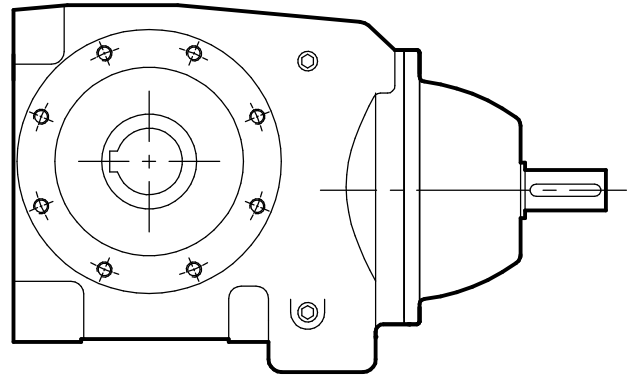
Motor Frame Size	Lift off Speed (n min) (rev/min)	Rated Locking Torque (T max') (at motor) (Nm)	Øg6	kh
182TC / 184TC	670	300	228	95.25
213TC / 215TC	670	300	228	95.25
254TC / 256TC	620	940	228	120.65
284TC / 286TC	620	940	280	136.50
324TC / 326TC	550	1260	330	152.40

When a backstop module is fitted dimension kh 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)

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





REDUCER

S SERIES

S SERIES

OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

Maximum permissible overhung loads

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

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

Overhung load (Newtons)

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

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

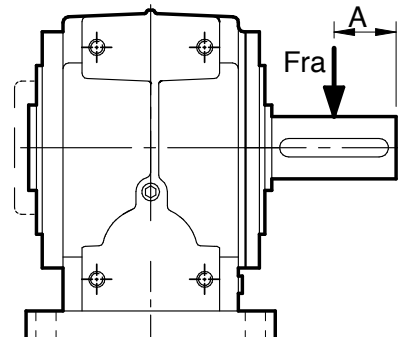
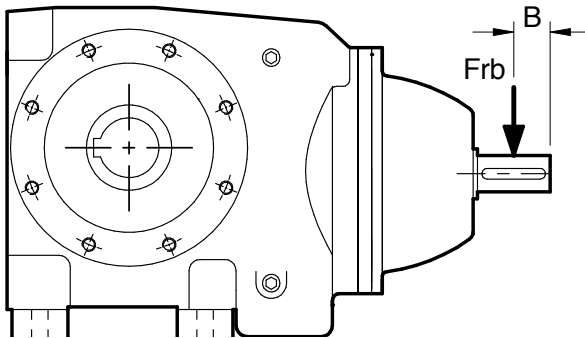
1 Newton = 0.10197kG (0.2248 lbs)

Overhung load

K (factor)

Chain sprocket*	1.00
Spur or helical pinion	1.25
Vee belt sheave	1.50
Flat belt pulley	2.00

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



Distance midway along the shaft extension

Size of unit	No. of Reductions	Dimension A (mm)	Dimension B (mm)
S03	2 - 3	17.5	20
S04	2 - 3	23	20
S05	2 - 3	30	20
S06	2 - 5	31.5	20
S07	2	38	25
S07	3 - 5	38	20
S08	2	60	30
S08	4 - 5	60	20
S09	2	67.5	40
S09	4 - 5	67.5	20
S10	2	85	55
S10	4	85	25
S10	5	85	20

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

	S03	S04	S05	S06	S07	S08	S09	S10
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.

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

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0321	8.0	8.591	169	80	83	1.70	2.78	112	88	83	1.24	2.78	338	66	84	2.78	2.78	84	95	82	1.02	2.78
	11.	11.61	125	87	83	1.37	2.78	83	96	81	1.03	2.78	250	74	84	2.30	2.78	62	102	80	0.83	2.78
	12.	13.20	110	90	82	1.26	2.78	73	99	81	0.93	2.78	220	77	84	2.11	2.78	55	105	80	0.75	2.78
	14.	14.95	97	93	82	1.15	2.78	64	102	80	0.86	2.78	194	79	83	1.93	2.78	48	109	80	0.69	2.78
	16.	16.36	89	87	73	1.11	2.78	59	96	71	0.83	2.78	177	69	74	1.73	2.78	44	103	70	0.68	2.78
	18.	19.12	76	99	81	0.97	2.78	50	108	80	0.71	2.78	152	84	83	1.61	2.78	38	115	79	0.58	2.78
	20.	20.61	70	101	81	0.92	2.78	47	110	79	0.68	2.78	141	86	83	1.53	2.78	35	117	79	0.55	2.78
	22.	22.11	66	94	72	0.90	2.78	43	104	70	0.68	2.78	131	79	74	1.47	2.78	33	111	69	0.55	2.78
	25.	25.14	58	97	71	0.83	2.78	38	107	69	0.62	2.78	115	82	73	1.36	2.78	29	114	68	0.51	2.78
	28.	28.48	51	85	70	0.65	2.78	34	111	69	0.57	2.78	102	85	73	1.24	2.78	25	118	68	0.46	2.78
	32.	33.71	43	113	79	0.64	2.78	28	125	78	0.48	2.78	86	98	81	1.09	2.78	22	137	78	0.40	2.78
	36.	36.43	40	107	69	0.65	2.78	26	117	68	0.47	2.78	80	91	72	1.05	2.78	20	125	67	0.39	2.78
	40.	39.26	37	110	68	0.63	2.78	24	120	68	0.45	2.78	74	93	72	1.00	2.78	18	127	66	0.37	2.78
	45.	45.50	32	122	79	0.52	2.78	21	122	77	0.35	2.78	64	105	80	0.88	2.78	16	149	76	0.33	2.78
	50.	53.31	27	127	78	0.46	2.78	18	145	77	0.36	2.78	54	109	80	0.78	2.78	14	149	76	0.28	2.78
	56.	56.19	26	120	68	0.48	2.78	17	131	66	0.36	2.78	52	104	70	0.80	2.78	13	141	65	0.29	2.78
	63.	64.21	23	124	67	0.44	2.78	15	135	65	0.33	2.78	45	107	70	0.72	2.78	11	147	64	0.27	2.78
	71.	74.55	19	143	76	0.38	2.78	13	149	76	0.26	2.78	39	124	78	0.65	2.78	9.7	149	75	0.20	2.78
	80.	82.83	18	147	76	0.35	2.78	12	150	75	0.24	2.78	35	127	78	0.60	2.78	8.8	150	75	0.18	2.78
	90.	86.67	17	139	66	0.37	2.78	11	150	64	0.27	2.78	33	121	69	0.61	2.78	8.4	150	63	0.21	2.78
	100	101.5	14	143	65	0.33	2.78	9.5	150	63	0.24	2.78	29	124	68	0.55	2.78	7.1	150	63	0.18	2.78
	112	114.3	13	129	75	0.23	2.78	8.4	150	75	0.18	2.78	25	132	77	0.46	2.78	6.3	150	74	0.13	2.78
	125	129.0	11	127	75	0.20	2.78	7.4	150	74	0.16	2.78	22	130	77	0.40	2.78	5.6	150	73	0.12	2.78
	140	142.0	10	149	63	0.25	2.78	6.8	150	62	0.17	2.78	20	133	66	0.43	2.78	5.1	150	61	0.13	2.78
	160	157.8	9.2	150	63	0.23	2.78	6.1	150	62	0.15	2.78	18	136	66	0.40	2.78	4.6	150	61	0.12	2.78
	212	217.8	6.7	150	62	0.17	2.78	4.4	150	61	0.11	2.78	13	146	65	0.31	2.78	3.3	150	60	0.09	2.78
	250	247.5	5.9	150	61	0.15	2.78	3.9	150	60	0.10	2.78	12	149	64	0.29	2.78	2.9	150	59	0.08	2.78
S0331	100	105.4	14	150	74	0.29	2.78	9.1	150	74	0.19	2.78	28	126	75	0.48	2.78	6.9	150	73	0.15	2.78
	118	120.4	12	150	74	0.26	2.78	8.0	150	74	0.17	2.78	24	132	75	0.44	2.78	6.0	150	73	0.13	2.78
	132	130.1	11	150	63	0.28	2.78	7.4	150	61	0.19	2.78	22	120	64	0.44	2.78	5.6	150	60	0.15	2.78
	150	140.2	10	150	63	0.26	2.78	6.8	150	61	0.18	2.78	21	122	64	0.41	2.78	5.2	150	60	0.14	2.78
	160	162.5	8.9	150	73	0.19	2.78	5.9	150	73	0.13	2.78	18	146	75	0.36	2.78	4.5	150	72	0.10	2.78
	180	190.4	7.6	150	73	0.16	2.78	5.0	150	73	0.11	2.78	15	149	75	0.32	2.78	3.8	150	72	0.083	2.78
	200	200.7	7.2	150	61	0.19	2.78	4.8	150	60	0.13	2.78	14	136	63	0.33	2.78	3.6	150	59	0.096	2.78
	225	229.3	6.3	150	61	0.16	2.78	4.2	150	59	0.11	2.78	13	142	62	0.30	2.78	3.2	150	59	0.084	2.78
	265	266.2	5.4	150	72	0.12	2.78	3.6	150	71	0.080	2.78	11	149	73	0.23	2.78	2.7	150	71	0.060	2.78
	280	295.8	4.9	150	71	0.11	2.78	3.2	150	71	0.072	2.78	9.8	150	73	0.21	2.78	2.5	150	71	0.054	2.78
	315	309.5	4.7	150	59	0.12	2.78	3.1	150	58	0.084	2.78	9.4	150	61	0.24	2.78	2.3	150	58	0.063	2.78
	360	362.6	4.0	150	59	0.11	2.78	2.6	150	58	0.072	2.78	8.0	150	61	0.21	2.78	2.0	150	58	0.054	2.78
	400	408.3	3.6	150	71	0.079	2.78	2.4	150	71	0.052	2.78	7.1	150	72	0.15	2.78	1.8	150	71	0.039	2.78
	450	464.1	3.1	150	71	0.069	2.78	2.1	150	70	0.046	2.78	6.2	150	72	0.14	2.78	1.6	150	70	0.035	2.78
	500	507.1	2.9	150	58	0.077	2.78	1.9	150	57	0.052	2.78	5.7	150	59	0.15	2.78	1.4	150	57	0.039	2.78
	560	563.5	2.6	150	57	0.071	2.78	1.7	150	57	0.047	2.78	5.1	150	59	0.14	2.78	1.3	150	57	0.035	2.78
	800	777.8	1.9	150	57	0.051	2.78	1.2	150	57	0.034	2.78	3.7	150	59	0.10	2.78	0.93	150	57	0.026	2.78
	900	883.9	1.6	150	57	0.045	2.78	1.1	150	57	0.030	2.78	3.3	150	58	0.089	2.78	0.82	150	56	0.023	2.78
S0341	10C	960	1.5	150	70	0.034	2.78	1.0	150	70	0.022	2.78	3.0	150	70	0.068	2.78	0.76	150	70	0.017	2.78
	11C	1097	1.3	150	70	0.030	2.78	0.88	150	70	0.020	2.78	2.6	150	70	0.059	2.78	0.66	150	70	0.015	2.78
	12C	1220	1.2	150	70	0.027	2.78	0.79	150	70	0.018	2.78	2.4	150	70	0.053	2.78	0.59	150	70	0.013	2.78
	14C	1345	1.1	150	70	0.024	2.78	0.71	150	70	0.016	2.78	2.2	150	70	0.048	2.78	0.54	150	70	0.012	2.78
	16C	1635	0.89	150	69	0.020	2.78	0.59	150	69	0.013	2.78	1.8	150	69	0.040	2.78	0.44	150	69	0.010	2.78
	18C	1735	0.84	150	70	0.019	2.78	0.55	150	70	0.012	2.78	1.7	150	70	0.038	2.78	0.42	150	70	0.009	2.78
	20C	1916	0.76	150	69	0.017	2.78	0.50	150	69	0.011	2.78	1.5	150	69	0.034	2.78	0.38	150	69	0.009	2.78
	22C	2081	0.70	150	70	0.016	2.78	0.46	150	70	0.010	2.78	1.4	150	70	0.031	2.78	0.35	150	70	0.008	2.78
	25C	2426	0.60	150	70	0.013	2.78	0.40	150	70	0.009	2.78	1.2	150	70	0.027	2.78	0.30	150	70	0.007	2.78
	28C	2679	0.54	150	69	0.012	2.78	0.36	150	69	0.008	2.78	1.1	150	69	0.025	2.78	0.27	150	69	0.006	2.78
	32C	3246	0.45	150	70	0.010	2.78	0.30	150	70	0.007	2.78	0.89	150	70	0.020	2.78	0.22	150	70	0.005	2.78
	36C	3585	0.40	150	69	0.009	2.78	0.27	150	69	0.006	2.78	0.81	150	69	0.018	2.78	0.20	150	69	0.005	2.78
	40C	4109	0.35	150	69	0.008	2.78	0.23	150	69	0.005	2.78	0.71	150	69	0.016	2.78	0.18	150	69	0.004	2.78
	45C	4670	0.31	150	69	0.007	2.78	0.21	150	69	0.005	2.78	0.62	150	69	0.014	2.78	0.16	150	69	0.004	2.78
	50C	4978	0.29	150	68	0.007	2.78	0.19	150	68	0.004	2.78	0.58	150	68	0.013	2.78	0.15	150	68	0.003	2.7

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0421	8.0	8.591	169	137	85	2.85	5.27	112	150	84	2.09	5.27	338	110	86	4.52	5.27	84	159	83	1.69	5.27
	11.	11.61	125	149	84	2.32	5.27	83	163	83	1.70	5.27	250	125	86	3.80	5.27	62	172	82	1.37	5.27
	12.	13.20	110	154	84	2.11	5.27	73	167	82	1.55	5.27	220	131	86	3.50	5.27	55	177	81	1.26	5.27
	14.	14.95	97	159	83	1.95	5.27	64	173	82	1.42	5.27	194	136	85	3.25	5.27	48	183	81	1.15	5.27
	16.	16.36	89	144	75	1.78	5.27	59	158	73	1.33	5.27	177	114	77	2.75	5.27	44	168	72	1.08	5.27
	18.	19.12	76	168	82	1.63	5.27	50	183	82	1.17	5.27	152	145	85	2.71	5.27	38	194	80	0.96	5.27
	20.	20.61	70	171	82	1.54	5.27	47	187	81	1.13	5.27	141	148	84	2.60	5.27	35	198	80	0.91	5.27
	22.	22.11	66	156	74	1.45	5.27	43	170	72	1.07	5.27	131	129	76	2.33	5.27	33	181	71	0.88	5.27
	25.	25.14	58	161	73	1.33	5.27	38	175	71	0.99	5.27	115	135	76	2.15	5.27	29	186	70	0.80	5.27
	28.	28.48	51	167	72	1.24	5.27	34	181	71	0.90	5.27	102	142	75	2.02	5.27	25	192	69	0.74	5.27
	32.	33.71	43	192	80	1.08	5.27	28	209	79	0.79	5.27	86	167	83	1.81	5.27	22	207	78	0.60	5.27
	36.	36.43	40	176	71	1.03	5.27	26	192	69	0.77	5.27	80	152	75	1.69	5.27	20	203	68	0.62	5.27
	40.	39.26	37	179	71	0.98	5.27	24	196	69	0.73	5.27	74	155	74	1.62	5.27	18	208	68	0.59	5.27
	45.	45.50	32	206	79	0.87	5.27	21	207	78	0.59	5.27	64	179	82	1.46	5.27	16	205	77	0.44	5.27
	50.	53.31	27	209	79	0.75	5.27	18	206	78	0.50	5.27	54	185	81	1.30	5.27	14	204	77	0.38	5.27
	56.	56.19	26	196	69	0.77	5.27	17	213	67	0.57	5.27	52	171	72	1.28	5.27	13	227	66	0.46	5.27
	63.	64.21	23	202	68	0.70	5.27	15	220	67	0.51	5.27	45	176	72	1.16	5.27	11	238	66	0.43	5.27
	71.	74.55	19	206	77	0.54	5.27	13	203	76	0.36	5.27	39	211	80	1.07	5.27	10	201	76	0.27	5.27
	80.	82.83	18	192	77	0.46	5.27	12	189	76	0.30	5.27	35	197	79	0.91	5.27	8.8	187	75	0.23	5.27
	90.	86.67	17	227	67	0.59	5.27	11	247	65	0.44	5.27	33	199	70	1.00	5.27	8.4	263	64	0.36	5.27
	100	101.5	14	234	66	0.53	5.27	9.5	255	65	0.39	5.27	29	204	69	0.88	5.27	7.1	277	64	0.32	5.27
	112	114.3	13	130	76	0.23	5.27	8.4	129	75	0.15	5.27	25	134	78	0.46	5.27	6.3	127	74	0.11	5.27
	125	129.0	11	128	76	0.20	5.27	7.4	126	74	0.13	5.27	22	131	78	0.40	5.27	5.6	125	74	0.10	5.27
	140	142.0	10	252	65	0.41	5.27	6.8	278	63	0.31	5.27	20	218	68	0.69	5.27	5.1	278	62	0.24	5.27
	160	157.8	9.2	257	64	0.39	5.27	6.1	278	63	0.28	5.27	18	223	67	0.64	5.27	4.6	278	62	0.22	5.27
212	217.8	6.7	206	63	0.23	5.27	4.4	201	61	0.15	5.27	13	214	65	0.46	5.27	3.3	198	61	0.11	5.27	
250	247.5	5.9	201	63	0.20	5.27	3.9	196	61	0.13	5.27	12	209	65	0.39	5.27	2.9	194	60	0.099	5.27	
S0431	100	105.4	14	204	76	0.39	5.27	9.1	201	75	0.26	5.27	28	209	77	0.78	5.27	6.9	199	74	0.19	5.27
	118	120.4	12	203	75	0.34	5.27	8.0	200	74	0.23	5.27	24	208	77	0.68	5.27	6.0	198	73	0.17	5.27
	132	130.1	11	239	64	0.44	5.27	7.4	274	63	0.34	5.27	22	197	66	0.70	5.27	5.6	278	62	0.26	5.27
	150	140.2	10	245	64	0.41	5.27	6.8	278	63	0.32	5.27	21	200	66	0.66	5.27	5.2	278	62	0.24	5.27
	160	162.5	8.9	201	75	0.25	5.27	5.9	198	73	0.17	5.27	18	206	76	0.51	5.27	4.5	197	73	0.13	5.27
	180	190.4	7.6	200	74	0.22	5.27	5.0	197	73	0.14	5.27	15	205	76	0.43	5.27	3.8	196	72	0.11	5.27
	200	200.7	7.2	276	63	0.33	5.27	4.8	278	61	0.23	5.27	14	219	64	0.52	5.27	3.6	278	60	0.18	5.27
	225	229.3	6.3	278	62	0.30	5.27	4.2	278	61	0.20	5.27	13	229	64	0.47	5.27	3.2	278	60	0.15	5.27
	265	266.2	5.4	198	73	0.15	5.27	3.6	195	72	0.10	5.27	11	202	74	0.31	5.27	2.7	194	72	0.08	5.27
	280	295.8	4.9	197	73	0.14	5.27	3.2	195	72	0.09	5.27	10	201	74	0.28	5.27	2.5	194	72	0.07	5.27
	315	309.5	4.7	278	61	0.22	5.27	3.1	278	60	0.15	5.27	9.4	253	63	0.39	5.27	2.3	278	59	0.12	5.27
	360	362.6	4.0	278	61	0.19	5.27	2.6	278	59	0.13	5.27	8.0	267	63	0.35	5.27	2.0	278	59	0.10	5.27
	400	408.3	3.6	195	72	0.10	5.27	2.4	193	71	0.067	5.27	7.1	199	73	0.20	5.27	1.8	192	71	0.050	5.27
	450	464.1	3.1	195	72	0.089	5.27	2.1	193	71	0.059	5.27	6.2	199	73	0.18	5.27	1.6	192	71	0.044	5.27
	500	507.1	2.9	278	59	0.141	5.27	1.9	278	59	0.093	5.27	5.7	278	61	0.27	5.27	1.4	278	58	0.072	5.27
560	563.5	2.6	278	59	0.127	5.27	1.7	278	58	0.086	5.27	5.1	278	61	0.25	5.27	1.3	278	58	0.065	5.27	
800	777.8	1.9	278	58	0.094	5.27	1.2	278	57	0.063	5.27	3.7	278	60	0.18	5.27	0.93	278	57	0.048	5.27	
900	883.9	1.6	278	58	0.082	5.27	1.1	278	57	0.055	5.27	3.3	278	60	0.16	5.27	0.82	278	57	0.042	5.27	
S0441	10C	960	1.5	208	71	0.046	5.27	1.0	208	71	0.031	5.27	3.0	208	71	0.093	5.27	0.76	208	71	0.023	5.27
	11C	1097	1.3	208	71	0.041	5.27	0.88	208	71	0.027	5.27	2.6	208	71	0.081	5.27	0.66	208	71	0.020	5.27
	12C	1220	1.2	208	71	0.036	5.27	0.79	208	71	0.024	5.27	2.4	208	71	0.073	5.27	0.59	208	71	0.018	5.27
	14C	1345	1.1	206	70	0.033	5.27	0.71	206	70	0.022	5.27	2.2	206	70	0.066	5.27	0.54	206	70	0.017	5.27
	16C	1635	0.89	192	70	0.025	5.27	0.59	192	70	0.017	5.27	1.8	192	70	0.051	5.27	0.44	192	70	0.013	5.27
	18C	1735	0.84	206	70	0.026	5.27	0.55	206	70	0.017	5.27	1.7	206	70	0.052	5.27	0.42	206	70	0.013	5.27
	20C	1916	0.76	192	70	0.022	5.27	0.50	192	70	0.014	5.27	1.5	192	70	0.043	5.27	0.38	192	70	0.011	5.27
	22C	2081	0.70	206	70	0.021	5.27	0.46	206	70	0.014	5.27	1.4	206	70	0.043	5.27	0.35	206	70	0.011	5.27
	25C	2426	0.60	206	70	0.018	5.27	0.40	206	70	0.012	5.27	1.2	206	70	0.037	5.27	0.30	206	70	0.009	5.27
	28C	2679	0.54	192	70	0.016	5.27	0.36	192	70	0.010	5.27	1.1	192	70	0.031	5.27	0.27	192	70	0.008	5.27
	32C	3246	0.45	20																		

