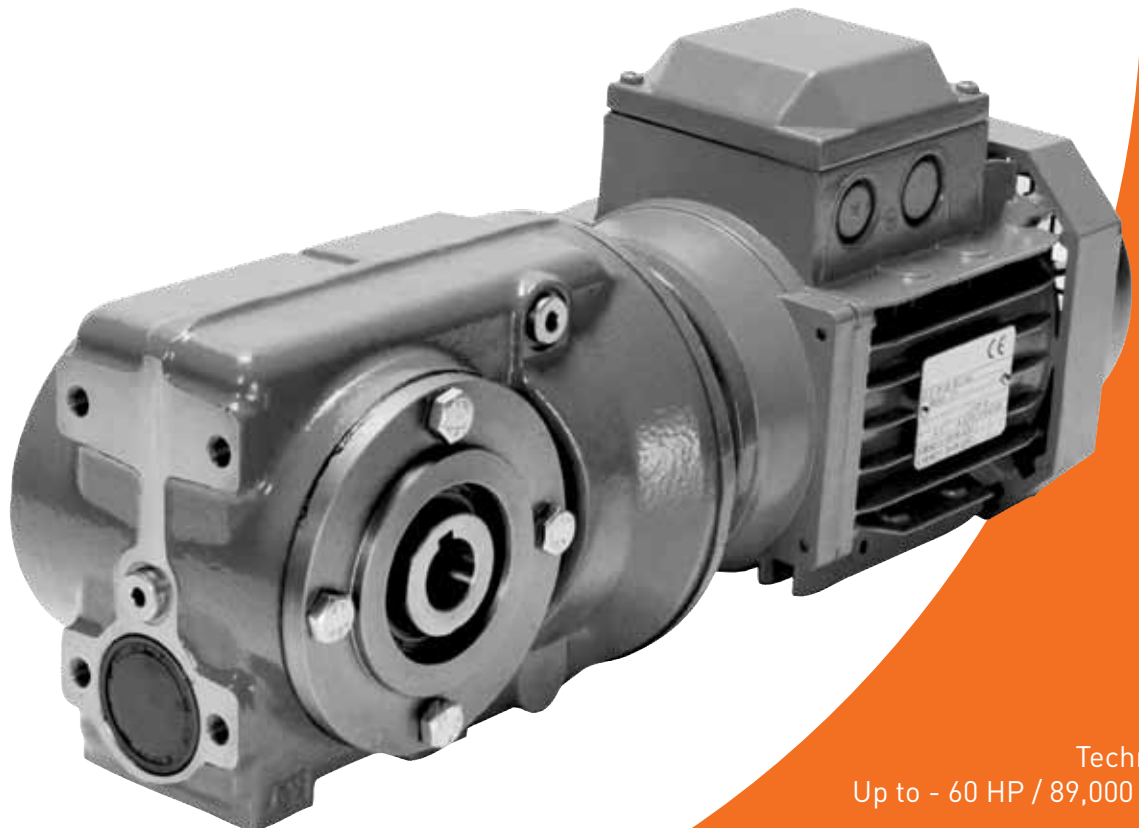


radicon



with you at every turn

Series C Helical Worm

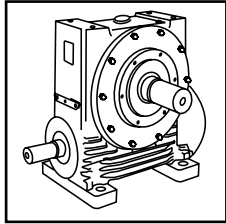


Technical
Up to - 60 HP / 89,000 lb.in

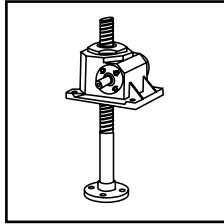
Geared Motors
CC-2.00US1211

PRODUCTS IN THE RANGE

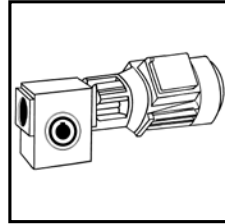
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



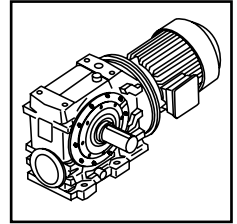
Series A
Worm Gear units
and geared motors
in single & double
reduction types



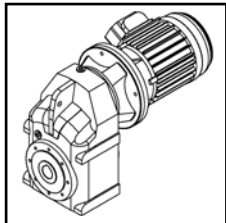
Series BD
Screwjack worm
gear unit



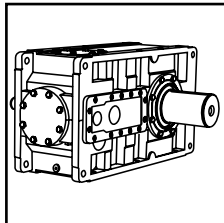
Series BS
Worm gear unit



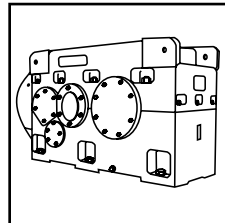
Series C
Right angle drive
helical worm geared
motors & reducers



