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Series C Helical Worm

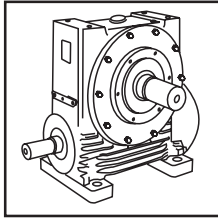


Technical
Up to - 60 HP / 89,000 lb.in

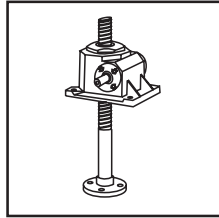
Geared Motors
CC-1.03US114

PRODUCTS IN THE RANGE

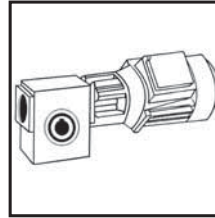
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



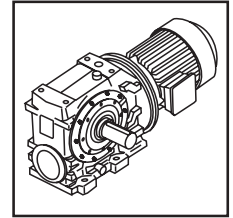
Series A
Worm Gear units
and geared motors
in single & double
reduction types



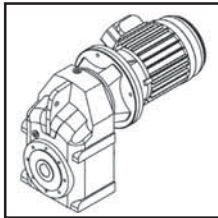
Series BD
Screwjack worm
gear unit



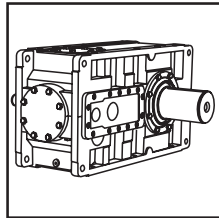
Series BS
Worm gear unit



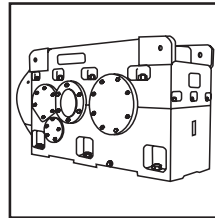
Series C
Right angle drive
helical worm geared
motors & reducers



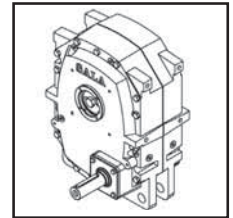
Series F
Parallel angle helical
bevel helical geared
motors & reducers



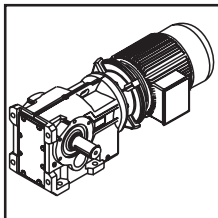
Series G
Helical parallel shaft
& bevel helical right
angle drive gear
units



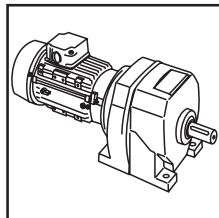
Series H
Large helical parallel
shaft & bevel helical
right angle drive units



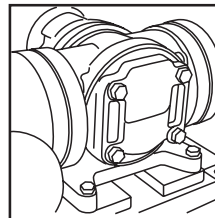
Series J
Shaft mounted
helical speed
reducers



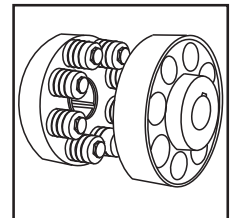
Series K
Right angle helical
bevel helical geared
motors & reducers



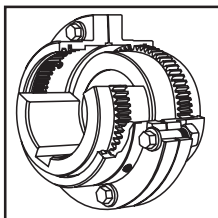
Series M
In-line helical geared
motors & reducers



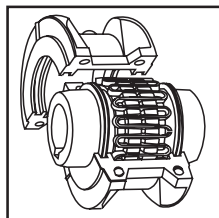
Roloid Gear Pump
Lubrication and fluid
transportation pump



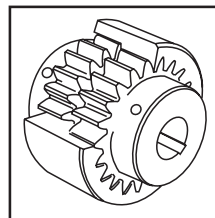
**Series X
Cone Ring**
Pin and bush
elastomer coupling



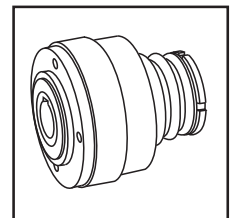
**Series X
Gear**
Torsionally rigid,
high torque coupling



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



**Series X
Nylon**
Gear coupling with
nylon sleeve



**Series X
Torque Limiter**
Overload protection
device



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

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

SERIES C

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SERIES C

GENERAL DESCRIPTION

Series C right angle helical worm geared motors and reducers provide a highly efficient and compact solution to meet most requirements up to 60 HP with maximum output torque capacity of 88,500 Lb-In.

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

The Range Includes

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

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

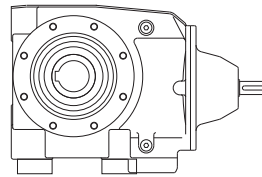
Unit Types:

- Unit type M - Motorized with IEC standard motor
- Unit type J - Motorized with Compact Motor
- Unit type N - Motorized with NEMA standard motor
- Unit type H - Motorized with high efficiency motor (IE2 or EPACT)
- Unit type E - Motorized with NEMA high efficiency motor (EPACT)
- Unit type G - Unit to allow fitting of customers IEC motor
- Unit type A - Unit to allow fitting of customers NEMA motor
- Unit type R - Reducer unit
- Unit type S - Reducer unit with fan kit
- Unit type W - Reducer unit with backstop CCW rotation
- Unit type X - Reducer unit with backstop CW rotation
- Unit type Y - Reducer unit with fan and backstop CW rotation
- Unit type Z - Reducer unit with fan and backstop CCW rotation

Design Features Include

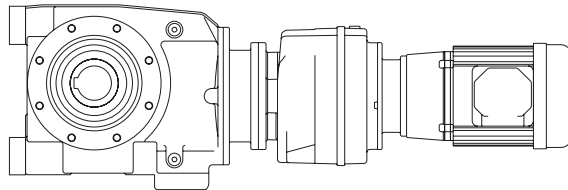
- Patented standard motor connection (IEC or NEMA).
- Ability to fit double oil seals input and output as required.
- All units are dimensionally interchangeable with other major manufacturers.
- Brake geared motors are available as standard.
- Sizes 03, 04, 05 and 06 are lubricated for life.
- Motorized units can be fitted with a backstop module and reducer units can be fitted with a backstop and fan.
- Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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



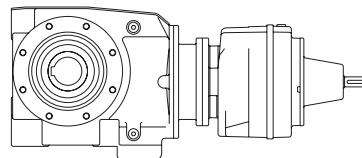
Two stage reduction unit with base mounted feet and hollow output shaft

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



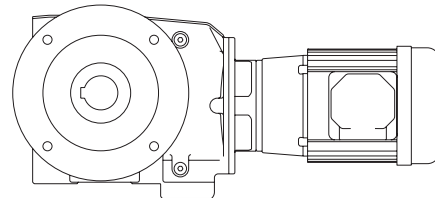
Four stage Motorized unit with end mounted feet and hollow output shaft

* C 0 4 4 1 2 8 0 E N A - 1 A . 2 5 B - -



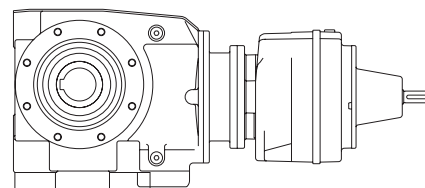
Four stage reduction unit with hollow output shaft

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



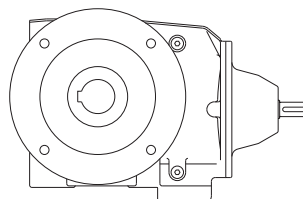
Two stage Motorized unit with output flange and single extension output shaft

* C 0 5 2 1 1 1 2 F N N - 1 A 0 . 5 B - -



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

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



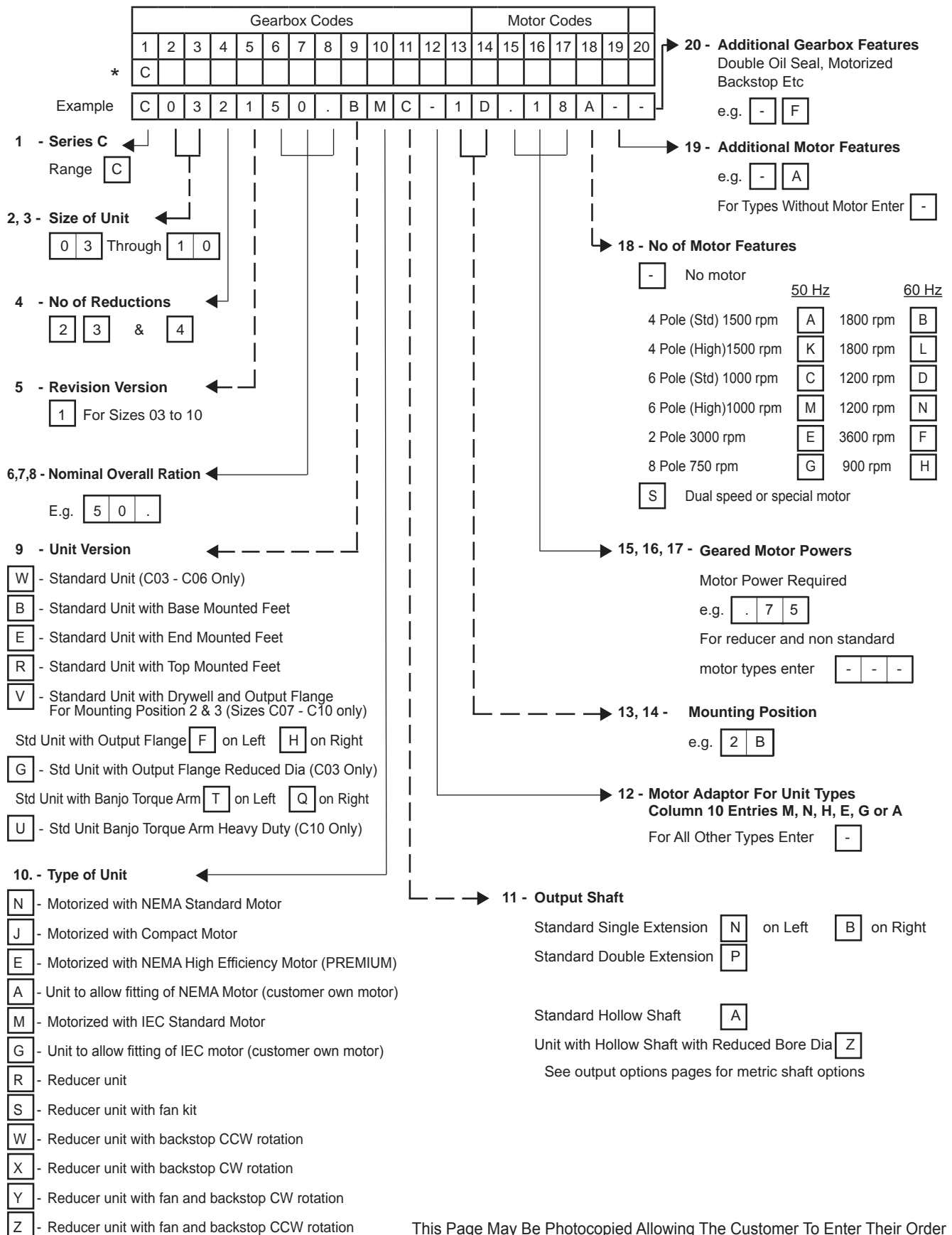
Two stage reduction unit with output flange and single extension output shaft

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

* Typical unit designations

SERIES C

UNIT DESIGNATIONS



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

SERIES C

EXPLANATION & USE OF RATINGS & SERVICE FACTORS

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

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

Mechanical ratings and service factor Fm

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

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

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

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

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

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

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

Table 1. Mechanical Service Factor (Fm)

Prime mover	Duration of service hrs per day	Load classification-driven machine		
		Uniform mass acceleration factor < 0.2	Moderate mass acceleration factor < 3	Heavy mass acceleration factor < 10
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	1.00	1.50
	3 to 10	1.00	1.25	1.75
	Over 10	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Under 3	1.00	1.25	1.75
	3 to 10	1.25	1.50	2.00
	Over 10	1.50	1.75	2.25
Single cylinder internal combustion engine	Under 3	1.25	1.50	2.00
	3 to 10	1.50	1.75	2.25
	Over 10	1.75	2.00	2.50

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

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

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

Thermal Rating (For In-line Reducers)

The Thermal Rating is the gearboxes ability to dissipate heat. If exceeded, may cause the lubricant to break down resulting in premature gear failure. A thermal check should be made in accordance with the Thermal Rating Procedure

SERIES C

LOAD CLASSIFICATIONS BY APPLICATIONS

Table 3

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
				Table conveyors		Mixers	M
Can filling machinery	M	Feeders		Group drives	H	Scum breaker	M
		Apron	M	Individual drives	H	Thickness	M
Crane knife	M	Belt	U	Table conveyors- reversing	H	Vacuum filters	M
		Disc	M	Wire draw	M		
Car dumper	M	Reciprocating	H	Wire roll	M	Screens	
		Screw	M			Air washing	U
Car puller	M			Mills		Rotary, stone or gravel	M
		Food industry		Cement kiln	H	Traveling water intake	U
Clarifier	U	Cereal cooker	U	Dryer, Cooler	H		
		Dough mixer	M	Kiln (other)	H	Slab pushers	M
Classifier	M	Meat grinder	M	Rod plain	H		
		Meat slicer	M	Rod wedge bar	H	Slewing	H
Clay wokring machinery		Generators - not welding	U	Rotary/ Ball	H		
Brick press	H			Tumbling barrel	H	Steering gear	†
Briquette machine	H	Hammer mills	H				
Clay working machinery	M			Mixers		Stokers	U
Plug mill	M	Hoists		Concrete	M		
		Heavy duty	H	Cons density	U	Sugar industry	
Compressors		Medium duty	M	Variable density	M	Can knife	M
Centrifugal	U	Skip hoist	M			Crusher	M
Lobe	M			Oil industry		Mills	M
Reciprocating		Laundry		Chiller's	M		
Multi cylinder	M	Tumbler	M	Oil well pump	M	Textile industry	
Single cylinder	H	Washer	M	Filter press	M	Batchers	M
				Rotary kiln	M	Calenders	M
Conveyors- Light duty uniform load		Line shafts				Cards	M
Apron	U	Heavy duty	M	Paper industry		Dry cans	M
Assembly	U	Light duty	U	Agitator (mixer)	M	Dryers	M
Belt	U			Barker (hydraulic)	M	Dyeing machinery	M
Bucket	U	Lumber industry		Barker (mechanical)	H	Knitting machinery	M
Chain	U	Barkers	M	Barking drum	H	Looms	M
Flight	U	Burner conveyor	H	Beater & Pulper	M	Mangles	M
Oven	U	Chain/ Drag saw	H	Bleacher	U	Nappers	M
Screw	U	Chain transfer	H	Calendnders	M	Pads	M
		Chain way transfer	H	Calenders- super	H	Range drive	M
Conveyors - Heavy duty uniform load		De- barking drum	H	Converting machine	M	Slashers	M
Apron	M	Edger feed	M	Conveyors	U	Soapers	M
Assembly	M	Gang feed	M	Couch	M	Spinners	M
Belt	M	Green chain	M	Cutters - plates	H	Tenter frame	M
Bucket	M	Live roll	H	Cylinders	M	Washers	M
Chain	M	Log deck	H	Dryers	M	Winders	M
Flight	M	Log haul	H	Felt stretcher	M		
Live roll	†	Log turning	H	Felt whipper	H	Windlass	†
Oven	M	Log conveyer	H	Jordans	M		
Reciprocating	M	Of bearing roll	H	Log haul	H		
Screw	M	Planer feed chaines	M	Machine real	M		
Shaker	M	Planer hoist	M	Presses	M		
		Re-saw conveyor	M	Stock chest	M		
Cranes	†	Roll cases	H	Suction roll	M		
		Slab conveyor	H	Washers & thickeners	M		
Crusher		Sorting table - triple hoist	M	Winders	M		
Ore	H	Triple hoist - Drive /conveyor	M			Printing presses	†
Stone	H	Transfer conveyer	M				
Sugar	H	Transfer roll	M	Pullers			
		Tray drive	M	Barge haul	H		
Dredger	M	Trimmer feed	M				
Cable reals	M	Waster conveyor	M				
Conveyors	M	Small waste conveyor (belt)	U				
Cutter head drive	H	Small waste conveyor (chain)	U				
Pumps	M						
Screen drive	H						
Stackers	M						
Winches	M						

SERIES C

SELECTION PROCEDURE FOR MOTORIZED UNITS

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 1.3HP
 Output speed of gearbox or Input speed of machine = 130 rev/min
 Application = Uniformly loaded belt conveyor
 Duration of service (hours per day) = 24hrs
 Mounting position = 1
 Ambient temperature = 70°F
 Running time (%) = 100%

NOTE.

If selecting a Series C Reducer for use without a Fan Ventilated Motor A Thermal Check must be made.

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application,

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

Therefore mechanical service factor (Fm) = 1.25

If the unit is subject to frequent start/stops Fm must be multiplied by factor Fs

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUT SHAFT

Absorbed output torque = $\frac{\text{Absorbed HP} \times 63000}{\text{Gearbox output speed}}$

$$\frac{1.3 \times 63000}{68} = 630 \text{ lb-in}$$

3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.

Absorbed power = 1.3 HP, therefore refer to 1.5 HP selection table

Required output speed of gearbox = 130 rev/min

1.5 HP

Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Unit Designation	Weight	Motor Size
					Column Entry Spaces to be filled when entering order		
201	8.59	394	1.74	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 1 . 5 B _ _	62.7	145TC
149	11.61	527	1.41	625	1 1 .		
131	13.20	595	1.29	625	1 2 .		
115	14.95	672	1.18	625	1 4 .		
105	16.36	657	1.12	625	1 6 .		
90	19.13	855	0.99	625	1 8 .		
84	20.61	921	0.93	575	2 0 .		
78	22.11	873	0.92	575	2 2 .		
69	25.14	987	0.84	525	2 5 .		

4 POLE
1750 rpm
nominal
input speed

Go to point 4

SERIES C

SELECTION PROCEDURE FOR MOTORIZED 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 = 630 lb.in

1.5 HP	N2	i	lb-in	Fm	lb	Unit Designation	Weight	Motor Size
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry Spaces to be filled when entering order		
	201	8.59	394	1.74	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 1 . 5 B _ _		
149	11.61	527	1.41	625	1 1 .			
131	13.20	595	1.29	625	1 2 .			
115	14.95	672	1.18	625	1 4 .			
105	16.36	657	1.12	625	1 6 .			

However the output torque is only 595 against the requirement of 630 lb.in, hence a unit fitted with a 2HP motor is required.

2 HP	N2	i	lb-in	Fm	lb	Unit Designation	Weight	Motor Size
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry Spaces to be filled when entering order		
	201	8.59	526	1.30	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _		
149	11.61	703	1.06	625	1 1 .			
131	13.20	794	0.96	625	1 2 .			
115	14.95	896	0.89	560	1 4 .			
105	16.36	876	0.84	525	1 6 .			

Selected unit's output torque (M2) = 794 lb.in, therefore the torque from a 2HP 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

2 HP	N2	i	lb-in	Fm	lb	Unit Designation	Weight	Motor Size
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry Spaces to be filled when entering order		
	201	8.59	526	1.30	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _		
149	11.61	703	1.06	625	1 1 .			
131	13.20	794	0.96	625	1 2 .			
115	14.95	896	0.89	560	1 4 .			
105	16.36	876	0.84	525	1 6 .			
201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	69.7	145TC	
149	11.61	719	1.76	1180	1 1 .			
131	13.20	813	1.60	1180	1 2 .			
115	14.95	918	1.47	1180	1 4 .			

The service factor (Fm) is only 0.96, therefore this unit is not acceptable and a larger C0421 unit must be selected with a service factor (Fm) of 1.60

5 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 54, and compare with allowable overhung load (lb) of selected unit

Allowable overhung load (lb) must be equal or more than calculated overhung load requirement

2 HP	N2	i	lb-in	Fm	lb	Unit Designation	Weight	Motor Size
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry Spaces to be filled when entering order		
	201	8.59	526	1.30	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _		
149	11.61	703	1.06	625	1 1 .			
131	13.20	794	0.96	625	1 2 .			
115	14.95	896	0.89	560	1 4 .			
105	16.36	876	0.84	525	1 6 .			
201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	69.7	145TC	
149	11.61	719	1.76	1180	1 1 .			
131	13.20	813	1.60	1180	1 2 .			
115	14.95	918	1.47	1180	1 4 .			

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

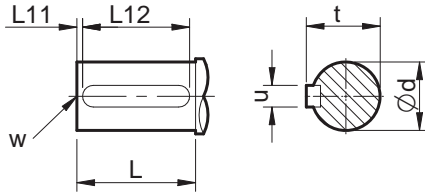
a) Inertia of the Driven Machine (Referred to motor speed) > 10
Inertia of Gear Unit plus Motor

b) Ambient temperature is above 104°C

SERIES C

OUTPUT OPTIONS

OUTPUTSHAFT OPTIONS, COLUMN 11 ENTRY



Column 11 Entry

Standard Single Extension C on Left E on Right

Standard Double Extension D

Std Heavy Duty Single Extension (Size C06) J

Std Heavy Duty Double Extension (Size C06) K

Inch Single Extension N on Left B on Right

Inch Double Extension P

Inch Heavy Duty Single Extension (Size C06) L

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

SIZE OF UNIT	TYPE OF OUTPUT SHAFT	COLUMN 11 ENTRY	Dimensions (Metric Shafts in mm)						
			ød	L	L11	L12	t	u	w
C03	Metric	C, E, D	20.015 / 20.002	35	3	31.2	2.5	6	M6 x 1.0 x 16 Deep
	Inch	N, B, P	0.7500" / 0.7495"	1.38"	*	1.28"	0.83"	0.19"	1/4 UNF x 0.63" Deep
C04	Metric	C, E, D	25.015 / 25.002	46	3	42	28	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.0000" / 0.9995"	1.81"	*	1.69"	1.10"	0.25"	1/4 UNF x 0.63" Deep
C05	Metric	C, E, D	30.015 / 30.002	60	3	53	33	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.2500" / 1.2494"	2.36"	*	2.125"	1.36"	0.25"	3/8 UNF x 0.87" Deep
C06	Metric	C, E, D	35.018 / 35.002	63	3	55	38	10	M12 x 1.75 x 22 Deep
	Metric Heavy Duty	J, K	45.018 / 45.002	98	5	80	48.5	14	M16 x 2.0 x 36 Deep
	Inch	N, B, P	1.3750" / 1.3744"	2.48"	*	2.34"	1.51"	0.313"	1/2 UNF x 1.125" Deep
	Inch Heavy Duty	L	1.7500" / 1.7494"	3.86"	*	3.75"	1.92"	0.375"	5/8 UNF x 1.44" Deep
C07	Metric	C, E, D	45.018 / 45.002	76	3	70	48.5	14	M16 x 2.0 x 36 Deep
	Inch	N, B	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5/8 UNF x 1.44" Deep
	Inch Double Ext	P	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5/8 UNF x 1.44" Deep
C08	Metric	C, E, D	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42 Deep
	Inch	N, B	2.3750" / 2.3744"	4.72"	*	4.125"	2.646"	0.625"	3/4 UNF x 1.75" Deep
	Inch Double Ext	P	2.3125" / 2.3115"	4.72"	*	4.125"	2.582"	0.625"	3/4 UNF x 1.75" Deep
C09	Metric	C, E, D	70.030 / 70.011	135	3	125	74.5	20	M20 x 2.5 x 42 Deep
	Inch	N, B	2.8750" / 2.8740"	5.12"	*	4.5"	3.20"	0.75"	3/4 UNF x 1.75" Deep
	Inch Double Ext	P	2.6875" / 2.6865"	5.12"	*	4.5"	2.963"	0.625"	3/4 UNF x 1.75" Deep
C10	Metric	C, E, D	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50 Deep
	Inch	N, B	3.6250" / 3.6240"	6.69"	*	5.875"	4.009"	0.875"	1 UNF x 2.25" Deep
	Inch Double Ext	P	3.1875" / 3.1865"	6.69"	*	5.875"	3.518"	0.750"	1 UNF x 2.25" Deep

SERIES C

OUTPUTBORE OPTIONS

OUTPUT BORE OPTIONS. COLUMN 11 ENTRY

Column 11 Entry

Metric Hollow Shaft

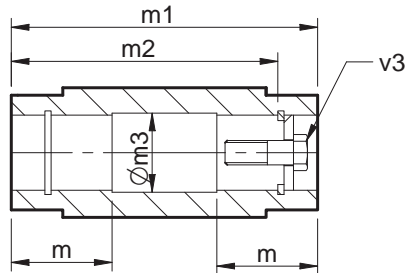
H

Inch Hollow Shaft

A

Metric Hollow Shaft with reduced bore diameter

Z



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

SERIES C

MOTOR ADAPTERS NEMA & IEC

Double Reduction Units

Compact Motor - Column 12 Entry - J

Power	C0321		C0421		C0521		C0621		C0721		C0821	
	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250
0.33 HP	•	•	•	•	•	•	•	•	•	•	•	•
0.50 HP	•	•	•	•	•	•	•	•	•	•	•	•
0.75 HP	•	•	•	•	•	•	•	•	•	•	•	•
1.0 HP	•	•	•	•	•	•	•	•	•	•	•	•
1.5 HP	•	•	•	•	•	•	•	•	•	•	•	•
2.0 HP	•	•	•	•	•	•	•	•	•	•	•	•
3.0 HP	•	•	•	•	•	•	•	•	•	•	•	•
4.0 HP	•	•	•	•	•	•	•	•	•	•	•	•
5.5 HP	•	•	•	•	•	•	•	•	•	•	•	•
7.5 HP	•	•	•	•	•	•	•	•	•	•	•	•
10 HP	•	•	•	•	•	•	•	•	•	•	•	•

NEMA Motor C Face - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021	
	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-40. 56.-63.	45.-50. 71.-250
56c	T	U	T	U	T	U	T	Q	T	Q	T	M	T	S	T	P
143/145TC	V	W	V	W	V	W	V	R	V	R	V	N	V	S	V	P
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	R	R
284/286TC	-	-	-	-	-	-	-	-	-	-	L	U	Q	V	M	S
324/326TC	-	-	-	-	-	-	-	-	-	-	-	-	R	W	N	T

IEC Motor Flange B5 - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021	
	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-28. 36.-40.	32. 45.-250	8.0-28. 36.-40.	32. 45.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-40. 56.-63.	45.-50. 71.-250	8.0-40. 56.-63.	45.-50. 71.-250
63	F	F	F	F	-	F	-	V	-	-	-	-	-	-	-	-
71	G	G	G	G	-	G	-	D	-	-	-	-	-	-	-	-
80	A	J	A	J	A	J	W	F	-	F	-	D	-	F	-	-
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	-

IEC Motor Flange B14 - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721	
	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	-

SERIES C

MOTOR ADAPTERS NEMA & IEC

Triple Reduction Units

Compact Motor - Column 12 Entry - J

Power	C0331		C0431		C0531		C0631		C0731	
	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
0.33 HP	•	•	•	•	•	•	-	•	-	-
0.50 HP	•	•	•	•	•	•	-	•	-	-
0.75 HP	•	•	•	•	•	•	-	•	-	•
1.0 HP	•	•	•	•	•	•	-	•	-	•
1.5 HP	•	-	•	-	•	-	-	-	•	•
2.0 HP	•	-	•	-	•	-	-	-	•	•
3.0 HP	-	-	-	-	-	-	-	-	•	•
4.0 HP	-	-	-	-	-	-	-	-	•	•
5.5 HP	-	-	-	-	-	-	-	-	•	-
7.5 HP	-	-	-	-	-	-	-	-	•	-
10 HP	-	-	-	-	-	-	-	-	-	-

NEMA Motor C Face - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	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	-

IEC Motor Flange B5 - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	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

IEC Motor Flange B14 - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	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

SERIES C

MOTOR ADAPTERS

NEMA & IEC

Quadruple Reduction Units

Compact Motor - Column 12 Entry - J

Power	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
0.33 HP	•	•	•	•	•	-	-	-	-	-	-
0.50 HP	•	•	•	•	•	-	-	-	-	-	-
0.75 HP	•	•	•	•	•	-	•	-	•	-	-
1.0 HP	•	•	•	•	•	-	•	-	•	-	-
1.5 HP	-	-	-	-	-	•	•	•	•	-	•
2.0 HP	-	-	-	-	-	•	•	•	•	-	•
3.0 HP	-	-	-	-	-	•	•	•	•	-	•
4.0 HP	-	-	-	-	-	•	•	•	•	-	•
5.5 HP	-	-	-	-	-	•	-	•	-	-	•
7.5 HP	-	-	-	-	-	•	-	•	-	-	•
10 HP	-	-	-	-	-	-	-	-	-	-	•

NEMA Motor C Face - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	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

IEC Motor Flange B5 - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	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	-

IEC Motor Flange B14 - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
		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

SERIES C LUBRICATION

LUBRICANT AND QUANTITY

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

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

Note: Catalogue ratings are based on the Polyglycol Synthetic Lubricant
Use witj mineral or alternative lubricants may require a derate, please contact our Application Engineers.

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

The grade and level are determined from the operating speed of the gear unit and the ambient temperature range, which if not given when ordering will be assumed to be 1750 rev / min input and ambient temperature range 0 to 95°F. 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 lists of approved lubricants within the grades.