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0521	8.0	8.31	174	209	88	4.34	7.41	115	243	85	3.46	7.41	349	154	87	6.47	7.41	87	241	85	2.59	7.41
	11.	11.66	124	238	86	3.60	7.41	82	277	85	2.81	7.41	249	179	87	5.36	7.41	62	306	84	2.37	7.41
	12.	12.85	113	247	85	3.43	7.41	75	287	84	2.67	7.41	226	187	87	5.08	7.41	56	316	84	2.22	7.41
	14.	14.59	99	259	85	3.17	7.41	66	300	84	2.46	7.41	199	197	87	4.71	7.41	50	329	83	2.06	7.41
	16.	16.09	90	320	78	3.87	7.41	60	348	76	2.86	7.41	180	250	81	5.82	7.41	45	367	75	2.31	7.41
	18.	18.53	78	282	84	2.75	7.41	52	325	83	2.12	7.41	157	218	86	4.15	7.41	39	355	82	1.77	7.41
	20.	21.05	69	295	84	2.53	7.41	46	338	82	1.97	7.41	138	229	86	3.84	7.41	34	370	82	1.63	7.41
	22.	22.56	64	345	77	3.02	7.41	43	372	74	2.24	7.41	129	287	79	4.89	7.41	32	393	73	1.81	7.41
	25.	24.86	58	352	76	2.83	7.41	39	380	74	2.08	7.41	117	298	79	4.61	7.41	29	401	72	1.70	7.41
	28.	28.24	51	362	75	2.60	7.41	34	389	73	1.90	7.41	103	311	79	4.23	7.41	26	411	72	1.53	7.41
	32.	32.55	45	341	82	1.94	7.41	29	387	81	1.48	7.41	89	270	85	2.96	7.41	22	408	81	1.17	7.41
	36.	35.86	40	378	74	2.16	7.41	27	409	72	1.59	7.41	81	331	77	3.64	7.41	20	431	71	1.29	7.41
	40.	40.74	36	388	73	1.98	7.41	24	420	71	1.46	7.41	71	341	77	3.30	7.41	18	443	70	1.18	7.41
	45.	46.84	31	382	81	1.53	7.41	20	406	80	1.09	7.41	62	306	83	2.39	7.41	15	402	79	0.825	7.41
	50.	50.93	28	391	81	1.44	7.41	19	405	80	0.999	7.41	57	315	83	2.26	7.41	14.2	401	79	0.757	7.41
	56.	55.45	26	415	72	1.58	7.41	17	449	70	1.16	7.41	52	368	75	2.69	7.41	13.1	474	69	0.941	7.41
	63.	63.00	23	427	71	1.45	7.41	15	461	69	1.07	7.41	46	378	74	2.46	7.41	11.5	482	68	0.854	7.41
	71.	73.37	20	406	79	1.06	7.41	13	400	78	0.703	7.41	40	354	81	1.81	7.41	9.9	396	78	0.525	7.41
	80.	82.67	18	404	79	0.94	7.41	12	398	78	0.620	7.41	35	367	81	1.66	7.41	8.8	395	77	0.471	7.41
	90.	90.67	16	478	70	1.14	7.41	11	482	68	0.786	7.41	32	424	72	1.97	7.41	8.0	482	66	0.611	7.41
	100	98.57	15	482	69	1.08	7.41	9.7	482	67	0.734	7.41	29	429	72	1.84	7.41	7.4	482	66	0.562	7.41
	112	109.1	13	393	78	0.701	7.41	8.8	388	77	0.464	7.41	27	399	81	1.37	7.41	6.6	384	77	0.347	7.41
	125	124.0	12	386	78	0.606	7.41	7.7	381	77	0.401	7.41	23	391	80	1.20	7.41	5.8	378	76	0.305	7.41
	140	142.0	10	482	67	0.769	7.41	6.8	482	65	0.525	7.41	20	455	70	1.39	7.41	5.1	482	65	0.396	7.41
	160	160.0	9.1	482	67	0.683	7.41	6.0	482	65	0.466	7.41	18	466	70	1.26	7.41	4.5	482	64	0.357	7.41
212	211.1	6.9	482	66	0.525	7.41	4.5	482	64	0.359	7.41	14	482	68	1.02	7.41	3.4	482	63	0.275	7.41	
250	240.0	6.0	482	65	0.469	7.41	4.0	482	63	0.320	7.41	12	482	68	0.897	7.41	3.0	482	63	0.242	7.41	
S0531	100	103.9	14	401	78	0.751	7.41	9.2	395	77	0.496	7.41	28	393	79	1.454	7.41	7.0	392	76	0.377	7.41
	118	118.7	12	399	77	0.663	7.41	8.1	394	77	0.433	7.41	24	408	79	1.321	7.41	6.1	390	76	0.328	7.41
	132	130.4	11	482	67	0.838	7.41	7.4	482	65	0.572	7.41	22	413	69	1.394	7.41	5.6	482	64	0.438	7.41
	150	140.5	10	482	66	0.789	7.41	6.8	482	65	0.531	7.41	21	419	69	1.312	7.41	5.2	482	64	0.407	7.41
	160	160.3	9.0	395	77	0.486	7.41	6.0	390	76	0.322	7.41	18	405	78	0.984	7.41	4.5	387	75	0.244	7.41
	180	187.8	7.7	393	76	0.418	7.41	5.1	388	75	0.277	7.41	15	402	78	0.833	7.41	3.9	386	75	0.208	7.41
	200	201.1	7.2	482	65	0.560	7.41	4.8	482	64	0.376	7.41	14	453	68	1.006	7.41	3.6	482	63	0.289	7.41
	225	229.8	6.3	482	65	0.490	7.41	4.2	482	63	0.335	7.41	13	471	67	0.929	7.41	3.2	482	62	0.257	7.41
	265	262.6	5.5	389	75	0.300	7.41	3.7	385	74	0.199	7.41	11	398	77	0.598	7.41	2.8	382	74	0.149	7.41
	280	291.8	5.0	388	75	0.269	7.41	3.3	385	74	0.179	7.41	9.9	396	76	0.542	7.41	2.5	381	73	0.136	7.41
	315	310.2	4.7	482	63	0.374	7.41	3.1	482	62	0.252	7.41	9.3	482	66	0.715	7.41	2.3	482	61	0.193	7.41
	360	363.4	4.0	482	63	0.320	7.41	2.6	482	62	0.215	7.41	8.0	482	65	0.620	7.41	2.0	482	61	0.165	7.41
	400	402.7	3.6	385	74	0.196	7.41	2.4	381	74	0.129	7.41	7.2	392	75	0.394	7.41	1.8	379	73	0.098	7.41
	450	457.7	3.2	384	74	0.172	7.41	2.1	380	73	0.114	7.41	6.3	391	75	0.346	7.41	1.6	377	73	0.086	7.41
	500	508.2	2.9	482	62	0.232	7.41	1.9	482	61	0.156	7.41	5.7	482	64	0.450	7.41	1.4	482	60	0.120	7.41
560	564.7	2.6	482	61	0.212	7.41	1.7	482	60	0.143	7.41	5.1	482	63	0.411	7.41	1.3	482	59	0.110	7.41	
800	779.4	1.9	482	61	0.154	7.41	1.2	482	60	0.104	7.41	3.7	482	62	0.303	7.41	0.93	482	59	0.080	7.41	
900	885.8	1.6	482	60	0.138	7.41	1.1	482	59	0.093	7.41	3.3	482	62	0.267	7.41	0.82	482	59	0.070	7.41	
S0541	10C	945	1.5	406	73	0.089	7.41	1.0	406	73	0.059	7.41	3.1	406	73	0.179	7.41	0.77	406	73	0.045	7.41
	11C	1080	1.3	406	73	0.078	7.41	0.89	406	73	0.052	7.41	2.7	406	73	0.156	7.41	0.67	406	73	0.039	7.41
	12C	1201	1.2	406	73	0.070	7.41	0.80	406	73	0.047	7.41	2.4	406	73	0.141	7.41	0.60	406	73	0.035	7.41
	14C	1324	1.1	406	73	0.064	7.41	0.73	406	73	0.042	7.41	2.2	406	73	0.128	7.41	0.55	406	73	0.032	7.41
	16C	1642	0.88	404	72	0.052	7.41	0.58	404	72	0.034	7.41	1.8	404	72	0.104	7.41	0.44	404	72	0.026	7.41
	18C	1707	0.85	406	73	0.049	7.41	0.56	406	73	0.033	7.41	1.7	406	73	0.099	7.41	0.42	406	73	0.025	7.41
	20C	1924	0.75	404	72	0.044	7.41	0.50	404	72	0.029	7.41	1.5	404	72	0.089	7.41	0.38	404	72	0.022	7.41
	22C	2048	0.71	406	73	0.041	7.41	0.47	406	73	0.027	7.41	1.4	406	73	0.082	7.41	0.35	406	73	0.021	7.41
	25C	2387	0.61	406	73	0.035	7.41	0.40	406	73	0.023	7.41	1.2	406	73	0.071	7.41	0.30	406	73	0.018	7.41
	28C	2690	0.5																			

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0621	8.0	8.2	176	372	90	7.62	11.4	117	439	90	5.96	11.4	352	273	90	11.19	11.4	88.1	487	89	5.05	11.4
	11.	11.6	125	427	89	6.30	11.4	83.0	498	89	4.86	11.4	251	319	90	9.30	11.4	62.7	550	88	4.10	11.4
	12.	13.0	112	446	89	5.87	11.4	74.0	519	88	4.57	11.4	224	336	90	8.74	11.4	55.9	572	88	3.80	11.4
	14.	14.6	99.6	466	89	5.46	11.4	65.9	540	88	4.24	11.4	199	353	90	8.18	11.4	49.8	595	87	3.57	11.4
	16.	15.9	91.0	517	82	6.01	11.4	60.3	582	80	4.59	11.4	182	389	82	9.04	11.4	45.5	613	79	3.70	11.4
	18.	18.5	78.4	508	88	4.74	11.4	51.9	587	87	3.67	11.4	157	390	89	7.20	11.4	39.2	644	87	3.04	11.4
	20.	21.0	69.2	531	88	4.37	11.4	45.8	612	87	3.37	11.4	138	410	89	6.67	11.4	34.6	670	86	2.82	11.4
	22.	22.4	64.7	579	81	4.85	11.4	42.9	624	79	3.54	11.4	129	450	82	7.44	11.4	32.4	655	78	2.85	11.4
	25.	25.1	57.7	594	80	4.49	11.4	38.2	636	78	3.26	11.4	115	471	82	6.95	11.4	28.9	671	77	2.63	11.4
	28.	28.2	51.5	611	80	4.12	11.4	34.1	652	78	2.98	11.4	103	493	81	6.56	11.4	25.7	688	77	2.41	11.4
	32.	33.5	43.3	623	87	3.25	11.4	28.7	709	86	2.48	11.4	86.6	490	88	5.05	11.4	21.7	766	85	2.04	11.4
	36.	35.8	40.5	637	78	3.46	11.4	26.8	686	76	2.54	11.4	81.0	541	81	5.67	11.4	20.3	724	75	2.05	11.4
	40.	40.6	35.7	651	78	3.12	11.4	23.7	705	76	2.30	11.4	71.5	567	81	5.24	11.4	17.9	743	75	1.85	11.4
	45.	47.3	30.6	695	86	2.59	11.4	20.3	766	85	1.91	11.4	61.3	554	87	4.09	11.4	15.3	766	84	1.46	11.4
	50.	50.5	28.7	709	86	2.48	11.4	19.0	766	84	1.81	11.4	57.4	567	87	3.92	11.4	14.4	766	83	1.39	11.4
	56.	55.7	26.0	698	76	2.50	11.4	17.2	755	74	1.84	11.4	52.1	623	79	4.30	11.4	13.0	766	73	1.43	11.4
	63.	64.8	22.4	721	75	2.25	11.4	14.8	766	73	1.63	11.4	44.8	642	79	3.81	11.4	11.2	766	72	1.25	11.4
	71.	73.9	19.6	766	84	1.87	11.4	13.0	766	83	1.26	11.4	39.2	644	86	3.08	11.4	9.8	766	82	0.959	11.4
	80.	80.9	17.9	766	84	1.71	11.4	11.9	766	83	1.15	11.4	35.8	663	86	2.89	11.4	9.0	766	82	0.876	11.4
	90.	91.6	15.8	766	74	1.72	11.4	10.5	766	72	1.17	11.4	31.7	720	77	3.10	11.4	7.9	766	70	0.907	11.4
	100	97.8	14.8	766	73	1.63	11.4	9.8	766	72	1.09	11.4	29.7	726	77	2.93	11.4	7.4	766	70	0.850	11.4
	112	110.6	13.1	748	83	1.24	11.4	8.7	739	82	0.819	11.4	26.2	728	85	2.35	11.4	6.6	733	81	0.621	11.4
	125	124.0	11.7	530	82	0.791	11.4	7.7	523	81	0.523	11.4	23.4	541	84	1.58	11.4	5.8	519	80	0.397	11.4
	140	143.1	10.1	766	71	1.14	11.4	6.7	766	69	0.780	11.4	20.3	766	75	2.17	11.4	5.1	766	68	0.598	11.4
	160	156.7	9.3	766	71	1.05	11.4	6.1	766	69	0.712	11.4	18.5	766	74	2.01	11.4	4.6	766	68	0.546	11.4
212	214.0	6.8	766	69	0.788	11.4	4.5	766	68	0.529	11.4	13.6	766	72	1.51	11.4	3.4	766	66	0.412	11.4	
250	240.0	6.0	766	69	0.702	11.4	4.0	766	67	0.479	11.4	12.1	766	72	1.35	11.4	3.0	766	66	0.367	11.4	
S0631	100	103.9	14.0	766	82	1.37	11.4	9.2	766	81	0.915	11.4	27.9	715	84	2.49	11.4	7.0	766	81	0.69	11.4
	118	118.0	12.3	766	82	1.20	11.4	8.1	766	81	0.806	11.4	24.6	742	84	2.27	11.4	6.1	766	80	0.62	11.4
	132	130.0	11.2	766	71	1.26	11.4	7.4	766	69	0.858	11.4	22.3	695	73	2.22	11.4	5.6	766	68	0.66	11.4
	150	147.7	9.8	766	70	1.12	11.4	6.5	766	69	0.756	11.4	19.6	712	73	2.01	11.4	4.9	766	68	0.58	11.4
	160	169.8	8.5	766	81	0.846	11.4	5.7	766	80	0.567	11.4	17.1	766	83	1.65	11.4	4.3	766	79	0.43	11.4
	180	184.6	7.9	766	81	0.778	11.4	5.2	766	80	0.521	11.4	15.7	766	82	1.54	11.4	3.9	766	79	0.40	11.4
	200	201.0	7.2	766	69	0.839	11.4	4.8	766	67	0.572	11.4	14.4	766	72	1.61	11.4	3.6	766	66	0.44	11.4
	225	228.4	6.3	766	68	0.749	11.4	4.2	766	67	0.503	11.4	12.7	766	71	1.43	11.4	3.2	766	66	0.39	11.4
	265	266.0	5.5	766	80	0.547	11.4	3.6	766	79	0.366	11.4	10.9	766	81	1.08	11.4	2.7	766	78	0.28	11.4
	280	299.7	4.8	766	79	0.491	11.4	3.2	766	78	0.329	11.4	9.7	766	81	0.958	11.4	2.4	766	78	0.249	11.4
	315	328.7	4.4	766	67	0.528	11.4	2.9	766	65	0.360	11.4	8.8	766	69	1.03	11.4	2.2	766	64	0.28	11.4
	360	357.3	4.1	766	66	0.493	11.4	2.7	766	65	0.332	11.4	8.1	766	69	0.943	11.4	2.0	766	64	0.25	11.4
	400	395.4	3.7	766	79	0.372	11.4	2.4	766	78	0.250	11.4	7.3	766	80	0.735	11.4	1.8	766	77	0.191	11.4
	450	449.5	3.2	766	78	0.332	11.4	2.1	766	78	0.220	11.4	6.5	766	80	0.647	11.4	1.6	766	77	0.168	11.4
	500	514.8	2.8	766	65	0.348	11.4	1.9	766	64	0.234	11.4	5.6	766	67	0.674	11.4	1.4	766	63	0.179	11.4
560	580.0	2.5	766	64	0.313	11.4	1.7	766	63	0.211	11.4	5.0	766	67	0.599	11.4	1.3	766	62	0.162	11.4	
800	765.3	1.9	766	64	0.237	11.4	1.3	766	63	0.160	11.4	3.8	766	66	0.461	11.4	0.95	766	62	0.123	11.4	
900	870.0	1.7	766	63	0.212	11.4	1.1	766	62	0.143	11.4	3.3	766	65	0.411	11.4	0.83	766	61	0.110	11.4	
S0641	10C	1022	1.4	766	77	0.148	11.4	0.94	766	77	0.098	11.4	2.8	766	77	0.296	11.4	0.71	766	77	0.074	11.4
	11C	1111	1.3	766	77	0.136	11.4	0.86	766	77	0.090	11.4	2.6	766	77	0.272	11.4	0.65	766	77	0.068	11.4
	12C	1300	1.1	766	77	0.116	11.4	0.74	766	77	0.077	11.4	2.2	766	77	0.232	11.4	0.56	766	77	0.058	11.4
	14C	1495	1.0	766	77	0.101	11.4	0.64	766	77	0.067	11.4	1.9	766	77	0.202	11.4	0.48	766	77	0.051	11.4
	16C	1625	0.9	766	77	0.093	11.4	0.59	766	77	0.062	11.4	1.8	766	77	0.186	11.4	0.45	766	77	0.046	11.4
	18C	1780	0.8	766	76	0.086	11.4	0.54	766	76	0.057	11.4	1.6	766	76	0.172	11.4	0.41	766	76	0.043	11.4
	20C	1951	0.74	766	77	0.077	11.4	0.49	766	77	0.051	11.4	1.5	766	77	0.155	11.4	0.37	766	77	0.039	11.4
	22C	2342	0.62	766	77	0.064	11.4	0.41	766	77	0.043	11.4	1.2	766	77	0.129	11.4	0.31	766	77	0.032	11.4
	25C	2638	0.55	766	77	0.057	11.4	0.36	766	77	0.038	11.4	1.1	766	77	0.115	11.4	0.27	766	77	0.029	