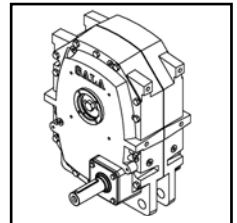
Series F
Parallel angle helical
bevel helical geared
motors & reducers



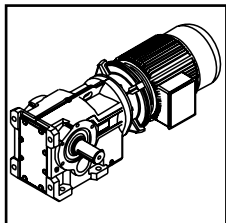
Series G
Helical parallel shaft
& bevel helical right
angle drive gear
units



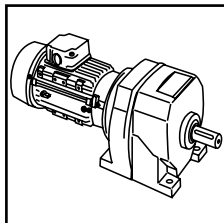
Series H
Large helical parallel
shaft & bevel helical
right angle drive units



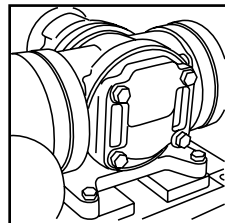
Series J
Shaft mounted
helical speed
reducers



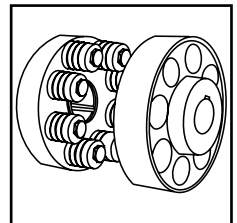
Series K
Right angle helical
bevel helical geared
motors & reducers



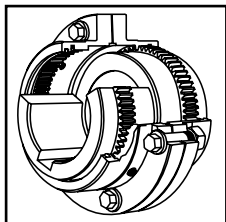
Series M
In-line helical geared
motors & reducers



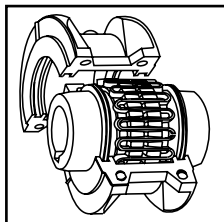
Roloid Gear Pump
Lubrication and fluid
transportation pump



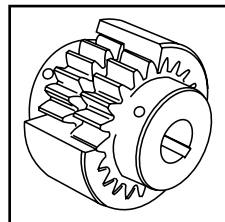
**Series X
Cone Ring**
Pin and bush
elastomer coupling



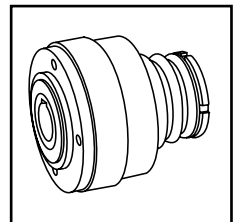
**Series X
Gear**
Torsionally rigid,
high torque coupling



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



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



**Series X
Torque Limiter**
Overload protection
device



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

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

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:

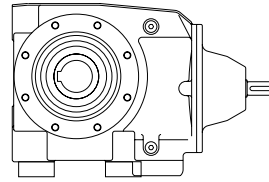
- Unit type M - Motorized with IEC standard motor
- Unit type N - Motorized with NEMA standard motor
- Unit type H - Motorized with high efficiency motor (IE2 or EPACT)
- Unit type E - Motorized with NEMA high efficiency motor (EPACT)
- Unit type G - Unit to allow fitting of customers IEC motor
- Unit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

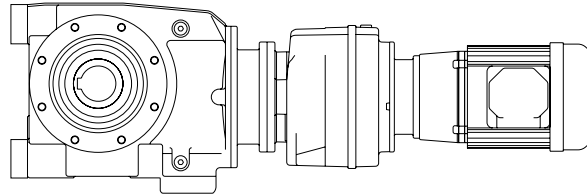
Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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.



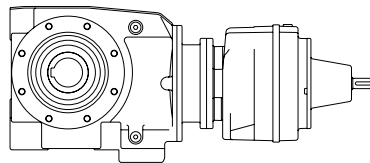
Two stage reduction unit with base mounted feet and hollow output shaft

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



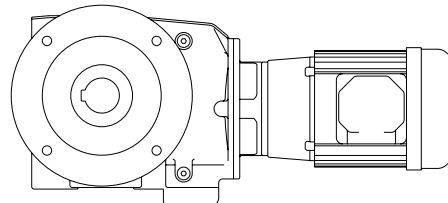
Four stage Motorized unit with end mounted feet and hollow output shaft

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



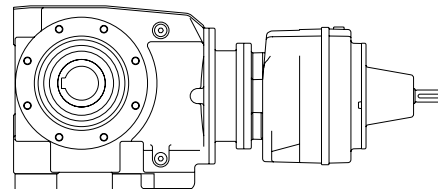
Four stage reduction unit with hollow output shaft

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



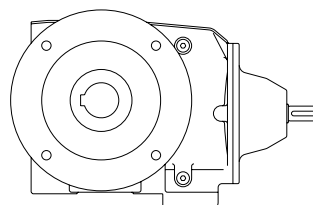
Two stage Motorized unit with output flange and single extension output shaft

* 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

Gearbox Codes										Motor Codes									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
* <input type="text"/>																			
Example: C 0 3 2 1 5 0 . B M C - 1 D . 1 8 A - -																			

1 - Series C
Range

2, 3 - Size of Unit
 Through

4 - No of Reductions
 &

5 - Revision Version
 For Sizes 03 to 10

6,7,8 - Nominal Overall Ratio
E.g.