Unless stated with the order these operating conditions will be assumed

TABLE 1 SERIES C OIL GRADES

GEAR UNIT DETAILS			AMBIENT TEMPERATURE RANGE *		
UNIT TYPE	RATIO RANGE	INPUT SPEED(REV / MIN)	-22°F to 68°F	32°F to 95°F	68°F to 122°F
DOUBLES	8 - 18	0 - 750	6G	6G	8G
		0>750 - 2000	5G	6G	7G
		>2000 - 3000	4G	6G	6G
	20 - 36	0 - 2000	6G	6G	8G
		>2000 - 3000	5G	6G	7G
		40 - 250	0 - 3000	6G	6G
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 (LITERS †) (double reduction and final stage quadruple reduction)

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

* Use Level 1 for output speeds lower than 100 rpm

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

† 1 LITER = 0.26 gallon (US)

TABLE 3 LUBRICANT QUANTITY (LITERS †) (primary stage quadruple reduction)

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

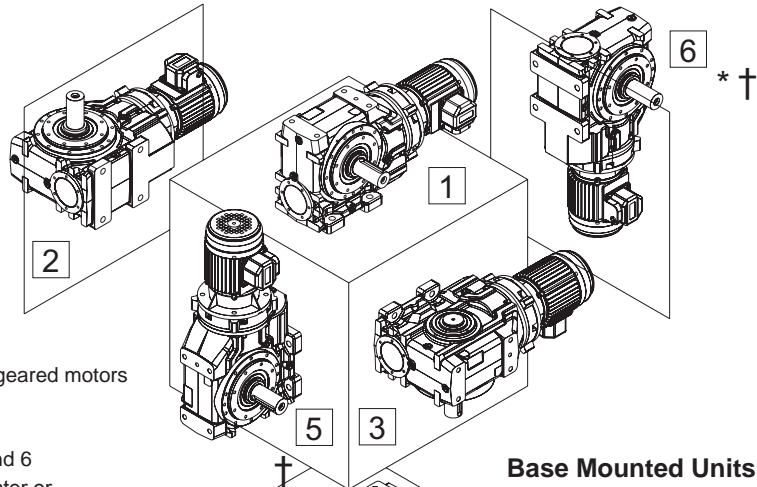
• Unit filled with Grade 6E lubricant suitable for all ambient temperatures between 32°F to 95°F and are 'lubricated for life'

SERIES C

MOUNTING POSITIONS

COLUMN 13 ENTRY

Enter for units with no oil fill

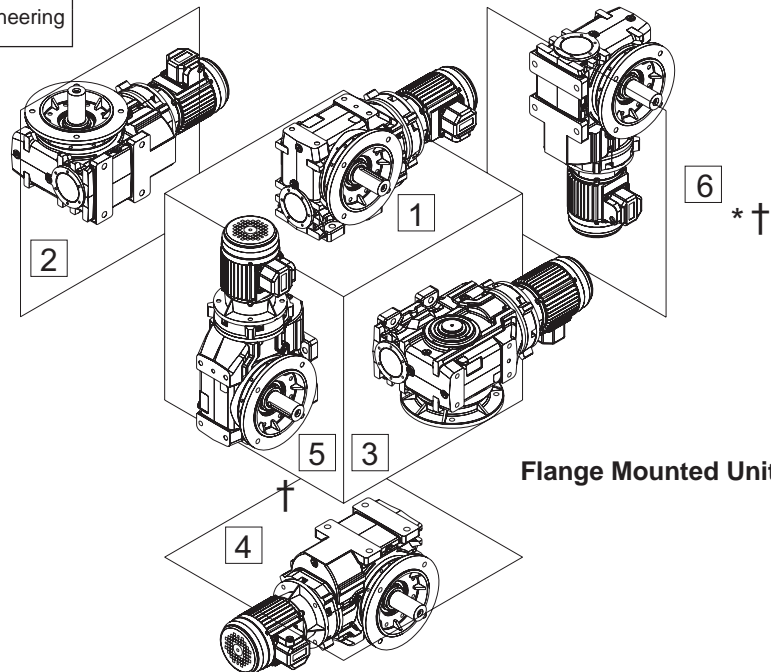


* Mounting Position 6 is not recommended for geared motors
- Consult Application Engineering

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

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

Base Mounted Units



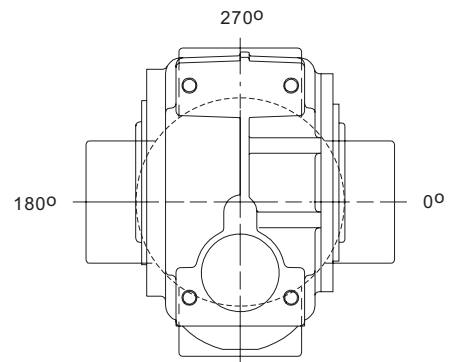
Flange Mounted Units

MOUNTING POSITIONS - SHOWN AS MOTORIZED - APPLIES ALSO FOR REDUCERS

COLUMN 14 ENTRY

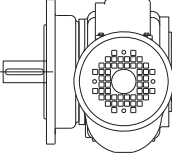
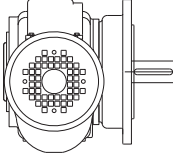
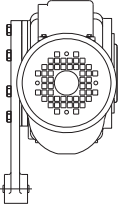
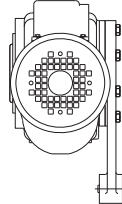
ALL MOTORS

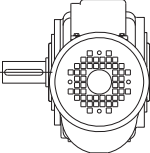
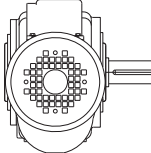
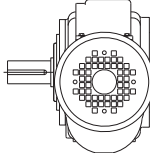
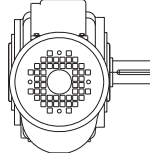
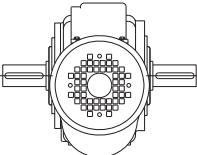
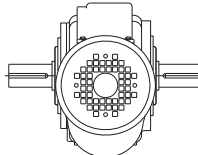
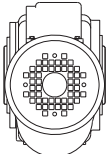
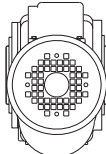
Column 14 Entry	Terminal Box Position
A	0°
B	90°
C	180°
D	270°
-	Reducer or no motor fitted



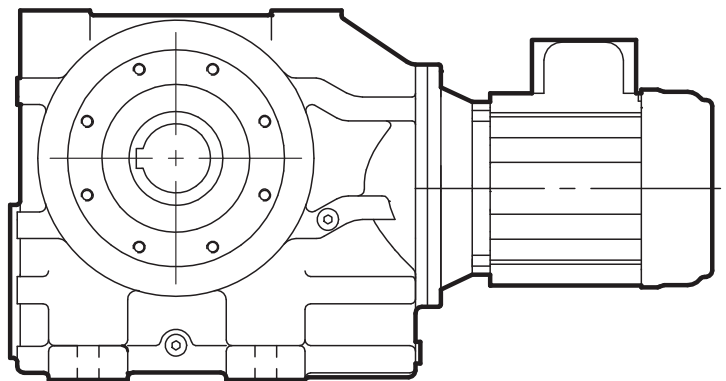
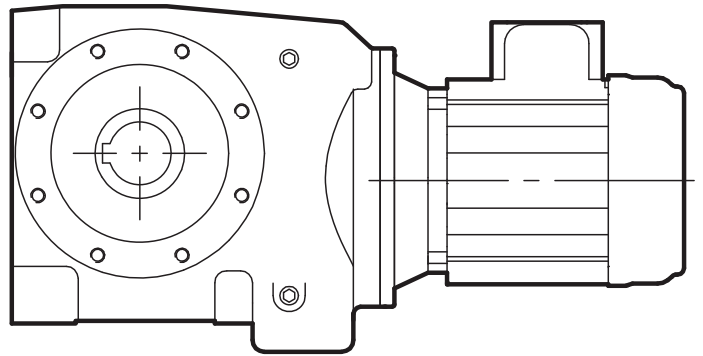
SERIES C

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 	

SERIES C
MOTORIZED



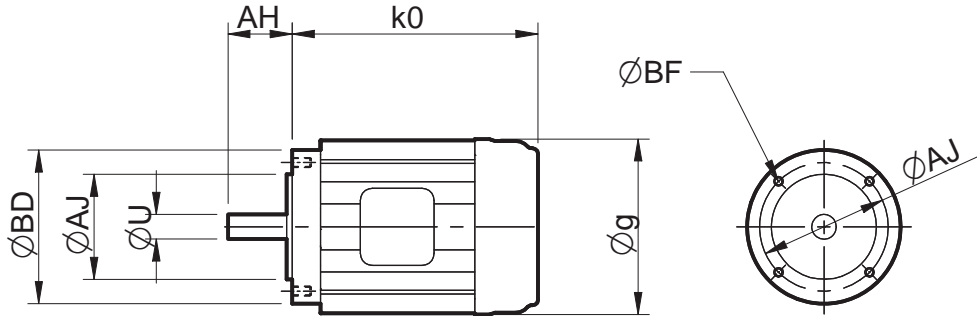
MOTORIZED

SERIES C

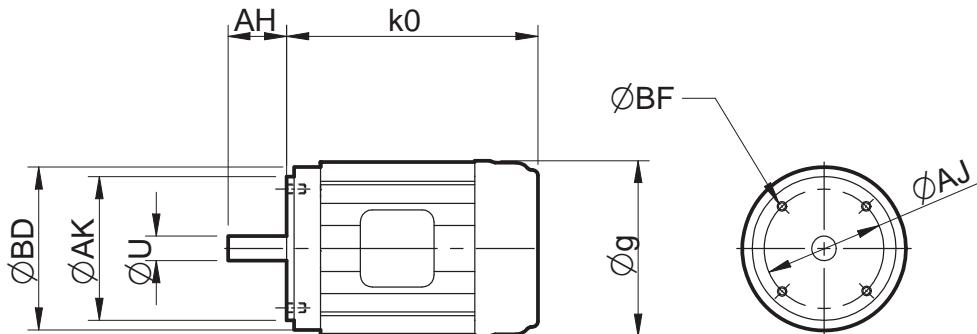
SERIES C

NEMA MOTOR DETAILS

NEMA Standard Motors



MOTOR FRAME SIZE	Ø BD	Ø AJ	Ø AK	Ø U	AH	ko max	Ø g	BF TAP UNC
56C	6.50	5.875	4.5	0.625	2.062	12.00	6.13	3/8 - 16
143TC/145TC	6.50	5.875	4.5	0.875	2.125	12.00	7.19	3/8 - 16



MOTOR FRAME SIZE	Ø BD	Ø AJ	Ø AK	Ø U	AH	ko max	Øg	BF TAP UNC
182TC/184TC	9.00	7.25	8.5	1.125	2.625	15.50	8.50	1/2 - 13
213TC/215TC	9.00	7.25	8.5	1.375	3.125	16.50	10.19	1/2 - 13
254TC/256TC	10.00	7.25	8.5	1.625	3.75	20.00	12.50	1/2 - 13
284TC/286TC	11.25	9.00	10.5	1.875	4.375	23.25	15.56	1/2 - 13
324TC/326TC	13.875	11.00	12.5	2.125	5.00	25.25	16.94	5/8 - 11
364TC/365TC	13.875	11.00	12.5	2.375	5.625	27.00	19.00	5/8 - 11
404TC/405TC	13.875	11.00	12.5	2.875	7.00	30.00	20.63	5/8 - 11

SERIES C

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

SERIES C

ADDITIONAL GEARBOX FEATURES

ADDITIONAL GEARBOX FEATURES - COLUMN 20 ENTRY

Column 20 Entry	Double Output Shaft Oil Seals	Oil Level Glass C07 - C10	* Motorized 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, biodegradable, different viscosities etc)

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.25 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
201	8.59	65	10.42	625	C 0 3 2 1 8 . 0	46.7	56C
149	11.61	87	8.46	625	1 1 .		
131	13.20	99	7.72	625	1 2 .		
115	14.95	112	7.09	625	1 4 .		
105	16.36	109	6.72	625	1 6 .		
90	19.13	142	5.92	625	1 8 .		
84	20.61	153	5.60	625	2 0 .		
78	22.11	145	5.50	625	2 2 .		
69	25.14	164	5.03	625	2 5 .		
61	28.48	185	4.63	625	2 8 .		
51	33.71	245	3.93	625	3 2 .		
47	36.43	233	3.91	625	3 6 .		
44	39.26	250	3.72	625	4 0 .		
38	45.50	327	3.16	625	4 5 .		
32	53.31	380	2.81	625	5 0 .		
31	56.19	350	2.90	625	5 6 .		
27	64.21	397	2.65	625	6 3 .		
23	74.55	526	2.32	625	7 1 .		
21	82.83	582	2.14	625	8 0 .		
20	86.67	525	2.24	625	9 0 .		
17	101.54	611	2.00	625	1 0 0		
15	114.33	793	1.72	625	1 1 2		
13	129.94	895	1.43	625	1 2 5		
12	142.00	834	1.57	625	1 4 0		
11	157.78	919	1.45	625	1 6 0		
7.9	217.78	1245	1.09	625	2 1 2		
7.0	247.50	1408	0.97	600	2 5 0		
16	105.36	718	1.83	625	C 0 3 3 1 1 0 0	55.5	56C
14	120.39	820	1.66	625	1 1 8		
13	130.10	745	1.65	625	1 3 2		
12	140.21	805	1.57	625	1 5 0		
11	162.50	1096	1.24	625	1 6 0		
9.1	190.38	1276	1.07	625	1 8 0		
8.6	200.68	1130	1.21	625	2 0 0		
7.5	229.32	1282	1.06	625	2 2 5		
23	74.55	532	3.46	1180	C 0 4 2 1 7 1 .	53.3	56C
21	82.83	587	2.91	1180	8 0 .		
20	86.67	537	3.59	1180	9 0 .		
17	101.54	622	3.20	1180	1 0 0		
15	114.33	799	1.87	1180	1 1 2		
13	129.94	901	1.43	1180	1 2 5		
12	142.00	849	2.52	1180	1 4 0		
11	157.78	935	2.34	1180	1 6 0		
7.9	217.78	1269	1.86	1180	2 1 2		
7.0	247.50	1426	1.43	1180	2 5 0		
16	105.36	730	2.49	1180	C 0 4 3 1 1 0 0	62.1	56C
14	120.39	830	2.17	1180	1 1 8		
13	130.10	765	2.59	1180	1 3 2		
12	140.21	822	2.47	1180	1 5 0		
11	162.50	1108	1.61	1180	1 6 0		
9.1	190.38	1294	1.37	1180	1 8 0		
8.6	200.68	1156	1.98	1180	2 0 0		
7.5	229.32	1314	1.82	1180	2 2 5		
6.5	266.25	1781	0.99	1180	2 6 5		
5.8	295.83	1972	0.89	1180	2 8 0		
5.6	309.52	1743	1.52	1180	3 1 5		
4.8	362.64	2028	1.37	1180	3 6 0		
3.4	507.14	2774	0.99	1180	5 0 0		
3.1	563.49	3068	0.89	1050	5 6 0		
16	109.07	785	3.89	1650	C 0 5 2 1 1 1 2	57.7	56C
14	124.00	886	2.97	1650	1 2 5		
8.2	211.11	1277	3.78	1650	2 1 2		
7.2	240.00	1438	2.97	1650	2 5 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.25 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
11	160.26	1127	3.12	1650	C 0 5 3 1 1 6 0 _ _ _ _ _ . 2 5 B _ _	64.3	56C
9.2	187.76	1312	2.67	1650	1 8 0		
8.6	201.10	1207	3.89	1650	2 0 0		
7.5	229.81	1369	3.57	1650	2 2 5		
6.6	262.58	1808	1.91	1650	2 6 5		
5.9	291.75	2002	1.72	1650	2 8 0		
5.6	310.18	1817	2.84	1650	3 1 5		
4.7	363.40	2110	2.50	1650	3 6 0		
4.3	402.70	2744	1.25	1650	4 0 0		
3.8	457.66	3098	1.10	1650	4 5 0		
3.4	508.21	2895	1.82	1650	5 0 0		
3.1	564.68	3202	1.64	1650	5 6 0		
2.2	779.42	4349	1.21	1650	8 0 0		
1.9	885.79	4906	1.07	1650	9 0 0		
6.5	265.95	1944	3.92	2580	C 0 6 3 1 2 6 5 _ _ _ _ _ . 2 5 B _ _	99.6	56C
5.8	299.67	2181	3.48	2580	2 8 0		
4.8	357.32	2195	3.90	2580	3 6 0		
4.4	395.39	2858	2.64	2580	4 0 0		
3.8	449.50	3229	2.33	2580	4 5 0		
3.4	514.75	3086	2.78	2580	5 0 0		
3.0	580.00	3454	2.48	2580	5 6 0		
2.3	765.28	4488	1.91	2580	8 0 0		
2.0	870.00	5063	1.69	2580	9 0 0		
1.71	1022	9202	1.0	2580	C 0 6 4 1 1 0 C _ _ _ _ _ . 2 5 B _ _	123.8	56C
1.58	1111	10003	0.9	2580	1 1 C		
4.1	419.25	3150	3.85	6050	C 0 7 3 1 4 5 0 _ _ _ _ _ . 2 5 B _ _	207.6	56C
3.5	499.88	3502	3.21	6050	5 0 0		
3.2	547.35	3823	2.94	6050	5 6 0		
2.3	747.66	5131	2.17	6050	8 0 0		
2.1	838.50	5731	1.95	6050	9 0 0		
1.73	1009	9086	1.6	6050	C 0 7 4 1 1 0 C _ _ _ _ _ . 2 5 B _ _	218.6	56C
1.59	1097	9879	1.5	6050	1 1 C		
1.44	1213	10924	1.4	6050	1 2 C		
1.25	1396	12565	1.2	6050	1 4 C		
1.15	1517	13661	1.1	6050	1 6 C		
1.05	1662	14960	1.0	6050	1 8 C		
0.88	1995	17962	0.8	6050	2 0 C		
1.95	899	8094	3.5	9380	C 0 8 4 1 9 0 0 _ _ _ _ _ . 2 5 B _ _	346.5	56C
1.82	960	8643	3.3	9380	1 0 C		
1.61	1084	9760	2.9	9380	1 1 C		
1.47	1191	10723	2.6	9380	1 2 C		
1.25	1405	12650	2.2	9380	1 4 C		
1.14	1532	13793	2.1	9380	1 6 C		
0.92	1901	17116	1.7	9380	1 8 C		
0.84	2088	18799	1.5	9380	2 0 C		
0.78	2242	20186	1.4	9380	2 2 C		
0.71	2463	22176	1.3	9380	2 5 C		
0.65	2697	24283	1.2	9380	2 8 C		
0.53	3305	29757	1.0	9380	3 2 C		
0.47	3761	33862	0.8	9380	3 6 C		
1.22	1434	12911	4.0	11900	C 0 9 4 1 1 4 C _ _ _ _ _ . 2 5 B _ _	507.4	56C
1.14	1538	13847	3.8	11900	1 6 C		
0.92	1908	17179	3.0	11900	1 8 C		
0.83	2107	18971	2.8	11900	2 0 C		
0.78	2250	20258	2.6	11900	2 2 C		
0.70	2484	22365	2.3	11900	2 5 C		
0.64	2720	24490	2.1	11900	2 8 C		
0.52	3334	30018	1.8	11900	3 2 C		
0.46	3775	33988	1.5	11900	3 6 C		
0.42	4167	37518	1.4	11900	4 0 C		
0.38	4586	41290	1.3	11900	4 5 C		
0.34	5112	46026	1.2	11900	5 0 C		
0.31	5733	51617	1.0	11900	5 6 C		
0.27	6447	58046	0.9	11900	6 3 C		
0.25	7041	63394	0.9	11900	7 1 C		
0.22	7897	71101	0.8	11900	8 0 C		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.33 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
201	8.59	86	7.89	625	C 0 3 2 1 8 . 0 _ _ _ _ _ . 3 3 B _ _	48.7	56C
149	11.61	116	6.41	625	1 1 .		
131	13.20	131	5.85	625	1 2 .		
115	14.95	147	5.37	625	1 4 .		
105	16.36	144	5.09	625	1 6 .		
90	19.13	188	4.49	625	1 8 .		
84	20.61	202	4.25	625	2 0 .		
78	22.11	192	4.17	625	2 2 .		
69	25.14	217	3.81	625	2 5 .		
61	28.48	244	3.50	625	2 8 .		
51	33.71	324	2.98	625	3 2 .		
47	36.43	307	2.96	625	3 6 .		
44	39.26	330	2.82	625	4 0 .		
38	45.50	432	2.40	625	4 5 .		
32	53.31	502	2.13	625	5 0 .		
31	56.19	462	2.20	625	5 6 .		
27	64.21	524	2.01	625	6 3 .		
23	74.55	694	1.76	625	7 1 .		
21	82.83	769	1.62	625	8 0 .		
20	86.67	693	1.70	625	9 0 .		
17	101.54	806	1.51	625	1 0 0		
15	114.33	1046	1.30	625	1 1 2		
13	129.94	1182	1.09	625	1 2 5		
12	142.00	1101	1.19	625	1 4 0		
11	157.78	1213	1.10	625	1 6 0		
7.9	217.78	1643	0.83	520	2 1 2		
16	105.36	948	1.39	625	C 0 3 3 1 1 0 0 _ _ _ _ _ . 3 3 B _ _	57.5	56C
14	120.39	1083	1.26	625	1 1 8		
13	130.10	984	1.25	625	1 3 2		
12	140.21	1063	1.19	625	1 5 0		
11	162.50	1447	0.94	590	1 6 0		
9.1	190.38	1684	0.81	520	1 8 0		
8.6	200.68	1492	0.91	560	2 0 0		
7.5	229.32	1692	0.81	510	2 2 5		
32	53.31	509	3.56	1180	C 0 4 2 1 5 0 . _ _ _ _ _ . 3 3 B _ _	55.3	56C
31	56.19	473	3.51	1180	5 6 .		
27	64.21	535	3.21	1180	6 3 .		
23	74.55	702	2.62	1180	7 1 .		
21	82.83	775	2.20	1180	8 0 .		
20	86.67	709	2.72	1180	9 0 .		
17	101.54	821	2.42	1180	1 0 0		
15	114.33	1054	1.42	1180	1 1 2		
13	129.94	1190	1.09	1180	1 2 5		
12	142.00	1120	1.91	1180	1 4 0		
11	157.78	1234	1.77	1180	1 6 0		
7.9	217.78	1676	1.41	1180	2 1 2		
7.0	247.50	1883	1.09	1180	2 5 0		
16	105.36	963	1.88	1180	C 0 4 3 1 1 0 0 _ _ _ _ _ . 3 3 B _ _	64.1	56C
14	120.39	1096	1.65	1180	1 1 8		
13	130.10	1010	1.96	1180	1 3 2		
12	140.21	1085	1.87	1180	1 5 0		
11	162.50	1463	1.22	1180	1 6 0		
9.1	190.38	1708	1.04	1180	1 8 0		
8.6	200.68	1526	1.50	1180	2 0 0		
7.5	229.32	1735	1.38	1180	2 2 5		
5.6	309.52	2301	1.15	1180	3 1 5		
4.8	362.64	2676	1.04	1180	3 6 0		
16	109.07	1037	2.94	1650	C 0 5 2 1 1 1 2 _ _ _ _ _ . 3 3 B _ _	59.7	56C
14	124.00	1169	2.25	1650	1 2 5		
12	142.00	1162	3.85	1650	1 4 0		
11	160.00	1299	3.52	1650	1 6 0		
8.2	211.11	1686	2.86	1650	2 1 2		
7.2	240.00	1898	2.25	1650	2 5 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.33 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
17	103.90	980	3.65	1650	C 0 5 3 1 1 0 0 - - - - - . 3 3 B - -	66.3	56C
15	118.73	1115	3.19	1650	1 1 8		
13	130.38	1061	3.89	1650	1 3 2		
12	140.51	1138	3.71	1650	1 5 0		
11	160.26	1487	2.37	1650	1 6 0		
9.2	187.76	1732	2.02	1650	1 8 0		
8.6	201.10	1594	2.95	1650	2 0 0		
7.5	229.81	1807	2.71	1650	2 2 5		
6.6	262.58	2386	1.45	1650	2 6 5		
5.9	291.75	2643	1.31	1650	2 8 0		
5.6	310.18	2398	2.16	1650	3 1 5		
4.7	363.40	2785	1.89	1650	3 6 0		
4.3	402.70	3623	0.95	1650	4 0 0		
3.8	457.66	4089	0.83	1650	4 5 0		
3.4	508.21	3821	1.38	1650	5 0 0		
3.1	564.68	4227	1.25	1650	5 6 0		
14	124.00	1235	3.82	2580	C 0 6 2 1 1 2 5 - - - - - . 3 3 B - -	90.5	56C
7.2	240.00	2010	3.74	2580	2 5 0		
6.5	265.95	2566	2.97	2580	C 0 6 3 1 2 6 5 - - - - - . 3 3 B - -	101.6	56C
5.8	299.67	2880	2.64	2580	2 8 0		
5.2	328.67	2680	3.20	2580	3 1 5		
4.8	357.32	2898	2.96	2580	3 6 0		
4.4	395.39	3772	2.00	2580	4 0 0		
3.8	449.50	4263	1.76	2580	4 5 0		
3.4	514.75	4074	2.10	2580	5 0 0		
3.0	580.00	4560	1.88	2580	5 6 0		
2.3	765.28	5924	1.45	2580	8 0 0		
2.0	870.00	6683	1.28	2580	9 0 0		
5.4	319.95	3018	3.67	6050	C 0 7 3 1 3 1 5 - - - - - . 3 3 B - -	209.6	56C
5.0	341.61	3211	3.47	6050	3 6 0		
4.6	373.83	3723	3.26	6050	4 0 0		
4.1	419.25	4158	2.92	6050	4 5 0		
3.5	499.88	4622	2.43	6050	5 0 0		
3.2	547.35	5047	2.23	6050	5 6 0		
2.3	747.66	6773	1.65	6050	8 0 0		
2.1	838.50	7565	1.47	6050	9 0 0		
1.73	1009	11994	1.2	6050	C 0 7 4 1 1 0 C - - - - - . 3 3 B - -	220.6	56C
1.59	1097	13040	1.1	6050	1 1 C		
1.44	1213	14419	1.0	6050	1 2 C		
1.25	1396	16586	0.9	6050	1 4 C		
1.15	1517	18032	0.8	6050	1 6 C		
1.05	1662	19747	0.8	6050	1 8 C		
2.75	636	7559	3.8	9380	C 0 8 4 1 6 3 0 - - - - - . 3 3 B - -	348.5	56C
2.46	712	8462	3.4	9380	7 1 0		
2.31	759	9020	3.1	9380	8 0 0		
1.95	899	10684	2.7	9380	9 0 0		
1.82	960	11409	2.5	9380	1 0 C		
1.61	1084	12883	2.2	9380	1 1 C		
1.47	1191	14155	2.0	9380	1 2 C		
1.25	1405	16698	1.7	9380	1 4 C		
1.14	1532	18207	1.6	9380	1 6 C		
0.92	1901	22593	1.3	9380	1 8 C		
0.84	2088	24815	1.2	9380	2 0 C		
0.78	2242	26646	1.1	9380	2 2 C		
0.71	2463	29272	1.0	9380	2 5 C		
0.65	2697	32053	0.9	9380	2 8 C		
1.44	1216	14452	3.6	11900	C 0 9 4 1 1 2 C - - - - - . 3 3 B - -	509.4	56C
1.22	1434	17043	3.0	11900	1 4 C		
1.14	1538	18279	2.9	11900	1 6 C		
0.92	1908	22676	2.3	11900	1 8 C		
0.83	2107	25041	2.1	11900	2 0 C		
0.78	2250	26741	2.0	11900	2 2 C		
0.70	2484	29522	1.8	11900	2 5 C		
0.64	2720	32326	1.6	11900	2 8 C		
0.52	3334	39624	1.3	11900	3 2 C		
0.46	3775	44865	1.2	11900	3 6 C		
0.42	4167	49524	1.1	11900	4 0 C		
0.38	4586	54503	1.0	11900	4 5 C		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.33 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
0.34	5112	60755	0.9	11900	C 0 9 4 1 5 0 C _ _ _ _ _ . 3 3 B _ _	509.4	56C
0.31	5733	68135	0.8	11900	5 6 C		
0.82	2146	25505	3.6	19600	C 1 0 4 1 2 0 C _ _ _ _ _ . 3 3 B _ _	793.6	56C
0.79	2222	26408	3.4	19600	2 2 C		
0.68	2560	30425	3.0	19600	2 5 C		
0.62	2804	33325	2.7	19600	2 8 C		
0.52	3364	39980	2.3	19600	3 2 C		
0.47	3733	44366	2.1	19600	3 6 C		
0.41	4301	51116	1.8	19600	4 0 C		
0.38	4550	54075	1.7	19600	4 5 C		
0.33	5235	62216	1.5	19600	5 0 C		
0.30	5817	69133	1.4	19600	5 6 C		
0.28	6249	74268	1.2	19600	6 3 C		
0.25	7027	83514	1.2	19600	7 1 C		
0.22	7808	92796	1.1	19600	8 0 C		
0.19	8996	106915	0.9	19600	9 0 C		
0.18	9518	113119	0.9	19600	1 0 K		
0.16	10951	130150	0.8	19600	1 1 K		