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0721	8.0	7.901	183.5	618	92	12.9	20.7	121.5	615	92	8.50	22.7	367.0	468	92	19.55	0.0	91.8	612	91	6.46	24.8
	11.	10.94	132.5	734	92	11.1	22.1	87.8	849	91	8.57	24.0	265.1	546	92	16.47	0.0	66.3	843	91	6.43	25.3
	12.	12.29	118.0	768	92	10.3	22.7	78.1	896	91	8.05	24.8	236.0	576	92	15.47	0.0	59.0	944	91	6.41	26.9
	14.	13.52	107.2	796	92	9.72	23.4	71.0	927	91	7.57	25.5	214.5	600	92	14.65	0.0	53.6	1020	90	6.36	26.9
	16.	15.80	91.8	716	88	7.82	25.5	60.8	798	88	5.77	26.9	183.5	586	88	12.80	20.7	45.9	851	87	4.70	26.9
	18.	17.66	82.1	879	91	8.30	26.9	54.4	1020	90	6.45	26.9	164.2	673	92	12.58	26.9	41.1	1120	90	5.35	26.9
	20.	20.07	72.2	921	91	7.66	26.9	47.8	1060	90	5.90	26.9	144.5	709	92	11.66	26.9	36.1	1170	90	4.92	26.9
	22.	21.89	66.2	781	88	6.16	26.9	43.9	860	87	4.54	26.9	132.5	648	88	10.22	26.9	33.1	911	86	3.67	26.9
	25.	24.59	59.0	803	87	5.70	26.9	39.0	881	86	4.19	26.9	117.9	669	87	9.50	26.9	29.5	931	85	3.38	26.9
	28.	27.03	53.6	822	87	5.31	26.9	35.5	898	86	3.88	26.9	107.3	685	87	8.85	26.9	26.8	948	85	3.13	26.9
	32.	30.81	47.1	1070	90	5.86	26.9	31.2	1220	89	4.47	26.9	94.1	836	91	9.05	26.9	23.5	1330	88	3.72	26.9
	36.	35.31	41.1	872	86	4.36	26.9	27.2	946	85	3.17	26.9	82.1	738	87	7.30	26.9	20.5	993	84	2.54	26.9
	40.	40.15	36.1	895	86	3.94	26.9	23.9	967	84	2.88	26.9	72.2	764	87	6.64	26.9	18.1	1010	83	2.30	26.9
	45.	44.13	32.9	1200	89	4.64	26.9	21.8	1340	88	3.47	26.9	65.7	953	90	7.29	26.9	16.4	1340	87	2.65	26.9
	50.	49.90	29.1	1250	88	4.32	26.9	19.2	1340	87	3.10	26.9	58.1	995	90	6.73	26.9	14.5	1340	87	2.34	26.9
	56.	53.62	27.0	946	85	3.15	26.9	17.9	1010	83	2.28	26.9	54.1	820	86	5.40	26.9	13.5	1070	83	1.83	26.9
	63.	61.62	23.5	970	84	2.85	26.9	15.6	1040	83	2.04	26.9	47.1	847	86	4.85	26.9	11.8	1100	83	1.63	26.9
	71.	69.00	21.0	1340	87	3.39	26.9	13.9	1340	86	2.27	26.9	42.0	1110	89	5.49	26.9	10.5	1340	86	1.71	26.9
	80.	75.56	19.2	1340	87	3.09	26.9	12.7	1340	86	2.07	26.9	38.4	1140	88	5.21	26.9	9.6	1340	85	1.58	26.9
	90.	88.26	16.4	1030	83	2.13	26.9	10.9	1110	82	1.54	26.9	32.9	912	85	3.69	26.9	8.2	1170	81	1.24	26.9
	100	99.79	14.5	1050	82	1.95	26.9	9.6	1140	81	1.42	26.9	29.1	934	84	3.38	26.9	7.3	1190	80	1.13	26.9
	112	104.3	13.9	1340	86	2.27	26.9	9.2	1330	85	1.51	26.9	27.8	1260	87	4.22	26.9	7.0	1320	84	1.14	26.9
	125	115.9	12.5	1140	85	1.76	26.9	8.3	1130	84	1.17	26.9	25.0	1160	87	3.49	26.9	6.3	1120	84	0.87	26.9
	140	138.0	10.5	1120	81	1.52	26.9	7.0	1200	80	1.09	26.9	21.0	989	83	2.62	26.9	5.3	1250	79	0.87	26.9
	160	151.1	9.6	1140	81	1.41	26.9	6.4	1220	80	1.01	26.9	19.2	1000	83	2.42	26.9	4.8	1270	79	0.81	26.9
212	208.6	7.0	1200	79	1.11	26.9	4.6	1270	78	0.78	26.9	13.9	1060	82	1.88	26.9	3.5	1270	78	0.59	26.9	
250	231.8	6.3	1220	79	1.01	26.9	4.1	1270	78	0.71	26.9	12.5	1080	81	1.747	26.9	3.1	1270	77	0.54	26.9	
S0731	100	97.33	14.9	1340	86	2.43	26.9	9.9	1340	85	1.63	26.9	29.8	1240	87	4.447	26.9	7.4	1340	85	1.23	26.9
	118	113.2	12.8	1340	85	2.11	26.9	8.5	1340	84	1.42	26.9	25.6	1300	87	4.008	26.9	6.4	1340	84	1.07	26.9
	132	125.0	11.6	1100	80	1.67	26.9	7.7	1180	79	1.20	26.9	23.2	973	81	2.918	26.9	5.8	1230	78	0.96	26.9
	150	141.7	10.2	1120	79	1.52	26.9	6.8	1210	79	1.09	26.9	20.5	993	81	2.627	26.9	5.1	1260	78	0.87	26.9
	160	160.0	9.1	1340	84	1.51	26.9	6.0	1340	83	1.01	26.9	18.1	1340	86	2.957	26.9	4.5	1340	83	0.77	26.9
	180	170.8	8.5	1340	84	1.42	26.9	5.6	1340	83	0.95	26.9	17.0	1340	85	2.803	26.9	4.2	1340	83	0.72	26.9
	200	194.7	7.4	1190	79	1.17	26.9	4.9	1270	78	0.84	26.9	14.9	1040	80	2.028	26.9	3.7	1270	77	0.64	26.9
	225	226.4	6.4	1220	79	1.04	26.9	4.2	1270	77	0.73	26.9	12.8	1080	80	1.811	26.9	3.2	1270	77	0.55	26.9
	265	249.9	5.8	1340	83	0.98	26.9	3.8	1340	82	0.66	26.9	11.6	1340	84	1.938	26.9	2.9	1340	82	0.50	26.9
	280	273.7	5.3	1340	83	0.90	26.9	3.5	1340	82	0.60	26.9	10.6	1340	84	1.770	26.9	2.6	1340	82	0.45	26.9
	315	320.0	4.5	1270	77	0.78	26.9	3.0	1270	77	0.52	26.9	9.1	1150	79	1.381	26.9	2.3	1270	76	0.40	26.9
	360	341.6	4.2	1270	77	0.73	26.9	2.8	1270	77	0.49	26.9	8.5	1160	79	1.305	26.9	2.1	1270	75	0.38	26.9
	400	373.8	3.9	1340	82	0.66	26.9	2.6	1340	81	0.44	26.9	7.8	1340	83	1.312	26.9	1.9	1340	81	0.34	26.9
	450	419.2	3.5	1340	82	0.59	26.9	2.3	1340	81	0.40	26.9	6.9	1340	83	1.169	26.9	1.7	1340	81	0.30	26.9
	500	499.9	2.9	1270	76	0.51	26.9	1.9	1270	75	0.34	26.9	5.8	1230	77	0.970	26.9	1.5	1270	75	0.26	26.9
560	547.4	2.6	1270	76	0.46	26.9	1.8	1270	75	0.31	26.9	5.3	1250	77	0.901	26.9	1.3	1270	74	0.24	26.9	
800	747.7	1.9	1270	75	0.34	26.9	1.3	1270	74	0.23	26.9	3.9	1270	76	0.679	26.9	1.0	1270	74	0.17	26.9	
900	838.5	1.7	1270	75	0.31	26.9	1.1	1270	74	0.21	26.9	3.5	1270	76	0.605	26.9	0.86	1270	73	0.16	26.9	
S0741	10C	1009	1.4	1340	81	0.25	26.9	0.95	1340	81	0.16	26.9	2.9	1340	81	0.50	26.9	0.72	1340	81	0.12	26.9
	11C	1097	1.3	1340	81	0.23	26.9	0.88	1340	81	0.15	26.9	2.6	1340	81	0.46	26.9	0.66	1340	81	0.11	26.9
	12C	1213	1.2	1340	80	0.21	26.9	0.79	1340	80	0.14	26.9	2.4	1340	80	0.42	26.9	0.60	1340	80	0.10	26.9
	14C	1396	1.0	1340	80	0.18	26.9	0.69	1340	80	0.12	26.9	2.1	1340	80	0.36	26.9	0.52	1340	80	0.091	26.9
	16C	1517	0.96	1340	80	0.17	26.9	0.63	1340	80	0.11	26.9	1.9	1340	80	0.34	26.9	0.48	1340	80	0.084	26.9
	18C	1662	0.87	1340	80	0.15	26.9	0.58	1340	80	0.10	26.9	1.7	1340	80	0.31	26.9	0.44	1340	80	0.077	26.9
	20C	1995	0.73	1340	80	0.13	26.9	0.48	1340	80	0.084	26.9	1.5	1340	80	0.25	26.9	0.36	1340	80	0.064	26.9
	22C	2186	0.66	1340	80	0.12	26.9	0.44	1340	80	0.077	26.9	1.3	1340	80	0.23	26.9	0.33	1340	80	0.058	26.9
	25C	2463	0.59	1340	80	0.10	26.9	0.39	1													

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0821	8.0	7.770	186.6	977	92	20.75	26.3	123.6	974	92	13.70	28.8	373	828	91	35.56	0.0	93.3	970	92	10.30	31.6
	11.	11.01	131.7	1320	92	19.79	27.7	87.2	1380	92	13.70	30.2	263	978	92	29.32	0.0	65.8	1370	92	10.27	34.5
	12.	12.24	118.5	1380	93	18.41	28.3	78.4	1530	92	13.66	30.8	237	1030	92	27.78	0.0	59.2	1520	92	10.25	34.2
	14.	13.61	106.5	1430	92	17.34	29.2	70.5	1670	91	13.55	31.4	213	1080	92	26.19	0.0	53.3	1680	91	10.30	33.8
	16.	15.54	93.3	1390	89	15.26	31.6	61.8	1620	89	11.77	34.3	187	1040	87	23.36	24.0	46.7	1750	88	9.71	35.0
	18.	17.60	82.4	1580	91	14.98	31.3	54.5	1830	91	11.49	33.8	165	1200	92	22.50	25.0	41.2	2020	90	9.68	35.5
	20.	19.76	73.4	1650	92	13.78	32.4	48.6	1910	91	10.68	35.0	146.8	1260	92	21.05	25.5	36.7	2100	90	8.96	36.4
	22.	22.03	65.8	1580	89	12.24	34.5	43.6	1780	88	9.23	38.1	131.6	1210	88	18.95	26.0	32.9	1880	87	7.45	41.7
	25.	24.47	59.3	1650	88	11.63	35.1	39.2	1820	88	8.50	39.4	118.5	1260	88	17.77	26.6	29.6	1920	86	6.93	41.7
	28.	27.22	53.3	1700	88	10.78	35.8	35.3	1860	87	7.90	40.7	106.5	1320	88	16.73	27.2	26.6	1960	86	6.36	41.7
	32.	31.78	45.6	1950	90	10.35	35.6	30.2	2230	89	7.93	40.2	91.3	1520	91	15.96	27.9	22.8	2430	89	6.52	41.7
	36.	35.20	41.2	1950	87	9.67	38.8	27.3	1950	86	6.48	41.7	82.4	1450	87	14.38	28.4	20.6	2050	85	5.20	41.7
	40.	39.51	36.7	1990	87	8.79	40.2	24.3	1990	86	5.89	41.7	73.4	1520	88	13.28	29.5	18.3	2090	85	4.72	41.7
	45.	43.64	33.2	2170	90	8.39	39.0	22.0	2460	89	6.37	41.7	66.5	1710	91	13.08	31.4	16.61	2650	88	5.24	41.7
	50.	49.26	29.4	2250	89	7.79	40.5	19.5	2540	88	5.89	41.7	58.9	1780	91	12.06	32.2	14.72	2730	87	4.84	41.7
	56.	54.60	26.6	1960	86	6.34	41.7	17.6	2100	84	4.60	41.7	53.1	1700	88	10.74	32.6	13.28	2210	84	3.66	41.7
	63.	63.56	22.8	2010	85	5.65	41.7	15.1	2150	84	4.05	41.7	45.6	1760	87	9.67	33.4	11.41	2270	83	3.27	41.7
	71.	69.64	20.8	2490	88	6.17	41.7	13.8	2780	87	4.61	41.7	41.6	2010	90	9.74	34.5	10.41	2970	87	3.72	41.7
	80.	76.50	19.0	2560	88	5.77	41.7	12.5	2840	87	4.29	41.7	37.9	2080	89	9.28	35.6	9.48	3030	86	3.50	41.7
	90.	87.29	16.6	2120	84	4.39	41.7	11.0	2290	83	3.18	41.7	33.2	1880	86	7.60	36.4	8.31	2410	82	2.56	41.7
	100	98.53	14.7	2160	83	4.01	41.7	9.7	2340	82	2.91	41.7	29.4	1920	86	6.88	41.7	7.36	2460	81	2.34	41.7
	112	102.4	14.2	2760	87	4.70	41.7	9.4	3040	86	3.47	41.7	28.3	2280	89	7.60	41.7	7.08	3220	85	2.81	41.7
	125	117.9	12.3	2850	86	4.27	41.7	8.1	2910	85	2.92	41.7	24.6	2380	88	6.97	41.7	6.15	2880	85	2.18	41.7
	140	139.3	10.4	2310	82	3.07	41.7	6.9	2480	81	2.21	41.7	20.8	2040	84	5.29	41.7	5.20	2590	80	1.76	41.7
	160	153.0	9.5	2350	82	2.84	41.7	6.3	2520	81	2.04	41.7	19.0	2080	84	4.91	41.7	4.74	2600	80	1.61	41.7
	212	204.8	7.1	2470	81	2.26	41.7	4.7	2630	80	1.61	41.7	14.2	2180	83	3.89	41.7	3.54	2600	79	1.22	41.7
	250	235.8	6.1	2530	80	2.04	41.7	4.1	2600	79	1.40	41.7	12.3	2240	82	3.52	41.7	3.07	2600	78	1.07	41.7
S0841	160	156	9.3	2600	81	3.12	41.7	6.2	2600	81	2.07	41.7	18.6	2600	81	6.25	41.7	4.6	2600	81	1.56	41.7
	180	177	8.2	2600	81	2.75	41.7	5.4	2600	81	1.82	41.7	16.4	2600	81	5.51	41.7	4.1	2600	81	1.38	41.7
	212	220	6.6	2600	81	2.22	41.7	4.4	2600	81	1.47	41.7	13.2	2600	81	4.43	41.7	3.3	2600	81	1.11	41.7
	250	248	5.8	2600	81	1.97	41.7	3.9	2600	81	1.30	41.7	11.7	2600	81	3.93	41.7	2.9	2600	81	0.98	41.7
	280	277	5.2	2600	81	1.76	41.7	3.5	2600	81	1.16	41.7	10.5	2600	81	3.52	41.7	2.6	2600	81	0.88	41.7
	320	312	4.6	2600	81	1.56	41.7	3.1	2600	81	1.03	41.7	9.3	2600	81	3.12	41.7	2.3	2600	81	0.78	41.7
	360	351	4.1	2600	81	1.39	41.7	2.7	2600	81	0.92	41.7	8.3	2600	81	2.78	41.7	2.1	2600	81	0.69	41.7
	400	398	3.6	2600	81	1.22	41.7	2.4	2600	81	0.81	41.7	7.3	2600	81	2.45	41.7	1.8	2600	81	0.61	41.7
	450	450	3.2	2600	81	1.08	41.7	2.1	2600	81	0.72	41.7	6.4	2600	81	2.17	41.7	1.6	2600	81	0.54	41.7
	500	475	3.1	2600	81	1.03	41.7	2.0	2600	81	0.68	41.7	6.1	2600	81	2.05	41.7	1.5	2600	81	0.51	41.7
	560	547	2.7	2600	81	0.89	41.7	1.8	2600	81	0.59	41.7	5.3	2600	81	1.78	41.7	1.3	2600	81	0.45	41.7
	630	636	2.3	2600	81	0.77	41.7	1.5	2600	81	0.51	41.7	4.6	2600	81	1.53	41.7	1.1	2600	81	0.38	41.7
	710	712	2.0	2600	81	0.68	41.7	1.3	2600	81	0.45	41.7	4.1	2600	81	1.37	41.7	1.0	2600	81	0.34	41.7
	800	759	1.9	2600	81	0.64	41.7	1.3	2600	81	0.43	41.7	3.8	2600	81	1.28	41.7	1.0	2600	81	0.32	41.7
	900	899	1.6	2600	81	0.54	41.7	1.1	2600	81	0.36	41.7	3.2	2600	81	1.08	41.7	0.81	2600	81	0.27	41.7
	10C	960	1.5	2600	81	0.51	41.7	1.0	2600	81	0.34	41.7	3.0	2600	81	1.02	41.7	0.76	2600	81	0.25	41.7
	11C	1084	1.3	2600	81	0.45	41.7	0.89	2600	81	0.30	41.7	2.7	2600	81	0.90	41.7	0.67	2600	81	0.22	41.7
	12C	1191	1.2	2600	81	0.41	41.7	0.81	2600	81	0.27	41.7	2.4	2600	81	0.82	41.7	0.61	2600	81	0.20	41.7
	14C	1405	1.0	2600	81	0.35	41.7	0.68	2600	81	0.23	41.7	2.1	2600	81	0.69	41.7	0.52	2600	81	0.17	41.7
	16C	1532	0.95	2600	80	0.32	41.7	0.63	2600	80	0.21	41.7	1.9	2600	80	0.64	41.7	0.47	2600	80	0.16	41.7
	18C	1901	0.76	2600	80	0.26	41.7	0.50	2600	80	0.17	41.7	1.5	2600	80	0.52	41.7	0.38	2600	80	0.13	41.7
	20C	2068	0.70	2600	79	0.24	41.7	0.46	2600	79	0.16	41.7	1.4	2600	79	0.48	41.7	0.35	2600	79	0.12	41.7
	22C	2242	0.65	2600	80	0.22	41.7	0.43	2600	80	0.15	41.7	1.3	2600	80	0.44	41.7	0.32	2600	80	0.11	41.7
	25C	2463	0.59	2600	79	0.20	41.7	0.39	2600	79	0.13	41.7	1.2	2600	79	0.41	41.7	0.29	2600	79	0.10	41.7
	28C	2697	0.54	2600	79	0.19	41.7	0.36	2600	79	0.12	41.7	1.1	2600	79	0.37	41.7	0.27	2600	79	0.093	41.7
	32C	3305	0.44	2600	79	0.15	41.7	0.29	2600	79	0.10	41.7	0.9	2600	79	0.30	41.7	0.22	2600	79	0.076	41.7
	36C	3761	0.39	2600	80	0.13	41.7															