9 - Unit Version

- Standard Unit (C03 - C06 Only)

- Standard Unit with Base Mounted Feet

- Standard Unit with End Mounted Feet

- Standard Unit with Top Mounted Feet

- Standard Unit with Drywell and Output Flange
For Mounting Position 2 & 3 (Sizes C07 - C10 only)

Std Unit with Output Flange on Left † on Right †

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

Std Unit with Banjo Torque Arm on Left † on Right †

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

10 - Type of Unit

- Motorized with IEC standard motor

- Motorized with NEMA standard motor

- Motorized with IEC high efficiency motor (IE2 or EPACT)

- Motorized with NEMA high efficiency motor (EPACT)

- Unit to allow fitting of IEC motor (non std motor)

- Unit to allow fitting of NEMA motor (non std motor)

- Reducer unit

- Reducer unit with fan kit

- Reducer unit with backstop CCW rotation

- Reducer unit with backstop CW rotation

- Reducer unit with fan and backstop CW rotation

- Reducer unit with fan and backstop CCW rotation

19 - Additional Motor Features
e.g.

For Types Without Motor Enter

18 - No of Motor Features

No motor

	50 Hz	60 Hz
4 Pole (Std) 1500 rpm	<input type="text"/>	<input type="text"/>
4 Pole (High) 1500 rpm	<input type="text"/>	<input type="text"/>
6 Pole (Std) 1000 rpm	<input type="text"/>	<input type="text"/>
6 Pole (High) 1000 rpm	<input type="text"/>	<input type="text"/>
2 Pole 3000 rpm	<input type="text"/>	<input type="text"/>
8 Pole 750 rpm	<input type="text"/>	<input type="text"/>

Dual speed or special motor

15, 16, 17 - Geared Motor Powers
Motor Power Required
e.g.

For reducer and non standard motor types enter

13, 14 - Mounting Position
e.g.

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

11 - Output Shaft

Standard Single Extension on Left † on Right †

Standard Double Extension

Extended Shaft for Flange Mounted Units

Standard Hollow Shaft

Unit with Hollow Shaft with Reduced Bore Dia

See output options pages for metric shaft options

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

† Looking on Inputshaft Mounting Position 1 (See page 16 for unit handings)

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

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

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

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

Thermal Rating (For In-line Reducers)

The Thermal Rating is the gearboxes ability to dissipate heat. If exceeded, may cause the lubricant to break down resulting in premature gear failure. A thermal check should be made in accordance with procedure (page 90) for in line reducers.

SERIES C

LOAD CLASSIFICATIONS BY APPLICATIONS

Table 3

U = Uniform load
M = Moderate shock load
H = Heavy shock load
† = Refer to Application Engineering