0.50 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	131	5.21	625	C 0 3 2 1 8 . 0 _ _ _ _ _ . 5 0 B _ _	50.7	56C
149	11.61	175	4.23	625	1 1 .		
131	13.20	198	3.86	625	1 2 .		
115	14.95	224	3.54	625	1 4 .		
105	16.36	219	3.36	625	1 6 .		
90	19.13	285	2.96	625	1 8 .		
84	20.61	307	2.80	625	2 0 .		
78	22.11	291	2.75	625	2 2 .		
69	25.14	329	2.51	625	2 5 .		
61	28.48	370	2.31	625	2 8 .		
51	33.71	491	1.96	625	3 2 .		
47	36.43	466	1.95	625	3 6 .		
44	39.26	500	1.86	625	4 0 .		
38	45.50	655	1.58	625	4 5 .		
32	53.31	761	1.41	625	5 0 .		
31	56.19	701	1.45	625	5 6 .		
27	64.21	795	1.32	625	6 3 .		
23	74.55	1052	1.16	625	7 1 .		
21	82.83	1165	1.07	625	8 0 .		
20	86.67	1050	1.12	625	9 0 .		
17	101.54	1222	1.00	625	1 0 0		
15	114.33	1586	0.86	540	1 1 2		
16	105.36	1437	0.92	575	C 0 3 3 1 1 0 0 _ _ _ _ _ . 5 0 B _ _	59.5	56C
14	120.39	1641	0.83	540	1 1 8		
13	130.10	1491	0.82	520	1 3 2		
61	28.48	382	3.70	1180	C 0 4 2 1 2 8 . _ _ _ _ _ . 5 0 B _ _	57.3	56C
51	33.71	499	3.28	1180	3 2 .		
47	36.43	478	3.15	1180	3 6 .		
44	39.26	517	2.96	1180	4 0 .		
38	45.50	663	2.64	1180	4 5 .		
32	53.31	771	2.35	1180	5 0 .		
31	56.19	717	2.32	1180	5 6 .		
27	64.21	810	2.12	1180	6 3 .		
23	74.55	1064	1.73	1180	7 1 .		
21	82.83	1174	1.45	1180	8 0 .		
20	86.67	1074	1.80	1180	9 0 .		
17	101.54	1245	1.60	1180	1 0 0		
15	114.33	1598	0.94	1180	1 1 2		
12	142.00	1698	1.26	1180	1 4 0		
11	157.78	1870	1.17	1180	1 6 0		
7.9	217.78	2539	0.93	1120	2 1 2		
16	105.36	1460	1.24	1180	C 0 4 3 1 1 0 0 _ _ _ _ _ . 5 0 B _ _	66.1	56C
14	120.39	1661	1.09	1180	1 1 8		
13	130.10	1530	1.30	1180	1 3 2		
12	140.21	1645	1.24	1180	1 5 0		
11	162.50	2217	0.81	1180	1 6 0		
8.6	200.68	2312	0.99	1180	2 0 0		
7.5	229.32	2629	0.91	1180	2 2 5		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.50 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
24	73.37	1076	2.96	1650	C 0 5 2 1 7 1 5 0 B _ _	61.7	56C
21	82.67	1206	2.67	1650	8 0 .		
19	90.67	1161	3.54	1650	9 0 .		
18	98.57	1254	3.33	1650	1 0 0		
16	109.07	1571	1.94	1650	1 1 2		
14	124.00	1772	1.48	1650	1 2 5		
12	142.00	1761	2.54	1650	1 4 0		
11	160.00	1969	2.32	1650	1 6 0		
8.2	211.11	2555	1.89	1650	2 1 2		
7.2	240.00	2876	1.48	1650	2 5 0		
17	103.90	1486	2.41	1650	C 0 5 3 1 1 0 0 _ _ _ _ _ . 5 0 B _ _	68.3	56C
15	118.73	1690	2.10	1650	1 1 8		
13	130.38	1608	2.57	1650	1 3 2		
12	140.51	1724	2.45	1650	1 5 0		
11	160.26	2254	1.56	1650	1 6 0		
9.2	187.76	2625	1.34	1650	1 8 0		
8.6	201.10	2415	1.95	1650	2 0 0		
7.5	229.81	2738	1.79	1650	2 2 5		
6.6	262.58	3616	0.96	1650	2 6 5		
5.9	291.75	4005	0.86	1650	2 8 0		
5.6	310.18	3634	1.42	1650	3 1 5		
4.7	363.40	4220	1.25	1650	3 6 0		
16	110.57	1680	3.97	2580	C 0 6 2 1 1 1 2 _ _ _ _ _ . 5 0 B _ _	92.5	56C
14	124.00	1872	2.52	2580	1 2 5		
12	143.08	1888	3.97	2580	1 4 0		
11	156.67	2062	3.65	2580	1 6 0		
8.1	214.00	2736	2.75	2580	2 1 2		
7.2	240.00	3046	2.47	2580	2 5 0		
13	130.00	1702	3.99	2580	C 0 6 3 1 1 3 2 _ _ _ _ _ . 5 0 B _ _	103.6	56C
12	147.69	1921	3.67	2580	1 5 0		
10	169.81	2522	3.07	2580	1 6 0		
9.3	184.62	2725	2.83	2580	1 8 0		
8.6	201.02	2569	3.01	2580	2 0 0		
7.6	228.38	2898	2.78	2580	2 2 5		
6.5	265.95	3889	1.96	2580	2 6 5		
5.8	299.67	4363	1.74	2580	2 8 0		
5.2	328.67	4061	2.11	2580	3 1 5		
4.8	357.32	4391	1.95	2580	3 6 0		
4.4	395.39	5716	1.32	2580	4 0 0		
3.8	449.50	6459	1.16	2580	4 5 0		
3.4	514.75	6172	1.39	2580	5 0 0		
3.0	580.00	6909	1.24	2580	5 6 0		
2.3	765.28	8977	0.95	2580	8 0 0		
2.0	870.00	10127	0.85	2200	9 0 0		
8.3	208.65	3033	3.38	6050	C 0 7 2 1 2 1 2 _ _ _ _ _ . 5 0 B _ _	189.5	56C
7.4	231.83	3376	3.09	6050	2 5 0		
8.9	194.65	2830	3.60	6050	C 0 7 3 1 2 0 0 _ _ _ _ _ . 5 0 B _ _	211.6	56C
7.6	226.39	3264	3.20	6050	2 2 5		
6.9	249.94	3822	3.17	6050	2 6 5		
6.3	273.68	4169	2.91	6050	2 8 0		
5.4	319.95	4573	2.42	6050	3 1 5		
5.0	341.61	4865	2.29	6050	3 6 0		
4.6	373.83	5641	2.15	6050	4 0 0		
4.1	419.25	6300	1.92	6050	4 5 0		
3.5	499.88	7004	1.60	6050	5 0 0		
3.2	547.35	7647	1.47	6050	5 6 0		
2.3	747.66	10263	1.09	6050	8 0 0		
2.1	838.50	11462	0.97	6050	9 0 0		
1.73	1009	18173	0.8	6050	C 0 7 4 1 1 0 C _ _ _ _ _ . 5 0 B _ _	222.6	56C

NOTE
Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.50 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
3.20	547	9850	2.9	9380	C 0 8 4 1 5 6 0 _ _ _ _ _ . 5 0 B _ _	350.5	56C
2.75	636	11453	2.5	9380	6 3 0		
2.46	712	12821	2.2	9380	7 1 0		
2.31	759	13667	2.1	9380	8 0 0		
1.95	899	16188	1.8	9380	9 0 0		
1.82	960	17287	1.6	9380	1 0 C		
1.61	1084	19520	1.5	9380	1 1 C		
1.47	1191	21447	1.3	9380	1 2 C		
1.25	1405	25300	1.1	9380	1 4 C		
1.14	1532	27587	1.0	9380	1 6 C		
0.92	1901	34232	0.8	9380	1 8 C		
0.84	2088	37599	0.8	9380	2 0 C		
2.26	774	13938	3.7	11900	C 0 9 4 1 8 0 0 _ _ _ _ _ . 5 0 B _ _	511.4	56C
1.91	918	16531	3.1	11900	9 0 0		
1.79	980	17647	2.9	11900	1 0 C		
1.61	1089	19610	2.7	11900	1 1 C		
1.44	1216	21897	2.4	11900	1 2 C		
1.22	1434	25822	2.0	11900	1 4 C		
1.14	1538	27695	1.9	11900	1 6 C		
0.92	1908	34358	1.5	11900	1 8 C		
0.83	2107	37941	1.4	11900	2 0 C		
0.78	2250	40516	1.3	11900	2 2 C		
0.70	2484	44730	1.2	11900	2 5 C		
0.64	2720	48979	1.1	11900	2 8 C		
0.52	3334	60036	0.9	11900	3 2 C		
0.46	3775	67977	0.8	11900	3 6 C		
1.25	1402	25246	3.5	19600	C 1 0 4 1 1 4 C _ _ _ _ _ . 5 0 B _ _	793.6	56C
1.09	1607	28937	3.1	19600	1 6 C		
0.94	1863	33547	2.7	19600	1 8 C		
0.82	2146	38643	2.4	19600	2 0 C		
0.79	2222	40012	2.3	19600	2 2 C		
0.68	2560	46098	2.0	19600	2 5 C		
0.62	2804	50492	1.8	19600	2 8 C		
0.52	3364	60576	1.5	19600	3 2 C		
0.47	3733	67221	1.4	19600	3 6 C		
0.41	4301	77449	1.2	19600	4 0 C		
0.38	4550	81933	1.2	19600	4 5 C		
0.33	5235	94267	1.0	19600	5 0 C		
0.30	5817	104748	0.9	19600	5 6 C		
0.28	6249	112527	0.8	19600	6 3 C		
0.25	7027	126536	0.8	19600	7 1 C		

0.75 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	197	3.47	625	C 0 3 2 1 8 . 0 _ _ _ _ _ . 7 5 B _ _	53.7	56C
149	11.61	263	2.82	625	1 1 .		
131	13.20	297	2.57	625	1 2 .		
115	14.95	336	2.36	625	1 4 .		
105	16.36	328	2.24	625	1 6 .		
90	19.13	427	1.97	625	1 8 .		
84	20.61	460	1.87	625	2 0 .		
78	22.11	436	1.83	625	2 2 .		
69	25.14	493	1.68	625	2 5 .		
61	28.48	556	1.54	625	2 8 .		
51	33.71	736	1.31	625	3 2 .		
47	36.43	699	1.30	625	3 6 .		
44	39.26	750	1.24	625	4 0 .		
38	45.50	982	1.05	625	4 5 .		
32	53.31	1142	0.94	625	5 0 .		
31	56.19	1051	0.97	625	5 6 .		
27	64.21	1192	0.88	550	6 3 .		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
115	14.95	344	3.93	1180	C 0 4 2 1 1 4 7 5 B _ _	60.3	56C
105	16.36	338	3.58	1180	1 6		
90	19.13	437	3.28	1180	1 8		
84	20.61	468	3.12	1180	2 0		
78	22.11	450	2.93	1180	2 2		
69	25.14	508	2.68	1180	2 5		
61	28.48	573	2.47	1180	2 8		
51	33.71	749	2.19	1180	3 2		
47	36.43	717	2.10	1180	3 6		
44	39.26	775	1.97	1180	4 0		
38	45.50	995	1.76	1180	4 5		
32	53.31	1157	1.57	1180	5 0		
31	56.19	1076	1.55	1180	5 6		
27	64.21	1216	1.41	1180	6 3		
23	74.55	1597	1.15	1180	7 1		
21	82.83	1762	0.97	1180	8 0		
20	86.67	1612	1.20	1180	9 0		
17	101.54	1867	1.07	1180	1 0 0		
12	142.00	2547	0.84	990	1 4 0		
16	105.36	2190	0.83	990	C 0 4 3 1 1 0 0 _ _ _ _ _ . 7 5 B _ _	69.1	56C
13	130.10	2295	0.86	990	1 3 2		
12	140.21	2467	0.82	990	1 5 0		
53	32.55	740	3.79	1650	C 0 5 2 1 3 2 7 5 B _ _	64.7	56C
37	46.84	1050	2.91	1650	4 5		
34	50.93	1137	2.73	1650	5 0		
31	55.45	1102	3.24	1650	5 6		
27	63.00	1240	2.93	1650	6 3		
24	73.37	1614	1.97	1650	7 1		
21	82.67	1809	1.78	1650	8 0		
19	90.67	1742	2.36	1650	9 0		
18	98.57	1881	2.22	1650	1 0 0		
16	109.07	2357	1.30	1650	1 1 2		
14	124.00	2658	0.99	1650	1 2 5		
12	142.00	2641	1.69	1650	1 4 0		
11	160.00	2953	1.55	1650	1 6 0		
8.2	211.11	3833	1.26	1650	2 1 2		
7.2	240.00	4314	0.99	1650	2 5 0		
17	103.90	2229	1.60	1650	C 0 5 3 1 1 0 0 _ _ _ _ _ . 7 5 B _ _	71.3	56C
15	118.73	2536	1.40	1650	1 1 8		
13	130.38	2412	1.71	1650	1 3 2		
12	140.51	2586	1.63	1650	1 5 0		
11	160.26	3381	1.04	1650	1 6 0		
9.2	187.76	3937	0.89	1650	1 8 0		
8.6	201.10	3623	1.30	1650	2 0 0		
7.5	229.81	4108	1.19	1650	2 2 5		
5.6	310.18	5451	0.95	1600	3 1 5		
23	73.92	1713	3.72	2580	C 0 6 2 1 7 1 7 5 B _ _	94.5	56C
21	80.94	1869	3.44	2580	8 0		
19	91.58	1875	3.67	2580	9 0		
18	97.78	1985	3.51	2580	1 0 0		
16	110.57	2520	2.64	2580	1 1 2		
14	124.00	2808	1.68	2580	1 2 5		
12	143.08	2832	2.64	2580	1 4 0		
11	156.67	3093	2.43	2580	1 6 0		
8.1	214.00	4104	1.83	2580	2 1 2		
7.2	240.00	4570	1.65	2580	2 5 0		

NOTE
Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
17	103.86	2355	3.08	2580	C 0 6 3 1 1 0 0 _ _ _ _ . 7 5 B _ _	106.6	56C
15	117.99	2675	2.80	2580	1 1 8		
13	130.00	2554	2.66	2580	1 3 2		
12	147.69	2882	2.45	2580	1 5 0		
10	169.81	3783	2.04	2580	1 6 0		
9.3	184.62	4087	1.89	2580	1 8 0		
8.6	201.02	3854	2.01	2580	2 0 0		
7.6	228.38	4347	1.85	2580	2 2 5		
5.8	299.67	6545	1.16	2580	2 8 0		
5.2	328.67	6091	1.41	2580	3 1 5		
4.8	357.32	6586	1.30	2580	3 6 0		
4.4	395.39	8574	0.88	2270	4 0 0		
3.4	514.75	9259	0.93	2400	5 0 0		
3.0	580.00	10364	0.83	2100	5 6 0		
17	99.79	2276	3.97	6050	C 0 7 2 1 1 0 0 _ _ _ _ . 7 5 B _ _	192.5	56C
17	104.32	2459	3.30	6050	1 1 2		
15	115.92	2726	2.96	6050	1 2 5		
13	138.00	3099	3.08	6050	1 4 0		
11	151.13	3368	2.89	6050	1 6 0		
8.3	208.65	4550	2.26	6050	2 1 2		
7.4	231.83	5064	2.06	6050	2 5 0		
11	159.98	3718	3.26	6050	C 0 7 3 1 1 6 0 _ _ _ _ . 7 5 B _ _	214.6	56C
10	170.81	3976	3.05	6050	1 8 0		
8.9	194.65	4246	2.40	6050	2 0 0		
7.6	226.39	4897	2.13	6050	2 2 5		
6.9	249.94	5733	2.11	6050	2 6 5		
6.3	273.68	6254	1.94	6050	2 8 0		
5.4	319.95	6860	1.61	6050	3 1 5		
5.0	341.61	7298	1.53	6050	3 6 0		
4.6	373.83	8462	1.43	6050	4 0 0		
4.1	419.25	9450	1.28	6050	4 5 0		
3.5	499.88	10506	1.07	6050	5 0 0		
3.2	547.35	11470	0.98	6050	5 6 0		
3.20	547	14775	1.9	9380	C 0 8 4 1 5 6 0 _ _ _ _ . 7 5 B _ _	353.5	56C
2.75	636	17179	1.7	9380	6 3 0		
2.46	712	19232	1.5	9380	7 1 0		
2.31	759	20501	1.4	9380	8 0 0		
1.95	899	24283	1.2	9380	9 0 0		
1.82	960	25930	1.1	9380	1 0 C		
1.61	1084	29280	1.0	9380	1 1 C		
1.47	1191	32170	0.9	9380	1 2 C		
3.14	558	15072	3.4	11900	C 0 9 4 1 5 6 0 _ _ _ _ . 7 5 B _ _	514.4	56C
2.70	649	17530	2.9	11900	6 3 0		
2.41	727	19637	2.6	11900	7 1 0		
2.26	774	20906	2.5	11900	8 0 0		
1.91	918	24796	2.1	11900	9 0 0		
1.79	980	26471	1.9	11900	1 0 C		
1.61	1089	29415	1.8	11900	1 1 C		
1.44	1216	32845	1.6	11900	1 2 C		
1.22	1434	38733	1.3	11900	1 4 C		
1.14	1538	41542	1.3	11900	1 6 C		
0.92	1908	51536	1.0	11900	1 8 C		
0.83	2107	56912	0.9	11900	2 0 C		
0.78	2250	60774	0.9	11900	2 2 C		
0.70	2484	67095	0.8	11900	2 5 C		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
1.95	897	24229	3.7	19600	C 1 0 4 1 9 0 0 - - - - - . 7 5 B - -	796.6	56C
1.73	1014	27389	3.2	19600	1 0 C		
1.55	1127	30441	2.9	19600	1 1 C		
1.49	1176	31765	2.8	19600	1 2 C		
1.25	1402	37869	2.3	19600	1 4 C		
1.09	1607	43406	2.1	19600	1 6 C		
0.94	1863	50321	1.8	19600	1 8 C		
0.82	2146	57965	1.6	19600	2 0 C		
0.79	2222	60018	1.5	19600	2 2 C		
0.68	2560	69147	1.3	19600	2 5 C		
0.62	2804	75738	1.2	19600	2 8 C		
0.52	3364	90864	1.0	19600	3 2 C		
0.47	3733	100831	0.9	19600	3 6 C		
0.41	4301	116173	0.8	19600	4 0 C		
0.38	4550	122899	0.8	19600	4 5 C		

1 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	263	2.60	625	C 0 3 2 1 8 . 0 - - - - - 1 . 0 B - -	58.7	143TC
149	11.61	351	2.11	625	1 1 .		
131	13.20	397	1.93	625	1 2 .		
115	14.95	448	1.77	625	1 4 .		
105	16.36	438	1.68	625	1 6 .		
90	19.13	570	1.48	625	1 8 .		
84	20.61	614	1.40	625	2 0 .		
78	22.11	582	1.37	625	2 2 .		
69	25.14	658	1.26	625	2 5 .		
61	28.48	741	1.16	625	2 8 .		
51	33.71	982	0.98	625	3 2 .		
47	36.43	933	0.98	625	3 6 .		
44	39.26	1000	0.93	581	4 0 .		
149	11.61	359	3.52	1180	C 0 4 2 1 1 1 . - - - - - 1 . 0 B - -	65.3	143TC
131	13.20	406	3.20	1180	1 2 .		
115	14.95	459	2.95	1180	1 4 .		
105	16.36	451	2.68	1180	1 6 .		
90	19.13	583	2.46	1180	1 8 .		
84	20.61	624	2.34	1180	2 0 .		
78	22.11	600	2.19	1180	2 2 .		
69	25.14	678	2.01	1180	2 5 .		
61	28.48	765	1.85	1180	2 8 .		
51	33.71	998	1.64	1180	3 2 .		
47	36.43	956	1.57	1180	3 6 .		
44	39.26	1034	1.48	1180	4 0 .		
38	45.50	1327	1.32	1180	4 5 .		
32	53.31	1543	1.18	1180	5 0 .		
31	56.19	1435	1.16	1180	5 6 .		
27	64.21	1621	1.06	1180	6 3 .		
23	74.55	2129	0.86	1050	7 1 .		
20	86.67	2149	0.90	1060	9 0 .		
82	21.05	648	3.77	1650	C 0 5 2 1 2 0 . - - - - - 1 . 0 B - -	69.7	143TC
61	28.24	785	3.97	1650	2 8 .		
53	32.55	987	2.84	1650	3 2 .		
48	35.86	981	3.34	1650	3 6 .		
42	40.74	1105	3.03	1650	4 0 .		
37	46.84	1400	2.18	1650	4 5 .		
34	50.93	1516	2.05	1650	5 0 .		
31	55.45	1470	2.43	1650	5 6 .		
27	63.00	1653	2.22	1650	6 3 .		
24	73.37	2152	1.48	1650	7 1 .		
21	82.67	2413	1.34	1650	8 0 .		
19	90.67	2323	1.77	1650	9 0 .		
18	98.57	2508	1.67	1650	1 0 0		
16	109.07	3142	0.97	1650	1 1 2		
12	142.00	3522	1.27	1650	1 4 0		
11	160.00	3938	1.16	1650	1 6 0		
8.2	211.11	5110	0.94	1550	2 1 2		
17	103.90	2972	1.20	1650	C 0 5 3 1 1 0 0 - - - - - 1 . 0 B - -	76.3	143TC
15	118.73	3381	1.05	1650	1 1 8		
13	130.38	3216	1.28	1650	1 3 2		
12	140.51	3449	1.22	1650	1 5 0		
8.6	201.10	4830	0.97	1650	2 0 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

1 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
36	47.32	1488	3.90	2580	C 0 6 2 1 4 5 . _ _ _ _ _ 1 . 0 B _ _	100.5	143TC
34	50.52	1585	3.74	2580	5 0 .		
31	55.71	1570	3.79	2580	5 6 .		
27	64.80	1806	3.41	2580	6 3 .		
23	73.92	2284	2.79	2580	7 1 .		
21	80.94	2492	2.58	2580	8 0 .		
19	91.58	2501	2.75	2580	9 0 .		
18	97.78	2647	2.63	2580	1 0 0		
16	110.57	3361	1.98	2580	1 1 2		
14	124.00	3744	1.26	2580	1 2 5		
12	143.08	3776	1.98	2580	1 4 0		
11	156.67	4124	1.82	2580	1 6 0		
8.1	214.00	5472	1.37	2580	2 1 2		
7.2	240.00	6093	1.23	2580	2 5 0		
17	103.86	3141	2.31	2580	C 0 6 3 1 1 0 0 _ _ _ _ _ 1 . 0 B _ _	111.6	143TC
15	117.99	3566	2.10	2580	1 1 8		
13	130.00	3405	2.00	2580	1 3 2		
12	147.69	3843	1.84	2580	1 5 0		
10	169.81	5044	1.53	2580	1 6 0		
9.3	184.62	5450	1.41	2580	1 8 0		
8.6	201.02	5139	1.51	2580	2 0 0		
7.6	228.38	5796	1.39	2580	2 2 5		
6.5	265.95	7778	0.98	2580	2 6 5		
5.8	299.67	8727	0.87	2580	2 8 0		
5.2	328.67	8122	1.05	2580	3 1 5		
4.8	357.32	8782	0.98	2580	3 6 0		
25	69.00	2210	3.50	6050	C 0 7 2 1 7 1 . _ _ _ _ _ 1 . 0 B _ _	197.5	143TC
23	75.56	2413	3.24	6050	8 0 .		
20	88.26	2694	3.28	6050	9 0 .		
17	99.79	3035	2.97	6050	1 0 0		
17	104.32	3279	2.47	6050	1 1 2		
15	115.92	3634	2.22	6050	1 2 5		
13	138.00	4132	2.31	6050	1 4 0		
11	151.13	4490	2.17	6050	1 6 0		
8.3	208.65	6067	1.69	6050	2 1 2		
7.4	231.83	6752	1.55	6050	2 5 0		
18	97.33	3067	3.95	6050	C 0 7 3 1 1 0 0 _ _ _ _ _ 1 . 0 B _ _	219.6	143TC
15	113.20	3555	3.41	6050	1 1 8		
11	159.98	4958	2.45	6050	1 6 0		
10	170.81	5302	2.29	6050	1 8 0		
8.9	194.65	5661	1.80	6050	2 0 0		
7.6	226.39	6529	1.60	6050	2 2 5		
6.9	249.94	7644	1.59	6050	2 6 5		
6.3	273.68	8339	1.45	6050	2 8 0		
5.4	319.95	9147	1.21	6050	3 1 5		
5.0	341.61	9730	1.15	6050	3 6 0		
4.6	373.83	11282	1.07	6050	4 0 0		
4.1	419.25	12600	0.96	5900	4 5 0		
3.5	499.88	14009	0.80	4840	5 0 0		
8.4	204.75	6084	3.48	9380	C 0 8 2 1 2 1 2 _ _ _ _ _ 1 . 0 B _ _	316.6	143TC
7.3	235.77	6951	3.12	9380	2 5 0		
3.20	547	19700	1.4	9380	C 0 8 4 1 5 6 0 _ _ _ _ _ 1 . 0 B _ _	358.6	143TC
2.75	636	22905	1.2	9380	6 3 0		
2.46	712	25642	1.1	9380	7 1 0		
2.31	759	27335	1.0	9380	8 0 0		
1.95	899	32377	0.9	8450	9 0 0		
1.82	960	34574	0.8	7504	1 0 C		

NOTE
 Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

1 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
3.14	558	20096	2.6	11900	C 0 9 4 1 5 6 0 _ _ _ _ _ 1 . 0 B _ _	519.4	143TC
2.70	649	23373	2.2	11900	6 3 0		
2.41	727	26182	2.0	11900	7 1 0		
2.26	774	27875	1.9	11900	8 0 0		
1.91	918	33061	1.6	11900	9 0 0		
1.79	980	35294	1.5	11900	1 0 C		
1.61	1089	39220	1.3	11900	1 1 C		
1.44	1216	43793	1.2	11900	1 2 C		
1.22	1434	51644	1.0	11900	1 4 C		
1.14	1538	55390	0.9	11900	1 6 C		
0.92	1908	68715	0.8	11900	1 8 C		
2.80	626	22545	3.9	19600	C 1 0 4 1 6 3 0 _ _ _ _ _ 1 . 0 B _ _	801.6	143TC
2.46	710	25570	3.5	19600	7 1 0		
2.23	783	28199	3.2	19600	8 0 0		
1.95	897	32305	2.8	19600	9 0 0		
1.73	1014	36518	2.4	19600	1 0 C		
1.55	1127	40588	2.1	19600	1 1 C		
1.49	1176	42353	2.1	19600	1 2 C		
1.25	1402	50492	1.8	19600	1 4 C		
1.09	1607	57875	1.6	19600	1 6 C		
0.94	1863	67095	1.4	19600	1 8 C		
0.82	2146	77287	1.2	19600	2 0 C		
0.79	2222	80024	1.1	19600	2 2 C		
0.68	2560	92197	1.0	19600	2 5 C		
0.62	2804	100984	0.9	19600	2 8 C		
0.52	3364	121152	0.8	19600	3 2 C		

1.5 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	394	1.74	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 1 . 5 B _ _	62.7	145TC
149	11.61	527	1.41	625	1 1 .		
131	13.20	595	1.29	625	1 2 .		
115	14.95	672	1.18	625	1 4 .		
105	16.36	657	1.12	625	1 6 .		
90	19.13	855	0.99	625	1 8 .		
84	20.61	921	0.93	575	2 0 .		
78	22.11	873	0.92	575	2 2 .		
69	25.14	987	0.84	525	2 5 .		
201	8.59	402	2.88	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 1 . 5 B _ _	69.3	145TC
149	11.61	539	2.34	1180	1 1 .		
131	13.20	610	2.13	1180	1 2 .		
115	14.95	689	1.97	1180	1 4 .		
105	16.36	677	1.79	1180	1 6 .		
90	19.13	874	1.64	1180	1 8 .		
84	20.61	936	1.56	1180	2 0 .		
78	22.11	901	1.46	1180	2 2 .		
69	25.14	1017	1.34	1180	2 5 .		
61	28.48	1147	1.23	1180	2 8 .		
51	33.71	1498	1.09	1180	3 2 .		
47	36.43	1434	1.05	1180	3 6 .		
44	39.26	1551	0.99	1180	4 0 .		
38	45.50	1990	0.88	1040	4 5 .		
148	11.66	553	3.55	1650	C 0 5 2 1 1 1 . _ _ _ _ _ 1 . 5 B _ _	73.7	145TC
134	12.85	604	3.37	1650	1 2 .		
118	14.59	684	3.13	1650	1 4 .		
107	16.09	697	3.90	1650	1 6 .		
93	18.53	860	2.71	1650	1 8 .		
82	21.05	972	2.51	1650	2 0 .		
76	22.56	958	3.09	1650	2 2 .		
69	24.86	1047	2.89	1650	2 5 .		
61	28.24	1178	2.64	1650	2 8 .		
53	32.55	1480	1.89	1650	3 2 .		
48	35.86	1472	2.23	1650	3 6 .		
42	40.74	1657	2.02	1650	4 0 .		
37	46.84	2100	1.45	1650	4 5 .		
34	50.93	2274	1.37	1650	5 0 .		
31	55.45	2205	1.62	1650	5 6 .		
27	63.00	2480	1.48	1650	6 3 .		
24	73.37	3228	0.99	1650	7 1 .		
21	82.67	3619	0.89	1650	8 0 .		
19	90.67	3485	1.18	1650	9 0 .		
18	98.57	3762	1.11	1650	1 0 0		
12	142.00	5283	0.85	1402	1 4 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

1.5 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
17	103.90	4458	0.80	1650	C 0 5 3 1 1 0 0 - - - - - 1 . 5 B - -	80.3	145TC
13	130.38	4825	0.86	1650	1 3 2		
12	140.51	5173	0.82	1350	1 5 0		
52	33.48	1600	3.23	2580	C 0 6 2 1 3 2 . - - - - - 1 . 5 B - -	104.5	145TC
36	47.32	2233	2.60	2580	4 5 .		
34	50.52	2377	2.49	2580	5 0 .		
31	55.71	2355	2.53	2580	5 6 .		
27	64.80	2709	2.27	2580	6 3 .		
23	73.92	3427	1.86	2580	7 1 .		
21	80.94	3739	1.72	2580	8 0 .		
19	91.58	3751	1.83	2580	9 0 .		
18	97.78	3971	1.75	2580	1 0 0		
16	110.57	5041	1.32	2580	1 1 2		
14	124.00	5617	0.84	2580	1 2 5		
12	143.08	5664	1.32	2580	1 4 0		
11	156.67	6186	1.22	2580	1 6 0		
8.1	214.00	8208	0.92	2370	2 1 2		
7.2	240.00	9140	0.82	2110	2 5 0		
17	103.86	4711	1.54	2580	C 0 6 3 1 1 0 0 - - - - - 1 . 5 B - -	115.6	145TC
15	117.99	5350	1.40	2580	1 1 8		
13	130.00	5108	1.33	2580	1 3 2		
12	147.69	5765	1.22	2580	1 5 0		
10	169.81	7567	1.02	2580	1 6 0		
9.3	184.62	8175	0.94	2580	1 8 0		
8.6	201.02	7708	1.00	2580	2 0 0		
7.6	228.38	8694	0.93	2580	2 2 5		
39	44.13	2152	3.38	6050	C 0 7 2 1 4 5 . - - - - - 1 . 5 B - -	201.5	145TC
35	49.90	2423	3.03	6050	5 0 .		
32	53.63	2508	3.23	6050	5 6 .		
28	61.62	2863	2.90	6050	6 3 .		
25	69.00	3316	2.34	6050	7 1 .		
23	75.56	3619	2.16	6050	8 0 .		
20	88.26	4041	2.19	6050	9 0 .		
17	99.79	4553	1.98	6050	1 0 0		
17	104.32	4919	1.65	6050	1 1 2		
15	115.92	5452	1.48	6050	1 2 5		
13	138.00	6198	1.54	6050	1 4 0		
11	151.13	6736	1.45	6050	1 6 0		
8.3	208.65	9101	1.13	6050	2 1 2		
7.4	231.83	10129	1.03	6050	2 5 0		
18	97.33	4601	2.63	6050	C 0 7 3 1 1 0 0 - - - - - 1 . 5 B - -	223.6	145TC
15	113.20	5333	2.27	6050	1 1 8		
11	159.98	7437	1.63	6050	1 6 0		
10	170.81	7953	1.52	6050	1 8 0		
8.9	194.65	8492	1.20	6050	2 0 0		
7.6	226.39	9794	1.07	6050	2 2 5		
6.9	249.94	11466	1.06	6050	2 6 5		
6.3	273.68	12508	0.97	6050	2 8 0		
5.4	319.95	13720	0.81	4900	3 1 5		
15	117.89	5602	3.89	9380	C 0 8 2 1 1 2 5 - - - - - 1 . 5 B - -	320.6	145TC
12	139.29	6309	3.13	9380	1 4 0		
11	153.00	6908	2.91	9380	1 6 0		
8.4	204.75	9126	2.32	9380	2 1 2		
7.3	235.77	10426	2.08	9380	2 5 0		
3.20	547	29550	1.0	9380	C 0 8 4 1 5 6 0 - - - - - 1 . 5 B - -	362.5	145TC
2.75	636	34358	0.8	9380	6 3 0		
3.14	558	30144	1.7	11900	C 0 9 4 1 5 6 0 - - - - - 1 . 5 B - -	523.5	145TC
2.70	649	35060	1.5	11900	6 3 0		
2.41	727	39274	1.3	11900	7 1 0		
2.26	774	41813	1.2	11900	8 0 0		
1.91	918	49592	1.0	11900	9 0 0		
1.79	980	52941	1.0	11900	1 0 C		
1.61	1089	58829	0.9	11900	1 1 C		
1.44	1216	65690	0.8	11900	1 2 C		