S SERIES

RATINGS

Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S0921	8.0	7.973	181.9	2120	93	43.41	39.3	120.4	2510	93	34.03	41.8	363.7	1530	92	63.34	0.0	90.9	2800	93	28.67	42.8
	11.	10.98	132.1	2420	93	35.98	42.1	87.4	2840	93	27.96	44.8	264.1	1790	93	53.23	0.0	66.0	3160	93	23.49	45.5
	12.	12.30	117.9	2540	93	33.71	43.1	78.0	2970	93	26.10	45.9	235.8	1890	93	50.17	0.0	58.9	3290	92	22.07	46.4
	14.	13.81	105.0	2650	93	31.33	44.5	69.5	3100	92	24.53	47.4	210.0	1990	93	47.05	0.0	52.5	3430	92	20.49	47.3
	16.	16.68	86.9	2580	89	26.39	49.4	57.6	3030	89	20.52	53.2	173.9	1930	88	39.93	36.8	43.5	3360	88	17.38	53.2
	18.	17.79	81.5	2920	93	26.80	47.7	54.0	3400	92	20.88	50.8	163.0	2220	93	40.75	38.2	40.8	3750	91	17.59	53.2
	20.	19.88	72.9	3040	92	25.24	49.3	48.3	3530	92	19.40	52.5	145.9	2330	93	38.27	0.0	36.5	3890	91	16.32	53.2
	22.	22.96	63.2	2920	89	21.70	53.2	41.8	3410	88	16.97	53.2	126.3	2220	88	33.37	0.0	31.6	3760	88	14.13	53.2
	25.	25.73	56.4	3050	89	20.22	53.2	37.3	3550	88	15.76	53.2	112.7	2320	88	31.11	0.0	28.2	3910	87	13.26	53.2
	28.	28.89	50.2	3180	88	18.99	53.2	33.2	3700	88	14.63	53.2	100.4	2440	88	29.14	53.2	25.1	4070	86	12.44	53.2
	32.	31.43	46.1	3590	91	19.06	53.2	30.5	4070	90	14.46	53.2	92.3	2790	93	28.98	53.2	23.1	4200	90	11.27	53.2
	36.	37.22	39.0	3490	87	16.36	53.2	25.8	4030	86	12.66	53.2	77.9	2690	88	24.94	53.2	19.5	4410	86	10.46	53.2
	40.	41.59	34.9	3640	87	15.27	53.2	23.1	4180	86	11.75	53.2	69.7	2810	88	23.31	53.2	17.4	4560	85	9.79	53.2
	45.	44.55	32.5	4030	90	15.26	53.2	21.5	4240	89	10.75	53.2	65.1	3170	92	23.49	53.2	16.3	4370	89	8.37	53.2
	50.	49.49	29.3	4090	90	13.94	53.2	19.4	4290	89	9.79	53.2	58.6	3300	92	22.01	53.2	14.6	4410	89	7.60	53.2
	56.	57.66	25.1	4060	86	12.43	53.2	16.6	4620	85	9.48	53.2	50.3	3180	88	19.03	53.2	12.6	4990	84	7.82	53.2
	63.	65.74	22.1	4240	86	11.39	53.2	14.6	4790	84	8.72	53.2	44.1	3340	88	17.53	53.2	11.0	5160	83	7.18	53.2
	71.	69.91	20.7	4260	89	10.40	53.2	13.7	4440	88	7.25	53.2	41.5	3730	91	17.80	53.2	10.4	4550	87	5.68	53.2
	80.	77.18	18.8	4300	89	9.50	53.2	12.4	4480	88	6.63	53.2	37.6	3850	91	16.65	53.2	9.4	4590	87	5.19	53.2
	90.	93.18	15.6	4710	84	9.14	53.2	10.3	5240	83	6.81	53.2	31.1	3780	87	14.16	53.2	7.8	5580	82	5.54	53.2
	100	103.5	14.0	4850	84	8.47	53.2	9.3	5380	82	6.37	53.2	28.0	3920	86	13.37	53.2	7.0	5580	81	5.05	53.2
	112	106.2	13.7	4440	88	7.213	53.2	9.0	4610	87	5.02	53.2	27.3	4120	89	13.24	53.2	6.8	4710	86	3.92	53.2
	125	119.4	12.1	4490	87	6.56	53.2	8.0	4650	86	4.55	53.2	24.3	4180	89	11.94	53.2	6.1	4750	86	3.51	53.2
	140	146.2	9.9	5290	82	6.70	53.2	6.6	5580	81	4.74	53.2	19.8	4380	85	10.70	53.2	5.0	5580	80	3.62	53.2
	160	161.4	9.0	5420	82	6.22	53.2	5.9	5580	80	4.34	53.2	18.0	4520	84	10.12	53.2	4.5	5580	80	3.28	53.2
212	222.1	6.5	5580	80	4.77	53.2	4.3	5580	79	3.20	53.2	13.1	4940	83	8.14	53.2	3.3	5580	78	2.45	53.2	
250	249.7	5.8	5580	80	4.24	53.2	3.8	5580	79	2.84	53.2	11.6	5090	82	7.55	53.2	2.9	5580	77	2.20	53.2	
S0941	160	160	9.1	4800	82	5.55	53.2	6.0	4800	82	3.68	53.2	18.1	4800	82	11.11	53.2	4.5	4800	82	2.78	53.2
	180	177	8.2	4850	82	5.07	53.2	5.4	4850	82	3.36	53.2	16.4	4850	82	10.15	53.2	4.1	4850	82	2.54	53.2
	212	225	6.4	4800	82	3.95	53.2	4.3	4800	82	2.62	53.2	12.9	4800	82	7.90	53.2	3.2	4800	82	1.98	53.2
	250	249	5.8	4850	82	3.61	53.2	3.9	4850	82	2.39	53.2	11.6	4850	82	7.21	53.2	2.9	4850	82	1.80	53.2
	280	282	5.1	4800	82	3.15	53.2	3.4	4800	82	2.09	53.2	10.3	4800	82	6.30	53.2	2.6	4800	82	1.58	53.2
	320	314	4.6	4850	82	2.86	53.2	3.1	4850	82	1.89	53.2	9.2	4850	82	5.72	53.2	2.3	4850	82	1.43	53.2
	360	359	4.0	4800	82	2.48	53.2	2.7	4800	82	1.64	53.2	8.1	4800	82	4.95	53.2	2.0	4800	82	1.24	53.2
	400	407	3.6	4800	82	2.18	53.2	2.4	4800	82	1.45	53.2	7.1	4800	82	4.37	53.2	1.8	4800	82	1.09	53.2
	450	452	3.2	4850	82	1.99	53.2	2.1	4850	82	1.32	53.2	6.4	4850	82	3.97	53.2	1.6	4850	82	0.99	53.2
	500	485	3.0	4800	82	1.83	53.2	2.0	4800	82	1.21	53.2	6.0	4800	82	3.67	53.2	1.5	4800	82	0.92	53.2
	560	558	2.6	4800	82	1.59	53.2	1.7	4800	82	1.05	53.2	5.2	4800	82	3.19	53.2	1.3	4800	82	0.80	53.2
	630	649	2.2	4800	82	1.37	53.2	1.5	4800	82	0.91	53.2	4.5	4800	82	2.74	53.2	1.1	4800	82	0.68	53.2
	710	727	2.0	4800	82	1.22	53.2	1.3	4800	82	0.81	53.2	4.0	4800	82	2.45	53.2	1.0	4800	82	0.61	53.2
	800	774	1.9	4800	82	1.15	53.2	1.2	4800	82	0.76	53.2	3.7	4800	82	2.30	53.2	0.94	4800	82	0.57	53.2
	900	918	1.6	4800	82	0.97	53.2	1.0	4800	82	0.64	53.2	3.2	4800	82	1.94	53.2	0.79	4800	82	0.48	53.2
	10C	980	1.5	4800	82	0.91	53.2	1.0	4800	82	0.60	53.2	3.0	4800	82	1.81	53.2	0.74	4800	82	0.45	53.2
	11C	1089	1.3	4800	80	0.84	53.2	0.88	4800	80	0.55	53.2	2.7	4800	80	1.67	53.2	0.67	4800	80	0.42	53.2
	12C	1216	1.2	4800	82	0.73	53.2	0.79	4800	82	0.48	53.2	2.4	4800	82	1.46	53.2	0.60	4800	82	0.37	53.2
	14C	1434	1.0	4800	82	0.62	53.2	0.67	4800	82	0.41	53.2	2.0	4800	82	1.24	53.2	0.51	4800	82	0.31	53.2
	16C	1538	0.94	5000	81	0.61	53.2	0.62	5000	81	0.40	53.2	1.9	5000	81	1.22	53.2	0.47	5000	81	0.30	53.2
	18C	1908	0.76	5000	81	0.49	53.2	0.50	5000	81	0.33	53.2	1.5	5000	81	0.98	53.2	0.38	5000	81	0.25	53.2
	20C	2107	0.69	5000	81	0.44	53.2	0.46	5000	81	0.29	53.2	1.4	5000	81	0.89	53.2	0.34	5000	81	0.22	53.2
	22C	2250	0.64	5000	81	0.42	53.2	0.43	5000	81	0.28	53.2	1.3	5000	81	0.83	53.2	0.32	5000	81	0.21	53.2
	25C	2484	0.58	5000	81	0.38	53.2	0.39	5000	81	0.25	53.2	1.2	5000	81	0.75	53.2	0.29	5000	81	0.19	53.2
	28C	2720	0.53	5000	81	0.34	53.2	0.35	5000	81	0.23	53.2	1.1	5000	81	0.69	53.2	0.27	5000	81	0.17	53.2
32C	3334	0.43	5000	81	0.28	53.2	0.29	5000	81	0.19	53.2	0.87	5000	81	0.56	53.2	0.22	5000	81	0.14	53.2	
36C	3775	0.38	5000	8																		

S SERIES

RATINGS

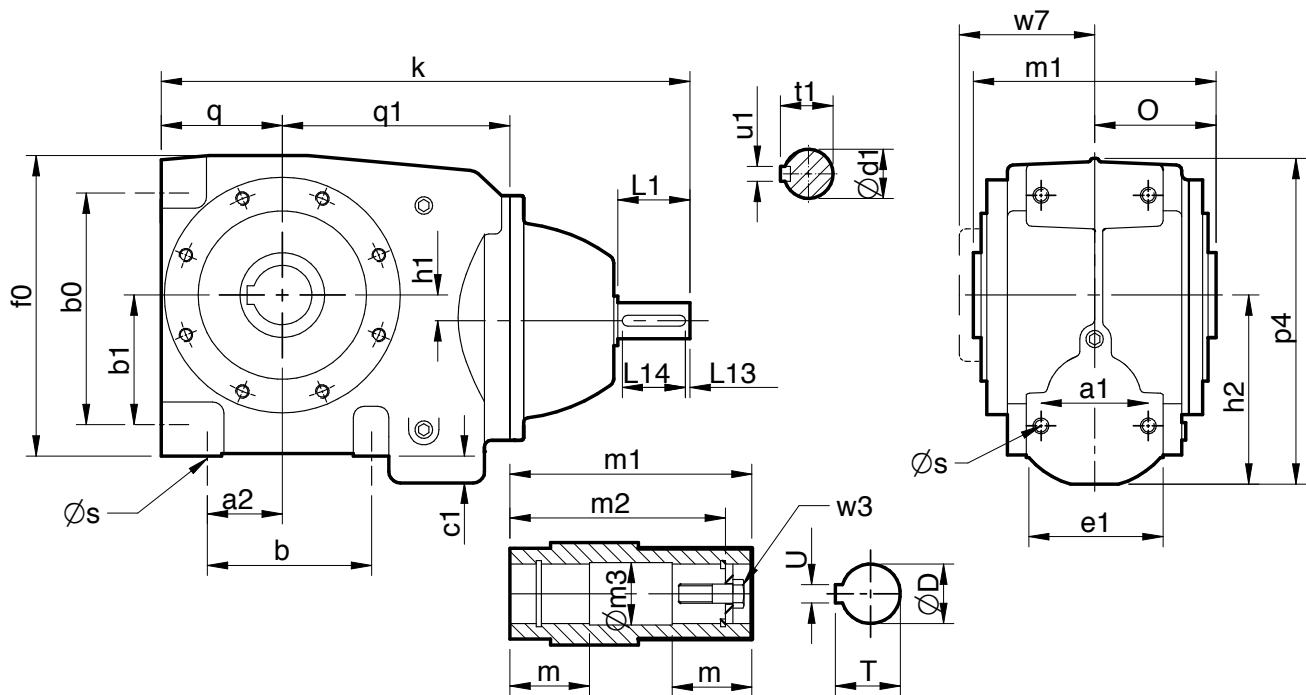
Key: Pm= Input Power (kW) M2= Output Torque (Nm) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (kN)