Driven Machine	type of load	Driven Machine	type of load	Driven Machine	type of load
Cranes		log haul-incline	H	log haul	H
main hoists	†	log haul-well type	H	presses	M
bridge travel	†	log turning device	H	pulp machine reel	M
trolley travel	†	main log conveyor	H	stock chest	M
		off bearing rolls	M	suction roll	M
Crusher		planer feed chains	M	washers and thickeners	M
ore	H	planer floor chains	M	winders	M
stone	H	planer tilting hoist	M		
sugar	H	re-saw merry-go-round conveyor	M	Printing presses	†
		roll cases	H	Pullers	
Dredges		slab conveyor	H	barge haul	H
cable reels	M	small waste conveyor-belt	U	Pumps	
conveyors	M	small waste conveyor-chain	M	centrifugal	U
cutter head drives	H	sorting table	M	proportioning	M
jig drives	H	tipple hoist conveyor	M	reciprocating	
maneuvering winches	M	tipple hoist drive	M	single acting; 3 or more cylinders	M
pumps	M	transfer conveyors	M	double acting; 2 or more cylinders	M
screen drive	H	transfer rolls	M	single acting; 1 or 2 cylinders	†
stackers	M	tray drive	M	double acting; single cylinder	†
utility winches	M	trimmer feed	M	rotary	
		waste conveyor	M	gear type	U
				lobe, vane	U
Dry dock cranes		Machine tools		Rubber and plastics industries	
main hoist	†	bending roll	M	crackers	H
auxiliary hoist	†	punch press-gear driven	H	laboratory equipment	M
boom, luffing	†	notching press- belt driven	†	mixed mills	H
rotating, swing or slew tracking, drive wheels	†	plate planers	H	refiners	M
		tapping machine	H	rubber calenders	M
Elevators		other machine tools		rubber mill-2 on line	M
bucket-uniform load	U	main drives	M	rubber mill-3 on line	M
bucket-heavy load	M	auxiliary drives	U	sheeter	M
bucket-continuous	U			tire building machines	†
centrifugal discharge	U	Metal mills		tire and tube press	†
escalators	M	draw bench carriage and main drive	M	openers	†
freight	U	pinch, dryer and scrubber rolls-reversing	†	tubers and strainers	M
gravity discharge	U	slitters	M	warming mills	M
man lifts	†	table conveyors			
passenger	†	non-reversing		Sand muller	M
		group drives	M		
Fans		individual drives	H	Sewage disposal equipment	
centrifugal	U	reversing		bar screens	U
cooling towers		wire drawing and flattening machine	M	chemical feeders	U
induced draft	†	wire winding machine	M	collectors	U
forced draft	†			dewatering screws	M
induced draft	M	Mill-rotary type ball	H	scum breakers	M
large, mine, etc	M	cement kilns	H	slow or rapid mixers	M
large, industrial	M	dryers and coolers	H	thickeners	M
light, small diameter	U	kilns, other than cement	H	vacuum filters	M
		pebble rod	H		
Feeders		plain	H	Screens	
apron	M	wedge bar	H	air washing	U
belt	M	tumbling barrels	H	rotary-stone or gravel travelling water intake	U
disc	U				
reciprocating	H	Mixers		Slab pushers	M
screw	M	concrete mixers			
		-continuous	M	Steering gear	†
Food industry		concrete mixers	M	Stokers	U
beef slicer	M	-intermittent	M		
cereal cooker	U	constant density	U	Sugar industry	
dough mixer	M	variable density	M	cane knives	M
meat grinders	M			crushers	M
		Oil industry		mills	M
Generators-not welding	U	chillers	M		
		oil well pumping	†	Textile industry	
Hammer mills	H	paraffin filter press	M	batchers	M
		rotary kilns	M	calenders	M
Hoists				cards	M
heavy duty	H	Paper mills		dry cans	M
medium duty	M	agitators, (mixers)	M	dryers	M
skip hoist	M	barker-auxiliaries-hydraulic	M	dyeing machinery	†
		barker-mechanical	H	knitting machines	†
Laundry washers		barking drum	H	looms	M
reversing	M	beater and pulper	M	mangles	M
		bleacher	U	nappers	M
Laundry tumblers	M	calenders	M	pads	M
		calenders-super	H	range drives	†
Line shafts		converting machine, except cutters, platers	M	slashers	M
driving processing equipment	M	conveyors	U	soapers	M
light	U	couch	M	spinners	M
other line shafts	U	cutters-plates	H	tenter frames	M
		cylinders	M	washers	M
Lumber industry		dryers	M	winders	M
barkers-hydraulic-mechanical	M	felt stretcher	M		
burner conveyor	M	felt whipper	H	Windlass	†
chain saw and drag saw	H	jordans	M		
chain transfer	H				
craneway transfer	H				
de-barking drum	H				
edger feed	M				
gang feed	M				
green chain	M				
live rolls	H				
log deck	H				

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 Unit, a Thermal Check MUST be made in accordance with procedure on page 87

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 3, page 5

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), table 1, page 4

Duration of service (hours per day) = 24hrs

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

Therefore mechanical service factor (Fm) = 1.25

If the unit is subject to frequent start/stops Fm must be multiplied by factor Fs (see table 2 page 4)

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

$$\text{Absorbed output torque} = \frac{\text{Absorbed HP} \times 6300}{\text{Gearbox output speed}}$$

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

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

	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		
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 .		