NOTE
 Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

1.5 HP

4 POLE
1750 rpm
nominal
input speed

2 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
3.21	545	29442	3.0	19600	C 1 0 4 1 5 6 0 _ _ _ _ _ 1 . 5 B _ _	805.6	145TC
2.80	626	33817	2.6	19600	6 3 0		
2.46	710	38355	2.3	19600	7 1 0		
2.23	783	42299	2.1	19600	8 0 0		
1.95	897	48457	1.8	19600	9 0 0		
1.73	1014	54778	1.6	19600	1 0 C		
1.55	1127	60882	1.4	19600	1 1 C		
1.49	1176	63529	1.4	19600	1 2 C		
1.25	1402	75738	1.2	19600	1 4 C		
1.09	1607	86812	1.0	19600	1 6 C		
0.94	1863	100642	0.9	19600	1 8 C		
0.82	2146	115930	0.8	19600	2 0 C		
0.79	2222	120036	0.8	19600	2 2 C		
201	8.59	526	1.30	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	69.7	145TC
149	11.61	703	1.06	625	1 1 .		
131	13.20	794	0.96	625	1 2 .		
115	14.95	896	0.89	560	1 4 .		
105	16.36	876	0.84	525	1 6 .		
201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	76.3	145TC
149	11.61	719	1.76	1180	1 1 .		
131	13.20	813	1.60	1180	1 2 .		
115	14.95	918	1.47	1180	1 4 .		
105	16.36	903	1.34	1180	1 6 .		
90	19.13	1166	1.23	1180	1 8 .		
84	20.61	1248	1.17	1180	2 0 .		
78	22.11	1201	1.10	1180	2 2 .		
69	25.14	1356	1.00	1180	2 5 .		
61	28.48	1530	0.93	1090	2 8 .		
51	33.71	1997	0.82	960	3 2 .		
208	8.31	530	3.22	1650	C 0 5 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	80.7	145TC
148	11.66	737	2.66	1650	1 1 .		
134	12.85	806	2.52	1650	1 2 .		
118	14.59	912	2.35	1650	1 4 .		
107	16.09	930	2.92	1650	1 6 .		
93	18.53	1147	2.04	1650	1 8 .		
82	21.05	1296	1.88	1650	2 0 .		
76	22.56	1278	2.32	1650	2 2 .		
69	24.86	1396	2.17	1650	2 5 .		
61	28.24	1571	1.98	1650	2 8 .		
53	32.55	1974	1.42	1650	3 2 .		
48	35.86	1963	1.67	1650	3 6 .		
42	40.74	2210	1.51	1650	4 0 .		
37	46.84	2800	1.09	1650	4 5 .		
34	50.93	3032	1.02	1650	5 0 .		
31	55.45	2940	1.22	1650	5 6 .		
27	63.00	3307	1.11	1650	6 3 .		
19	90.67	4646	0.89	1486	9 0 .		
18	98.57	5016	0.83	1370	1 0 0		
52	33.48	2134	2.43	2580	C 0 6 2 1 3 2 . _ _ _ _ _ 2 . 0 B _ _	111.5	145TC
36	47.32	2977	1.95	2580	4 5 .		
34	50.52	3170	1.87	2580	5 0 .		
31	55.71	3140	1.90	2580	5 6 .		
27	64.80	3612	1.71	2580	6 3 .		
23	73.92	4569	1.39	2580	7 1 .		
21	80.94	4985	1.29	2580	8 0 .		
19	91.58	5002	1.37	2580	9 0 .		
18	97.78	5295	1.32	2580	1 0 0		
16	110.57	6722	0.99	2580	1 1 2		
12	143.08	7552	0.99	2580	1 4 0		
11	156.67	8248	0.91	2322	1 6 0		
17	103.86	6282	1.16	2580	C 0 6 3 1 1 0 0 _ _ _ _ _ 2 . 0 B _ _	122.6	145TC
15	117.99	7133	1.05	2580	1 1 8		
13	130.00	6810	1.00	2580	1 3 2		
12	147.69	7687	0.92	2300	1 5 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

2 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
56	30.81	2022	3.30	6050	C 0 7 2 1 3 2 2 . 0 B _ _	208.5	145TC
39	44.13	2870	2.54	6050	C 0 7 2 1 4 5 2 . 0 B _ _	208.5	145TC
35	49.90	3231	2.27	6050	5 0 .		
32	53.63	3344	2.42	6050	5 6 .		
28	61.62	3817	2.17	6050	6 3 .		
25	69.00	4421	1.75	6050	7 1 .		
23	75.56	4826	1.62	6050	8 0 .		
20	88.26	5388	1.64	6050	9 0 .		
17	99.79	6070	1.49	6050	1 0 0		
17	104.32	6559	1.24	6050	1 1 2		
15	115.92	7269	1.11	6050	1 2 5		
13	138.00	8264	1.16	6050	1 4 0		
11	151.13	8981	1.08	6050	1 6 0		
18	97.33	6135	1.98	6050	C 0 7 3 1 1 0 0 2 . 0 B _ _	230.6	145TC
15	113.20	7110	1.71	6050	1 1 8		
11	159.98	9916	1.22	6050	1 6 0		
10	170.81	10604	1.14	6050	1 8 0		
8.9	194.65	11323	0.90	5450	2 0 0		
20	87.29	5409	3.37	9380	C 0 8 2 1 9 0 2 . 0 B _ _	327.6	145TC
18	98.53	6060	3.07	9380	1 0 0		
17	102.38	6534	3.56	9380	1 1 2		
15	117.89	7469	2.91	9380	1 2 5		
12	139.29	8412	2.35	9380	1 4 0		
11	153.00	9211	2.18	9380	1 6 0		
8.4	204.75	12169	1.74	9380	2 1 2		
7.3	235.77	13902	1.56	9380	2 5 0		
3.14	558	40192	1.3	11900	C 0 9 4 1 5 6 0 2 . 0 B _ _	530.4	145TC
2.70	649	46747	1.1	11900	6 3 0		
2.41	727	52365	1.0	11900	7 1 0		
2.26	774	55750	0.9	11900	8 0 0		
1.91	918	66122	0.8	11900	9 0 0		
3.21	545	39256	2.3	19600	C 1 0 4 1 5 6 0 2 . 0 B _ _	812.6	145TC
2.80	626	45090	2.0	19600	6 3 0		
2.46	710	51140	1.7	19600	7 1 0		
2.23	783	56398	1.6	19600	8 0 0		
1.95	897	64610	1.4	19600	9 0 0		
1.73	1014	73037	1.2	19600	1 0 C		
1.55	1127	81176	1.1	19600	1 1 C		
1.49	1176	84706	1.1	19600	1 2 C		
1.25	1402	100984	0.9	19600	1 4 C		
1.09	1607	115750	0.8	19600	1 6 C		
201	8.59	789	0.87	545	C 0 3 2 1 8 . 0 3 . 0 B _ _	94.1	182TC
201	8.59	804	1.44	1180	C 0 4 2 1 8 . 0 3 . 0 B _ _	98.5	182TC
149	11.61	1079	1.17	1180	1 1 .		
131	13.20	1220	1.07	1180	1 2 .		
115	14.95	1378	0.98	1100	1 4 .		
105	16.36	1355	0.89	1050	1 6 .		
90	19.13	1749	0.82	965	1 8 .		
208	8.31	796	2.15	1650	C 0 5 2 1 8 . 0 3 . 0 B _ _	102.9	182TC
148	11.66	1106	1.78	1650	1 1 .		
134	12.85	1209	1.68	1650	1 2 .		
118	14.59	1369	1.56	1650	1 4 .		
107	16.09	1395	1.95	1650	1 6 .		
93	18.53	1721	1.36	1650	1 8 .		
82	21.05	1945	1.26	1650	2 0 .		
76	22.56	1917	1.55	1650	2 2 .		
69	24.86	2094	1.45	1650	2 5 .		
61	28.24	2356	1.32	1650	2 8 .		
53	32.55	2961	0.95	1650	3 2 .		
48	35.86	2945	1.11	1650	3 6 .		
42	40.74	3315	1.01	1650	4 0 .		
31	55.45	4410	0.81	1330	5 6 .		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

3 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
210	8.23	811	3.74	2580	C 0 6 2 1 8 . 0 _ _ _ _ _ 3 . 0 B _ _	147.0	182TC
149	11.57	1137	3.08	2580	1 1 .		
133	12.97	1274	2.88	2580	1 2 .		
118	14.56	1426	2.69	2580	1 4 .		
108	15.93	1435	2.97	2580	1 6 .		
93	18.49	1800	2.34	2580	1 8 .		
82	20.96	2033	2.16	2580	2 0 .		
77	22.40	1994	2.44	2580	2 2 .		
69	25.11	2222	2.28	2580	2 5 .		
61	28.18	2477	2.10	2580	2 8 .		
52	33.48	3201	1.62	2580	3 2 .		
48	35.79	3110	1.77	2580	3 6 .		
43	40.57	3498	1.60	2580	4 0 .		
36	47.32	4466	1.30	2580	4 5 .		
34	50.52	4755	1.25	2580	5 0 .		
31	55.71	4710	1.26	2580	5 6 .		
27	64.80	5418	1.14	2580	6 3 .		
23	73.92	6854	0.93	2580	7 1 .		
21	80.94	7478	0.86	2270	8 0 .		
19	91.58	7503	0.92	2350	9 0 .		
18	97.78	7943	0.88	2270	1 0 0		
109	15.80	1526	3.94	6050	C 0 7 2 1 1 6 . _ _ _ _ _ 3 . 0 B _ _	241.8	182TC
86	20.07	2006	3.79	6050	2 0 .		
79	21.89	2102	3.13	6050	2 2 .		
70	24.59	2359	2.88	6050	2 5 .		
64	27.03	2584	2.69	6050	2 8 .		
56	30.81	3033	2.20	6050	3 2 .		
49	35.31	3355	2.21	6050	3 6 .		
43	40.15	3792	2.01	6050	4 0 .		
39	44.13	4305	1.69	6050	4 5 .		
35	49.90	4846	1.52	6050	5 0 .		
32	53.63	5016	1.61	6050	5 6 .		
28	61.62	5726	1.45	6050	6 3 .		
25	69.00	6632	1.17	6050	7 1 .		
23	75.56	7239	1.08	6050	8 0 .		
20	88.26	8083	1.09	6050	9 0 .		
17	99.79	9106	0.99	6050	1 0 0		
17	104.32	9839	0.82	4960	1 1 2		
18	97.33	9203	1.32	6050	C 0 7 3 1 1 0 0 _ _ _ _ _ 3 . 0 B _ _	266.0	182TC
15	113.20	10666	1.14	6050	1 1 8		
14	125.04	11089	0.85	5200	1 3 2		
11	159.98	14875	0.82	5000	1 6 0		
35	49.26	4833	3.88	9380	C 0 8 2 1 5 0 . _ _ _ _ _ 3 . 0 B _ _	347.6	182TC
32	54.60	5165	3.24	9380	5 6 .		
27	63.56	5989	2.88	9380	6 3 .		
25	69.64	6743	3.10	9380	7 1 .		
23	76.50	7395	2.91	9380	8 0 .		
20	87.29	8113	2.25	9380	9 0 .		
18	98.53	9091	2.04	9380	1 0 0		
17	102.38	9801	2.37	9380	1 1 2		
15	117.89	11204	1.94	9380	1 2 5		
12	139.29	12618	1.56	9380	1 4 0		
11	153.00	13817	1.45	9380	1 6 0		
8.4	204.75	18253	1.16	9380	2 1 2		
7.3	235.77	20853	1.04	9380	2 5 0		
11.22	156	16855	1.7	9380	C 0 8 4 1 1 6 0 _ _ _ _ _ 3 . 0 B _ _	404.9	182TC
9.89	177	19124	1.5	9380	1 8 0		
7.95	220	23769	1.2	9380	2 1 2		
7.06	248	26795	1.1	9380	2 5 0		
6.32	277	29928	0.9	9380	2 8 0		
5.61	312	33709	0.8	9380	3 2 0		
16	106.17	10291	3.75	11900	C 0 9 2 1 1 1 2 _ _ _ _ _ 3 . 0 B _ _	488.7	182TC
14	119.38	11504	3.39	11900	1 2 5		
12	146.23	13295	3.40	11900	1 4 0		
11	161.44	14618	3.17	11900	1 6 0		
7.8	222.08	19772	2.53	11900	2 1 2		
6.9	249.73	22065	2.33	11900	2 5 0		

NOTE
 Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

3 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
10.94	160	17287	3.0	11900	C 0 9 4 1 1 6 0 - - - - - 3 . 0 B - -	574.7	182TC
9.89	177	19124	2.7	11900	1 8 0		
7.78	225	24310	2.1	11900	2 1 2		
7.03	249	26903	1.9	11900	2 5 0		
6.21	282	30468	1.7	11900	2 8 0		
5.57	314	33925	1.5	11900	3 2 0		
4.87	359	38787	1.3	11900	3 6 0		
4.30	407	43973	1.2	11900	4 0 0		
3.87	452	48835	1.1	11900	4 5 0		
3.61	485	52401	1.0	11900	5 0 0		
3.14	558	60288	0.9	11900	5 6 0		
7.88	222	23986	3.7	19600	C 1 0 4 1 2 1 2 - - - - - 3 . 0 B - -	845.8	182TC
7.09	247	26687	3.3	19600	2 5 0		
6.36	275	29712	3.0	19600	2 8 0		
5.74	305	32953	2.6	19600	3 2 0		
4.87	359	38787	2.3	19600	3 6 0		
4.29	408	44081	2.0	19600	4 0 0		
3.86	453	48943	1.8	19600	4 5 0		
3.54	495	53481	1.7	19600	5 0 0		
3.21	545	58883	1.5	19600	5 6 0		
2.80	626	67635	1.3	19600	6 3 0		
2.46	710	76710	1.2	19600	7 1 0		
2.23	783	84598	1.1	19600	8 0 0		
1.95	897	96914	0.9	19600	9 0 0		
1.73	1014	109555	0.8	19600	1 0 C		

5 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	1341	0.86	920	C 0 4 2 1 8 . 0 - - - - - 5 . 0 B - -	112.5	184TC
208	8.31	1326	1.29	1650	C 0 5 2 1 8 . 0 - - - - - 5 . 0 B - -	116.0	184TC
148	11.66	1844	1.07	1650	1 1 .		
134	12.85	2015	1.01	1650	1 2 .		
118	14.59	2282	0.94	1650	1 4 .		
107	16.09	2325	1.17	1650	1 6 .		
93	18.53	2869	0.81	1320	1 8 .		
76	22.56	3195	0.93	1500	2 2 .		
69	24.86	3490	0.87	1430	2 5 .		
210	8.23	1352	2.24	2580	C 0 6 2 1 8 . 0 - - - - - 5 . 0 B - -	161.0	184TC
149	11.57	1896	1.85	2580	1 1 .		
133	12.97	2124	1.73	2580	1 2 .		
118	14.56	2377	1.62	2580	1 4 .		
108	15.93	2392	1.78	2580	1 6 .		
93	18.49	3000	1.40	2580	1 8 .		
82	20.96	3388	1.30	2580	2 0 .		
77	22.40	3323	1.46	2580	2 2 .		
69	25.11	3703	1.37	2580	2 5 .		
61	28.18	4128	1.26	2580	2 8 .		
52	33.48	5336	0.97	2580	3 2 .		
48	35.79	5184	1.06	2580	3 6 .		
43	40.57	5831	0.96	2450	4 0 .		
218	7.90	1330	3.94	6050	C 0 7 2 1 8 . 0 - - - - - 5 . 0 B - -	255.8	184TC
158	10.94	1835	3.28	6050	1 1 .		
140	12.29	2075	3.04	6050	1 2 .		
128	13.52	2272	2.88	6050	1 4 .		
109	15.80	2543	2.37	6050	1 6 .		
98	17.66	2948	2.46	6050	1 8 .		
86	20.07	3343	2.28	6050	2 0 .		
79	21.89	3503	1.88	6050	2 2 .		
70	24.59	3932	1.73	6050	2 5 .		
64	27.03	4308	1.61	6050	2 8 .		
56	30.81	5055	1.32	6050	3 2 .		
49	35.31	5593	1.32	6050	3 6 .		
43	40.15	6321	1.21	6050	4 0 .		
39	44.13	7175	1.02	6050	4 5 .		
35	49.90	8077	0.91	5500	5 0 .		
32	53.63	8360	0.97	5850	5 6 .		
28	61.62	9544	0.87	5260	6 3 .		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

5 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
78	22.03	3540	3.67	9380	C 0 8 2 1 2 2 5 . 0 B _ _	361.6	184TC
70	24.47	3940	3.44	9380	2 5		
63	27.22	4390	3.23	9380	2 8		
54	31.78	5281	3.07	9380	3 2		
49	35.20	5645	2.70	9380	3 6		
44	39.51	6317	2.48	9380	4 0		
40	43.64	7173	2.52	9380	4 5		
35	49.26	8056	2.33	9380	5 0		
32	54.60	8608	1.94	9380	5 6		
27	63.56	9982	1.73	9380	6 3		
25	69.64	11238	1.86	9380	7 1		
23	76.50	12326	1.74	9380	8 0		
20	87.29	13522	1.35	9380	9 0		
18	98.53	15151	1.23	9380	1 0 0		
17	102.38	16335	1.42	9380	1 1 2		
15	117.89	18674	1.17	9380	1 2 5		
12	139.29	21030	0.94	8820	1 4 0		
11	153.00	23029	0.87	8200	1 6 0		
11.22	156	28091	1.0	9380	C 0 8 4 1 1 6 0 _ _ _ _ _ 5 . 0 B _ _	438TC	184M
9.89	177	31873	0.9	9380	1 8 0		
25	69.91	11442	3.23	11900	C 0 9 2 1 7 1 5 . 0 B _ _	502.7	184TC
22	77.18	12584	2.96	11900	8 0		
19	93.18	14517	2.75	11900	9 0		
17	103.53	15966	2.58	11900	1 0 0		
16	106.17	17152	2.25	11900	1 1 2		
14	119.38	19173	2.04	11900	1 2 5		
12	146.23	22159	2.04	11900	1 4 0		
11	161.44	24364	1.90	11900	1 6 0		
7.8	222.08	32953	1.52	11900	2 1 2		
6.9	249.73	36775	1.40	11900	2 5 0		
10.94	160	28811	1.8	11900	C 0 9 4 1 1 6 0 _ _ _ _ _ 5 . 0 B _ _	588.7	184TC
9.89	177	31873	1.6	11900	1 8 0		
7.78	225	40516	1.3	11900	2 1 2		
7.03	249	44838	1.1	11900	2 5 0		
6.21	282	50780	1.0	11900	2 8 0		
5.57	314	56542	0.9	11900	3 2 0		
4.87	359	64646	0.8	11900	3 6 0		
17	101.47	16010	3.89	19600	C 1 0 2 1 1 0 0 _ _ _ _ _ 5 . 0 B _ _	745.2	184TC
15	115.82	18816	3.62	19600	1 2 5		
12	144.71	22590	2.93	19600	1 4 0		
10	166.73	25829	2.64	19600	1 6 0		
7.6	225.50	34410	2.09	19600	2 1 2		
7.1	242.27	36790	1.98	19600	2 5 0		
10.87	161	28992	3.1	19600	C 1 0 4 1 1 6 0 _ _ _ _ _ 5 . 0 B _ _	859.8	184TC
9.83	178	32053	2.7	19600	1 8 0		
7.88	222	39976	2.2	19600	2 1 2		
7.09	247	44478	2.0	19600	2 5 0		
6.36	275	49520	1.8	19600	2 8 0		
5.74	305	54922	1.6	19600	3 2 0		
4.87	359	64646	1.4	19600	3 6 0		
4.29	408	73469	1.2	19600	4 0 0		
3.86	453	81572	1.1	19600	4 5 0		
3.54	495	89135	1.0	19600	5 0 0		
3.21	545	98139	0.9	19600	5 6 0		
2.80	626	112725	0.8	19600	6 3 0		

NOTE
 Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

7.5 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
210	8.23	2028	1.50	2580	C 0 6 2 1 8 . 0 _ _ _ _ _ 7 . 5 B _ _	209.0	213TC
149	11.57	2844	1.23	2580	1 1 .		
133	12.97	3186	1.15	2580	1 2 .		
118	14.56	3566	1.08	2580	1 4 .		
108	15.93	3589	1.19	2580	1 6 .		
93	18.49	4500	0.93	2400	1 8 .		
82	20.96	5083	0.87	2240	2 0 .		
218	7.90	1995	2.63	6050	C 0 7 2 1 8 . 0 _ _ _ _ _ 7 . 5 B _ _	303.8	213TC
158	10.94	2753	2.19	6050	1 1 .		
140	12.29	3113	2.03	6050	1 2 .		
128	13.52	3409	1.92	6050	1 4 .		
109	15.80	3815	1.58	6050	1 6 .		
98	17.66	4423	1.64	6050	1 8 .		
86	20.07	5015	1.52	6050	2 0 .		
79	21.89	5255	1.25	6050	2 2 .		
70	24.59	5898	1.15	6050	2 5 .		
64	27.03	6462	1.08	6050	2 8 .		
56	30.81	7582	0.88	5300	3 2 .		
49	35.31	8389	0.88	5300	3 6 .		
43	40.15	9481	0.80	4850	4 0 .		
157	11.01	2784	3.88	9380	C 0 8 2 1 1 1 . _ _ _ _ _ 7 . 5 B _ _	409.6	213TC
141	12.24	3105	3.65	9380	1 2 .		
127	13.61	3442	3.42	9380	1 4 .		
111	15.54	3788	3.01	9380	1 6 .		
98	17.60	4420	2.94	9380	1 8 .		
87	19.76	4989	2.73	9380	2 0 .		
78	22.03	5310	2.45	9380	2 2 .		
70	24.47	5910	2.29	9380	2 5 .		
63	27.22	6585	2.15	9380	2 8 .		
54	31.78	7922	2.04	9380	3 2 .		
49	35.20	8468	1.80	9380	3 6 .		
44	39.51	9475	1.65	9380	4 0 .		
40	43.64	10760	1.68	9380	4 5 .		
35	49.26	12084	1.55	9380	5 0 .		
32	54.60	12913	1.30	9380	5 6 .		
27	63.56	14973	1.15	9380	6 3 .		
25	69.64	16858	1.24	9380	7 1 .		
23	76.50	18489	1.16	9380	8 0 .		
20	87.29	20283	0.90	8500	9 0 .		
18	98.53	22727	0.82	7690	1 0 0		
17	102.38	24503	0.95	8900	1 1 2		
39	44.55	11094	3.03	11900	C 0 9 2 1 4 5 . _ _ _ _ _ 7 . 5 B _ _	560.7	213TC
35	49.49	12258	2.84	11900	5 0 .		
25	69.91	17164	2.15	11900	7 1 .		
22	77.18	18876	1.97	11900	8 0 .		
19	93.18	21776	1.83	11900	9 0 .		
17	103.53	23949	1.72	11900	1 0 0		
16	106.17	25728	1.50	11900	1 1 2		
14	119.38	28760	1.36	11900	1 2 5		
12	146.23	33239	1.36	11900	1 4 0		
11	161.44	36547	1.27	11900	1 6 0		
7.8	222.08	49430	1.01	11900	2 1 2		
6.9	249.73	55163	0.93	11300	2 5 0		
10.9	160	43217	1.2	11900	C 0 9 4 1 1 6 0 _ _ _ _ _ 7 . 5 B _ _	586TC	213TC
9.8	177	47809	1.1	11900	1 8 0		
7.7	225	60774	0.9	11900	2 1 2		
7.0	249	67257	0.8	11900	2 5 0		
25	69.18	17141	3.67	15300	C 1 0 2 1 7 1 . _ _ _ _ _ 7 . 5 B _ _	793.2	213TC
22	79.71	19675	3.23	16000	8 0 .		
19	91.32	21824	2.80	16600	9 0 .		
17	101.47	24015	2.59	17000	1 0 0		
16	107.80	26413	2.71	17500	1 1 2		
15	115.82	28224	2.41	18000	1 2 5		
12	144.71	33885	1.96	19600	1 4 0		
10	166.73	38744	1.76	19600	1 6 0		
7.6	225.50	51615	1.39	19600	2 1 2		
7.1	242.27	55185	1.32	19600	2 5 0		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

7.5 HP
4 POLE
1750 rpm
nominal
input speed

10 HP
4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
10.87	161	43487	2.1	19600	C 1 0 4 1 1 6 0 _ _ _ _ _ 7 . 5 B _ _	895.0	213TC
9.83	178	48079	1.8	19600	1 8 0		
7.88	222	59964	1.5	19600	2 1 2		
7.09	247	66716	1.3	19600	2 5 0		
6.36	275	74279	1.2	19600	2 8 0		
5.74	305	82383	1.1	19600	3 2 0		
4.87	359	96968	0.9	19600	3 6 0		
4.29	408	110204	0.8	19600	4 0 0		
218	7.90	2660	1.97	6050	C 0 7 2 1 8 . 0 _ _ _ _ _ 1 0 . B _ _	318.8	215TC
158	10.94	3671	1.64	6050	1 1 .		
140	12.29	4151	1.52	6050	1 2 .		
128	13.52	4545	1.44	6050	1 4 .		
109	15.80	5087	1.18	6050	1 6 .		
98	17.66	5897	1.23	6050	1 8 .		
86	20.07	6687	1.14	6050	2 0 .		
79	21.89	7006	0.94	5700	2 2 .		
70	24.59	7864	0.86	5200	2 5 .		
64	27.03	8616	0.81	4800	2 8 .		
222	7.77	2623	3.54	9380	C 0 8 2 1 8 . 0 _ _ _ _ _ 1 0 . B _ _	424.6	215TC
157	11.01	3713	2.91	9380	1 1 .		
141	12.24	4140	2.74	9380	1 2 .		
127	13.61	4590	2.56	9380	1 4 .		
111	15.54	5051	2.26	9380	1 6 .		
98	17.60	5893	2.21	9380	1 8 .		
87	19.76	6652	2.05	9380	2 0 .		
78	22.03	7081	1.84	9380	2 2 .		
70	24.47	7880	1.72	9380	2 5 .		
63	27.22	8781	1.61	9380	2 8 .		
54	31.78	10562	1.53	9380	3 2 .		
49	35.20	11290	1.35	9380	3 6 .		
44	39.51	12634	1.24	9380	4 0 .		
40	43.64	14347	1.26	9380	4 5 .		
35	49.26	16112	1.16	9380	5 0 .		
32	54.60	17217	0.97	9200	5 6 .		
27	63.56	19964	0.86	8700	6 3 .		
25	69.64	22477	0.93	8900	7 1 .		
23	76.50	24652	0.87	8700	8 0 .		
39	44.55	14792	2.27	11900	C 0 9 2 1 4 5 . _ _ _ _ _ 1 0 . B _ _	565.7	215TC
35	49.49	16344	2.13	11900	5 0 .		
25	69.91	22885	1.61	11900	7 1 .		
22	77.18	25168	1.48	11900	8 0 .		
19	93.18	29035	1.37	11900	9 0 .		
17	103.53	31933	1.29	11900	1 0 0		
16	106.17	34304	1.12	11900	1 1 2		
14	119.38	38347	1.02	11900	1 2 5		
12	146.23	44319	1.02	11900	1 4 0		
11	161.44	48729	0.95	11300	1 6 0		
10.94	160	57623	0.9	11000	C 0 9 4 1 1 6 0 _ _ _ _ _ 1 0 . B _ _	629.0	215TC
9.89	177	63745	0.8	9500	1 8 0		
36	48.51	16203	3.71	13700	C 1 0 2 1 5 0 . _ _ _ _ _ 1 0 . B _ _	808.2	215TC
25	69.18	22855	2.75	14100	7 1 .		
22	79.71	26233	2.42	13700	8 0 .		
19	91.32	29098	2.10	14100	9 0 .		
17	101.47	32020	1.94	13300	1 0 0		
16	107.80	35217	2.04	13500	1 1 2		
15	115.82	37632	1.81	15800	1 2 5		
12	144.71	45180	1.47	16600	1 4 0		
10	166.73	51659	1.32	15300	1 6 0		
7.6	225.50	68821	1.04	16000	2 1 2		
7.1	242.27	73580	0.99	16600	2 5 0		
10.87	161	57983	1.5	19600	C 1 0 4 1 1 6 0 _ _ _ _ _ 1 0 . B _ _	935.0	215TC
9.83	178	64105	1.4	19600	1 8 0		
7.88	222	79952	1.1	19600	2 1 2		
7.09	247	88955	1.0	19600	2 5 0		
6.36	275	99039	0.9	19600	2 8 0		
5.74	305	109844	0.8	19600	3 2 0		

NOTE
Other output
speeds are
available
using 2 and 6
pole motors
- Consult
Application
Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