			n1 = 1450					n1 = 960					n1 = 2900					n1 = 725				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
S1021	8.0	7.951	182.4	3730	94	75.77	47.8	120.7	3840	94	51.65	52.2	364.7	2690	93	110.47	0.0	91.2	3830	94	38.90	55.0
	11.	11.11	130.5	4300	94	62.52	51.2	86.4	5060	93	49.23	54.2	261.0	3170	94	92.17	0.0	65.3	5330	93	39.16	56.0
	12.	12.08	120.0	4450	94	59.50	52.1	79.5	5220	93	46.71	55.3	240.1	3290	93	88.93	0.0	60.0	5780	93	39.06	58.0
	14.	13.72	105.7	4680	94	55.10	53.9	70.0	5480	93	43.17	57.2	211.4	3490	93	83.06	0.0	52.8	6070	93	36.11	62.0
	16.	16.63	87.2	4730	91	47.46	60.1	57.7	5530	90	37.14	64.3	174.4	3520	89	72.22	47.8	43.6	5900	90	29.93	66.0
	18.	17.87	81.1	5180	93	47.32	57.8	53.7	6030	93	36.47	61.3	162.3	3930	94	71.05	48.0	40.6	6670	92	30.80	65.0
	20.	19.29	75.2	5330	93	45.11	59.4	49.8	6200	93	34.74	63.0	150.3	4060	94	67.99	50.0	37.6	6850	92	29.30	68.0
	22.	23.23	62.4	5390	90	39.14	65.4	41.3	5970	90	28.70	70.9	124.8	4080	90	59.26	52.0	31.2	6330	89	23.24	78.0
	25.	25.27	57.4	5540	90	36.99	66.3	38.0	6080	89	27.18	72.8	114.8	4230	90	56.48	52.5	28.7	6440	89	21.74	82.0
	28.	28.70	50.5	5710	90	33.56	67.9	33.4	6240	89	24.56	75.7	101.0	4460	90	52.43	53.0	25.3	6590	88	19.81	83.0
	32.	31.85	45.5	6400	92	33.16	63.9	30.1	7370	91	25.56	71.3	91.1	4960	93	50.85	53.5	22.8	8050	91	21.09	80.0
	36.	37.38	38.8	6060	90	27.35	72.3	25.7	6570	88	20.08	82.3	77.6	4950	90	44.68	55.3	19.4	6900	88	15.92	85.2
	40.	40.36	35.9	6150	89	26.00	74.0	23.8	6660	88	18.85	84.3	71.9	5100	90	42.64	56.7	18.0	6990	87	15.11	87.2
	45.	43.65	33.2	7140	91	27.29	69.4	22.0	8130	90	20.80	78.3	66.4	5580	93	41.74	58.0	16.6	8470	90	16.37	87.2
	50.	48.51	29.9	7390	91	25.42	71.5	19.8	8320	90	19.16	80.9	59.8	5800	92	39.46	60.0	14.9	8530	90	14.83	87.2
	56.	58.85	24.6	6620	88	19.41	83.4	16.3	7090	87	13.92	87.2	49.3	5740	89	33.28	62.0	12.3	7460	86	11.19	87.2
	63.	66.62	21.8	6770	88	17.53	86.8	14.4	7230	87	12.54	87.2	43.5	5910	89	30.27	63.0	10.9	7640	85	10.24	87.2
	71.	69.18	21.0	8250	90	20.12	79.4	13.9	8630	89	14.09	87.2	41.9	6590	92	31.44	64.0	10.5	8800	89	10.85	87.2
	80.	79.71	18.2	8390	90	17.76	83.3	12.0	8740	89	12.38	87.2	36.4	6920	91	28.97	67.4	9.1	8810	88	9.53	87.2
	90.	91.32	15.9	7120	86	13.77	87.2	10.5	7690	85	9.96	87.2	31.8	6310	89	23.58	69.5	7.9	8090	84	8.01	87.2
	100	101.5	14.3	7240	86	12.59	87.2	9.5	7840	85	9.13	87.2	28.6	6440	88	21.89	75.5	7.1	8230	84	7.33	87.2
	112	107.8	13.5	8650	89	13.69	87.2	8.9	8700	88	9.22	87.2	26.9	7650	91	23.68	77.0	6.7	8640	87	6.99	87.2
	125	115.8	12.5	7980	89	11.76	87.2	8.3	7900	87	7.88	87.2	25.0	7820	90	22.79	79.4	6.3	7840	87	5.91	87.2
	140	144.7	10.0	7760	85	9.58	87.2	6.6	8330	83	6.97	87.2	20.0	6860	87	16.55	81.0	5.0	8690	82	5.56	87.2
	160	166.7	8.7	7960	84	8.63	87.2	5.8	8520	83	6.19	87.2	17.4	7020	86	14.87	84.5	4.3	8830	82	4.90	87.2
	212	225.5	6.4	8370	83	6.79	87.2	4.3	8830	82	4.80	87.2	12.9	7400	85	11.72	87.2	3.2	8810	81	3.66	87.2
	250	242.3	6.0	8470	83	6.39	87.2	4.0	8820	81	4.52	87.2	12.0	7510	85	11.07	87.2	3.0	8800	80	3.45	87.2
S1041	160	160	9.1	8330	83	9.52	87.2	6.0	8330	83	6.31	87.2	18.1	8330	83	19.05	87.2	4.5	8330	83	4.76	87.2
	180	177	8.2	8150	83	8.42	87.2	5.4	8150	83	5.58	87.2	16.4	8150	83	16.85	87.2	4.1	8150	83	4.21	87.2
	212	225	6.4	8330	83	6.77	87.2	4.3	8330	83	4.48	87.2	12.9	8330	83	13.55	87.2	3.2	8330	83	3.39	87.2
	250	249	5.8	8150	83	5.99	87.2	3.9	8150	83	3.96	87.2	11.6	8150	83	11.97	87.2	2.9	8150	83	2.99	87.2
	280	282	5.1	8330	83	5.40	87.2	3.4	8330	83	3.58	87.2	10.3	8330	83	10.81	87.2	2.6	8330	83	2.70	87.2
	320	314	4.6	8150	83	4.75	87.2	3.1	8150	83	3.14	87.2	9.2	8150	83	9.50	87.2	2.3	8150	83	2.37	87.2
	360	359	4.0	8330	83	4.24	87.2	2.7	8330	83	2.81	87.2	8.1	8330	83	8.49	87.2	2.0	8330	83	2.12	87.2
	400	407	3.6	8330	83	3.74	87.2	2.4	8330	83	2.48	87.2	7.1	8330	83	7.49	87.2	1.8	8330	83	1.87	87.2
	450	452	3.2	8150	83	3.30	87.2	2.1	8150	83	2.18	87.2	6.4	8150	83	6.60	87.2	1.6	8150	83	1.65	87.2
	500	485	3.0	8330	83	3.14	87.2	2.0	8330	83	2.08	87.2	6.0	8330	83	6.28	87.2	1.5	8330	83	1.57	87.2
	560	558	2.6	8330	83	2.73	87.2	1.7	8330	83	1.81	87.2	5.2	8330	83	5.46	87.2	1.3	8330	83	1.37	87.2
	630	649	2.2	8330	83	2.35	87.2	1.5	8330	83	1.55	87.2	4.5	8330	83	4.70	87.2	1.1	8330	83	1.17	87.2
	710	727	2.0	8330	83	2.10	87.2	1.3	8330	83	1.39	87.2	4.0	8330	83	4.19	87.2	1.0	8330	83	1.05	87.2
	800	774	1.9	8330	83	1.97	87.2	1.2	8330	83	1.30	87.2	3.7	8330	83	3.94	87.2	0.94	8330	83	0.98	87.2
	900	918	1.6	8330	83	1.66	87.2	1.0	8330	83	1.10	87.2	3.2	8330	83	3.32	87.2	0.79	8330	83	0.83	87.2
	10C	980	1.5	8330	83	1.55	87.2	0.98	8330	83	1.03	87.2	3.0	8330	83	3.11	87.2	0.74	8330	83	0.78	87.2
	11C	1089	1.3	8150	83	1.37	87.2	0.88	8150	83	0.91	87.2	2.7	8150	83	2.74	87.2	0.67	8150	83	0.68	87.2
	12C	1216	1.2	8330	83	1.25	87.2	0.79	8330	83	0.83	87.2	2.4	8330	83	2.51	87.2	0.60	8330	83	0.63	87.2
	14C	1434	1.0	8330	83	1.06	87.2	0.67	8330	83	0.70	87.2	2.0	8330	83	2.13	87.2	0.51	8330	83	0.53	87.2
	16C	1538	0.94	8420	82	1.01	87.2	0.62	8420	82	0.67	87.2	1.9	8420	82	2.03	87.2	0.47	8420	82	0.51	87.2
	18C	1908	0.76	8420	82	0.82	87.2	0.50	8420	82	0.54	87.2	1.5	8420	82	1.63	87.2	0.38	8420	82	0.41	87.2
	20C	2107	0.69	8440	82	0.74	87.2	0.46	8440	82	0.49	87.2	1.4	8440	82	1.48	87.2	0.34	8440	82	0.37	87.2
	22C	2250	0.64	8420	82	0.69	87.2	0.43	8420	82	0.46	87.2	1.3	8420	82	1.39	87.2	0.32	8420	82	0.35	87.2
	25C	2484	0.58	8440	82	0.63	87.2	0.39	8440	82	0.42	87.2	1.2	8440	82	1.26	87.2	0.29	8440	82	0.31	87.2
	28C	2720	0.53	8440	82	0.57	87.2	0.35	8440	82	0.38	87.2	1.1	8440	82	1.15	87.2	0.27	8440	82	0.29	87.2
	32C	3334	0.43	8440	82	0.47	87.2	0.29	8440	82	0.31	87.2	0.87	8440	82	0.94	87.2	0.22	8440	82	0.23	87.2
	36C	3775	0.38	8420	82	0.41	87.2	0.25	8420	82	0.27	87.2	0.77	8420	82	0.83	87.2	0.19	8420	82	0.21	87.2
	40C	4167	0.35	8440	82	0.38	87.2	0.23	8440	82	0.25	87.2	0.70	8440	82	0.75	87.2	0.17	8440	82	0.19	87.2
	45C	4586	0.32	8650	81	0.35	87.2	0.21	8650	81	0.23	87.2	0.63	8650	81	0.71	87.2	0.16	8650	81	0.18	87.2
	50C	5112	0.28	8650	81	0.32	87.2	0.19	8650	81	0.21	87.2	0.57	8650	81	0.63	87.2	0.14	8650	81	0.16	87.2
	56C	5733	0.25	8650	81	0.28	87.2	0.17	8650	81	0.19	87.2	0.51	8650	81	0.57	87.2	0.13	8650	81	0.14	87.

S SERIES

DIMENSIONS

DOUBLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
S0321	54	35	63	80	40	9	70	139	5.3	79.5	62
S0421	56	35	80	118	65	7	80	158	15	93	65
S0521	68	45	100	142	77	16	86	177	13	112	70
S0621	80	56	122	172	96	20	102	218	17	139.5	90

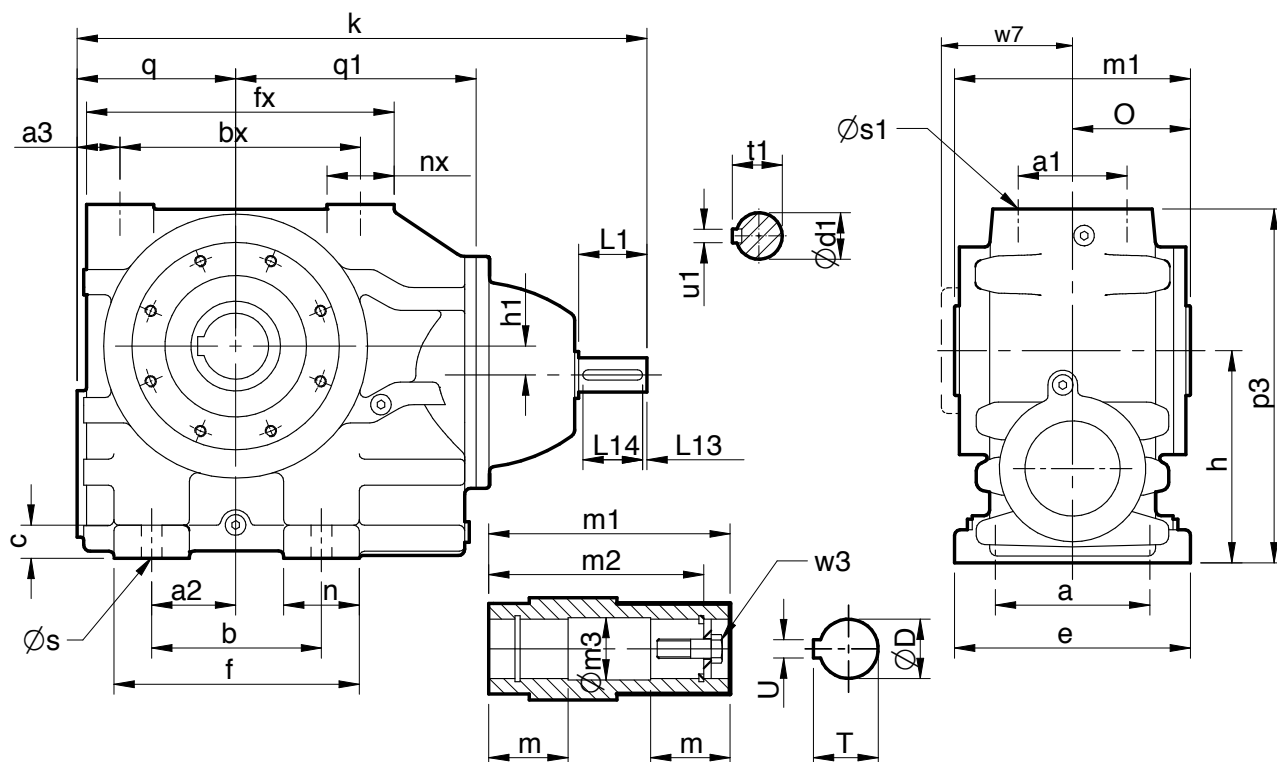
Size	p4	q	q1	s	w7	k
S0321	148	54	109	M8 x1.25 x 15	70	274
S0421	168	64	119	M10 x1.5 x 20	74.5	294
S0521	200	68	134	M10 x1.5 x18	79	313
S0621	243	90	169	M12 x1.75 x 20	101	370

Size	d1	L1	L13	L14	t1	u1	D	m	m1	m2	m3	T	U	w3
S0321	16 k6	40	4	32	18	5	20	52	124	104	20.2	22.9	6	M6x1.0 x 40
S0421	16 k6	40	4	32	18	5	30	54	130	122	30.2	33.5	8	M10x1.5 x 50
S0521	16 k6	40	4	32	18	5	35	56	140	127	35.3	38.5	10	M12x1.75 x 55
S0621	19 k6	40	4	32	21.5	6	45	70	180	156	45.3	49	14	M16x2.0 x 70

S SERIES

DIMENSIONS

DOUBLE REDUCTION



Size	a	a1	a	a3	b2	bx	c	e	f	fx	h	h1	n	nx	o
S0721	150	100	75	35,5	135	215	28	185	202	280	180	26	67	63	109
S0821	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125
S0921	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150
S1021	300	150	170	62,5	310	345	45	360	420	460	335	65	110	107	175

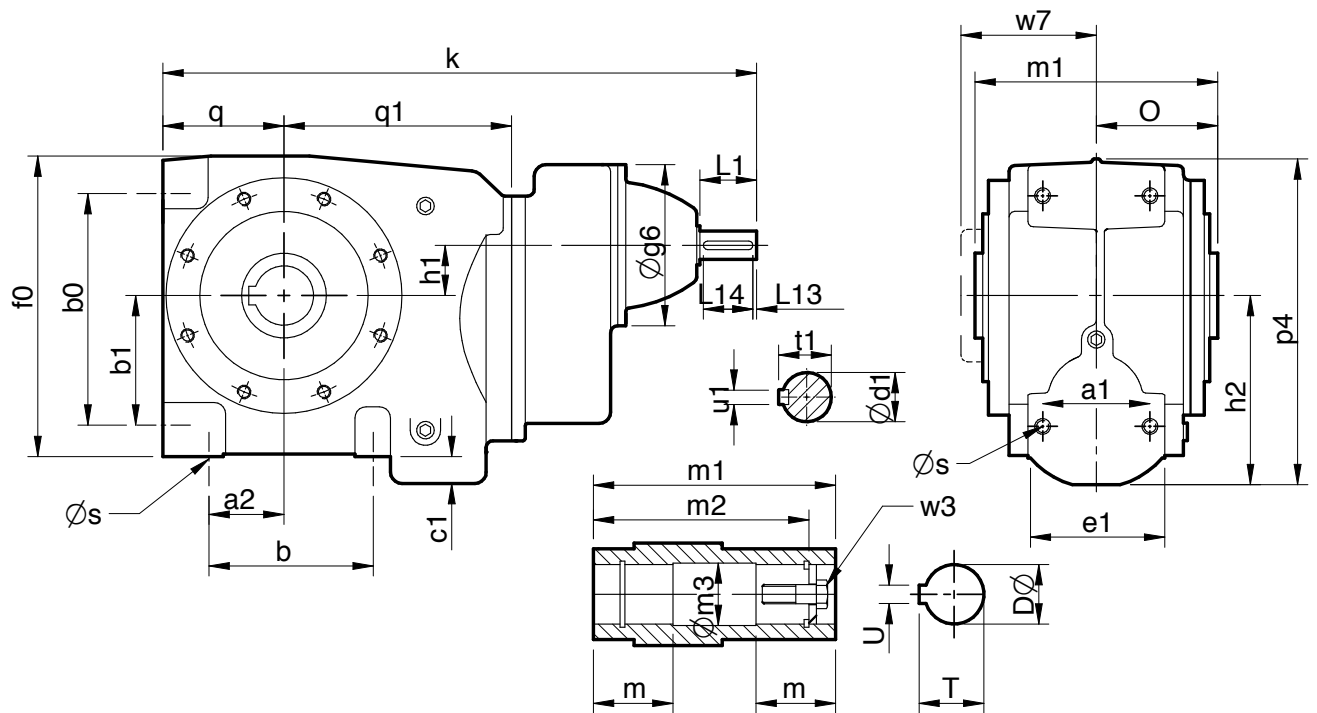
Size	p4	q	q1	s	s1	w7	k
S0721	302	143	220	18	M20 x 2,5 x 34	125	478
S0821	375	168	255	22	M20 x 2,5 x 34	143	583
S0921	457	195	300	26	M24 x 3.0 x 45	169	690
S1021	565	235	355	26	M24 x 3.0 x 45	198	823

Size	d1	L1	L13	L14	t1	u1	D	m	m1	m2	m3	T	U	w3
S0721	24 k6	50	5	40	27	8	60	79	218	188	60,5	64,6	18	M20 x 2,5 x 80
S0821	28 k6	60	5	50	31	8	70	90	250	220	70,5	75,1	20	M20 x 2,5 x 80
S0921	38 k6	80	5	70	41	10	90	107,5	300	265	90,5	95,6	25	M24 x 3,0 x 110
S1021	42 k6	110	10	70	45	12	100	132,5	350	313	100,5	106,6	28	M24 x 3,0 x 110

S SERIES

DIMENSIONS

TRIPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	k	o
S0331	54	35	63	80	40	9	70	139	30.75	79.5	330	62
S0431	56	35	80	118	65	7	80	158	21.2	93	350	65
S0531	68	46	100	14	277	16	86	177	23	11	369	70
S0631	80	56	122	172	96	20	102	218	30	139.5	436	90

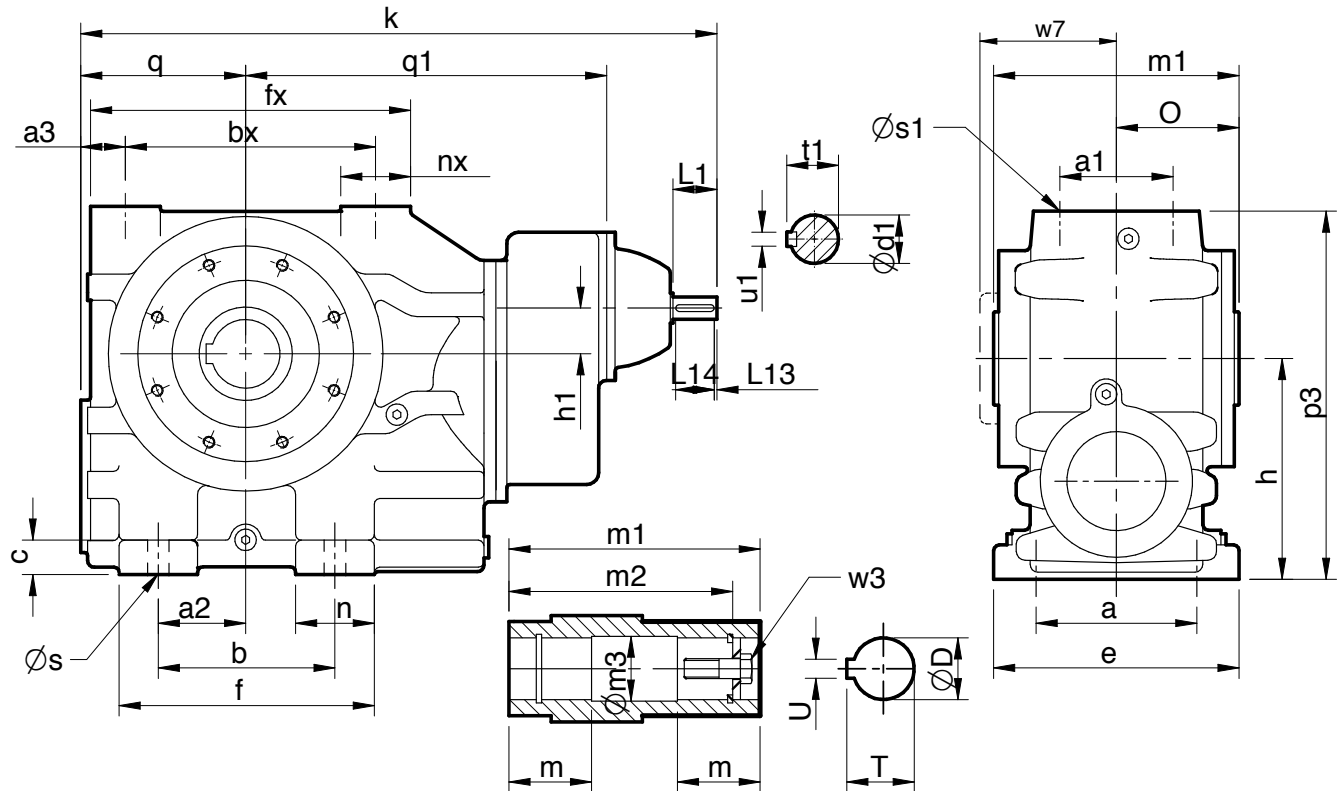
Size	p4	q	q1	s	w7
S0331	148	54	109	M8 x 1.25 x15	70
S0431	168	64	119	M10 x 1.5 x18	74.5
S0531	200	68	134	M10 x 1.5 x 18	79
S0631	243	90	169	M12 x 1.75 x 20	101

Size	d1	L1	L13	L14	t1	u1	D	m	m1	m2	m3	T	U	w3
S0321	16 k6	40	4	32	18	5	20	52	124	104	20.2	22.9	6	M6 x 1.0 x 40
S0421	16 k6	40	4	32	18	5	30	54	130	122	30.2	33.5	8	M10 x 1.5 x 50
S0521	16 k6	40	4	32	18	5	35	56	140	127	35.3	38.5	10	M12 x 1.75 x 55
S0621	19 k6	40	4	32	21.5	6	45	70	180	156	45.3	49	14	M16 x 2.0 x 70