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:-

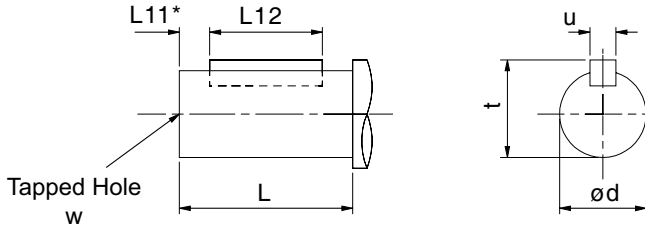
Inertia of Gear Unit plus Motor

a) Inertia of the Driven Machine (Referred to motor speed) >10

b) Ambient temperature is above 104°C

SERIES C OUTPUT OPTIONS

OUTPUTSHAFT OPTIONS. COLUMN 11 ENTRY



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

Column 11 Entry

Standard Single Extension C on Left E on Right

Standard Double Extension D

Std Extended Shaft for Flange Mounted Units F

Std Heavy Duty Single Extension (Size C06) J

Std Heavy Duty Double Extension (Size C06) K

Inch Single Extension N on Left B on Right

Inch Double Extension P

Inch Extended Shaft for Flange Mount Units G

Inch Heavy Duty Single Extension (Size C06) L

SIZE OF UNIT	TYPE OF OUTPUT SHAFT	COLUMN 11 ENTRY	DIMENSIONS IN MM (Inch shaft in inches)						
			ød	L	L11	L12	t	u	w
C03	Standard	C, E, D	20.015 / 20.002	35	3	31.2	2.5	6	M6 x 1.0 x 16 Deep
	Inch	N, B, P	0.7500" / 0.7495"	1.38"	*	1.28"	0.83"	0.19"	1/4 UNF x 0.63" Deep
C04	Standard	C, E, D	25.015 / 25.002	46	3	42	28	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.0000" / 0.9995"	1.81"	*	1.69"	1.10"	0.25"	1/4 UNF x 0.63" Deep
C05	Standard	C, E, D	30.015 / 30.002	60	3	53	33	8	M10 x 1.5 x 22 Deep
	Inch	N, B, P	1.2500" / 1.2494"	2.36"	*	2.125"	1.36"	0.25"	3/8 UNF x 0.87" Deep
C06	Standard	C, E, D	35.018 / 35.002	63	3	55	38	10	M12 x 1.75 x 22 Deep
	Standard Heavy Duty	J, K	45.018 / 45.002	98	5	80	48.5	14	M16 x 2.0 x 36 Deep
	Inch	N, B, P	1.3750" / 1.3744"	2.48"	*	2.34"	1.51"	0.313"	1/2 UNF x 1.125" Deep
	Inch Heavy Duty	L	1.7500" / 1.7494"	3.86"	*	3.75"	1.92"	0.375"	5/8 UNF x 1.44" Deep
C07	Standard	C, E, D	45.018 / 45.002	76	3	70	48.5	14	M16 x 2.0 x 36 Deep
	Std Extended Shaft	F	45.018 / 45.002	90	3	84	48.5	14	M16 x 2 x 36 Deep
	Inch	N, B	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5/8 UNF x 1.44" Deep
	Inch Extended Shaft	G	1.7500" / 1.7494"	3.54"	*	2.75"	1.91"	0.375"	5/8 UNF x 1.44" Deep
	Inch Double Ext	P	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5/8 UNF x 1.44" Deep
C08	Standard	C, E, D	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42 Deep
	Std Extended Shaft	F	60.030 / 60.011	120	3	110	64	18	M20 x 2.5 x 42 Deep
	Inch	N, B	2.3750" / 2.3744"	4.72"	*	4.125"	2.646"	0.625"	3/4 UNF x 1.75" Deep
	Inch Extended Shaft	G	2.3750" / 2.3744"	4.72"	*	3.25"	2.64"	0.625"	3/4 UNF x 1.75" Deep
	Inch Double Ext	P	2.3125" / 2.3115"	4.72"	*	4.125"	2.582"	0.625"	3/4 UNF x 1.75" Deep
C09	Standard	C, E, D	70.030 / 70.011	135	3	125	74.5	20	M20 x 2.5 x 42 Deep
	Std Extended Shaft	F	70.030 / 70.011	140	3	125	74.5	20	M20 x 2.5 x 42 Deep
	Inch	N, B	2.8750" / 2.8740"	5.12"	*	4.5"	3.20"	0.75"	3/4 UNF x 1.75" Deep
	Inch Extended Shaft	G	2.8750" / 2.8740"	5.51"	*	3.50"	3.20"	0.75"	3/4 UNF x 1.75" Deep
	Inch Double Ext	P	2.6875" / 2.6865"	5.12"	*	4.5"	2.963"	0.625"	3/4 UNF x 1.75" Deep
C10	Standard	C, E, D	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50 Deep
	Std Extended Shaft	F	90.035 / 90.013	170	3	160	95	25	M24 x 3.0 x 50 Deep
	Inch	N, B	3.6250" / 3.6240"	6.69"	*	5.875"	4.009"	0.875"	1 UNF x 2.25" Deep
	Inch Extended Shaft	G	3.6250" / 3.6240"	6.69"	*	5.51"	4.00"	0.875"	1 UNF x 2.25" Deep
	Inch Double Ext	P	3.1875" / 3.1865"	6.69"	*	5.875"	3.518"	0.750"	1 UNF x 2.25" Deep