15 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
223	7.90	3911	1.34	4654	C 0 7 2 1 8 . 0 _ _ _ _ _ 1 5 . B _ _	431.8	254TC
161	10.94	5398	1.11	4781	1 1 .		
143	12.29	6103	1.03	4829	1 2 .		
130	13.52	6682	0.98	5035	1 4 .		
111	15.80	7479	0.80	5013	1 6 .		
100	17.66	8670	0.84	5013	1 8 .		
227	7.77	3856	2.41	5761	C 0 8 2 1 8 . 0 _ _ _ _ _ 1 5 . B _ _	537.6	254TC
160	11.01	5458	1.98	6125	1 1 .		
144	12.24	6086	1.86	6188	1 2 .		
129	13.61	6748	1.74	6284	1 4 .		
113	15.54	7425	1.54	6474	1 6 .		
100	17.60	8664	1.50	6474	1 8 .		
89	19.76	9780	1.39	6474	2 0 .		
80	22.03	10410	1.25	6474	2 2 .		
72	24.47	11585	1.17	6458	2 5 .		
65	27.22	12909	1.10	6458	2 8 .		
55	31.78	15529	1.04	6442	3 2 .		
50	35.20	16599	0.92	6452	3 6 .		
45	39.51	18575	0.84	6452	4 0 .		
40	43.64	21093	0.86	6429	4 5 .		
160	10.98	5498	3.61	8600	C 0 9 2 1 1 1 . _ _ _ _ _ 1 5 . B _ _	685.3	254TC
143	12.30	6152	3.38	9400	1 2 .		
127	13.81	6899	3.16	9700	1 4 .		
106	16.68	7967	2.69	10800	1 6 .		
99	17.79	8865	2.72	10400	1 8 .		
89	19.88	9913	2.54	10800	2 0 .		
77	22.96	10959	2.22	11700	2 2 .		
68	25.73	12230	2.08	7823	2 5 .		
61	28.89	13735	1.93	7823	2 8 .		
56	31.43	15528	1.92	7823	3 2 .		
47	37.22	17559	1.66	7823	3 6 .		
42	41.59	19573	1.56	7823	4 0 .		
40	44.55	21747	1.55	7793	4 5 .		
36	49.49	24028	1.45	7798	5 0 .		
31	57.66	26948	1.27	7800	5 6 .		
27	65.74	30591	1.17	7800	6 3 .		
25	69.91	33646	1.10	7775	7 1 .		
23	77.18	37001	1.01	7775	8 0 .		
19	93.18	42687	0.94	7755	9 0 .		
17	103.53	46947	0.88	7755	1 0 0		
76	23.23	11259	3.94	12400	C 1 0 2 1 2 2 . _ _ _ _ _ 1 5 . B _ _	941.0	254TC
70	25.27	12257	3.74	12600	2 5 .		
61	28.70	13909	3.46	12800	2 8 .		
55	31.85	15850	3.34	12200	3 2 .		
47	37.38	17984	2.86	13700	3 6 .		
44	40.36	19392	2.70	14100	4 0 .		
40	43.65	21553	2.75	13300	4 5 .		
36	48.51	23821	2.53	13500	5 0 .		
30	58.85	27956	2.02	15800	5 6 .		
26	66.63	31557	1.83	16600	6 3 .		
25	69.18	33601	1.87	15300	7 1 .		
22	79.71	38568	1.65	16000	8 0 .		
19	91.32	42780	1.43	16600	9 0 .		
17	101.47	47075	1.32	17000	1 0 0		
16	107.80	51775	1.38	17500	1 1 2		
15	115.82	55326	1.23	18000	1 2 5		
12	144.71	66423	1.00	19600	1 4 0		
11	166.73	75948	0.90	19600	1 6 0		

NOTE
 Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

20 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
223	7.90	5214	1.00	4000	C 0 7 2 1 8 . 0 _ _ _ _ _ 2 0 . B _ _	458.8	256TC
161	10.94	7197	0.84	3800	1 1 .		
227	7.77	5142	1.81	9380	C 0 8 2 1 8 . 0 _ _ _ _ _ 2 0 . B _ _	564.6	256TC
160	11.01	7278	1.48	9380	1 1 .		
144	12.24	8115	1.40	9380	1 2 .		
129	13.61	8998	1.31	9300	1 4 .		
113	15.54	9901	1.15	7400	1 6 .		
100	17.60	11553	1.13	7300	1 8 .		
89	19.76	13040	1.05	7010	2 0 .		
80	22.03	13880	0.94	6500	2 2 .		
72	24.47	15447	0.88	6200	2 5 .		
65	27.22	17213	0.82	5700	2 8 .		
221	7.97	5332	3.24	8600	C 0 9 2 1 8 . 0 _ _ _ _ _ 2 0 . B _ _	712.3	256TC
160	10.98	7331	2.70	9400	1 1 .		
143	12.30	8203	2.54	9700	1 2 .		
127	13.81	9198	2.37	10800	1 4 .		
106	16.68	10622	2.02	10400	1 6 .		
99	17.79	11821	2.04	10800	1 8 .		
89	19.88	13218	1.90	11900	2 0 .		
77	22.96	14612	1.67	11900	2 2 .		
68	25.73	16306	1.56	11900	2 5 .		
61	28.89	18313	1.45	11900	2 8 .		
56	31.43	20704	1.44	11900	3 2 .		
47	37.22	23412	1.25	11900	3 6 .		
42	41.59	26098	1.17	11900	4 0 .		
40	44.55	28997	1.16	11900	4 5 .		
36	49.49	32038	1.09	11900	5 0 .		
31	57.66	35930	0.95	10500	5 6 .		
27	65.74	40788	0.88	10000	6 3 .		
25	69.91	44861	0.82	9500	7 1 .		
106	16.63	10745	3.61	11400	C 1 0 2 1 1 6 . _ _ _ _ _ 2 0 . B _ _	968.0	256TC
98	17.87	11958	3.57	11100	1 8 .		
91	19.29	12891	3.41	11400	2 0 .		
76	23.23	15012	2.95	12400	2 2 .		
70	25.27	16343	2.81	12600	2 5 .		
61	28.70	18545	2.60	12800	2 8 .		
55	31.85	21134	2.51	12200	3 2 .		
47	37.38	23979	2.14	13700	3 6 .		
44	40.36	25856	2.02	14100	4 0 .		
40	43.65	28737	2.06	13300	4 5 .		
36	48.51	31761	1.89	13300	5 0 .		
30	58.85	37275	1.52	13500	5 6 .		
26	66.63	42077	1.38	15800	6 3 .		
25	69.18	44801	1.40	16600	7 1 .		
22	79.71	51424	1.23	15300	8 0 .		
19	91.32	57040	1.07	16000	9 0 .		
17	101.47	62767	0.99	16600	1 0 0		
16	107.80	69034	1.04	17500	1 1 2		
15	115.82	73768	0.92	18000	1 2 5		

25 HP

4 POLE
1750 rpm
nominal
input speed

221	7.97	6665	2.59	8600	C 0 9 2 1 8 0 . _ _ _ _ _ 2 5 . B _ _	830.7	284TC
160	10.98	9164	2.16	9400	1 1 .		
143	12.30	10253	2.03	9400	1 2 .		
127	13.81	11498	1.89	9700	1 4 .		
106	16.68	13278	1.61	10800	1 6 .		
99	17.79	14776	1.63	10400	1 8 .		
89	19.88	16522	1.52	10800	2 0 .		
77	22.96	18266	1.33	11700	2 2 .		
68	25.73	20383	1.25	11900	2 5 .		
61	28.89	22892	1.16	11900	2 8 .		
56	31.43	25880	1.15	11900	3 2 .		
47	37.22	29265	1.00	11900	3 6 .		
42	41.59	32622	0.93	11000	4 0 .		
40	44.55	36246	0.93	11000	4 5 .		
36	49.49	40047	0.87	10300	5 0 .		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

25 HP

4 POLE
1750 rpm
nominal
input speed

30 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
158	11.11	9341	3.77	9300	C 1 0 2 1 1 2 5 . B _ _	1086.5	284TC
146	12.08	10149	3.59	9900	1 2 .		
128	13.72	11502	3.34	10300	1 4 .		
106	16.63	13431	2.89	11400	1 6 .		
98	17.87	14948	2.85	11000	1 8 .		
91	19.29	16113	2.72	11400	2 0 .		
76	23.23	18766	2.36	12400	2 2 .		
70	25.27	20428	2.24	12600	2 5 .		
61	28.70	23181	2.08	12800	2 8 .		
55	31.85	26417	2.01	12200	3 2 .		
47	37.38	29974	1.72	13700	3 6 .		
44	40.36	32320	1.62	14100	4 0 .		
40	43.65	35922	1.65	13300	4 5 .		
36	48.51	39701	1.52	13500	5 0 .		
30	58.85	46593	1.21	15800	5 6 .		
26	66.63	52596	1.1	16600	6 3 .		
25	69.18	56002	1.12	15300	7 1 .		
22	79.71	64280	0.99	16000	8 0 .		
19	91.32	71300	0.86	16600	9 0 .		
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221	7.97	7998	2.16	8600	C 0 9 2 1 8 . 0 _ _ _ _ _ 3 0 . B _ _	824.7	286TC
160	10.98	10997	1.80	9400	1 1 .		
143	12.30	12304	1.69	9400	1 2 .		
127	13.81	13798	1.58	9700	1 4 .		
106	16.68	15934	1.34	10800	1 6 .		
99	17.79	17731	1.36	10400	1 8 .		
89	19.88	19827	1.27	10800	2 0 .		
77	22.96	21919	1.11	11700	2 2 .		
68	25.73	24460	1.04	11000	2 5 .		
61	28.89	27470	0.97	10600	2 8 .		
56	31.43	31056	0.96	10500	3 2 .		
47	37.22	35118	0.83	9800	3 6 .		
<hr/>							
221	7.95	8019	3.79	7700	C 1 0 2 1 8 . 0 _ _ _ _ _ 3 0 . B _ _	1080.5	286TC
158	11.11	11209	3.14	9300	1 1 .		
146	12.08	12179	2.99	9900	1 2 .		
128	13.72	13803	2.78	10300	1 4 .		
106	16.63	16118	2.41	11400	1 6 .		
98	17.87	17938	2.38	11000	1 8 .		
91	19.29	19336	2.27	11400	2 0 .		
76	23.23	22519	1.97	12400	2 2 .		
70	25.27	24514	1.87	12600	2 5 .		
61	28.70	27818	1.73	12800	2 8 .		
55	31.85	31701	1.67	12200	3 2 .		
47	37.38	35969	1.43	13700	3 6 .		
44	40.36	38784	1.35	14100	4 0 .		
40	43.65	43106	1.38	13300	4 5 .		
36	48.51	47642	1.26	13500	5 0 .		
30	58.85	55912	1.01	15800	5 6 .		
26	66.63	63115	0.92	16600	6 3 .		
25	69.18	67202	0.94	15300	7 1 .		
22	79.71	77136	0.82	14000	8 0 .		

NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

SELECTION TABLES

GEARED MOTORS

40 HP
 4 POLE
 1750 rpm
 nominal
 input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Size
221	7.97	10664	1.62	11900	C 0 9 2 1 8 . 0 _ _ _ _ _ 4 0 . B _ _	940.1	324TC
160	10.98	14663	1.35	11900	1 1 .		
143	12.30	16406	1.27	11900	1 2 .		
127	13.81	18397	1.18	11900	1 4 .		
106	16.68	21245	1.01	11900	1 6 .		
99	17.79	23642	1.02	11900	1 8 .		
89	19.88	26436	.95	11900	2 0 .		
77	22.96	29225	.83	11900	2 2 .		
221	7.97	10693	2.84	7700	C 1 0 2 1 8 . 0 _ _ _ _ _ 4 0 . B _ _	1205	324TC
158	11.11	14946	2.36	9300	1 . 0		
146	12.08	16238	2.25	9900	2 . 0		
128	13.72	18404	2.09	10300	4 . 0		
106	16.63	21490	1.80	11400	6 . 0		
98	17.87	23917	1.78	11000	8 . 0		
91	19.29	25782	1.70	11400	2 0 .		
76	23.23	30025	1.48	12400	2 2 .		
70	25.27	32686	1.40	12600	2 5 .		
61	28.70	37090	1.30	12800	2 8 .		
65	31.85	42268	1.25	12200	3 2 .		
55	37.38	47959	1.07	13700	3 6 .		
47	40.36	51712	1.01	14400	4 0 .		
44	43.65	57475	1.03	13300	4 5 .		
36	48.51	63523	0.98	13500	5 0 .		

50 HP
 4 POLE
 1750 rpm
 nominal
 input speed

221	7.97	10664	1.62	8600	C 0 9 2 1 8 . 0 _ _ _ _ _ 5 0 . B _ _	1095	326TC
180	10.98	14663	1.35	9400			
143	12.30	16406	1.27	9400			
127	13.81	18397	1.18	9700			
106	16.68	21245	1.01	10800			
99	17.79	23642	1.02	10400			
89	19.88	26436	0.95	10800			
77	22.96	29225	0.83	11700			
221	7.95	10693	2.84	7700	C 1 0 2 1 8 . 0 _ _ _ _ _ 5 0 . B _ _	1360	326TC
158	11.11	14946	2.36	9300			
146	12.08	16238	2.25	9900			
128	13.72	18404	2.09	10300			
106	16.63	21490	1.80	11400			
98	17.87	23917	1.78	11000			
91	19.29	25782	1.70	11400			
76	23.23	30025	1.48	12400			
70	25.27	32685	1.40	12600			
61	28.7	37090	1.30	12800			
55	31.85	42268	1.25	12200			
47	37.38	47959	1.07	14100			
44	40.36	51712	1.01	13300			
40	43.65	57475	1.03	13500			
36	48.51	63523	0.95	15800			

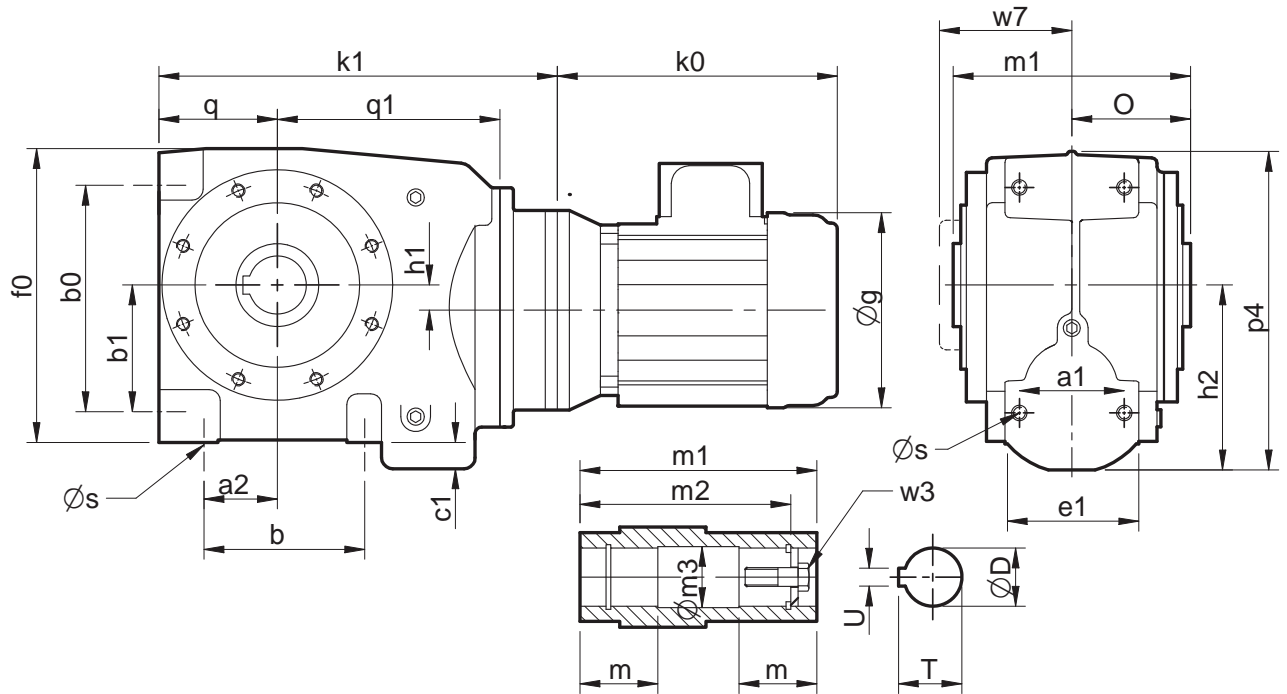
NOTE

Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering

SERIES C

DIMENSIONS

DOUBLE REDUCTIONS



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0321	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	0.21	3.13	2.44	5.83	2.13	4.29
C0421	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.59	3.66	2.56	6.61	2.52	4.69
C0521	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.51	4.41	2.76	7.87	2.68	5.28
C0621	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	0.67	5.49	3.54	9.57	3.54	6.65

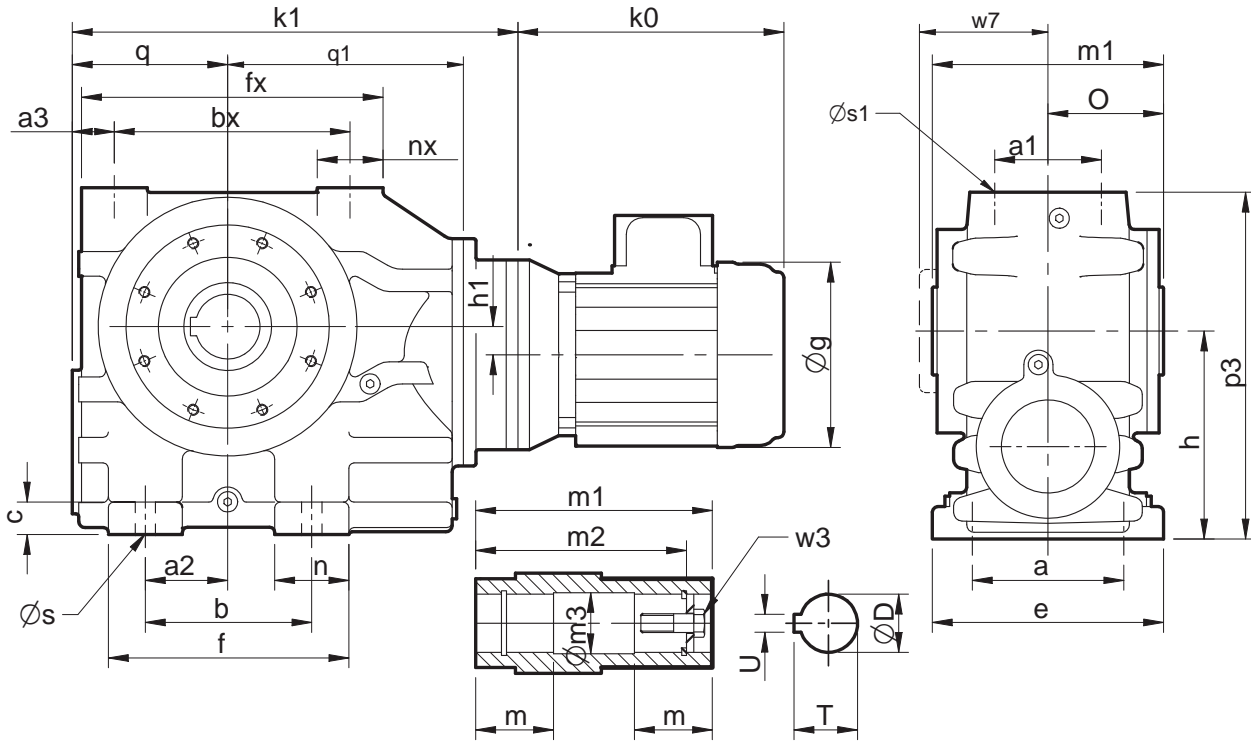
Size	s	w7	Hollow Output Bore							
			D	m	m1	m2	m3	T	U	w3
C0321	M8, 0.59 deep	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0421	M10, 0.79 deep	2.93	1.25	2.13	5.12	4.80	1.19	1.32	0.25	3/8" UNF x 2.00
C0521	M10, 0.71 deep	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0621	M12, 0.79 deep	3.98	1.50	2.76	7.09	6.14	1.78	1.62	0.375	5/8" UNF x 2.75

NEMA Motor	k0 (max)	g	C0321	C0421	C0521	C0621
			k1	k1	k1	k1
56c	12.00	6.13	8.98	9.76	10.51	12.17
143Tc / 145Tc	12.00	7.13	8.98	9.76	10.51	12.17
182Tc / 184Tc	15.50	8.50	8.66	9.45	10.20	13.15
213Tc / 215Tc	16.50	10.19	-	-	-	13.15

SERIES C

DIMENSIONS

DOUBLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
C0721	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	7.09	1.02	2.64	2.48	4.29	11.89	5.63	8.66
C0821	7.87	4.72	3.62	1.69	7.09	9.84	1.38	9.84	10.24	12.83	8.86	1.10	3.15	2.80	4.92	14.76	6.61	10.04
C0921	9.84	5.31	4.52	1.97	9.25	11.42	1.57	12.01	12.60	14.96	11.02	1.57	3.35	3.35	5.91	17.99	7.68	11.81
C1021	11.81	5.91	6.69	2.46	12.20	13.58	1.77	14.17	16.54	18.11	13.19	2.56	4.33	4.21	6.89	22.24	9.25	13.98

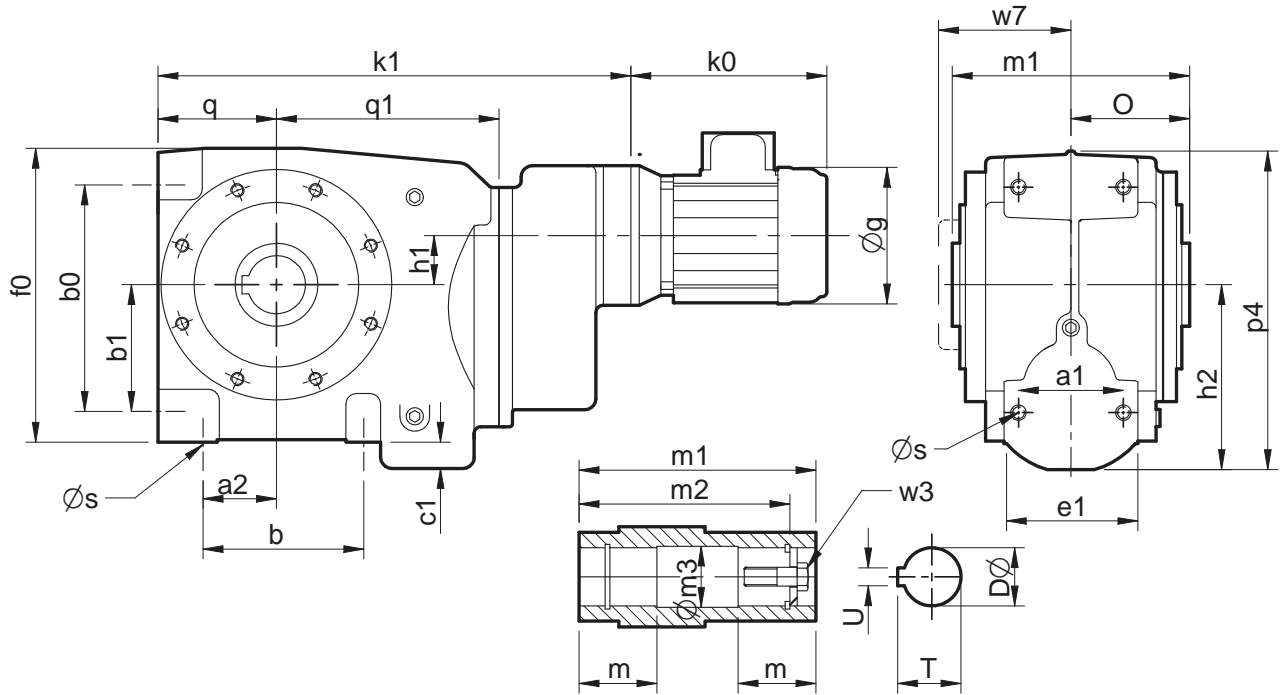
Size	s	s1	w7	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0721	0.71	M20, 1.34 deep	4.92	2.00	3.11	8.58	7.40	2.38	2.23	0.50	$\frac{5}{8}$ " UNF x 3.00
C0821	0.87	M20, 1.34 deep	5.63	2.375	3.54	9.84	8.66	2.78	2.66	0.625	$\frac{3}{4}$ " UNF x 3.00
C0921	1.02	M24, 1.77 deep	6.65	2.75	4.23	11.81	10.43	3.56	3.04	0.625	$\frac{3}{4}$ " UNF x 4.25
C1021	1.02	M24, 1.77 deep	7.80	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

NEMA Motor	k0 (max)	g	C0721	C0821	C0921	C1021
			k1	k1	k1	k1
56c	12.00	6.13	16.34	20.16	-	-
143Tc / 145Tc	12.00	7.13	16.34	20.16	-	-
182Tc / 184Tc	15.50	8.50	16.69	20.16	22.01	25.59
213Tc / 215Tc	16.50	10.19	16.69	20.16	22.01	25.59
254Tc / 256Tc	20.00	12.50	16.61	20.16	23.39	26.77
284Tc / 286Tc	23.35	15.56	-	-	23.50	26.89
324Tc / 326Tc	25.25	16.94	-	-	24.17	27.52

SERIES C

DIMENSIONS

TRIPLE REDUCTIONS



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0331	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	1.21	3.13	2.44	5.83	2.13	4.29
C0431	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.83	3.66	2.56	6.61	2.52	4.69
C0531	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.91	4.41	2.76	7.87	2.68	5.28
C0631	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	1.18	5.49	3.54	9.57	3.54	6.65

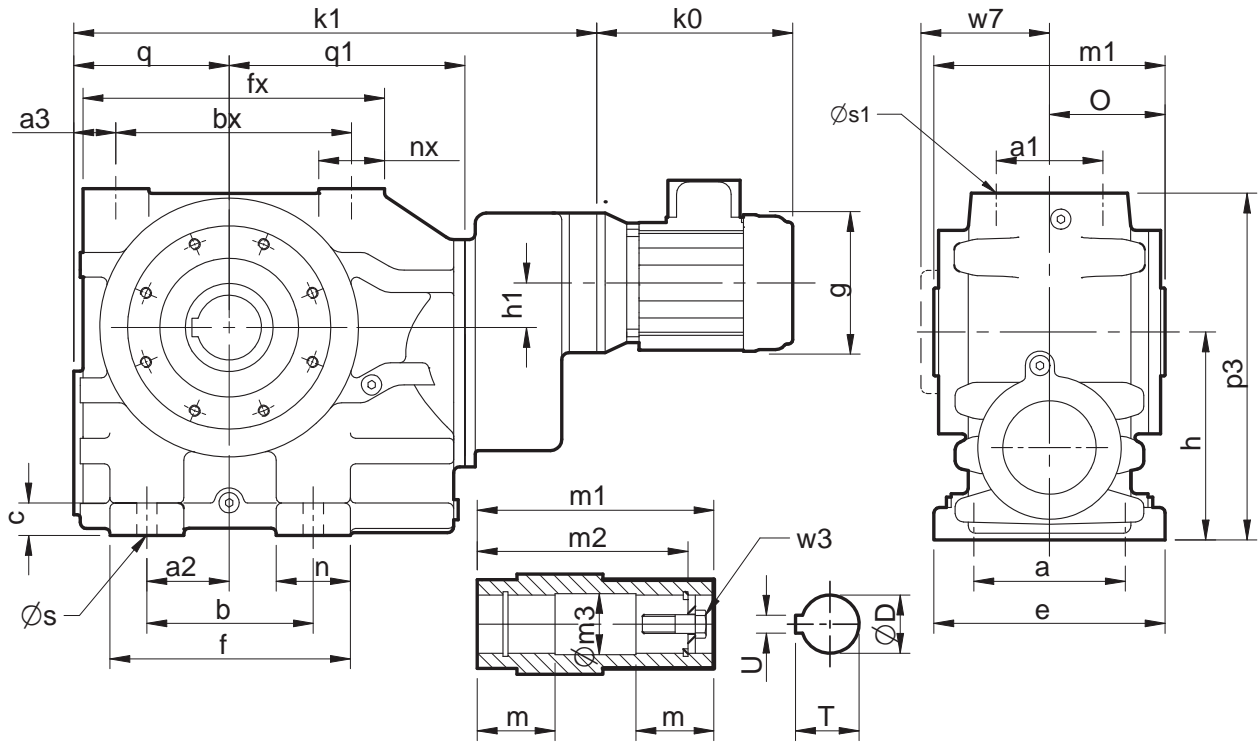
Size	s	w7	Hollow Output Bore							
			D	m	m1	m2	m3	T	U	w3
C0331	M8, 0.59 deep	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0431	M10, 0.79 deep	2.93	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0531	M10, 0.71 deep	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0631	M12, 0.79 deep	3.98	1.50	2.76	7.09	6.14	1.78	1.67	0.375	5/8" UNF x 2.75

NEMA Motor	k0 (max)	g	C0331	C0431	C0531	C0631
			k1	k1	k1	k1
56c	12.00	6.13	11.18	11.97	12.72	15.35
143Tc / 145Tc	12.00	7.13	11.18	11.97	12.72	15.35
182Tc / 184Tc	15.50	8.50	10.87	11.65	12.40	15.04

SERIES C

DIMENSIONS

TRIPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o	p3	q	q1
C0731	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	7.09	1.34	2.64	2.48	4.29	11.89	5.63	8.66

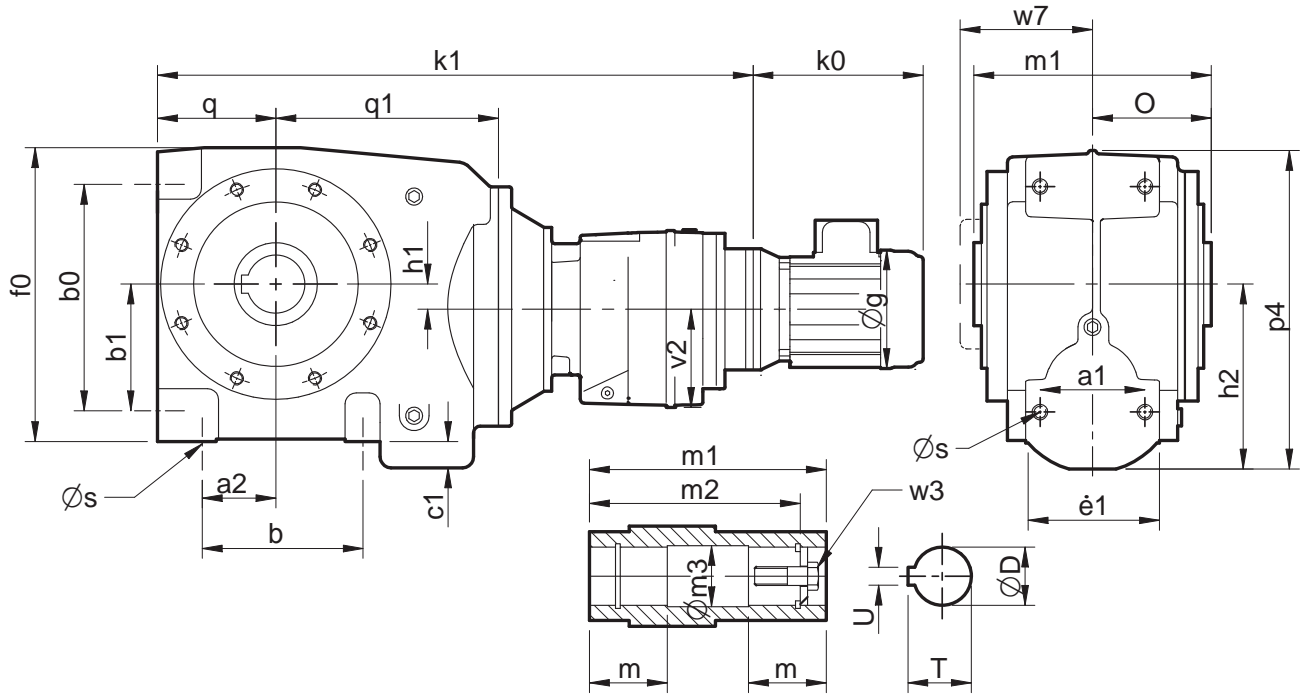
Size	s	s1	w7	Hollow Output Bore								
				D	m	m1	m2	m3	T	U	w3	
C0731	0.71	M20, 1.34 deep	4.92	2.0	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00	