S SERIES

DIMENSIONS

TRIPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	k	n	nx	o	p3	q	q1
S0731	150	100	75	35.5	135	215	28	185	202	280	180	34	560	67	63	109	302	143	220

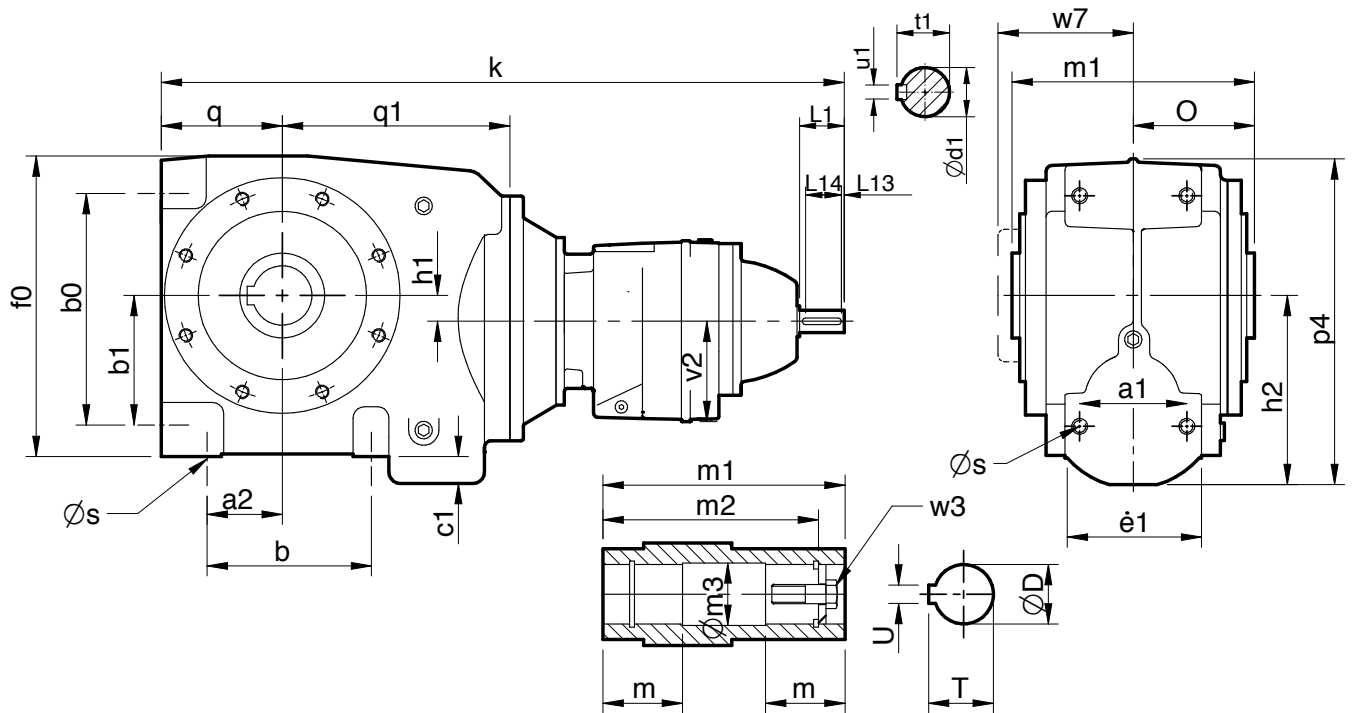
Size	p3	q	q1	s	s1	w7	g6
S0731	302	143	220	18	M20 x 2.5 x34	125	212

Size	d1	L1	L13	L14	t	u1	D	m	m1	m2	m3	T	U	w3
S0731	24 k6	50	5	40	27	8	60	79	218	188	60.5	64.6	18	M20 x 2.5 x 80

S SERIES

DIMENSIONS

QUADRUPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
S0341	54	35	63	80	40	9	70	139	5.3	79.5	62
S0441	56	35	80	118	65	7	80	158	15	93	65
S0541	68	45	100	142	77	16	86	177	13	112	70
S0641	80	56	122	172	96	20	102	218	17	139.5	90

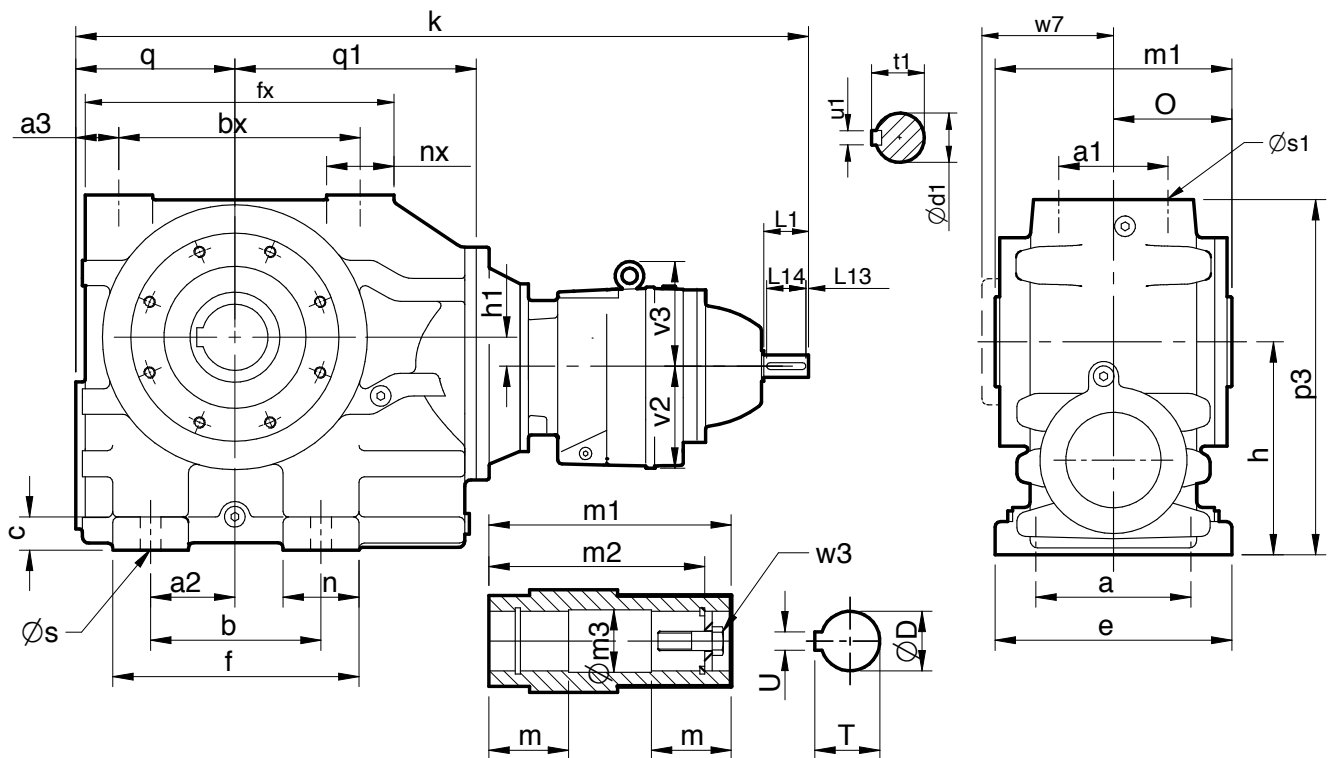
Size	p4	q	q1	s	v2	w7	k
S0341	148	54	109	M8 x1.25 x 15	76	70	460
S0441	168	64	119	M10 x1.5 x 20	76	74.5	480
S0541	200	68	134	M10 x1.5 x 18	76	79	499
S0641	243	90	169	M12 x1.75 x 20	91	101	572

Size	d1	L1	L13	L14	t1	u1	D	m	m1	m2	m3	T	U	w3
S0341	16 k6	40	4	32	18	5	20	52	124	104	20.2	22.9	6	M6 x1.0 x 40
S0441	16 k6	40	4	32	18	5	30	54	130	122	30.2	33.5	8	M10 x1.5 x 50
S0541	16 k6	40	4	32	18	5	35	56	140	127	35.3	38.5	10	M12 x1.75 x 55
S0641	16 k6	40	4	32	18	5	45	70	180	156	45.3	49	14	M16 x2.0 x 70

S SERIES

DIMENSIONS

QUADRUPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o
S0741	150	100	75	35.5	135	215	28	185	202	280	180	26	67	63	109
S0841	200	120	92	43	180	250	35	250	260	326	225	28	80	71	125
S0941	250	135	115	50	235	290	40	305	320	380	280	40	85	85	150
S1041	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	k
S0741	302	143	220	18	M20 x 2.5 x 34	91	-	125	677
S0841	375	168	255	22	M20 x 2.5 x 34	115	-	143	779
S0941	457	195	300	26	M24 x 3.0 x 45	115	-	169	862
S1041	565	235	355	26	M24 x 3.0 x 45	140	155	198	997

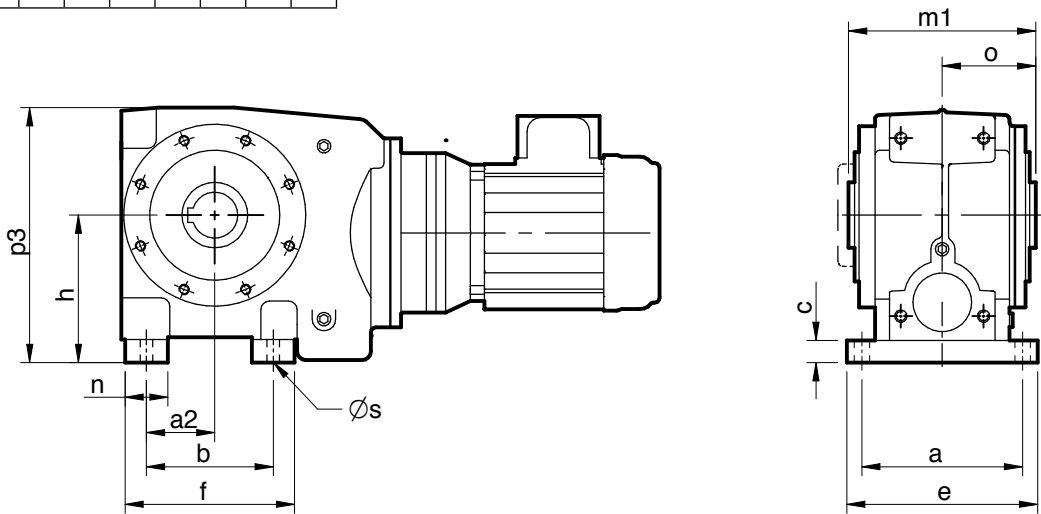
Size	d1	L1	L13	L14	t1	u1	D	m	m1	m2	m3	T	U	w3
S0741	16 k6	40	4	32	18	5	60	79	218	188	60.5	64.6	18	M20 x 2.5 x 80
S0841	19 k6	40	4	32	21.5	6	70	90	250	220	70.5	75.1	20	M20 x 2.5 x 80
S0941	19 k6	40	4	32	21.5	6	90	107.5	300	265	90.5	95.6	25	M24 x 3.0 x 110
S1041	24 k6	50	5	40	27	8	100	132.5	350	313	100.5	106.6	28	M24 x 3.0 x 110

S SERIES

DIMENSIONS - FEET

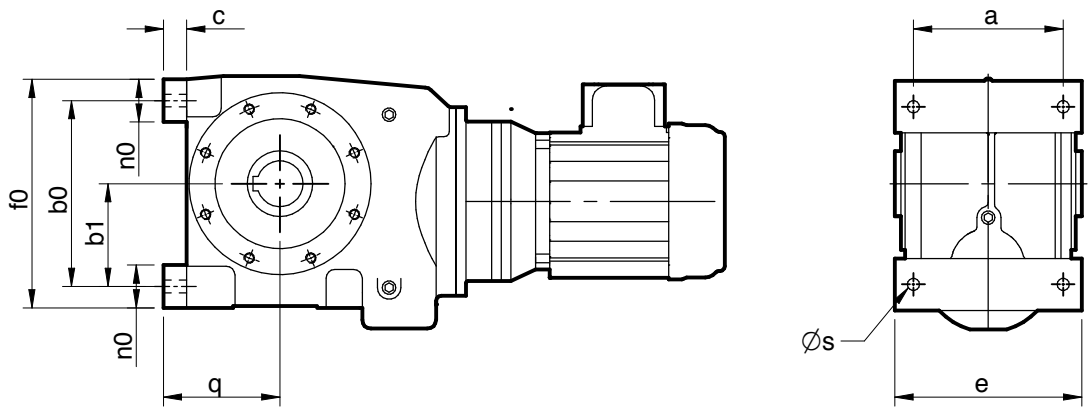
S	0			2				B	R
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STANDARD UNIT WITH BASE MOUNTED FEET



S	0			2				E	R
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STANDARD UNIT WITH END MOUNTED FEET



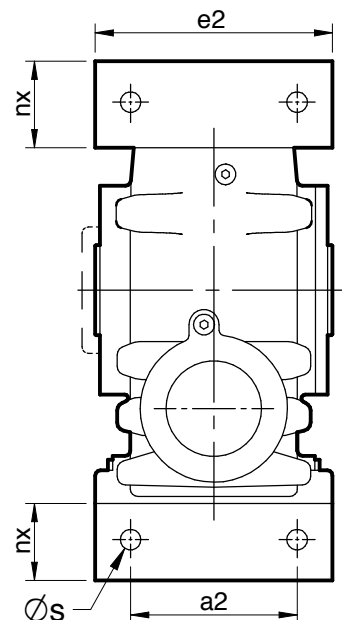
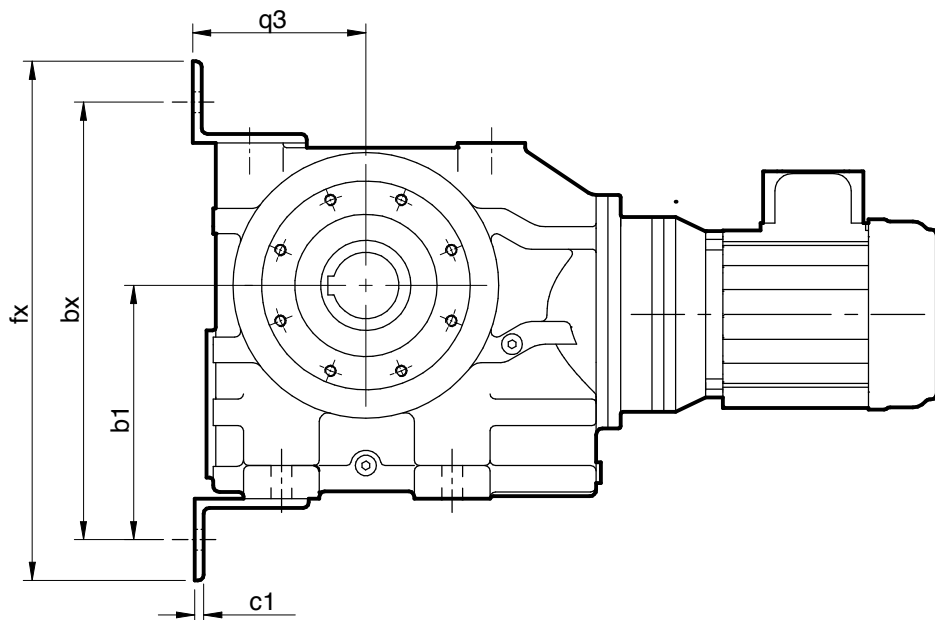
Size	a	b	b0	b1	c	e	f	f0	h	n	n0	p3	q	q2	s
S03	90	63	80	40	9	110	88	105	80	25	25	148	63	35	9
S04	100	80	118	65	14	124	115	153	100	35	35	175	78	35	11
S05	110	100	142	77	16	136	140	182	112	40	40	200	84	45	11
S06	130	130	180	100	20	160	172	222	140	50	50	243	110	60	14

S SERIES

DIMENSIONS - FEET

S										E	R
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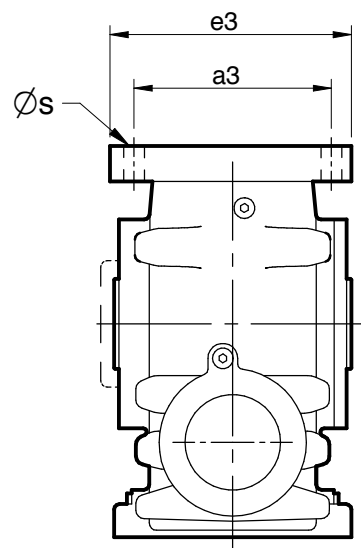
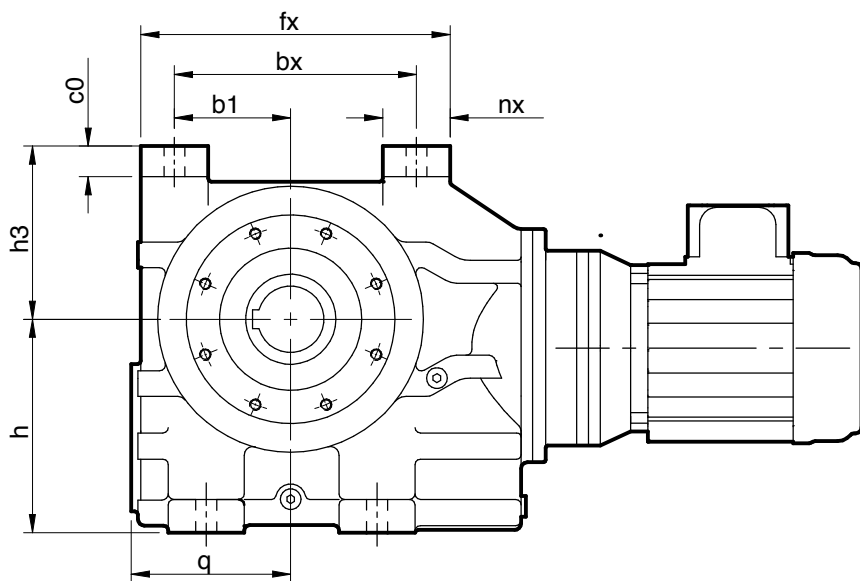
STANDARD UNIT WITH END MOUNTED FEET



Size	a2	bx	b1	c1	e2	fx	nx	q3	s
S07	170	392	225	12	220	452	75	162	22
S08	200	465	270	12	250	525	75	187	22
S09	250	557	330	15	305	637	90	220	26
S10	300	665	385	15	360	745	90	260	26

S										R	R
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STANDARD UNIT WITH TOP MOUNTED FEET



Size	a3	b1	bx	co	e3	fx	h	h3	nx	q	s
S07	205	107.5	215	28	256	278	180	150	63	143	24
S08	225	125	250	30	280	320	225	180	70	168	24
S09	240	145	290	35	300	370	280	212	80	195	28
S10	265	172.5	345	35	330	445	335	265	100	235	28

S SERIES

THERMAL POWER RATING

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 rpm	S03	S04	S05	S06	S07	S08	S09	S10
8 - 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 - 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
> 28	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	-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

S SERIES

FAN COOLED UNITS

Table 5. Thermal Power (kW) With Cooling Fan

Overall ratios	Input RPM	S03	S04	S05	S06	S07	S08	S09	S10
8 - 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
>14	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

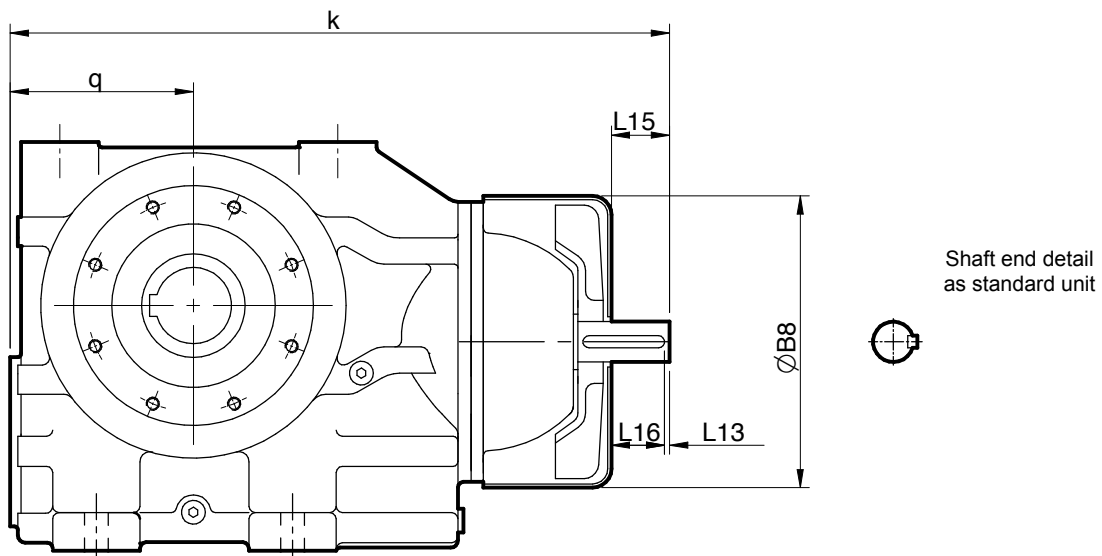
Note: When checking thermal capacities use actual load required to be transmitted, not rating of prime mover.