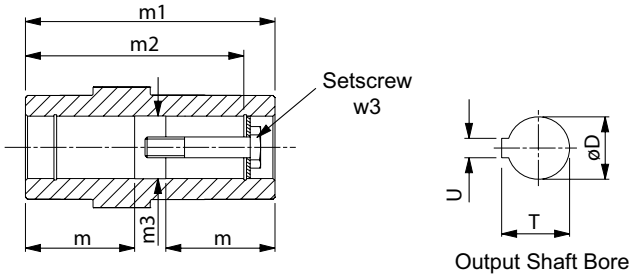
SERIES C

OUTPUTBORE OPTIONS

OUTPUT BORE OPTIONS, COLUMN 11 ENTRY

Column 11 Entry

Standard / Inch Hollow Shaft



Metric Hollow Shaft

H

Inch Hollow Shaft

A

Metric Hollow Shaft with reduced bore diameter

Z

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

SERIES C MOTOR ADAPTERS

DOUBLE REDUCTION UNITS

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

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

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

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



Limited Availability / Non Preferred

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																
	RATIO COVERAGE	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 - 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 - 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	8.0 - 40. 56. - 63. 45. - 50. 71. - 250	8.0 - 40. 56. - 63. 45. - 50. 71. - 250	8.0 - 40. 56. - 63. 45. - 50. 71. - 250	
56c	COLUMN 12 ENTRY	T	U	T	U	T	U	-	Q	-	Q	-	M	-	-	-	-
143/145TC		V	W	V	W	V	W	-	R	-	R	-	N	-	-	-	-
182/184TC		X	-	X	-	X	-	S	T	S	T	J	P	-	S	-	P
213/215TC		-	-	-	-	-	-	-	-	U	V	K	Q	-	T	-	Q
254/256TC		-	-	-	-	-	-	-	-	-	-	L	U	P	U	L	R
284/286TC		-	-	-	-	-	-	-	-	-	-	-	-	Q	V	M	S
324/326TC		-	-	-	-	-	-	-	-	-	-	-	-	R	W	N	T

SERIES C MOTOR ADAPTERS

TRIPLE REDUCTION UNITS

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
	RATIO COVERAGE	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	COLUMN 12	H	H	H	H	H	H	-	H	-	-
80		B	K	B	K	B	K	B	K	-	G
90		D	R	D	R	D	R	D	R	Z	J
100		E	S	E	S	E	S	E	S	B	L
112		-	-	-	-	-	-	-	-	B	L

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
	RATIO COVERAGE	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	COLUMN 12	F	F	F	F	F	F	-	F	-	V
71		G	G	G	G	G	G	-	G	-	D
80		A	J	A	J	A	J	A	J	W	F
90		C	Q	C	Q	C	Q	C	Q	Y	H
100		-	-	-	-	-	-	-	-	A	K
112		-	-	-	-	-	-	-	-	A	K
132	-	-	-	-	-	-	-	-	N	P	



Limited Availability / Non Preferred

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

MOTOR FRAME / FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
	RATIO COVERAGE	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	COLUMN 12	T	U	T	U	T	U	T	U	-	Q
143/145TC		V	W	V	W	V	W	V	W	-	R
182/184TC		X	-	X	-	X	-	X	-	S	T
213/215TC		-	-	-	-	-	-	-	-	U	-

SERIES C MOTOR ADAPTERS

QUADRUPLE REDUCTION UNITS

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

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

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

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

 Limited Availability / Non Preferred

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

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

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.

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

The grade and level are determined from the operating speed of the gear unit and the ambient temperature range, which if not given when ordering will be assumed to be 1450 rev / min input and ambient temperature range 0 to 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

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

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	8G
QUADRUPLES	< - 2800	0 - 750	6G	7G	9G
		>750 - 3000	6G	6G	8G
	3200 - 16000	0 - 3000	6G	7G	9G

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

TABLE 2 LUBRICANT QUANTITY (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
												3.7	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
												5.1	5.9	9.5	17	26
	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
												7.4	9.2	12	25	42
	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

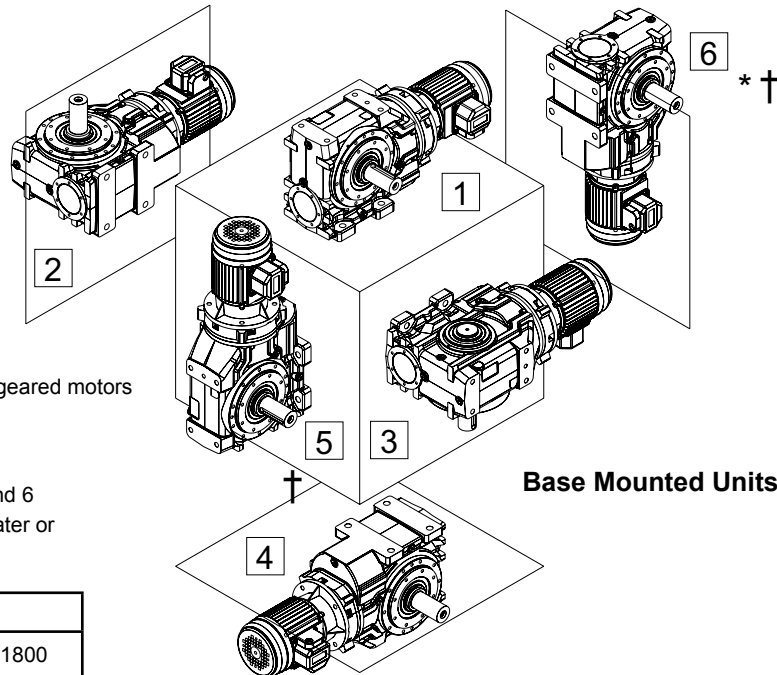
• Unit filled with Grade 6E lubricant suitable for all ambient temperatures between 32°F to 95°F and are 'lubricated for life'