NEMA Motor	k0 (max)	g	C0731
			k1
56c	12.00	6.13	19.65
143Tc / 145Tc	12.00	7.13	19.65
182Tc / 184Tc	15.50	8.50	20.63
213Tc / 215Tc	16.50	10.19	20.63

SERIES C

DIMENSIONS

QUADRUPLE REDUCTIONS



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o	p4	q	q1
C0341	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	0.21	3.13	2.44	5.83	2.13	4.29
C0441	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.59	3.66	2.56	6.61	2.52	4.69
C0541	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.51	4.41	2.76	7.87	2.68	5.28
C0641	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	0.67	5.49	3.54	9.57	3.54	6.65

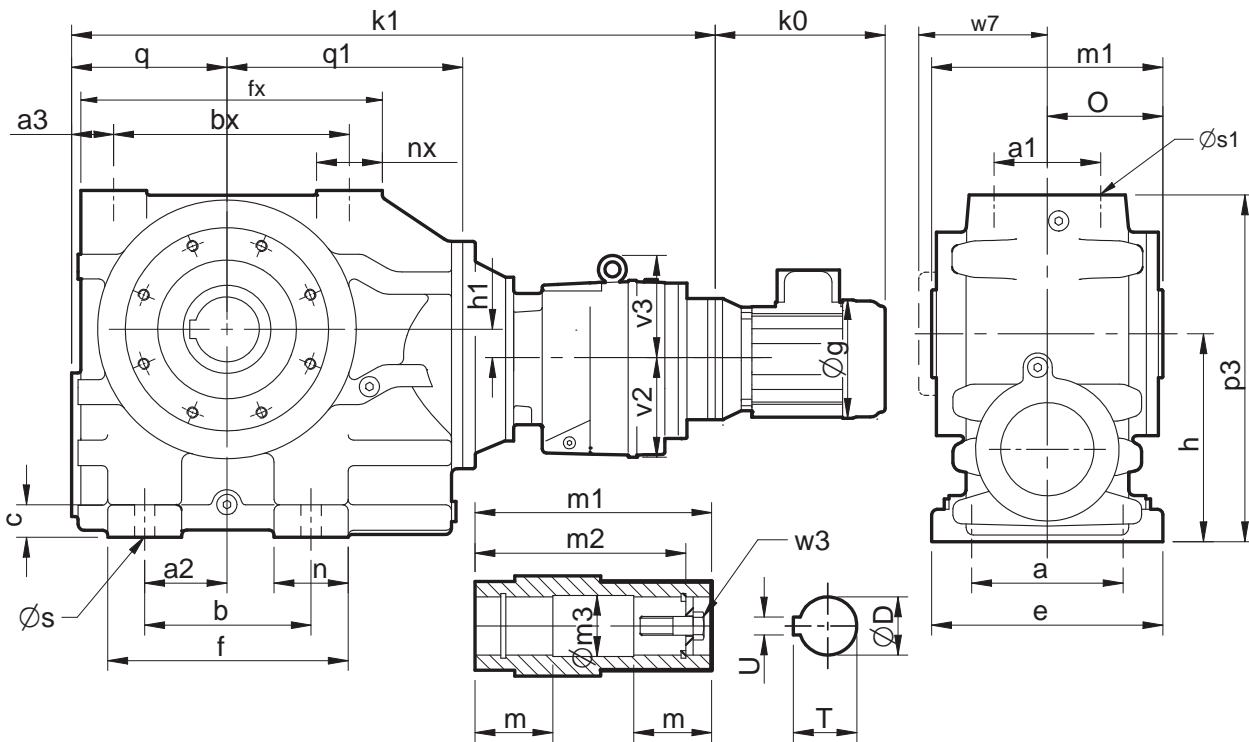
Size	s	v2	w7	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0341	M8, 0.59 deep	2.99	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0441	M10, 0.79 deep	2.99	2.93	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0541	M10, 0.71 deep	2.99	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0641	M12, 0.79 deep	3.58	3.98	1.50	2.76	7.09	6.14	1.78	1.67	0.375	5/8" UNF x 2.75

NEMA Motor	k0 (max)	g	C0341	C0441	C0541	C0641
			k1	k1	k1	k1
56c	12.00	6.13	16.30	17.09	17.83	20.71
143Tc / 145Tc	12.00	7.13	16.30	17.09	17.83	20.71
182Tc / 184Tc	15.50	8.50	15.98	16.77	17.52	20.39

SERIES C

DIMENSIONS

QUADRUPLE REDUCTION



SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	nx	o	p3	q	q1
C0741	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	4.09	1.02	2.64	2.48	4.29	11.89	8.66
C0841	7.87	4.72	3.62	1.69	7.09	9.84	1.38	9.84	10.24	12.83	8.86	1.10	3.15	2.80	4.92	14.76	10.04
C0941	9.84	5.31	4.53	1.97	9.25	11.42	1.57	12.01	12.60	14.96	11.02	1.57	3.35	3.35	5.91	17.99	11.81
C1041	11.81	5.91	6.69	2.46	12.20	13.58	1.77	14.17	16.54	18.11	13.19	2.56	4.33	4.21	6.89	22.24	13.98

SIZE	s	s1	v2	v3	w7	Hollow Output Bore							
						D	m	m1	m2	m3	T	U	w3
C0741	0.71	M20, 1.34 deep	3.58	-	4.92	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0841	0.87	M20, 1.34 deep	4.53	-	5.63	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0941	1.02	M24, 1.77 deep	4.53	-	6.65	2.75	4.23	11.81	10.43	3.56	3.04	0.625	3/4" UNF x 4.25
C1041	1.02	M24, 1.77 deep	5.51	6.10	7.80	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

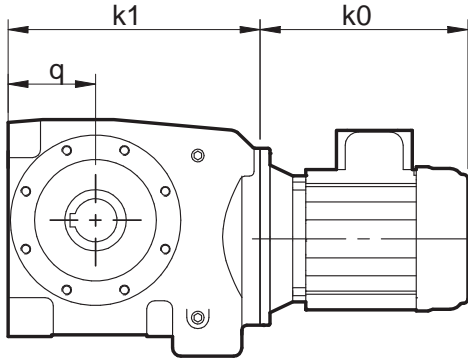
NEMA Motor Frame Size	k0 (max)	g	C0741	C0841	C0941	C1041
			k1	k1	k1	k1
56c	12.00	6.13	24.84	28.27	31.54	48.77
143Tc / 145Tc	12.00	7.13	24.84	28.27	31.54	48.77
182Tc / 184Tc	15.50	8.50	24.53	29.25	32.52	52.63
213Tc / 215Tc	16.50	10.19	-	29.25	32.52	52.63

SERIES C

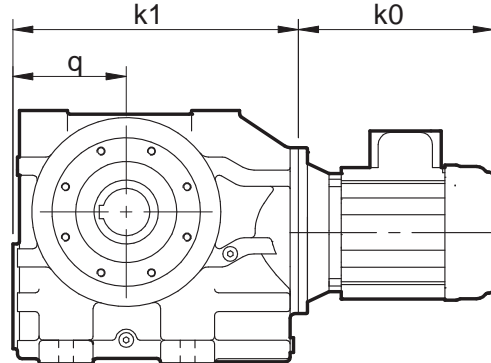
DIMENSIONS

UNITS WITH COMPACT MOTOR

Double Reduction Units



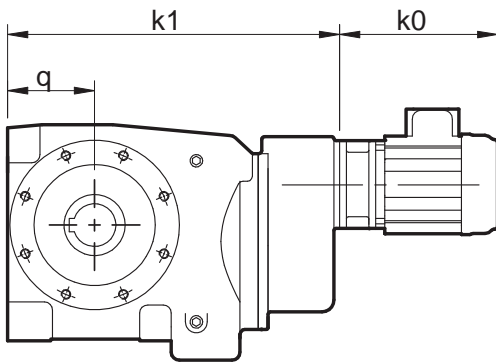
C0321 - C0621



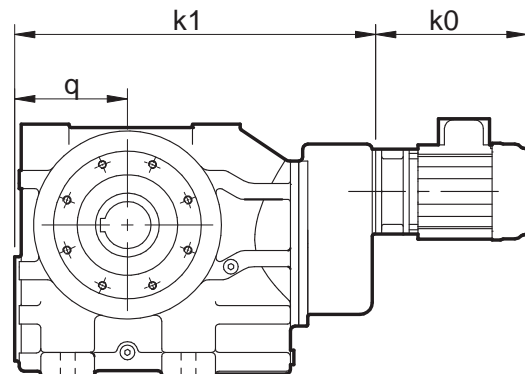
C0721 - C0821

Size	C0321				C0421			C0521			C0621			C0721			C0821			
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	
0.33 HP	5.51	6.42	9.06	2.13	7.20	9.06	2.52	7.95	9.06	2.68	-	-	-	-	-	-	-	-	-	-
0.50 HP	5.51	6.42	9.06	2.13	7.20	9.06	2.52	7.95	9.06	2.68	-	-	-	-	-	-	-	-	-	-
0.75 HP	6.22	6.42	11.02	2.13	7.20	11.02	2.52	7.95	11.02	2.68	10.20	10.43	3.54	-	-	-	-	-	-	-
1.0 HP	6.22	6.42	11.81	2.13	7.20	11.81	2.52	7.95	11.81	2.68	10.20	11.22	3.54	-	-	-	-	-	-	-
1.5 HP	7.09	6.42	12.99	2.13	7.20	12.99	2.52	7.95	12.99	2.68	10.20	12.40	3.54	14.29	11.81	5.75	-	-	-	-
2.0 HP	7.09	6.42	14.37	2.13	7.20	14.37	2.52	7.95	14.37	2.68	10.20	13.78	3.54	14.29	13.19	5.75	-	-	-	-
3.0 HP	7.80	-	-	-	-	-	-	-	-	-	10.20	13.98	3.54	14.29	13.39	5.75	16.65	13.19	6.61	6.61
4.0 HP	7.80	-	-	-	-	-	-	-	-	-	10.20	14.37	3.54	14.29	13.78	5.75	16.65	13.78	6.61	6.61
5.5 HP	8.74	-	-	-	-	-	-	-	-	-	10.20	16.69	3.54	14.29	16.14	5.75	16.65	15.75	6.61	6.61
7.5 HP	10.31	-	-	-	-	-	-	-	-	-	10.20	19.49	3.54	14.29	18.90	5.75	16.65	18.70	6.61	6.61
10 HP	10.31	-	-	-	-	-	-	-	-	-	-	-	-	14.29	18.90	5.75	16.65	18.70	6.61	6.61

Triple Reduction Units



C0331 - C0631



C0731 - C0831

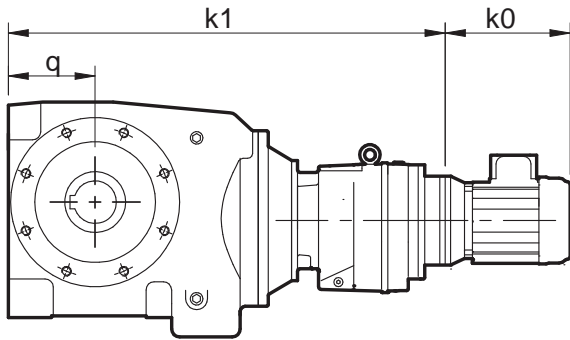
Size	C0331				C0431			C0531			C0631			C0731		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.33 HP	5.51	8.62	9.06	2.13	9.41	9.06	2.52	10.16	9.06	2.68	12.80	9.06	3.54	-	-	-
0.50 HP	5.51	8.62	9.06	2.13	9.41	9.06	2.52	10.16	9.06	2.68	12.80	9.06	3.54	-	-	-
0.75 HP	6.22	8.62	11.42	2.13	9.41	11.02	2.52	10.16	11.02	2.68	12.80	11.02	3.54	17.68	10.43	5.63
1.0 HP	6.22	8.62	11.81	2.13	9.41	11.81	2.52	10.16	11.81	2.68	12.80	11.81	3.54	17.68	11.22	5.63
1.5 HP	7.09	8.62	12.99	2.13	9.41	12.99	2.52	10.16	12.99	2.68	12.80	12.99	3.54	17.68	12.40	5.63
2.0 HP	7.09	8.62	14.37	2.13	9.41	14.37	2.52	10.16	14.37	2.68	12.80	14.37	3.54	17.68	13.78	5.63
3.0 HP	7.80	-	-	-	-	-	-	-	-	-	-	-	-	17.68	13.98	5.63
4.0 HP	7.80	-	-	-	-	-	-	-	-	-	-	-	-	17.68	14.37	5.63
5.5 HP	8.74	-	-	-	-	-	-	-	-	-	-	-	-	17.68	16.69	5.63
7.5 HP	10.31	-	-	-	-	-	-	-	-	-	-	-	-	17.68	19.49	5.63

SERIES C

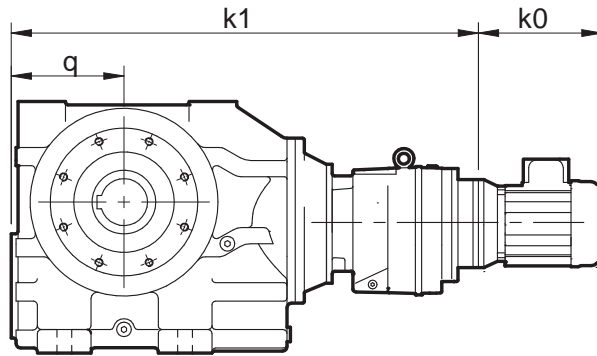
DIMENSIONS

UNITS WITH COMPACT MOTOR

Quadruple Reduction Units



C0341 - C0641



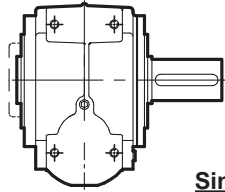
C0741 - C0841

Size	C0341				C0441			C0541			C0641			C0741		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.33 HP	5.51	13.74	9.06	2.13	14.53	9.06	2.52	15.28	9.06	2.68	18.15	9.06	3.54	22.28	9.06	5.63
0.50 HP	5.51	13.74	9.06	2.13	14.53	9.06	2.52	15.28	9.06	2.68	18.15	9.06	3.54	22.28	9.06	5.63
0.75 HP	6.22	13.74	11.02	2.13	14.53	11.02	2.52	15.28	11.02	2.68	18.15	11.02	3.54	22.28	11.02	5.63
1.0 HP	6.22	13.74	11.81	2.13	14.53	11.81	2.52	15.28	11.81	2.68	18.15	11.81	3.54	22.28	11.81	5.63

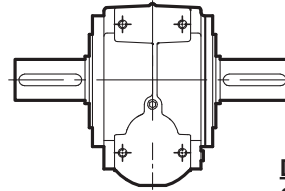
Size	C0841				C0941			C1041		
	g	k1	k0	q	k1	k0	q	k1	k0	q
0.75 HP	6.22	26.30	10.43	6.61	29.57	10.43	7.68	-	-	-
1.0 HP	6.22	26.30	11.22	6.61	29.57	11.22	7.68	-	-	-
1.5 HP	7.09	26.30	12.40	6.61	29.57	12.40	7.68	34.72	11.81	9.25
2.0 HP	7.09	26.30	13.78	6.61	29.57	13.78	7.68	34.72	13.19	9.25
3.0 HP	7.80	26.30	13.98	6.61	29.57	13.98	7.68	34.72	13.39	9.25
4.0 HP	7.80	26.30	14.37	6.61	29.57	14.37	7.68	34.72	13.78	9.25
5.5 HP	8.74	26.30	16.69	6.61	29.57	16.69	7.68	34.72	16.14	9.25
7.5 HP	10.31	26.30	19.49	6.61	29.57	19.49	7.68	34.72	18.90	9.25
10 HP	10.31	-	-	-	-	-	-	34.72	18.90	9.25

SERIES C

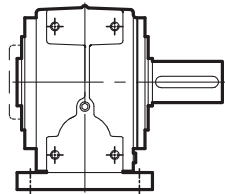
GEAR UNIT OPTIONS



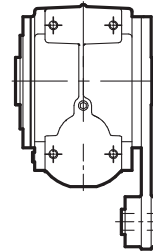
Single Extended Outputshaft



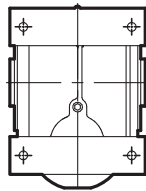
Double Extended Outputshaft



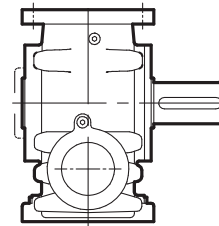
Base Mounted Feet



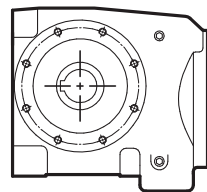
Torque Bracket



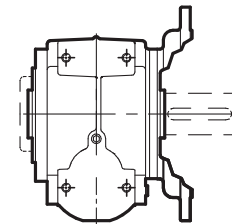
End Mounted Feet



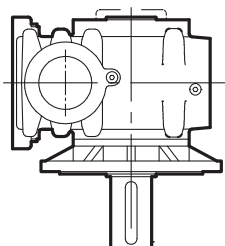
Top Mounted Feet



B14 (C) Flange Mounting



B5 (D) Flange Mounting



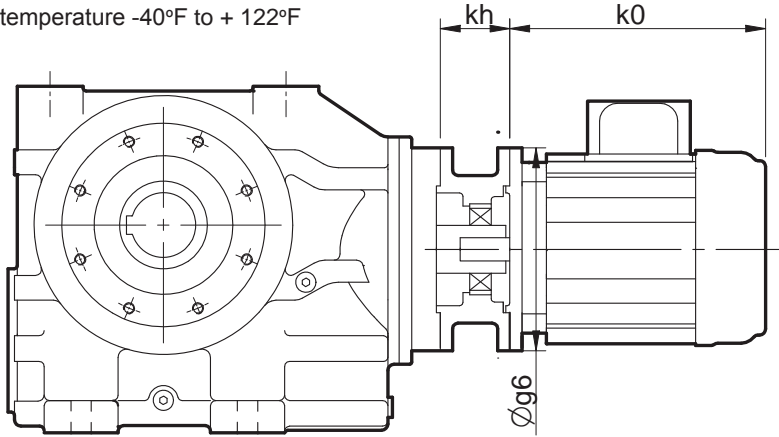
Agitator Units
Non-Standard
Special Build

SERIES C

MOTORIZED BACKSTOP MODULE

Motorized 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 (rev/min). To ensure correct operation motor speed must exceed lift off speed.

Suitable for ambient temperature -40°F to + 122°F



Warning

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

NEMA C FLANGE

Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	øg6	kh
182TC / 184TC	670	2650	9.0	3.75
213TC / 215TC	670	2650	9.0	3.75
254TC / 256TC	620	8300	9.0	4.75
284TC / 286TC	620	8300	11.0	5.37
324TC / 326TC	550	11100	13.0	6.00

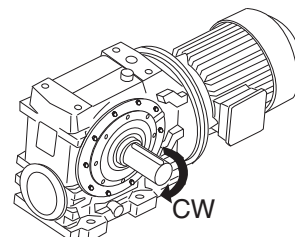
IEC B5 FLANGE

Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	øg6	kh
100	670	1500	9.84	2.76
112	670	1500	9.84	2.76
132	620	8300	11.81	3.74
160	620	8300	13.77	5.12
180	620	8300	13.77	5.12
200	550	11100	15.74	5.12

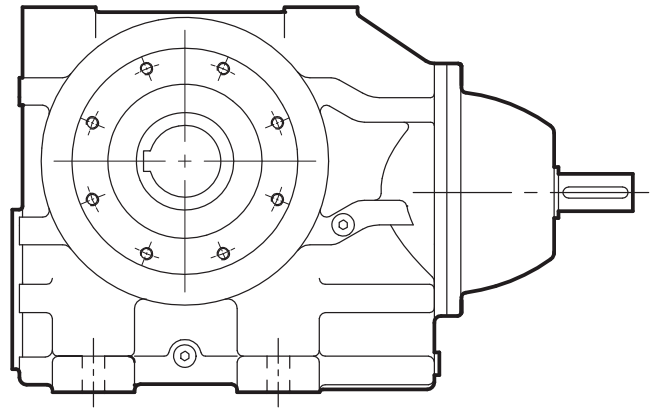
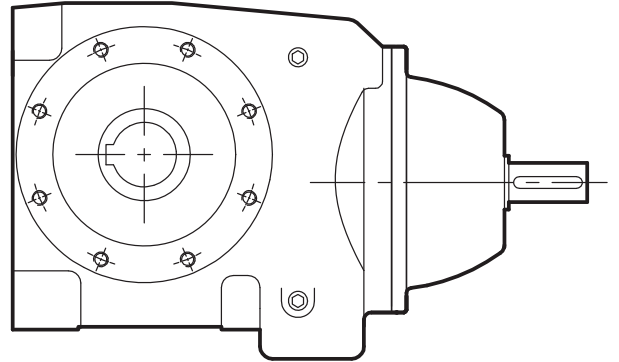
When a backstop module is fitted dimension kh should be added to the overall length of the geared motor assembly.

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 |



SERIES C
REDUCER



REDUCER

SERIES C

SERIES C

OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

Maximum permissible overhung loads

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

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

Overhung load (lbs)

$$P = \frac{HP \times 63,000 \times K}{N \times R}$$

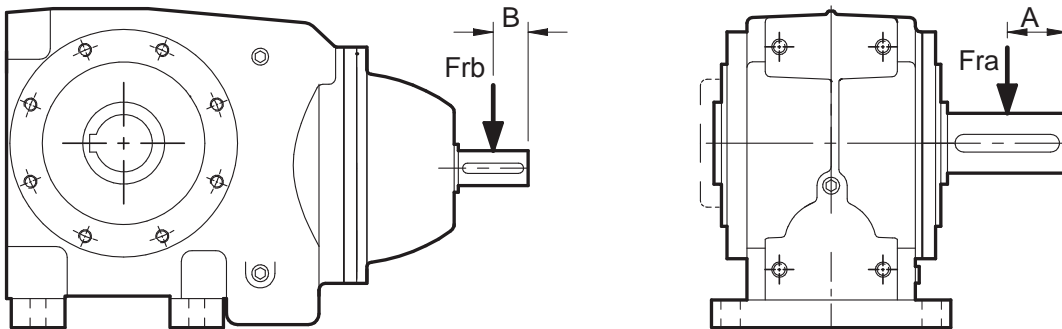
where $N \times R$

- P = equivalent overhung load (lbs)
 HP = power transmitted by the shaft (HP)
 N = speed of shaft (rpm)
 R = pitch radius of sprocket, etc. (in)
 K = factor

Overhung load K (factor)

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

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



Distance midway along the shaft extension

Size of unit	No. of Reductions	Dimension A	Dimension B
C03	2 - 3	0.69	0.79
C04	2 - 3	0.91	0.79
C05	2 - 3	1.18	0.79
C06	2 - 5	1.24	0.79
C07	2	1.50	0.98
C07	3 - 5	1.50	0.79
C08	2	2.36	1.18
C08	4 - 5	2.36	0.79
C09	2	2.66	1.57
C09	4 - 5	2.66	0.79
C10	2	3.35	2.17
C10	4	3.35	0.98
C10	5	3.35	0.79

Inputshaft Overhung Loads, Frb (lbs) 1750 rpm - Two Three and Four Stage Units

	C03	C04	C05	C06	C07	C08	C09	C10
2 Stage	300	300	280	280	400	620	700	800
4 Stage	300	300	300	300	300	300	300	490

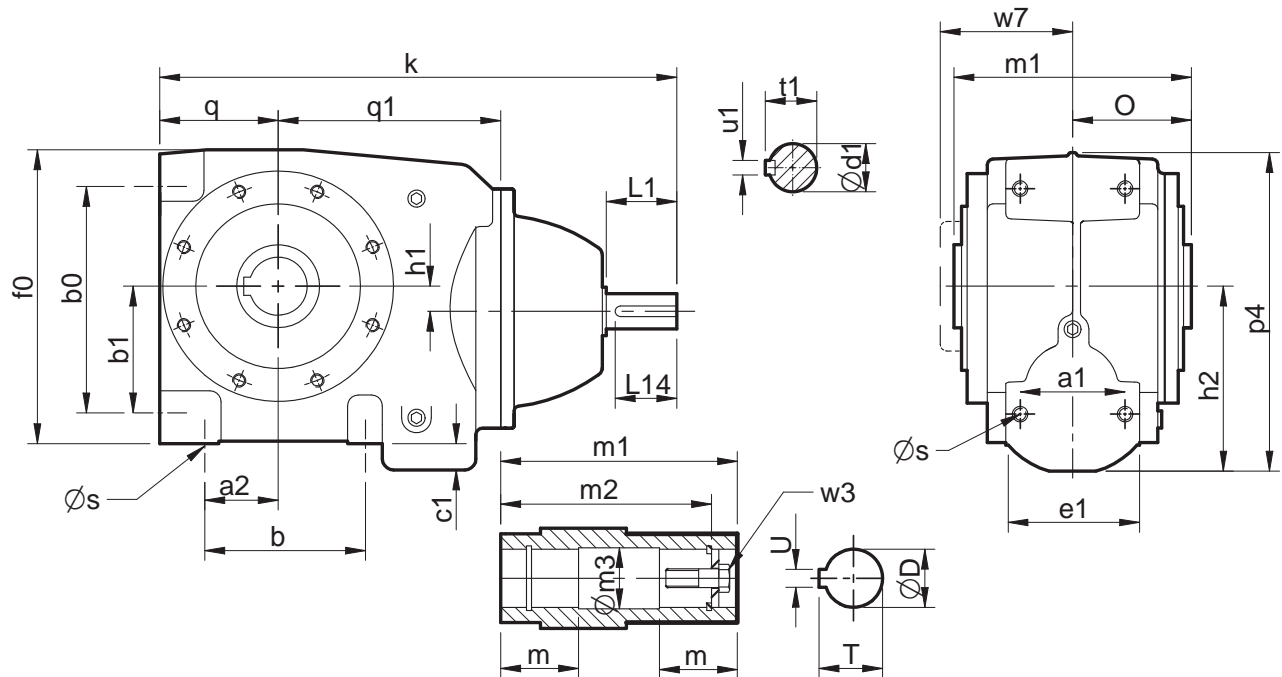
For output overhung load Fra consult ratings tables.

Axial Thrust Capacities (lbs) 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.