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



Size	ØB8	k	L13	L15	L16	q
S0721	225	478	5	35	30	143
S0821	265	583	5	45	40	168
S0921	320	690	5	65	60	195
S1021	380	823	10	95	85	235

S SERIES

REDUCER BACKSTOP MODULE

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

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

Column 10 Entry

For reducer fan kit modules enter

W

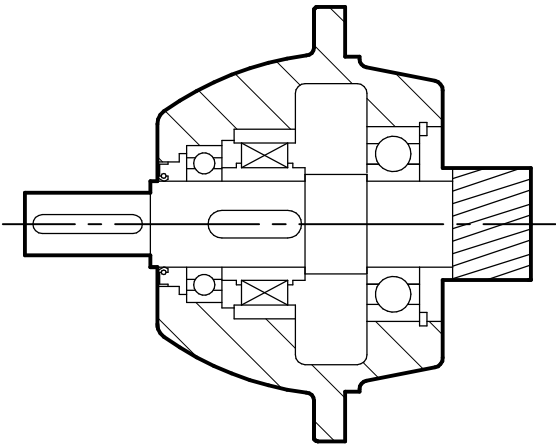
X

for CCW rotation (or
for CW rotation (or

Z

Y

if used in conjunction with a fan kit)
if used in conjunction with a fan kit)



Size	Lift off speed (‘n min’ at inputshaft (rev/min)	Rated locking Torque (‘T max’) at inputshaft (Nm)
S0622/S0842/S0941	800	100
S0722/S1041	670	170
S0822	670	300
S0921	620	940
S1021	550	1260

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

CW

-

Free Rotation

-

Clockwise

Locked

-

Anticlockwise

AC

-

Free Rotation

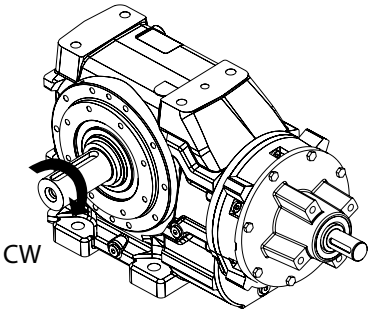
-

Anticlockwise

Locked

-

Clockwise



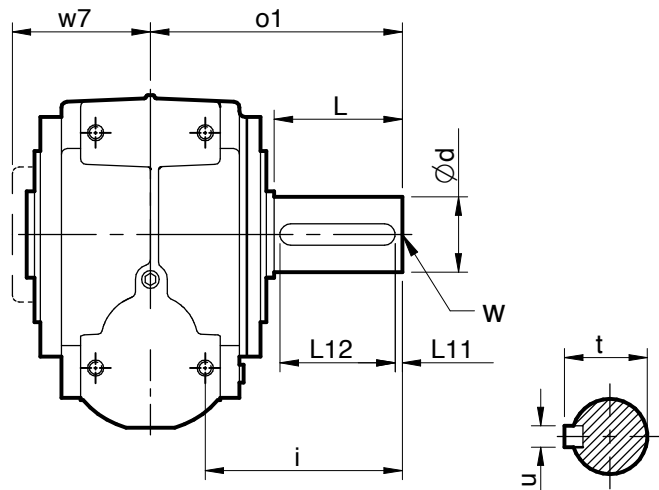
S SERIES

DIMENSIONS

OUTPUTSHAFT OPTIONS

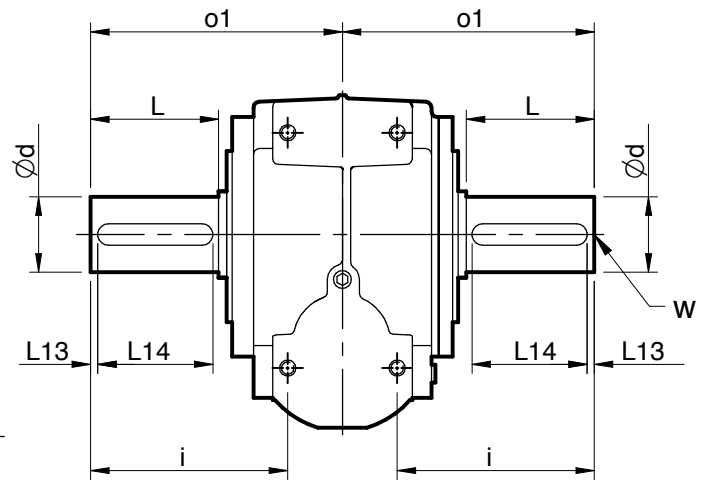
STANDARD OUTPUTSHAFT OPTION

S03 - S06

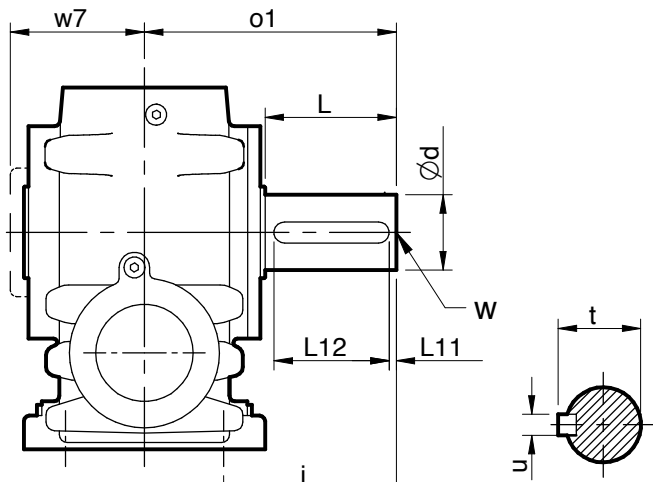


STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION

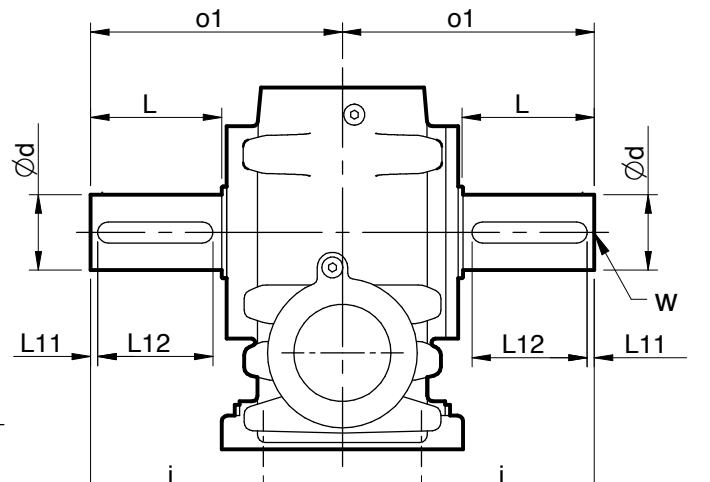
S03 - S06



S07 - S10



S07 - S10

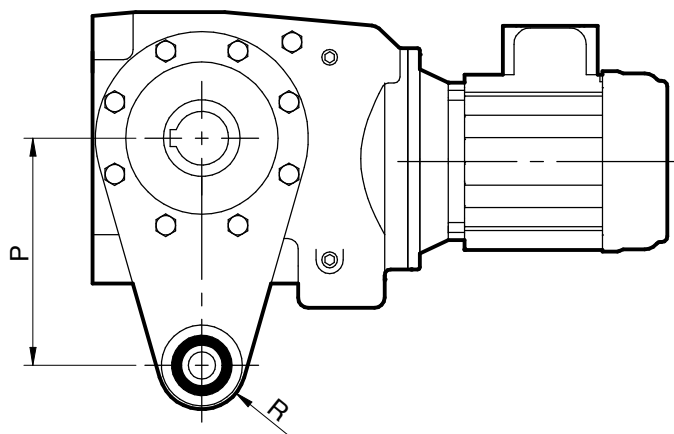


Size	ød	i	L	L11	L12	o1	t	u	w	w7
S0321	20,015 / 20,002	73	35	3	31	100	22,5	6	M8 x 1.0 x 16	70
S0421	25,015 / 25,002	87	46	3	42	115	28	8	M10 x 1.5 x 22	74,8
S0521	30,015 / 30,002	100	60	3	53	134	33	8	M10 x 1.5 x 22	79
S0621	35,018 / 35,002	120	63	3	55	160	38	10	M12 x 1.75 x 25	101
S0621 Heavy duty	45,018 / 45,002	155	98	5	80	195	48,5	14	M12 x 1.75 x 25	101
S0721	45,018 / 45,002	120	76	3	70	195	48,5	14	M16 x 2.0 x 36	125
S0821	60,030 / 60,011	155	120	3	110	255	64	18	M20 x 2.5 x 42	143
S0921	70,030 / 70,011	170	135	3	125	295	74,5	20	M20 x 2.5 x 42	169
S1021	90,035 / 90,013	216	170	3	160	366	95	25	M24 x 3.0 x 50	198

S SERIES

TORQUE ARM

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

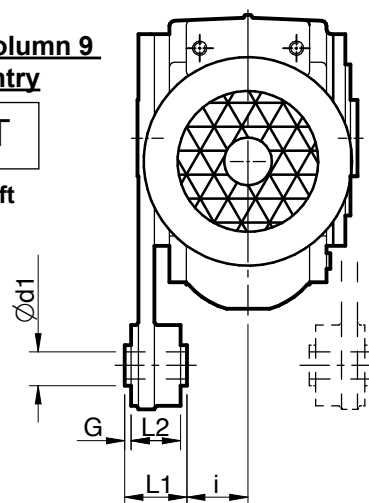
T

Left

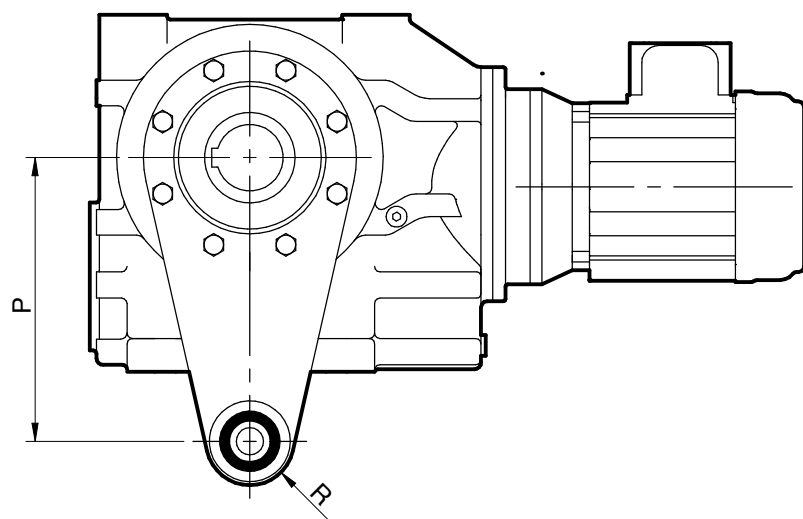
Column 9 Entry

Q

Right



Size	d1	G	i	L1	L2	P	R
S03	10.3	2	47	36	32	110	23
S04	10.3	2	52	36	32	130	23
S05	10.3	2	52	36	32	160	23
S06	16.3	2	71.5	44	32	200	38



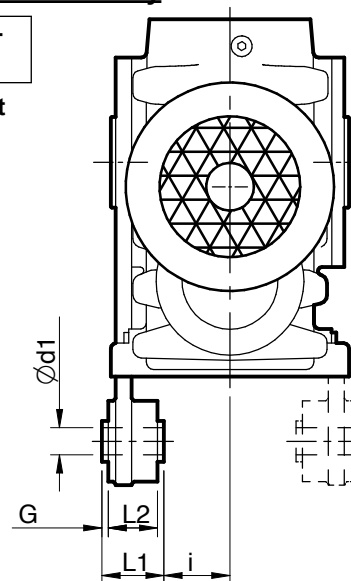
Column 9 Entry

T

Left

Q

Right

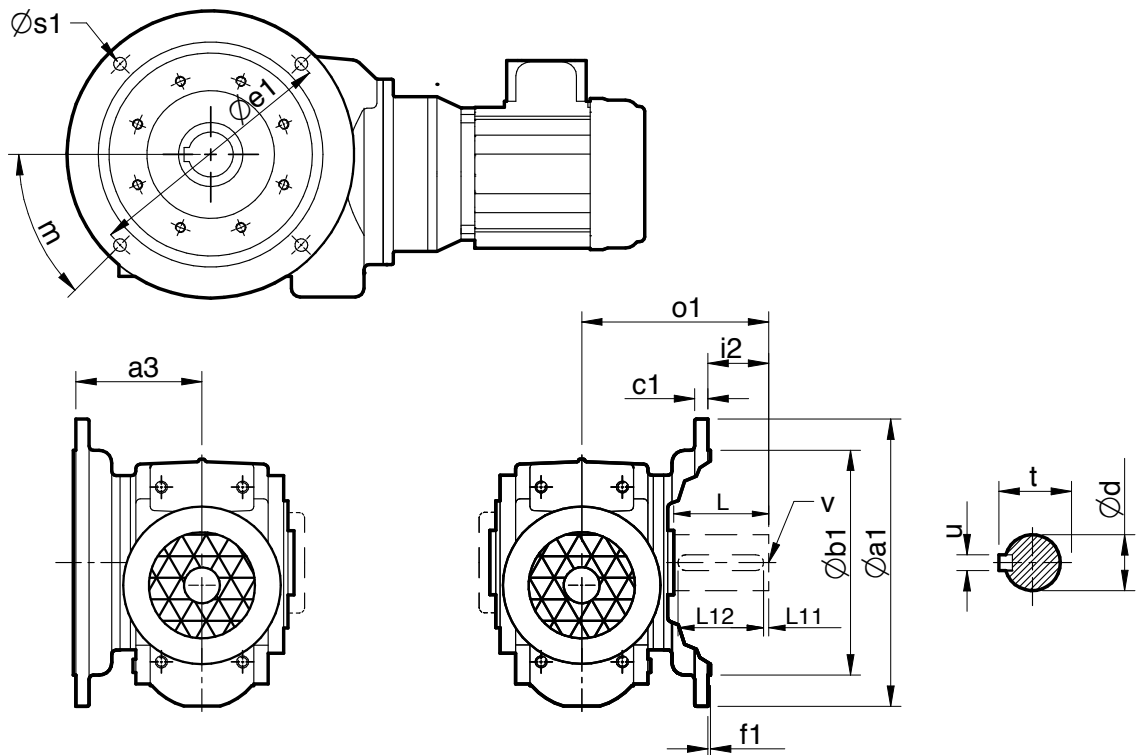


Size	Ød1	G	i	L1	L2	P	R
S07	16.3	2	77.5	60	56	250	38
S08	16.3	2	85.5	60	56	310	38
S09	25	5	98	80	70	380	45
S10	25	5	137	80	70	430	45

S SERIES

DIMENSIONS

D (B5) FLANGE



Column 9 Entry

F

Left

Column 9 Entry

H

Right

Size	Øa1	a3	Øb1	c1	Øe1	f1	m	Øs1
S03 Red Dia.	120	75	80 j6	8	100	3	45°	6.6
S03	160	75	110 j6	10	130	4	45°	9
S04	160	86	110 j6	10	130	3.5	45°	9
S05	200	107	130 j6	12	165	3.5	45°	11
S06	200	120	130 j6	12	165	3.5	45°	11
S07	250	145	180 j6	12	215	4	45°	14
S08	350	170	250 h6	18	300	5	45°	18
S09	450	200	350 h6	20	400	5	22.5°	18
S10	450	232	350 h6	22	400	5	22.5°	18

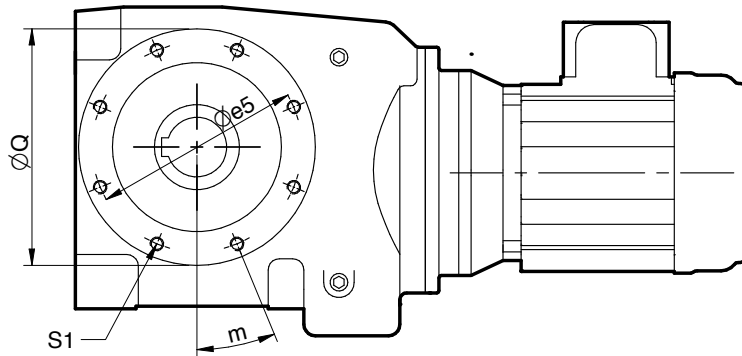
Size	Ød	i 2	L	L11	L12	o1	t	u	v
S0321	20.015 / 20.002	25	35	3	31	100	22.5	6	M8 x 1.0 x 16
S0421	25.015 / 25.002	40	46	3	42	115	28	8	M10 x 1.5 x 22
S0521	30.015 / 30.002	48	60	3	53	134	33	8	M10 x 1.5 x 22
S0621	35.018 / 35.002	53	63	3	55	160	38	10	M12 x 1.75 x 22
S0621 Heavy duty	45.018 / 45.002	75	98	5	80	195	48.5	14	M12 x 1.75 x 22
S0721	45.018 / 45.002	50	76	3	70	195	48.5	14	M16 x 2.0 x 36
S0821	60.030 / 60.011	85	120	3	110	255	64	18	M20 x 2.5 x 42
S0921	70.030 / 70.011	95	135	3	125	295	74.5	20	M20 x 2.5 x 42
S1021	90.035 / 90.013	134	170	3	160	366	95	25	M24 x 3.0 x 50