SERIES C

MOUNTING POSITIONS

COLUMN 13 ENTRY

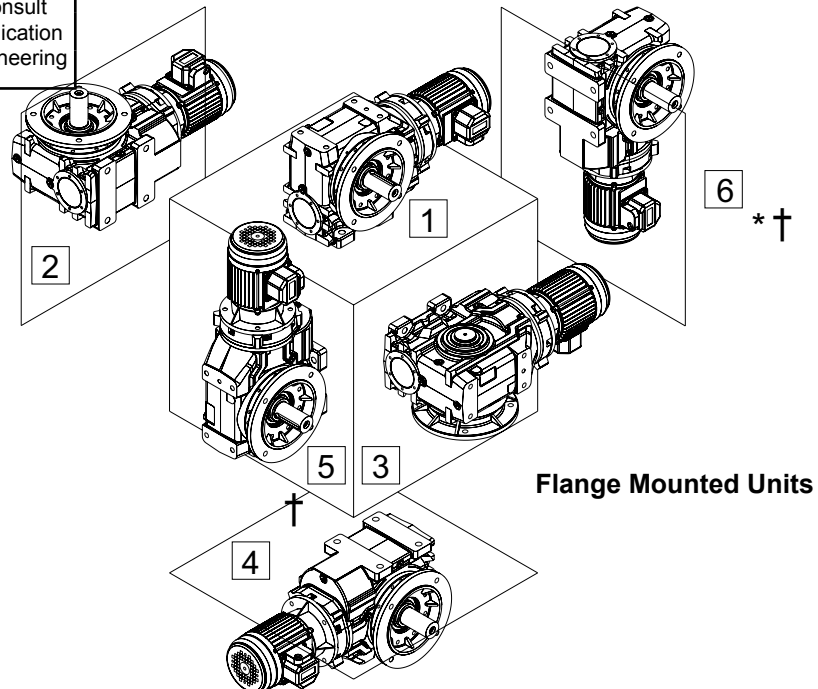
Enter for units with no oil fill



* 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)			
	1000	1500	1800	>1800
C03-C08	All	All	All	Consult Application Engineering
C09	18:1	18:1	25:1	
C10	18:1	40:1	63:1	

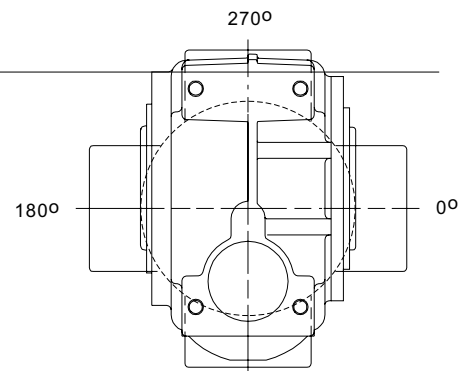


MOUNTING POSITIONS - SHOWN AS MOTORIZED - APPLIES ALSO FOR REDUCERS

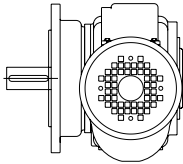
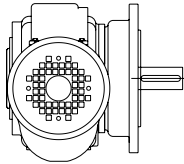
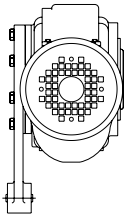
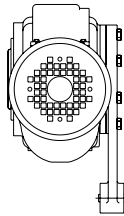
COLUMN 14 ENTRY

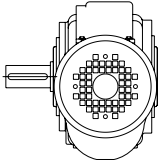
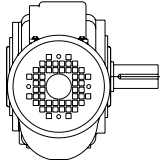
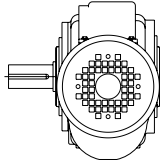
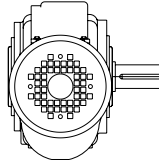
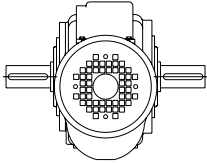
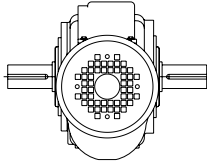
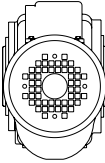
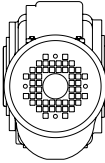
ALL MOTORS