SERIES C

DIMENSIONS

DOUBLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0321	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	0.21	3.13	2.44
C0421	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.59	3.66	2.56
C0521	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.51	4.41	2.76
C0621	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	0.67	5.49	3.54

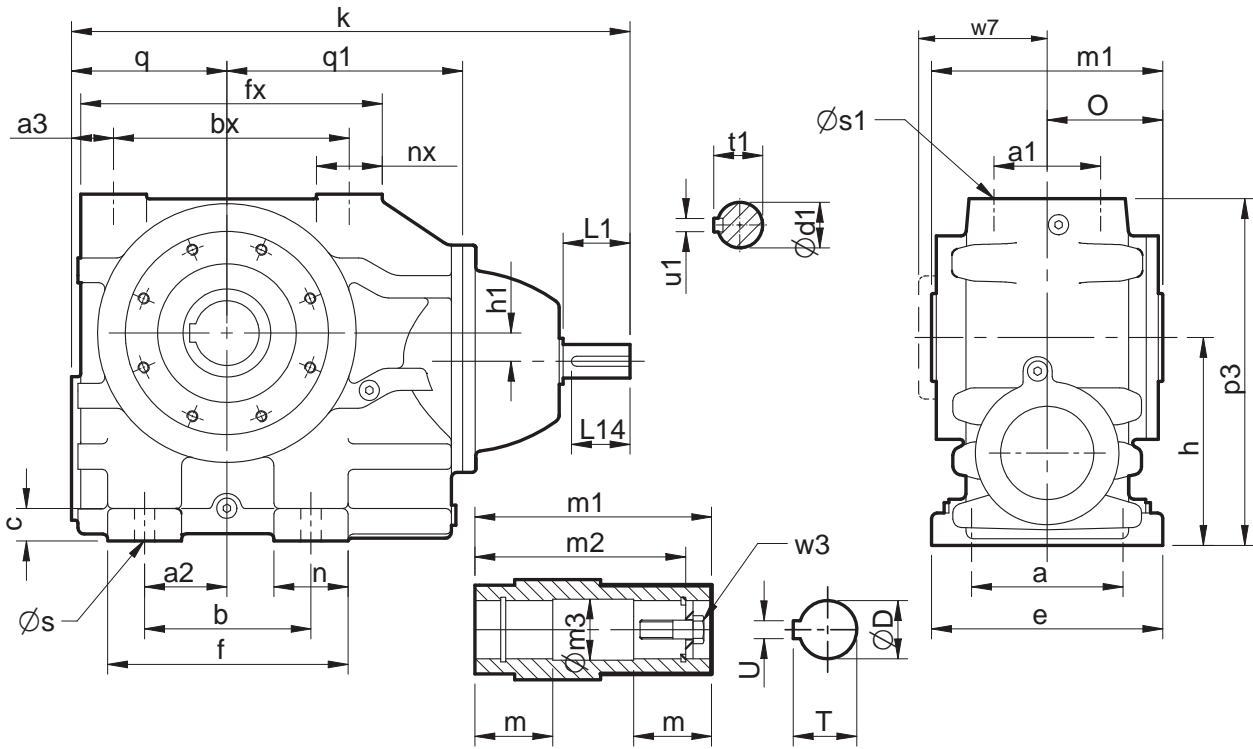
Size	p4	q	q1	s	w7	T2	g6	k
C0321	5.83	2.13	4.29	M8, 0.59 deep	2.76	4.37	5.51	10.79
C0421	6.61	2.52	4.69	M10, 0.79 deep	2.93	4.37	5.51	11.57
C0521	7.87	2.68	5.28	M10, 0.71 deep	3.11	4.37	5.51	12.32
C0621	9.57	3.54	6.65	M12, 0.79 deep	3.98	4.37	7.09	14.57

Size	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0321	0.625	1.57	1.28	0.70	0.188	1/4" UNF	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0421	0.625	1.57	1.28	0.70	0.188	1/4" UNF	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0521	0.625	1.57	1.28	0.70	0.188	1/4" UNF	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0621	0.75	1.57	1.28	0.83	0.188	1/4" UNF	1.50	2.76	7.09	6.14	1.78	1.67	0.375	5/8" UNF x 2.75

SERIES C

DIMENSIONS

DOUBLE REDUCTION



Size	a	a1	a	a3	b2	bx	c	e	f	fx	h	h1	n	nx	o
C0721	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	7.09	1.02	2.64	2.48	4.29
C0821	7.87	4.72	3.62	1.69	7.09	9.84	1.38	9.84	10.24	12.83	8.86	1.10	3.15	2.80	4.92
C0921	9.84	5.31	4.53	1.97	9.25	11.42	1.57	12.00	12.60	14.96	11.02	1.57	3.35	3.35	5.91
C1021	11.81	5.91	6.69	2.46	12.20	13.58	1.77	14.17	16.54	18.11	13.19	2.56	4.33	4.21	6.89

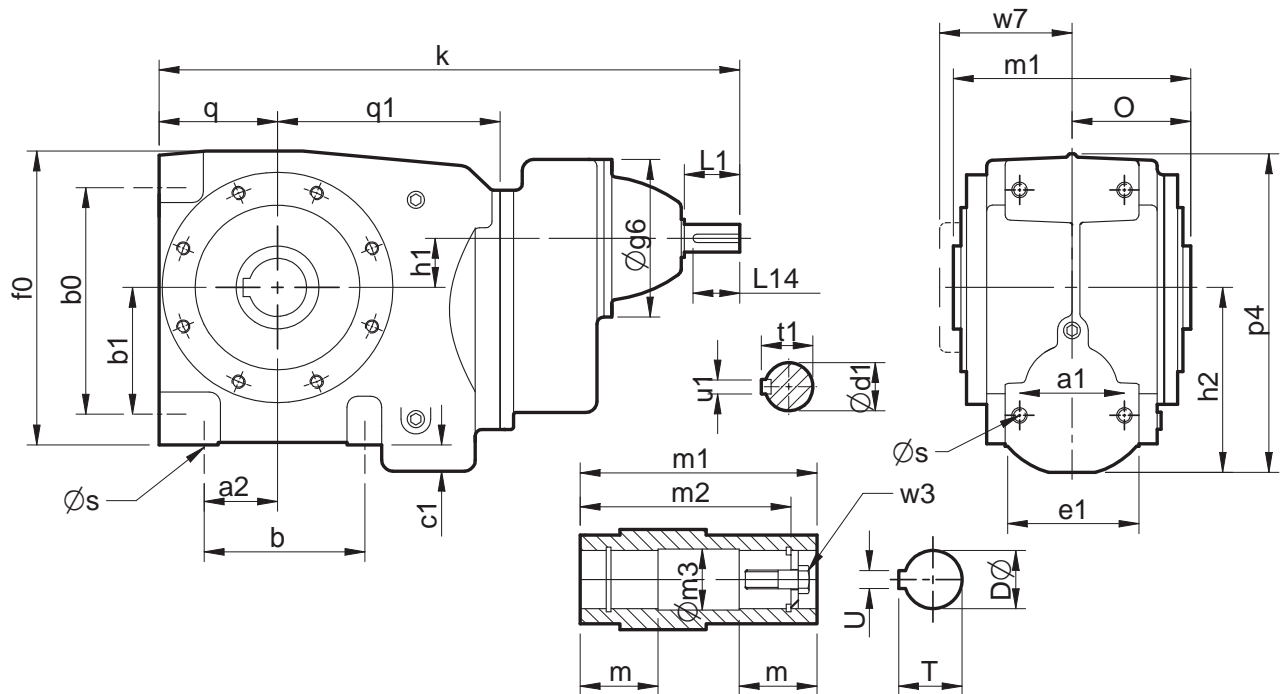
Size	p3	q	q1	s	s1	w7	T2	g6	k
C0721	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.92	4.53	8.35	18.82
C0821	14.76	6.61	10.04	0.87	M20, 1.34 deep	5.63	6.30	9.84	22.95
C0921	17.99	7.68	11.81	1.02	M24, 1.77 deep	6.65	7.68	11.81	27.16
C1021	22.24	9.25	13.98	1.02	M24, 1.77 deep	7.80	9.17	14.17	32.40

Size	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0721	0.875	1.97	1.28	0.96	0.375	5/8" UNF	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0821	1.125	2.36	2.00	1.23	0.625	3/4" UNF	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0921	1.375	3.15	2.40	1.51	0.635	3/4" UNF	2.75	4.23	11.81	10.43	3.56	3.04	0.625	3/4" UNF x 4.25
C1021	1.625	4.33	3.69	1.79	0.875	1" UNF	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

SERIES C

DIMENSIONS

TRIPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	k	o
C0331	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	1.21	3.13	12.99	2.44
C0431	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.83	3.66	13.74	2.56
C0531	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.91	4.41	14.50	2.76
C0631	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	1.18	5.49	17.17	3.54

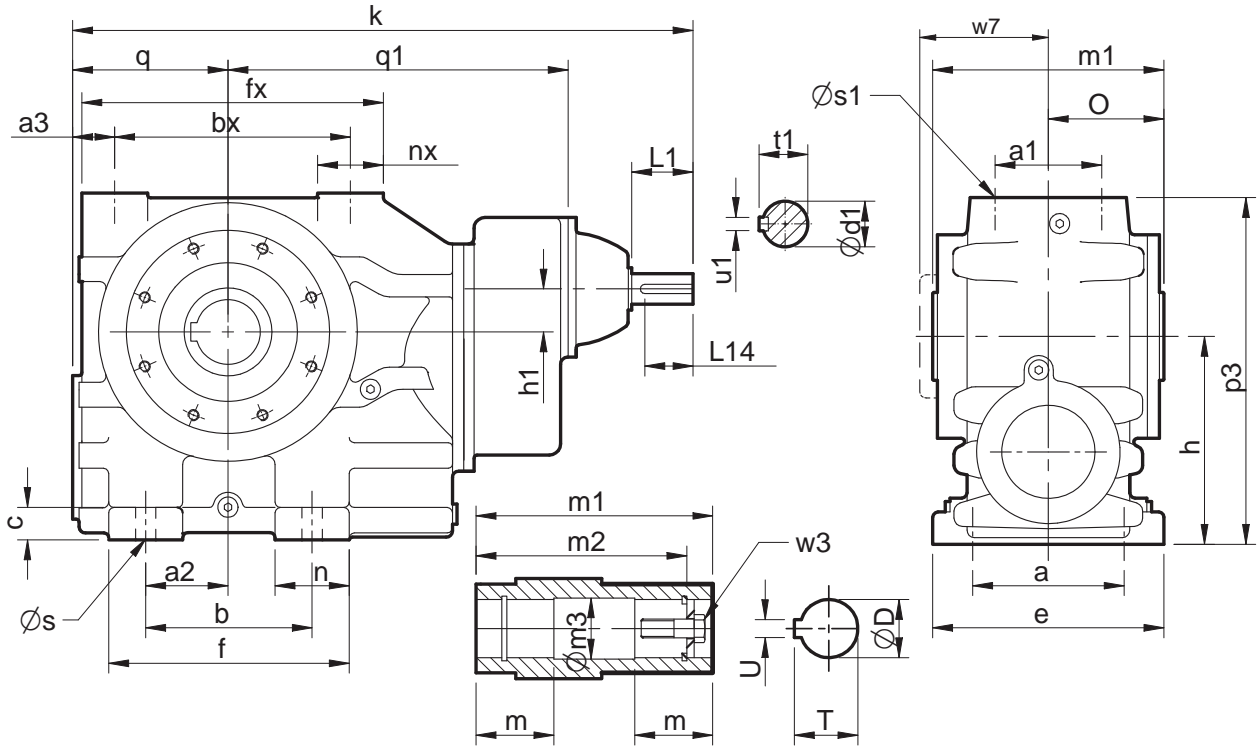
Size	p4	q	q1	s	T2	w7	g6
C0331	5.83	2.13	4.29	M8, 0.59 deep	4.37	2.76	5.51
C0431	6.61	2.52	4.69	M10, 0.79 deep	4.37	2.93	5.51
C0531	7.87	2.68	5.28	M10, 0.71 deep	4.37	3.11	5.51
C0631	9.57	3.54	6.65	M12, 0.79 deep	4.37	3.98	7.09

Size	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0721	0.625	1.57	1.28	0.70	0.188	1/4" UNF	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0821	0.625	1.57	1.28	0.70	0.188	1/4" UNF	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0921	0.625	1.57	1.28	0.70	0.188	1/4" UNF	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C1021	0.75	1.57	1.28	0.83	0.188	1/4" UNF	1.50	2.76	7.09	6.14	1.78	1.67	0.375	5/8" UNF x 2.75

SERIES C

DIMENSIONS

TRIPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	k	n	nx	o
C0731	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	7.09	1.34	22.05	2.64	2.48	4.29

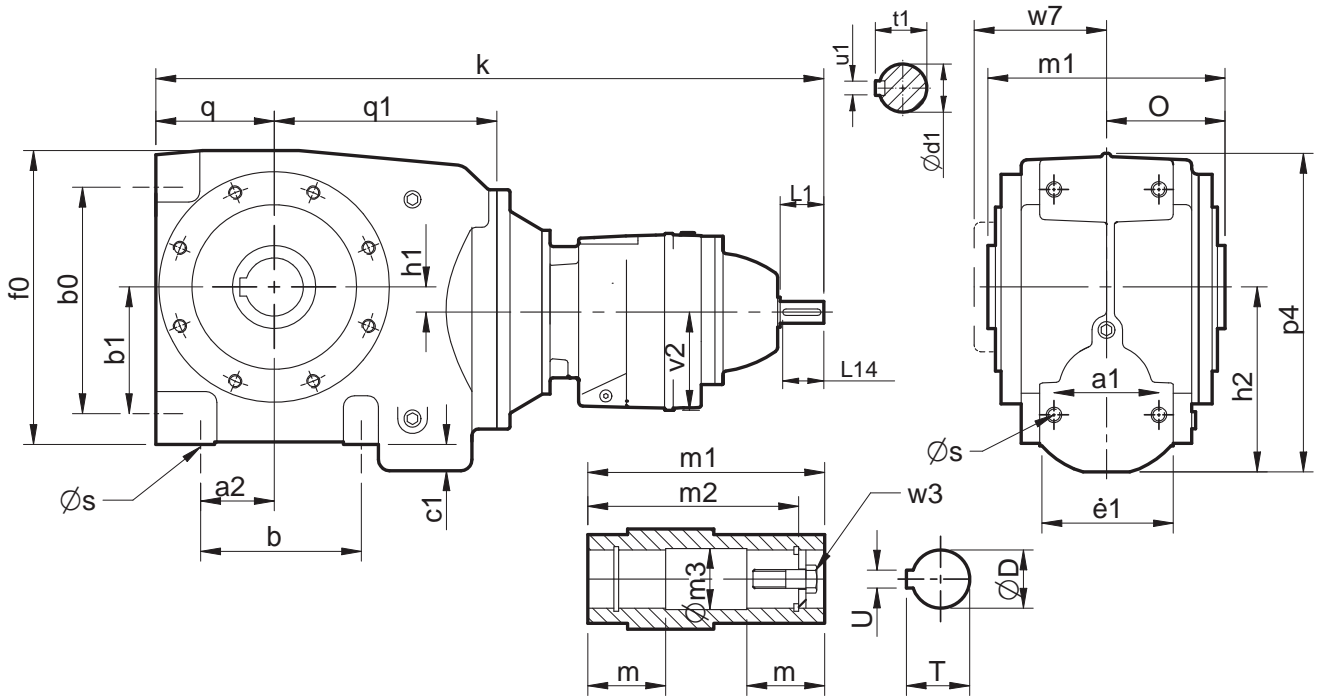
Size	p3	q	q1	s	s1	T2	w7	g6
C0731	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.37	4.92	8.35

SIZE	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t	u1	w1	D	m	m1	m2	m3	T	U	w3
C0731	0.75	1.57	1.28	0.83	0.188	5/8" UNF	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00

SERIES C

DIMENSIONS

QUADRUPLE REDUCTION



Size	a1	a2	b	b0	b1	c1	e1	f0	h1	h2	o
C0341	2.13	1.38	2.48	3.15	1.57	0.35	2.76	5.47	0.21	3.13	2.44
C0441	2.20	1.38	3.15	4.65	2.56	0.28	3.15	6.22	0.59	3.66	2.56
C0541	2.68	1.77	3.94	5.59	3.03	0.63	3.39	6.97	0.51	4.41	2.76
C0641	3.15	2.20	4.80	6.77	3.78	0.79	4.02	8.58	0.67	5.49	3.54

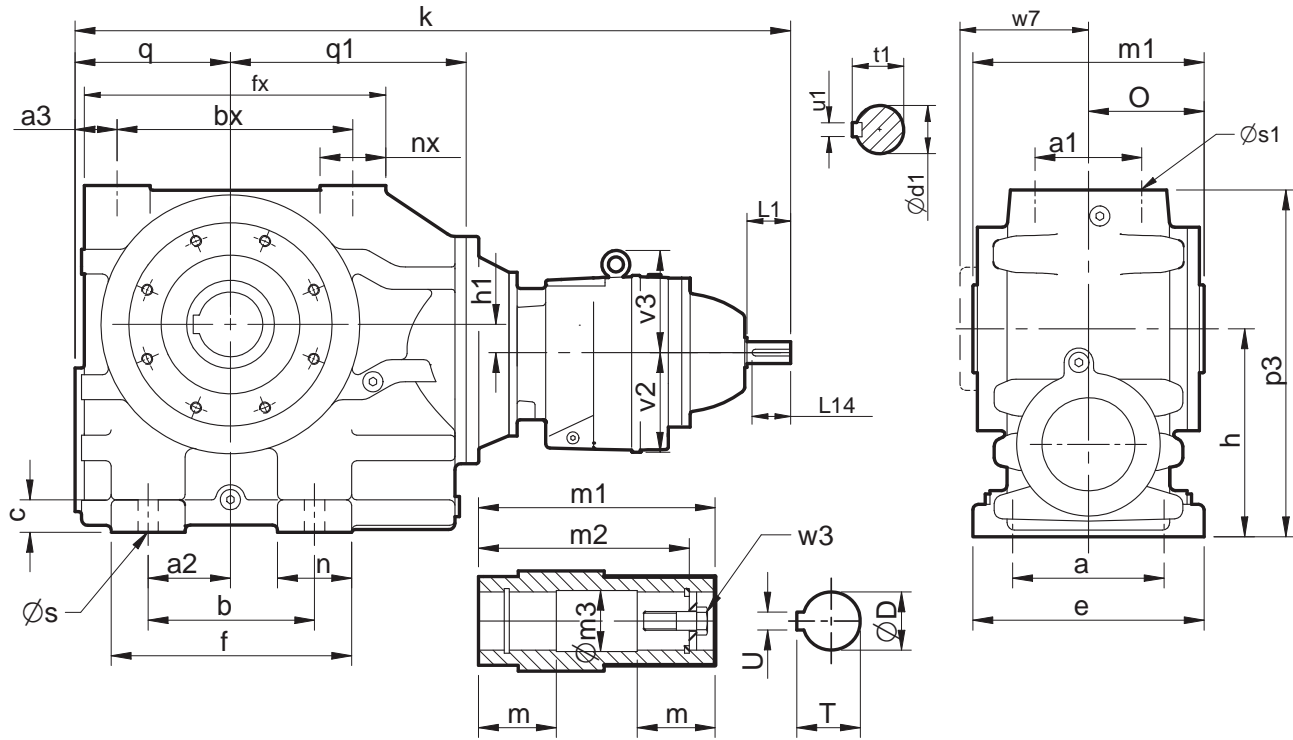
Size	p4	q	q1	s	v2	w7	y	T2	g6	k
C0341	5.83	2.13	4.29	M8, 0.59 deep	2.99	2.76	5.51	4.37	5.51	18.11
C0441	6.61	2.52	4.69	M10, 0.79 deep	2.99	2.93	5.51	4.37	5.51	18.90
C0541	7.87	2.68	5.28	M10, 0.71 deep	2.99	3.11	5.51	4.37	5.51	19.65
C0641	9.57	3.54	6.65	M12, 0.79 deep	3.58	3.98	7.09	4.37	5.51	22.52

Size	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0341	0.625	1.57	1.26	0.70	0.19	1/4" UNF	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0441	0.625	1.57	1.26	0.70	0.19	1/4" UNF	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0541	0.625	1.57	1.26	0.70	0.19	1/4" UNF	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0641	0.625	1.57	1.26	0.70	0.19	1/4" UNF	1.50	2.76	7.09	6.14	1.78	1.67	0.375	5/8" UNF x 2.75

SERIES C

DIMENSIONS

QUADRUPLE REDUCTION



Size	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1	n	nx	o
C0741	5.91	3.94	2.95	1.40	5.31	8.46	1.10	7.28	7.95	11.02	7.09	1.02	2.64	2.48	4.29
C0841	7.87	4.72	3.62	1.69	7.09	9.84	1.38	9.84	10.24	12.83	8.86	1.10	3.15	2.80	4.92
C0941	9.84	5.31	4.53	1.97	9.25	11.42	1.57	12.00	12.60	14.96	11.02	1.57	3.35	3.35	5.91
C1041	11.81	5.91	6.69	2.46	12.20	13.58	1.77	14.17	16.54	18.11	13.19	2.56	4.33	4.21	6.89

Size	p3	q	q1	s	s1	v2	v3	w7	y	T2	g6	k
C0741	11.89	5.63	8.66	0.71	M20, 1.34 deep	3.58	-	4.92	8.35	4.37	5.51	26.65
C0841	14.76	6.61	10.04	0.87	M20, 1.34 deep	4.53	-	5.63	9.84	4.37	7.09	30.91
C0941	17.99	7.68	11.81	1.02	M24, 1.77 deep	4.53	-	6.65	11.81	4.37	7.09	34.17
C1041	22.24	9.25	13.98	1.02	M24, 1.77 deep	5.51	6.10	7.80	14.17	4.53	8.35	39.25

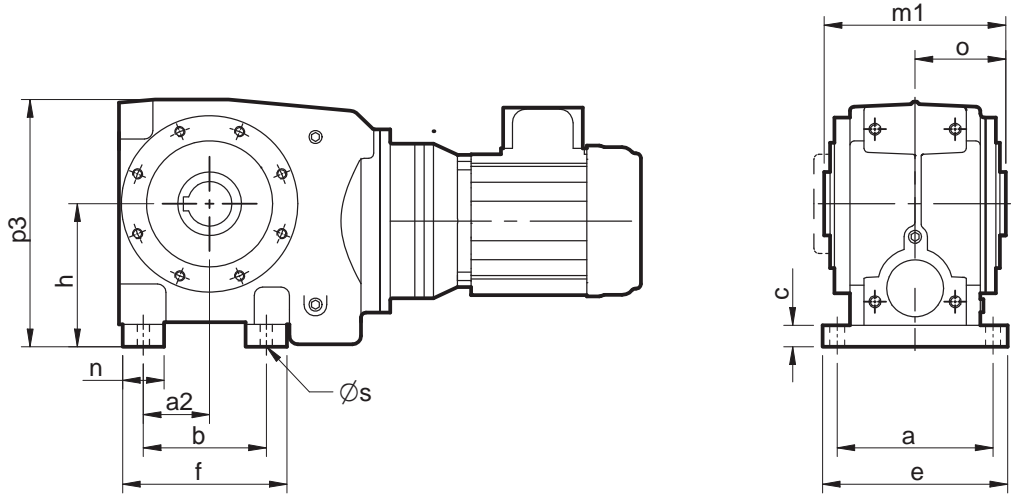
Size	Input Shaft					Hollow Output Bore								
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0741	0.625	1.57	1.28	0.70	0.18	1/4" UNF	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0841	0.75	1.57	1.28	0.83	0.18	5/8" UNF	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0941	0.75	1.57	1.28	0.83	0.18	5/8" UNF	2.75	4.23	11.81	10.43	3.56	3.04	0.675	3/4" UNF x 4.25
C1041	0.875	1.97	1.57	0.96	0.375	3/4" UNF	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

SERIES C

DIMENSIONS - FEET

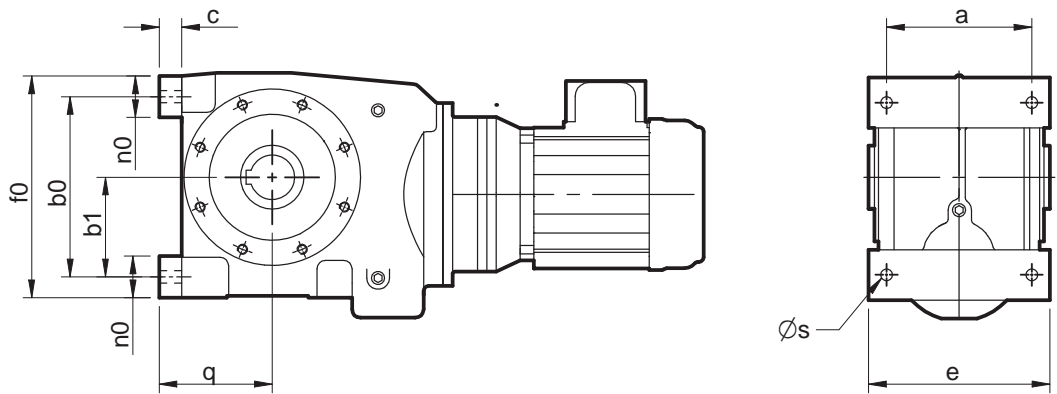
C 0 2 B R

STANDARD UNIT WITH BASE MOUNTED FEET



C 0 2 E R

STANDARD UNIT WITH END MOUNTED FEET



Size	a	b	b0	b1	c	e	f	f0	h	n	n0	p3	q	q2	s
C03	3.54	2.48	3.15	1.57	0.35	4.33	3.46	4.13	3.15	0.98	0.98	5.83	2.48	1.38	0.35
C04	3.93	3.15	4.65	2.56	0.55	4.88	4.53	6.02	3.94	1.38	1.38	6.89	3.07	1.38	0.43
C05	4.33	3.94	5.59	3.03	0.63	5.35	5.51	7.17	4.41	1.57	1.57	7.87	3.31	1.77	0.43
C06	5.12	5.12	7.09	3.94	0.79	6.30	6.77	8.74	5.51	1.97	1.97	9.57	4.33	2.36	0.55

SERIES C

THERMAL POWER RATING

Thermal Ratings HP

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 68°F. 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 (HP)

Overall Ratios	Input Rev/min	Unit Size							
		C03	C04	C05	C06	C07	C08	C09	C10
8 to 14	2900	3.75	5.16	6.29	6.84	Consult our Application Engineers			
	1750	2.66	4.37	6.50	7.07				
	1450	2.32	3.82	5.91	5.98	7.66	12.78	24.41	43.58
	1160	1.94	3.22	5.22	5.24	7.66	12.78	15.42	37.15
	960	1.66	2.82	4.63	4.69	7.66	12.78	15.02	32.99
	725	1.43	2.27	3.62	3.74	7.12	12.10	13.41	27.62
	480	0.99	1.64	2.59	2.67	5.51	9.55	13.21	19.58
	250	0.63	0.84	1.46	1.50	3.16	5.62	7.62	11.05
16 to 28	2900	2.28	3.70	4.12	5.00	Consult our Application Engineers			
	1750	1.72	2.72	4.67	4.73				
	1450	1.46	2.17	4.26	4.29	6.64	9.94	17.30	26.02
	1160	1.23	1.84	3.73	3.75	6.45	9.75	15.82	22.80
	960	1.11	1.69	3.29	3.34	6.01	9.27	13.41	19.98
	725	0.90	1.29	2.64	2.71	5.31	9.27	11.68	16.63
	480	0.63	0.86	2.20	2.23	3.89	6.53	8.72	11.77
	250	0.38	0.47	1.19	1.23	2.33	3.96	5.35	6.61
>28	2900	1.64	2.88	4.29	5.91	9.74	12.93	24.94	48.41
	1750	1.13	1.93	3.15	4.96	7.30	9.86	17.43	31.25
	1450	0.93	1.54	2.75	4.37	6.54	9.82	15.56	26.95
	1160	0.76	1.27	2.31	3.74	5.95	9.47	14.62	22.26
	960	0.68	1.14	2.08	3.26	5.32	8.68	11.75	18.91
	725	0.54	0.89	1.58	2.39	4.73	6.91	9.72	14.75
	480	0.44	0.60	1.17	1.72	3.35	4.96	7.20	10.10
	250	0.24	0.40	0.72	0.94	1.78	3.02	3.98	5.46

Table 2. Thermal service factor Ft

Thermal service factor for ambient temperature

Ambient temperature °F	-22	-4	14	32	50	68	86	104	122
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

SERIES C FAN COOLED UNITS

TABLE 5. THERMAL POWER (HP) WITH COOLING FAN

Overall Ratios	Input Rev/min	Unit Size							
		C03	C04	C05	C06	C07	C08	C09	C10
8 to 14	2900	-	-	-	-	Consult our Application Engineers			
	1750	-	-	-	-				
	1450	-	-	-	-	15.29	25.61	48.81	87.16
	1160	-	-	-	-	14.21	23.60	30.17	70.00
	960	-	-	-	-	13.41	22.39	26.28	57.66
	725	-	-	-	-	10.73	18.10	20.11	41.44
>14	2900	-	-	-	-	Consult our Application Engineers			
	1750	-	-	-	-				
	1450	-	-	-	-	15.02	23.46	41.03	67.85
	1160	-	-	-	-	13.28	19.85	34.60	49.35
	960	-	-	-	-	11.93	17.97	29.23	42.24
	725	-	-	-	-	10.51	16.23	25.08	35.00

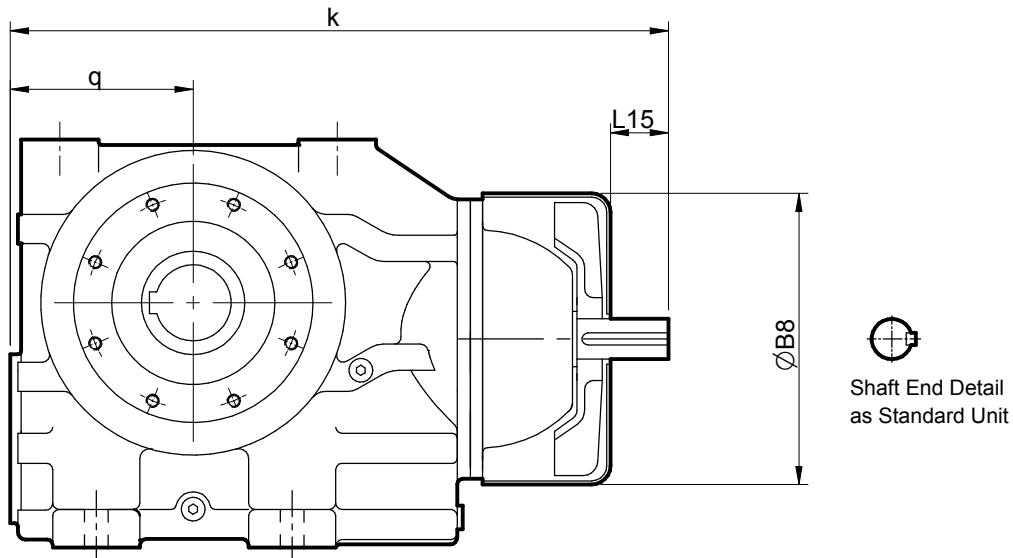
Note: When checking thermal capacities use actual load required to be transmitted, not rating of prime mover.

Column 10 Entry

For reducer fan kit modules enter S in column 10
or if used in conjunction with a reducer backstop module kit

Y CW rotation
Z CCW rotation

Dimensions of Fan Cooled Units



Unit Size	øB8	k	L15	q
C0721	8.86	18.81	1.38	5.63
C0821	10.43	22.95	1.77	6.61
C0921	12.60	27.16	2.56	7.68
C1021	14.96	32.40	3.74	9.25

SERIES C

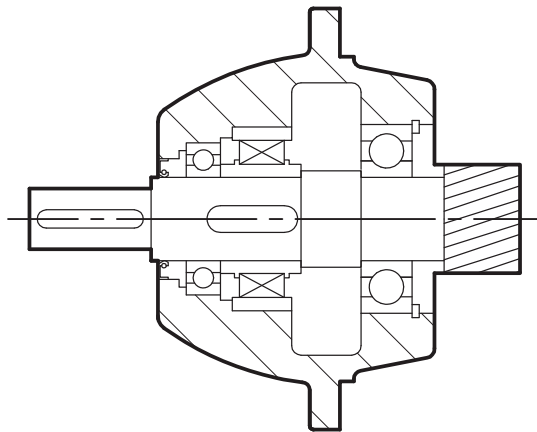
REDUCER BACKSTOP MODULE

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 (rev/min). To ensure correct operation input speed must exceed lift off speed.