S SERIES

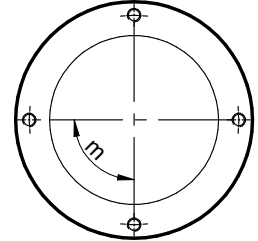
DIMENSIONS

C (B14) FLANGE

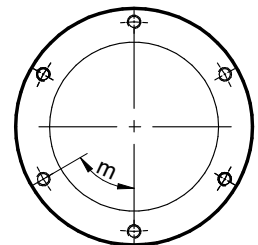
S04, S05, S06, S08



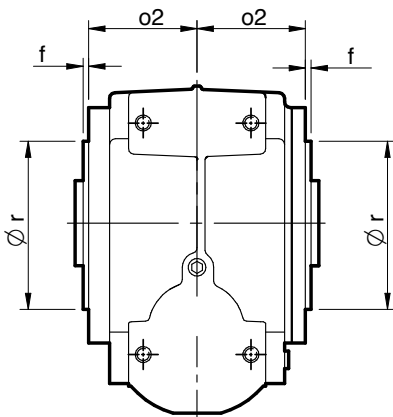
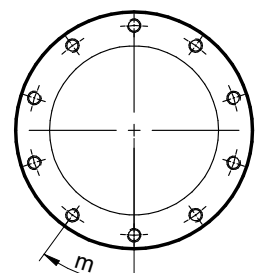
S03



S07, S09

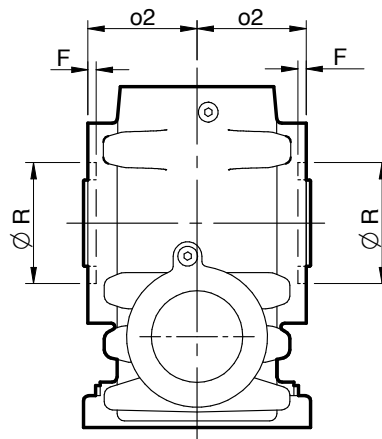


S10



S03 - S06

Male spigot



S07 - S10

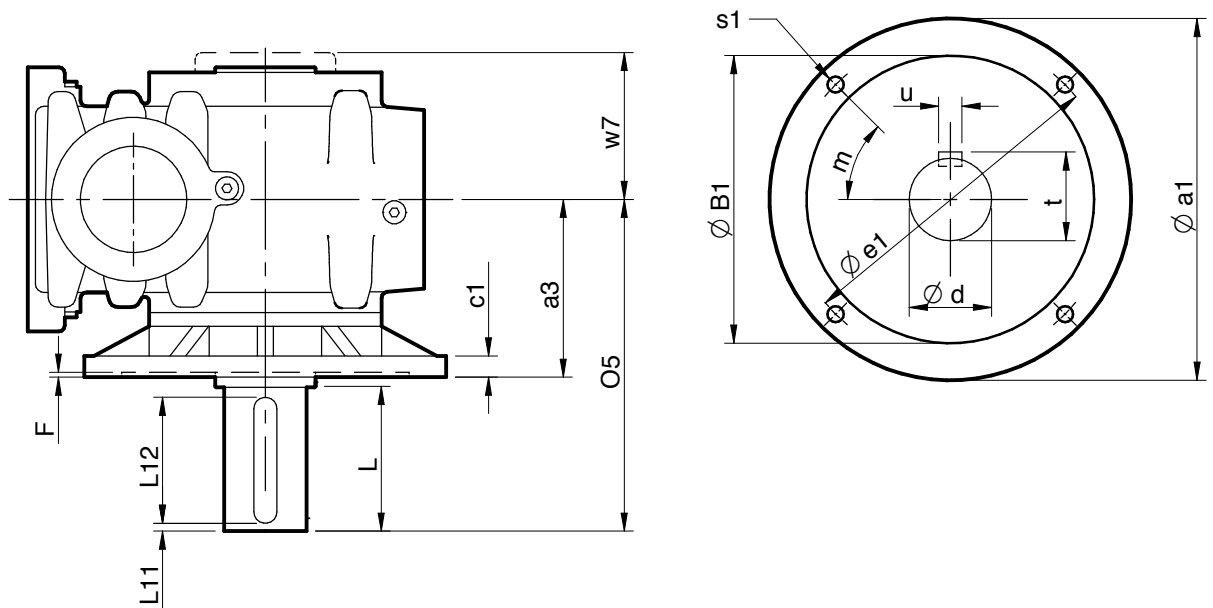
Female recess

Size	øe5	f	F	m	o2	Ø Q	Ø r (h7)	Ø R (H7)	S1
S03	90	4	-	90°	57	106	70	-	(4) M8 x 1.25 x 22
S04	107	4	-	22.5°	57	122	85	-	(8) M8 x 1.25 x 22
S05	130	4	-	22.5°	62	146	105	-	(8) M8 x 1.25 x 22
S06	155	5	-	22.5°	81	175	125	-	(8) M10 x 1.5 x 22
S07	150	-	4.5	60°	104	180	-	130	(6) M12 x 1.75 x 22
S08	195	-	5.0	22.5°	120	220	-	150	(8) M12 x 1.75 x 22
S09	230	-	5.0	60°	144	280	-	180	(6) M16 x 2.0 x 27
S10	280	-	7.0	36°	167	360	-	210	(10) M16 x 2.0 x 27

S SERIES

AGITATOR UNITS

AGITATOR - Non Standard Special Build.
Please consult our Application Engineers



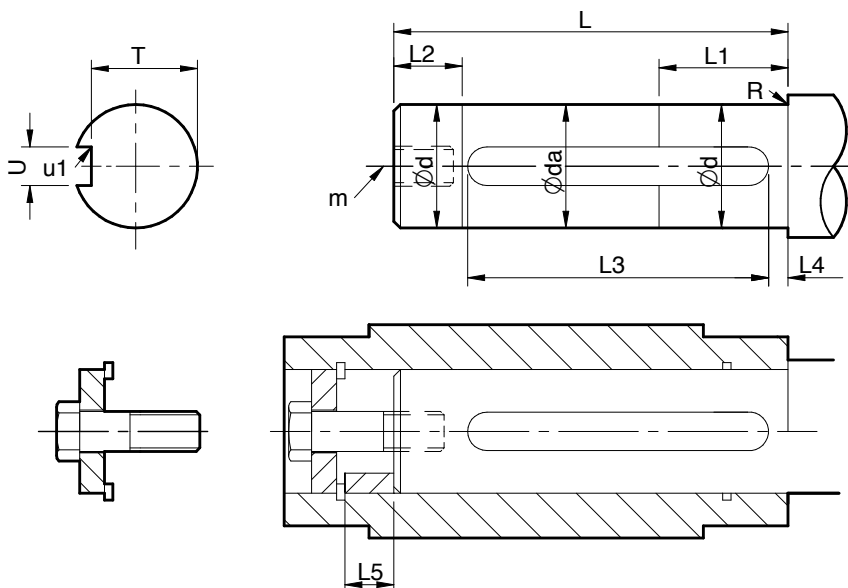
Size	a1	a3	B1 (H7)	c1	d (m6)	e1	F	L	L11	L12	m	O5	S	t	u	w7
S07	300	160	230	16	65	265	6	125	5	110	45°	290	(4) Ø 15	69	18	125
S08	350	180	250	17	75	300	7	140	5	125	45°	325	(4) Ø 19	79.5	20	143
S09	400	200	300	20	85	350	7	155	5	140	45°	360	(4) Ø 19	90	22	169
S10	450	212	350	22	100	400	7	175	5	160	22.5°	392	(8) Ø 19	106	28	198

S SERIES

DIMENSIONS

STANDARD BORE ASSEMBLY

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



Size	Bore	d	da	L	L1	L2	L3	L4	L5	m	N	R	T	U	u1
S03	Std	19.993/ 19.980	19.6	82	30	10	61.3 61.0	3	22	M6x1.0x16	8 Nm	0.8R	16.5 16.4	6.000 / 5.970	0.16 0.25R
S04	Reduced	24.993/ 24.980	24.6	99	38	13	79.3 79.0	3	23	M10x1.5x22	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	M10x1.5x22	15 Nm	0.8R	26.0 25.8	8.000 / 7.964	0.16 0.25R
S05	Reduced	29.993/ 29.980	29.6	104	45	15	79.3 79.0	3	23	M10x1.5x22	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	M12x1.75x28	20 Nm	0.8R	30.0 29.8	10.000 / 9.964	0.16 0.25R
S06	Reduced	39.991/ 39.975	39.6	125	60	20	100.5 100.0	3	31	M16x2x36	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	M16x2x36	45 Nm	0.8R	39.5 39.3	14.000 / 13.957	0.4 0.25R
S07	Reduced	49.991/ 49.975	49.6	153	75	25	130.5 130.0	3	35	M16x2x38	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	M20x2.5x42	85 Nm	1.2R	53.0 52.8	18.000 / 17.957	0.4 0.25R
S08	Reduced	59.990 / 59.971	59.6	183	91	31	148.5 148.0	3	37	M20x2.5x42	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	M20x2.5x42	85 Nm	1.2R	62.5 62.3	20.000 / 19.94	0.6 80.4R
S09	Reduced	69.990 / 69.971	69.6	227	105	35	177.5 177.0	3	58	M20x2.5x42	85 Nm	1.2R	62.5 62.3	20.000 / 19.94	0.6 80.4R
	Std	89.988 / 89.966	89.6	227	135	45	221.5 221.0	3	58	M24x3.0x50	200 Nm	1.2R	81.0 80.8	25.000 / 24.948	0.6 0.4R
S10	Reduced	79.990 / 79.971	79.6	260	120	40	225.5 225.0	3	53	M20x2.5x42	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	M24x3x50	200 Nm	1.2R	90 89.8	28.000/ 27.948	0.4 0.4R

Assembly Instructions

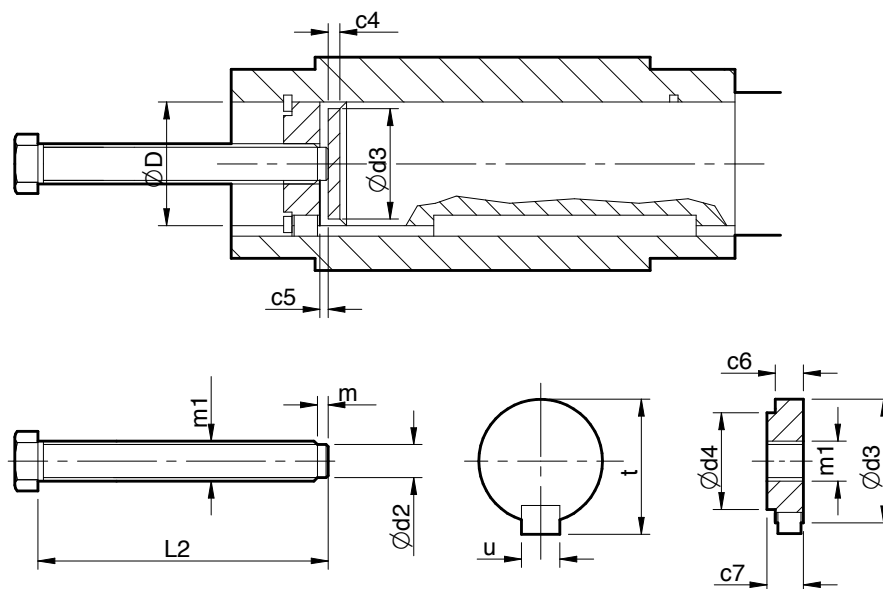
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent antiscuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.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

S SERIES

DIMENSIONS

STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



PARTS SUPPLIED BY CUSTOMER

Size	Bore	c4	c6	c7	D (H7)	d2	d3	d4	L2	m	m1	t	u
S03	Std	5	10	12	20	7	19.9	11.2	120	3	M10 x 1.5	22	6
S04	Reduced	5	15	17	25	13	24.9	16.2	160	3	M16 x 2.0	2	8
	Std	5	15	17	30	13	29.9	20.8	160	3	M16 x 2.0	33	8
S05	Reduced	5	15	17	30	13	29.9	20.8	160	3	M16 x 2.0	33	8
	Std	5	15	17	35	13	34.9	25.2	160	3	M16 x 2.0	38	10
S06	Reduced	5	20	23	40	20	39.9	30.9	220	3	M24 x 3.0	43	12
	Std	5	20	23	45	20	44.9	34.1	220	3	M24 x 3.0	49	14
S07	Reduced	5	20	23	50	20	49.9	39.0	220	3	M24 x 3.0	54	14
	Std	8	24	27	60	26	59.9	47.4	250	5	M30 x 3.5	64	1
S08	Reduced	8	24	27	60	26	59.9	47.4	250	5	M30 x 3.5	64	1
	Std	8	24	27	70	26	69.9	58.4	310	5	M30 x 3.5	74.5	20
S09	Reduced	8	24	27	70	26	69.9	58.4	310	5	M30 x 3.5	74.5	20
	Std	8	24	27	90	26	89.9	75.3	360	5	M30 x 3.5	95	25
S10	Reduced	8	24	27	80	26	79.9	65.5	360	5	M30 x 3.5	85	22
	Std	8	30	34	100	32	99.9	84.1	420	5	M30 x 3.5	106	2

S SERIES

SHIPPING SPECIFICATION

BASE MOUNT UNITS WITH STANDARD HOLLOW SHAFT

Unit size & No off reductions		S0321	S0331	S0341	S0421	S0431	S0441	S0521	S0531	S0541	S0621	S0631	S0641	S0721	S0731	S0741	S0821	S0841	S0921	S0941	S1021	S1041
Reducer Version		11	14	20	15	18	23	18	21	28	32	38	43	74	81	83	117	143	181	204	326	372
Single Output Shaft		0.4			1.0			1.5			3.7			7.0			12		19		30	
Double Output Shaft		0.6			1.5			2.3			5.6			11			18		28		45	
Motorised	63	Without Motor	12	13	20	16	17	24	18	19	29	28	33	44		80	83					
		With Motor	16	17	25	20	21	29	23	24	33	32	37	48		84	88					
	71	Without Motor	11	13	20	15	17	24	18	19	28	28	33	44		80	83					
		With Motor	18	19	26	22	23	30	25	26	35	34	39	50		87	89					
	80A	Without Motor	12	14	20	16	18	24	19	22	29	31	35	44	71	80	83	118	143	174	204	369
		With Motor	21	23	30	25	27	34	28	31	38	39	43	54	80	88	93	127	152	183	213	37
	80B	Without Motor	12	14	20	16	18	24	19	22	29	31	35	44	71	80	83	118	143	174	204	369
		With Motor	23	25	31	27	29	35	30	33	40	42	46	55	82	91	94	129	154	185	215	380
	90S	Without Motor	13	15	21	16	18	25	19	22	30	32	35	45	72	80	84	118	144	174	205	370
		With Motor	26	28	35	30	32	39	33	36	43	46	50	58	85	94	98	131	157	187	218	383
	90L	Without Motor	13	15	21	16	18	25	19	22	30	32	35	45	72	80	84	118	144	174	205	370
		With Motor	27	29	36	31	33	40	34	37	44	47	52	59	86	95	99	132	158	188	219	34
	100L	Without Motor										35			74			120	146	176	207	313
		With Motor										59			98			144	170	200	231	337
	112M	Without Motor										35			74			120	146	176	207	313
		With Motor										66			105			151	177	207	238	344
	132S	Without Motor													76			123		179		316
		With Motor													124			171		227		364
	132M	Without Motor													76			123		179		316
		With Motor													128			175		231		368
	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

IMPORTANT

Product Safety Information

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

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

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

- 1) Fire/Explosion
 - (a) Oil mists and vapour are generated within gear units. It is therefore dangerous to use naked lights in the proximity of gearbox openings, due to the risk of fire or explosion.
 - (b) In the event of fire or serious overheating (over 300 °C), certain materials (rubber, plastics, etc.) may decompose and produce fumes. Care should be taken to avoid exposure to the fumes, and the remains of burned or overheated plastic/rubber materials should be handled with rubber gloves.
- 2) Guards - Rotating shafts and couplings must be guarded to eliminate the possibility of physical contact or entanglement of clothing. It should be of rigid construction and firmly secured.
- 3) Noise - High speed gearboxes and gearbox driven machinery may produce noise levels which are damaging to the hearing with prolonged exposure. Ear defenders should be provided for personnel in these circumstances. Reference should be made to the Department of Employment Code of Practice for reducing exposure of employed persons to noise.
- 4) Lifting - Where provided (on larger units) only the lifting points or eyebolts must be used for lifting operations (see maintenance manual or general arrangement drawing for lifting point positions). Failure to use the lifting points provided may result in personal injury and/or damage to the product or surrounding equipment. Keep clear of raised equipment.
- 5) Lubricants and Lubrication
 - (a) Prolonged contact with lubricants can be detrimental to the skin. The manufacturer's instruction must be followed when handling lubricants.
 - (b) The lubrication status of the equipment must be checked before commissioning. Read and carry out all instructions on the lubricant plate and in the installation and maintenance literature. Heed all warning tags. Failure to do so could result in mechanical damage and in extreme cases risk of injury to personnel.
- 6) Electrical Equipment - Observe hazard warnings on electrical equipment and isolate power before working on the gearbox or associated equipment, in order to prevent the machinery being started.
- 7) Installation, Maintenance and Storage
 - (a) In the event that equipment is to be held in storage, for a period exceeding 6 months, prior to installation or commissioning, application engineering must be consulted regarding special preservation requirements. Unless otherwise agreed, equipment must be stored in a building protected from extremes of temperature and humidity to prevent deterioration.
The rotating components (gears and shafts) must be turned a few revolutions once a month (to prevent bearings brinelling).
 - (b) External gearbox components may be supplied with preservative materials applied, in the form of a "waxed" tape overwrap or wax film preservative. Gloves should be worn when removing these materials. The former can be removed manually, the latter using white spirit as a solvent.

Preservatives applied to the internal parts of the gear units do not require removal prior to operation.
 - (c) Installation must be performed in accordance with the manufacturer's instructions and be undertaken by suitably qualified personnel.
 - (d) Before working on a gearbox or associated equipment, ensure that the load has been removed from the system to eliminate the possibility of any movement of the machinery and isolate power supply. Where necessary, provide mechanical means to ensure the machinery cannot move or rotate. Ensure removal of such devices after work is complete.
 - (e) Ensure the proper maintenance of gearboxes in operation. Use only the correct tools and approved spare parts for repair and maintenance. Consult the Maintenance Manual before dismantling or performing maintenance work.
- 8) Hot Surfaces and Lubricants
 - (a) During operation, gear units may become sufficiently hot to cause skin burns. Care must be taken to avoid accidental contact.
 - (b) After extended running the lubricant in gear units and lubrication systems may reach temperatures sufficient to cause burns. Allow equipment to cool before servicing or performing adjustments.
- 9) Selection and Design
 - (a) Where gear units provide a backstop facility, ensure that back-up systems are provided if failure of the backstop device would endanger personnel or result in damage.
 - (b) The driving and driven equipment must be correctly selected to ensure that the complete machinery installation will perform satisfactorily, avoiding system critical speeds, system torsional vibration, etc.
 - (c) The equipment must not be operated in an environment or at speeds, powers, torques or with external loads beyond those for which it was designed.
 - (d) As improvements in design are being made continually the contents of this catalogue are not to be regarded as binding in detail, and drawings and capacities are subject to alterations without notice.

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

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



REN104/CAT-SSERIES/10.16/E
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