Suitable for ambient temperature -40°F to + 122°F

Column 10 Entry

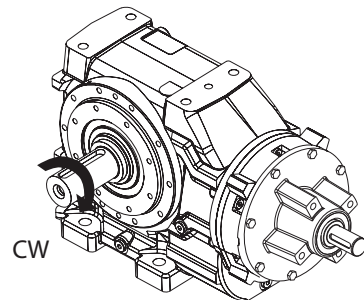
For reducer fan kit modules enter W for CCW rotation (or Z if used in conjunction with a fan kit)
X for CW rotation (or Y if used in conjunction with a fan kit)



Unit Size	Lift off Speed at inputshaft (rev/min)	Rated Locking Torque ('T max') at inputshaft (lb-in)
C0622/C0842/C0941	800	885
C0722/C1041	670	1500
C0822	670	2650
C0921	620	8300
C1021	550	11000

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 |

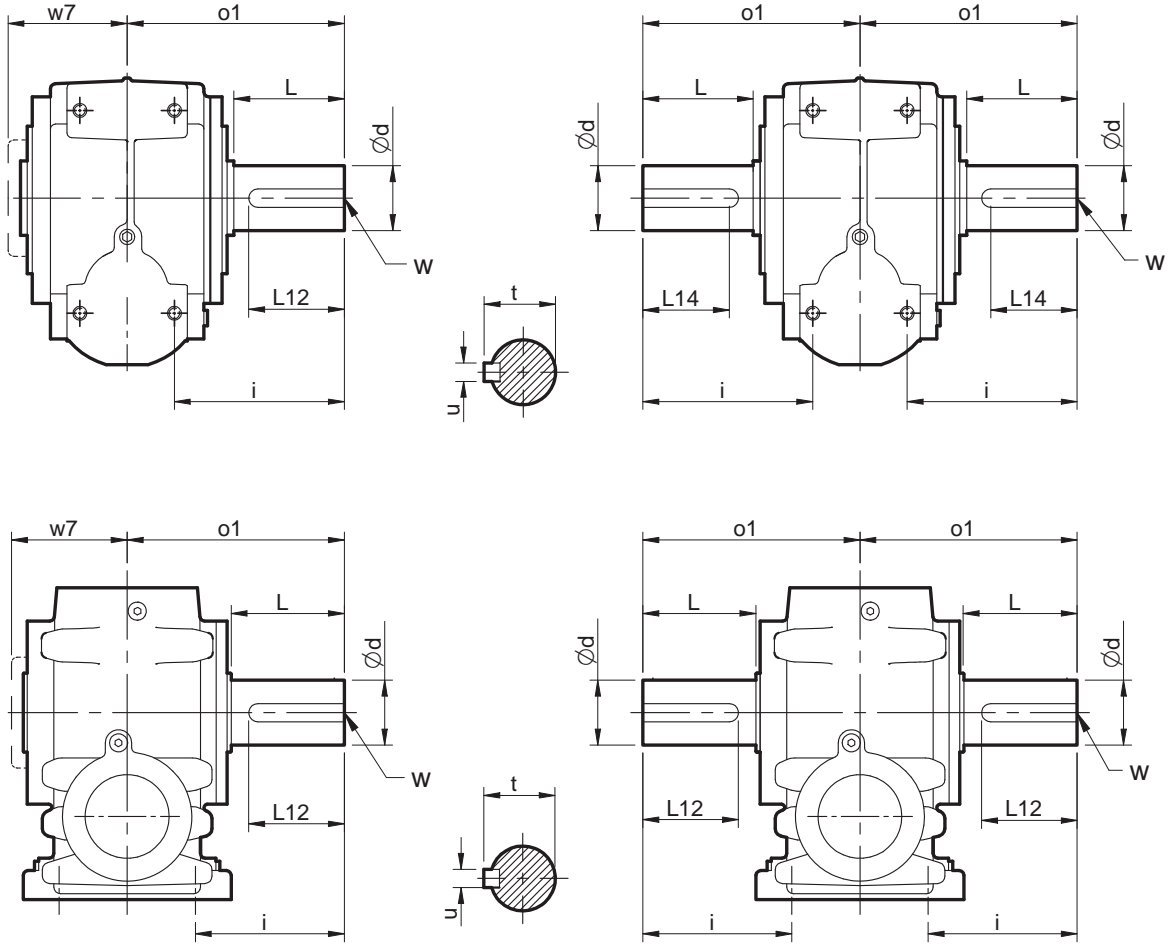


SERIES C

DIMENSIONS

OUTPUTSHAFT OPTIONS

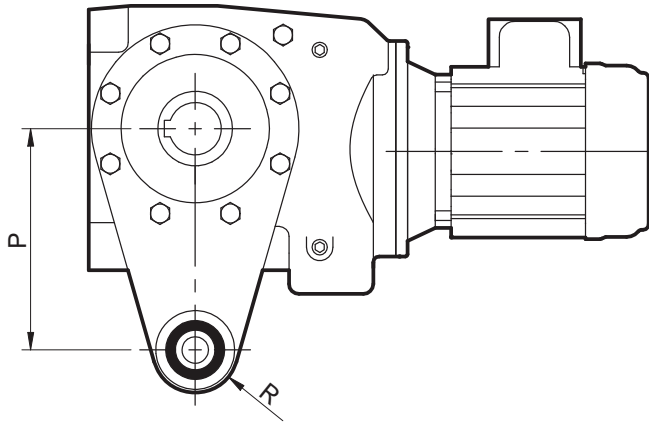
STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION



Size	ød	i	L	L12	o1	t	u	w	w7
C03	0.750/0.749	2.87	1.38	1.28	3.94	0.83	.19	1/4" UNF	2.75
C04	1.000/0.999	3.43	1.81	1.69	4.53	1.10	.25	1/4" UNF	2.95
C05	1.250/1.249	3.94	2.36	2.12	5.27	1.36	.25	3/8" UNF	3.10
C06	1.375/1.374	4.72	2.48	2.34	6.30	1.51	.32	1/2" UNF	4.00
C06 Heavy Duty	1.750/1.749	6.10	3.86	3.75	3.68	1.92	.37	5/8" UNF	4.00
C07	1.750/1.749	4.72	2.99	2.62	7.68	1.92	.37	5/8" UNF	5.00
C08	2.375/2.374	6.10	4.72	4.12	10.04	2.64	.63	3/4" UNF	5.62
C08 Double ext	2.312/2.311	6.10	4.72	4.12	10.04	2.58	.63	3/4" UNF	5.62
C09	2.875/2.874	6.69	5.12	4.50	11.61	3.20	.75	3/4" UNF	6.70
C09 Double ext	2.687/2.686	6.69	5.12	4.50	11.61	2.96	.63	3/4" UNF	6.70
C10	3.625/3.624	8.50	6.69	5.87	14.41	4.00	.87	1" UNF	7.80

SERIES C TORQUE ARM

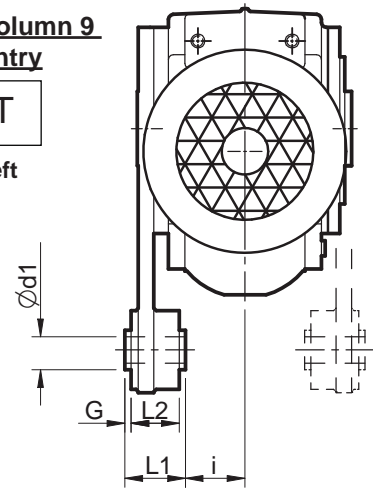
It is recommended that the torque arm is positioned such that it is fitted on the side of the unit adjacent to the driven machine.



**Column 9
Entry**



Left



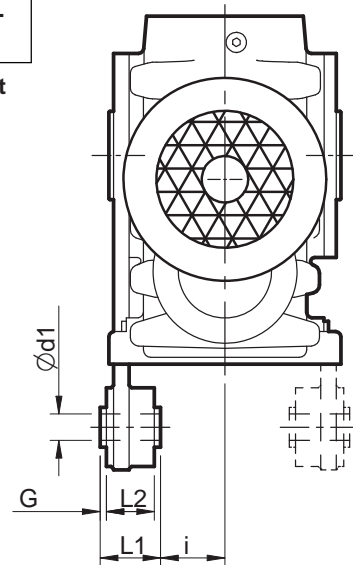
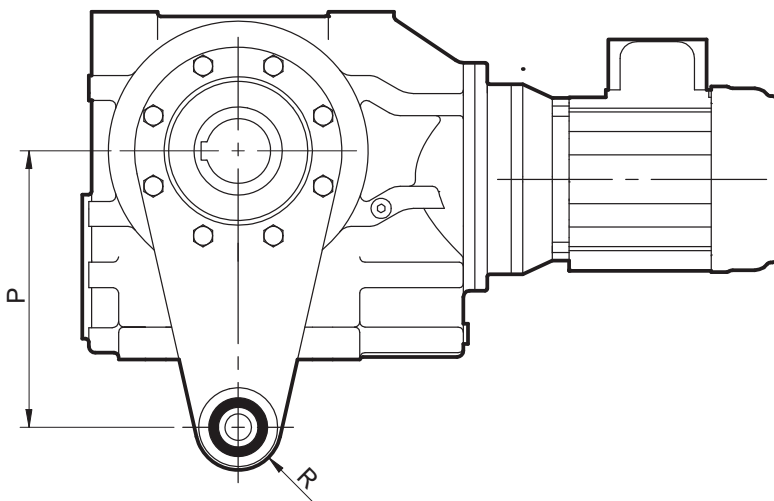
Right

Size	d1	G	i	L1	L2	P	R
C03	0.41	0.08	1.85	1.42	1.26	4.33	0.91
C04	0.41	0.08	2.05	1.42	1.26	5.12	0.91
C05	0.41	0.08	2.05	1.42	1.26	6.30	0.91
C06	0.64	0.08	2.81	1.73	1.26	7.87	1.50

Column 9 Entry



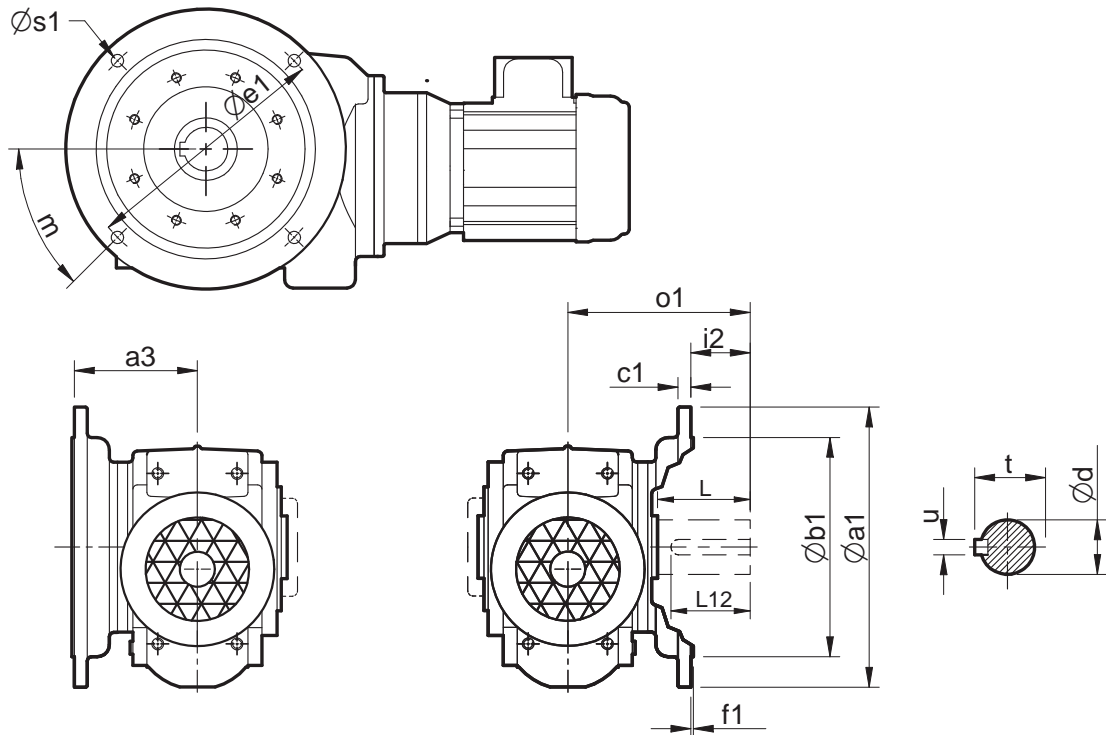
Left



Right

Size	$\phi d1$	G	i	L1	L2	P	R
C07	0.64	0.08	3.05	2.36	2.20	9.84	1.50
C08	0.64	0.08	3.37	2.36	2.20	12.20	1.50
C09	0.98	0.08	3.85	3.15	2.76	14.96	1.79
C10	0.98	0.08	5.39	3.15	2.76	16.93	1.79

SERIES C DIMENSIONS D (B5) FLANGE



Column 9 Entry

F B5 (D) Output Flange on Left

Column 9 Entry

H B5 (D) Output Flange on Right

Size	Øa1	a3	Øb1	c1	Øe1	f1	m	Øs1
C03 Red Dia	4.72	2.95	3.15 j6	0.31	3.94	0.12	45°	0.26
C03	6.30	2.95	4.33 j6	0.40	5.12	0.16	45°	0.35
C04	6.30	3.39	4.33 j6	0.40	5.12	0.14	45°	0.35
C05	7.87	4.21	5.12 j6	0.47	6.50	0.14	45°	0.43
C06	7.87	4.72	5.12 j6	0.47	6.50	0.14	45°	0.43
C07	9.84	5.71	7.09 j6	0.47	8.46	0.16	45°	0.55
C08	13.78	6.69	9.84 h6	0.71	11.81	0.20	45°	0.71
C09	17.72	7.87	13.78 h6	0.79	15.75	0.20	22.5°	0.71
C10	17.72	9.13	13.78 h6	0.87	15.75	0.20	22.5°	0.71

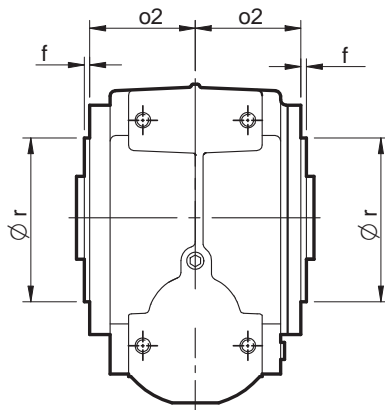
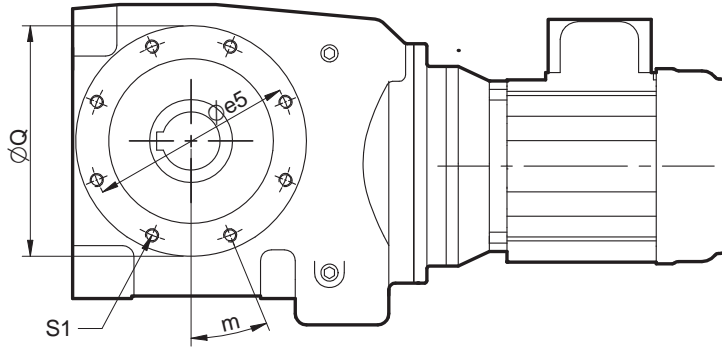
Size	Ød	i 2	L	L12	o	t	u	v
C03	0.750/0.749	0.98	1.38	1.28	3.94	0.83	0.19	1/4" UNF
C04	1.000/0.999	1.14	1.81	1.69	4.53	1.1	0.25	1/4" UNF
C05	1.250/1.249	1.06	2.36	2.12	5.27	1.36	0.25	3/8" UNF
C06	1.375/1.374	1.57	2.48	2.34	6.30	1.51	0.32	1/2" UNF
C06 Heavy Duty	1.750/1.749	2.95	3.86	3.75	7.68	1.92	0.37	5/8" UNF
C07	1.750/1.749	1.97	2.99	2.62	7.68	1.92	0.37	5/8" UNF
C08	2.375/2.374	3.35	4.72	4.12	10.04	2.64	0.63	3/4" UNF
C09	2.875/2.874	3.74	5.12	4.50	11.61	3.20	0.75	3/4" UNF
C10	3.625/3.624	5.28	6.69	5.87	14.41	4.00	0.87	1" UNF

SERIES C

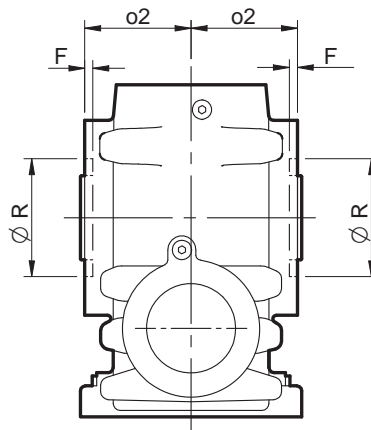
DIMENSIONS

C (B14) FLANGE

C04, C05, C06, C08

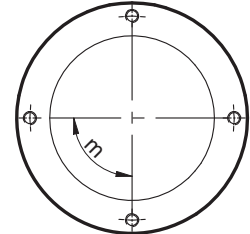


C03 - C06
Male spigot

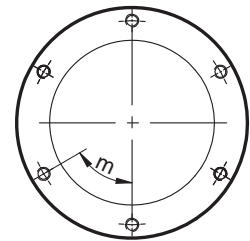


C07 - C10
Female recess

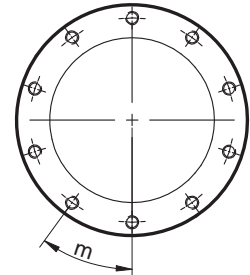
C03



C07, C09



C10



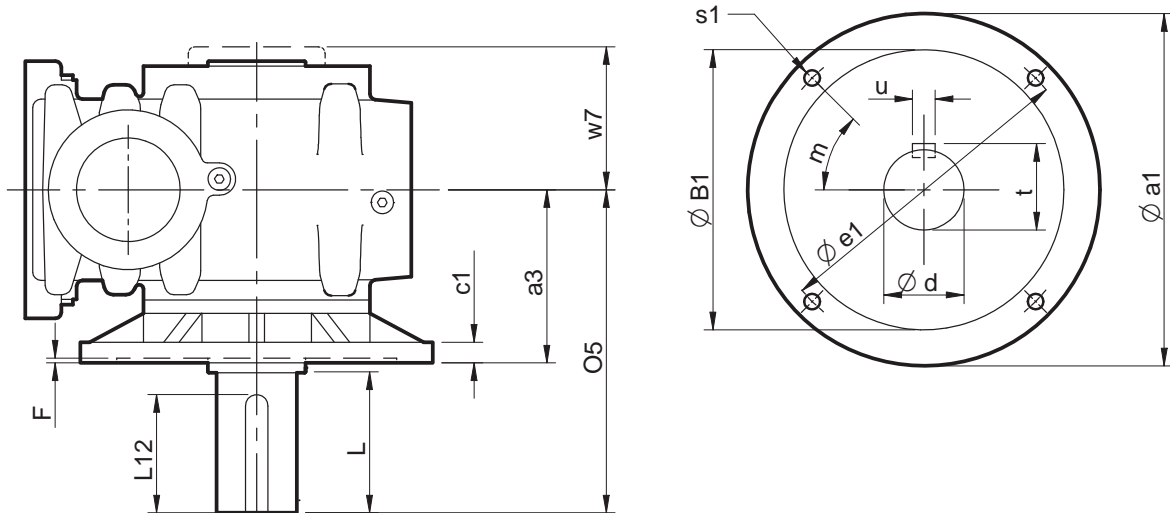
SIZE	øe5	f	F	m	o2	Q	ør (h7)	øR (H7)	S1	F
C03	3.54 pcd	0.16	-	90°	2.24	4.17	2.76	-	4 Holes M8 0.87 Deep	-
C04	4.21 pcd	0.16	-	22.5°	2.24	4.80	3.35	-	8 Holes M8 0.87 Deep	-
C05	5.12 pcd	0.16	-	22.5°	2.44	5.75	4.13	-	8 Holes M8 0.87 Deep	-
C06	6.10 pcd	0.20	-	22.5°	3.19	6.89	4.92	-	8 Holes M8 1.00 Deep	-
C07	5.91 pcd	-	0.18	60°	4.09	7.09	-	5.12	8 Holes M8 0.87 Deep	0.18
C08	7.68 pcd	-	0.20	22.5°	4.72	8.66	-	5.91	8 Holes M8 0.87 Deep	0.20
C09	9.06 pcd	-	0.20	60°	5.67	11.02	-	7.09	8 Holes M8 1.00 Deep	0.20
C10	11.02 pcd	-	0.28	36°	6.57	14.17	-	8.27	8 Holes M8 1.00 Deep	0.28

SERIES C

AGITATOR UNITS

AGITATOR - Non Standard Special Build.

Please consult our Application Engineers



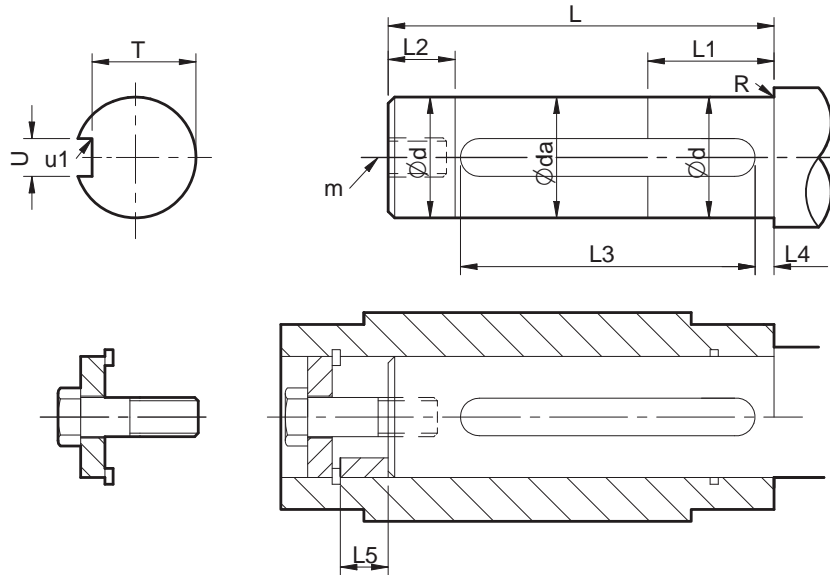
Size	a1	a3	B1 (H7)	c1	d (m6)	e1	F	L	L12	m	O5	S	t	u	w7
C07	11.81	6.30	9.06	0.63	2.50	10.43	0.24	4.92	4.53	45°	11.42	(4) \emptyset 0.60	2.77	0.625	4.92
C08	13.78	7.09	9.84	0.67	3.00	11.81	0.28	5.51	5.12	45°	12.80	(4) \emptyset 0.75	3.33	0.75	5.63
C09	15.75	7.87	11.81	0.79	3.50	13.78	0.28	6.10	5.71	45°	14.17	(4) \emptyset 0.75	3.88	0.875	6.65
C10	17.72	8.35	13.78	0.87	4.00	15.75	0.28	6.89	6.50	22.5°	15.43	(8) \emptyset 0.75	4.44	1.00	7.80

SERIES C

DIMENSIONS

STANDARD BORE ASSEMBLY

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



Size	d	da	L	L1	L2	L3	L4	L5	m	N	R	T	u	u1
C03	0.7497 0.7492	0.73	3.73	1.18	0.40	2.75	0.13	0.87	1/4 UNF	70lb.in	0.03R	0.644 0.638	0.188 0.187	0.03R
C04	1.2486 1.2480	1.23	3.90	1.77	0.60	3.13	0.13	1.02	3/8 UNF	130lb.in	0.03R	1.11 1.10	0.250 0.249	0.03R
C05	1.3746 1.3740	1.36	4.09	2.09	0.71	3.50	0.13	0.91	1/2 UNF	170lb.in	0.03R	1.20 1.19	0.312 0.311	0.03R
C06	1.4996 1.4990	1.48	4.92	2.68	0.91	4.00	0.13	1.22	5/8 UNF	400lb.in	0.03R	1.29 1.28	0.375 0.374	0.03R
C07	2.0000 1.9968	1.98	6.02	3.53	1.18	5.63	0.13	1.50	5/8 UNF	400lb.in	0.05R	1.72 1.71	0.500 0.499	0.05R
C08	2.3750 2.3741	2.35	7.20	4.13	1.38	6.88	0.13	1.46	3/4 UNF	750lb.in	0.05R	2.02 2.01	0.625 0.624	0.05R
C09	2.7500 2.7491	2.73	8.94	5.31	1.77	8.63	0.13	1.28	3/4 UNF	750lb.in	0.05R	2.40 2.39	0.625 0.624	0.05R

For Dimensions for Metric Bore Units - consult Application Engineering

Assembly Instructions

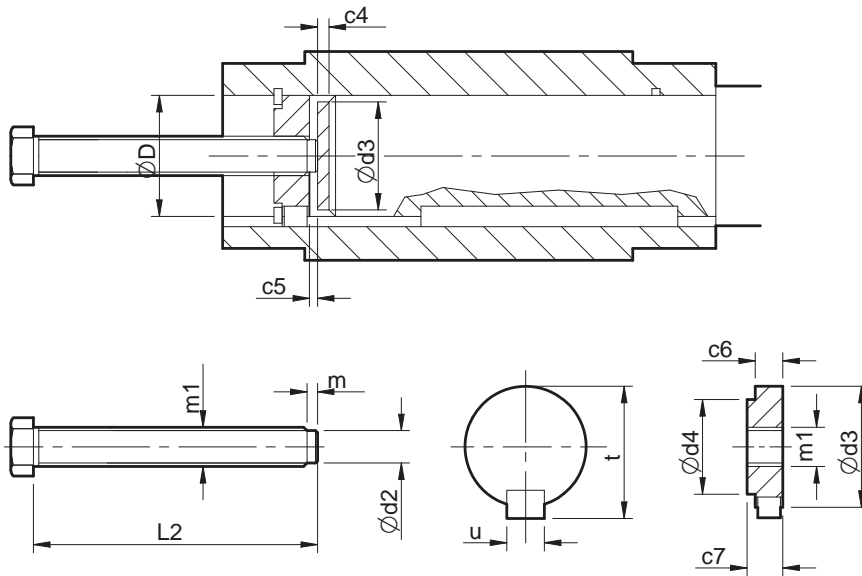
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent anti scuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.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

SERIES C

DIMENSIONS

STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



*PARTS SUPPLIED BY CUSTOMER

Size	c4	c6	c7	D (H7)	d2	d3	d4	l2	m	m1	t	u
C03	0.20	0.40	0.50	0.75	0.3	0.745	0.45	4.75	0.12	3/8" UNF	0.63	0.187
C04	0.20	0.60	0.65	1.25	0.5	1.245	0.88	6.50	0.12	5/8" UNF	1.10	0.25
C05	0.20	0.60	0.65	1.375	0.5	1.370	1.00	6.50	0.12	5/8" UNF	1.19	0.312
C06	0.20	0.80	0.90	1.50	0.85	1.495	1.13	8.75	0.12	1" UNF	1.28	0.375
C07	0.31	1.00	1.10	2.00	1.05	1.995	1.59	10.00	0.20	1 1/4" UNF	1.71	0.500
C08	0.31	1.00	1.10	2.375	1.05	2.370	1.90	12.25	0.20	1 1/4" UNF	2.01	0.625
C09	0.31	1.00	1.10	2.75	1.05	2.745	2.18	14.50	0.20	1 1/4" UNF	2.39	0.625

SERIES C

SHIPPING SPECIFICATION

BASE MOUNT UNITS WITH STANDARD HOLLOW SHAFT

WEIGHT'S (LB's) FOR STANDARD UNITS WITH HOLLOW SHAFT.

For units with Solid Output Shaft - Add the Weight of Shaft

UNIT SIZE AND TYPE		C0321	C0331	C0341	C0421	C0431	C0441	C0521	C0531	C0541	C0621	C0631	C0641	C0721	C0731	C0741	C0821	C0841	C0921	C0941	C1021	C1041		
Reducer Version		25	33	45	34	42	52	42	50	62	76	88	101	163	179	185	260	310	400	460	635	720		
Output Shaft		1			2.2			3.3			7			15			26		41		66			
MOTORIZED UNITS	56C	Without Motor	27	34	44	33	41	53	38	46	64	70	83	97	157	178	183	266	315	-	450	-	820	
		Including Motor	52	59	69	58	66	78	63	71	89	95	108	122	182	203	208	291	340	-	475	-	845	
	143TC	Without Motor	27	34	44	33	41	53	38	46	64	70	83	97	157	178	183	266	315	-	450	-	820	
		Including Motor	57	64	74	63	71	83	68	76	94	100	113	127	187	208	213	296	345	-	480	-	850	
	145TC	Without Motor	27	34	44	33	41	53	38	46	64	70	83	97	157	178	183	266	315	-	450	-	820	
		Including Motor	67	74	84	73	81	93	78	86	104	110	123	137	197	218	223	306	355	-	490	-	860	
	182TC	Without Motor	29	37	-	36	44	-	41	49	-	85	86	-	170	193	-	266	320	396	460	612	825	
		Including Motor	84	92	-	91	99	-	96	104	-	140	141	-	225	248	-	321	375	451	515	667	880	
	184TC	Without Motor	29	37	-	36	44	-	41	49	-	85	86	-	170	193	-	266	320	396	460	612	825	
		Including Motor	106	114	-	113	121	-	118	126	-	162	163	-	247	270	-	343	397	473	537	689	880	
	213TC	Without Motor	-	-	-	-	-	-	-	-	-	85	-	-	170	193	-	266	320	396	460	612	825	
		Including Motor	-	-	-	-	-	-	-	-	-	201	-	-	286	309	-	382	436	512	576	728	941	
	215TC	Without Motor	-	-	-	-	-	-	-	-	-	85	-	-	170	193	-	266	320	396	460	612	825	
		Including Motor	-	-	-	-	-	-	-	-	-	242	-	-	327	-	-	423	477	553	617	769	982	
	254TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	266	-	412	-	631	-	
		Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	453	-	-	549	-	695	-	914	-	
	256TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	170	-	-	266	-	412	-	631	-	
		Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	476	-	-	572	-	718	-	937	-	
	284TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	417	-	636	-	
		Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	846	-	1065	-	
	286TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	417	-	636	-	
		Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	863	-	1082	-	
	324TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	421	-	650	-	
		Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	944	-	1173	-	
326TC	Without Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	421	-	650	-		
	Including Motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1071	-	1300	-		

ALL WEIGHTS IN LB'S 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.

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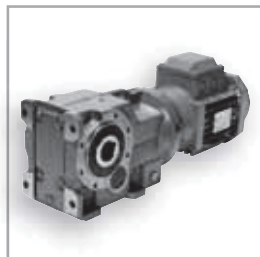
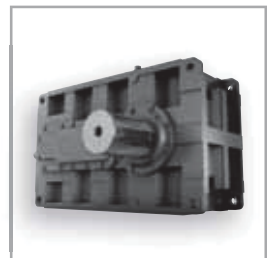
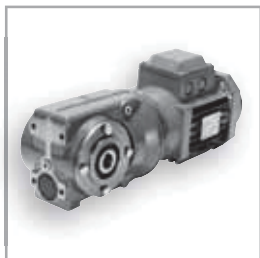
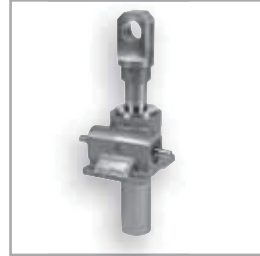
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