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

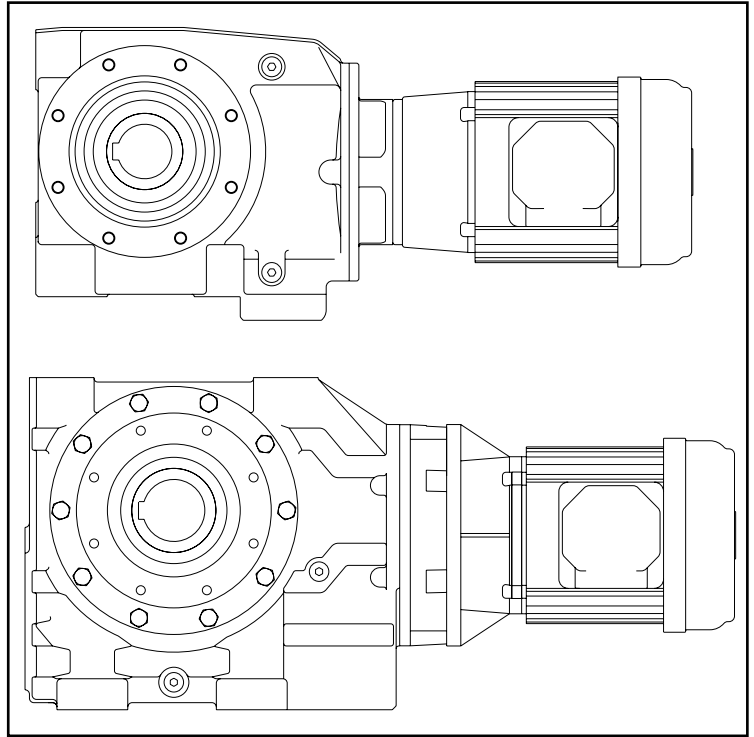


SERIES C UNIT HANDINGS

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

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

SERIES C
MOTORIZED



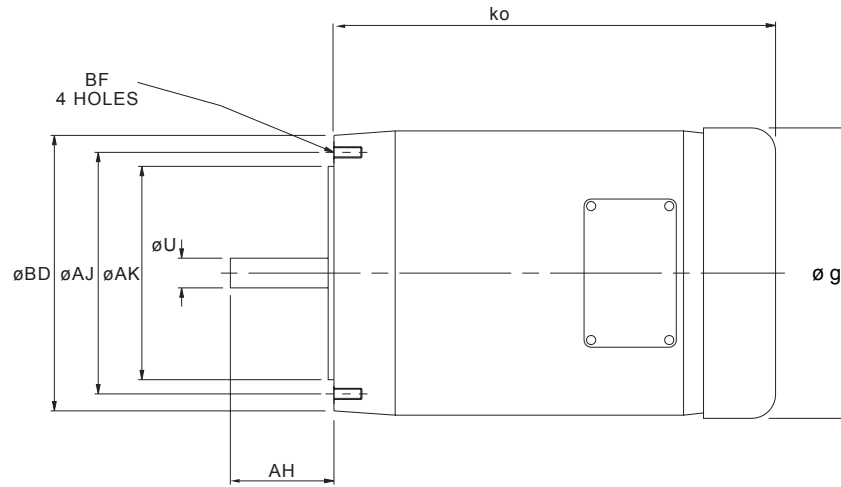
MOTORIZED

SERIES C

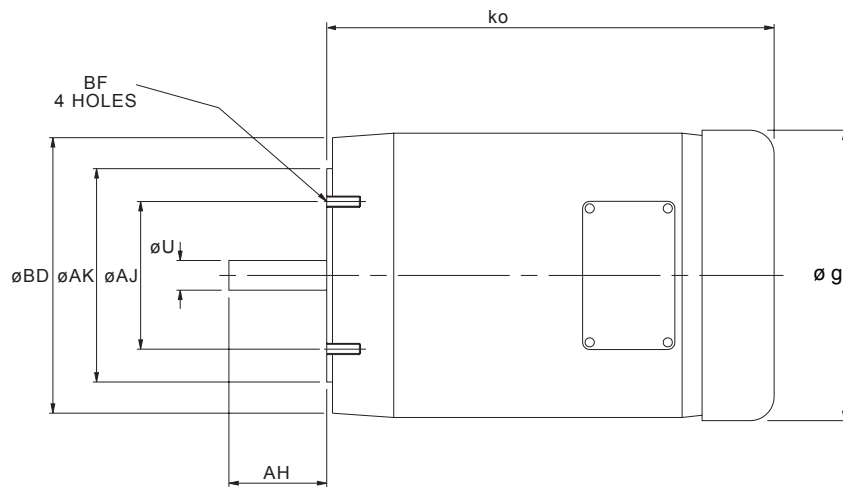
SERIES C

NEMA MOTOR DETAILS

NEMA Standard Motors



MOTOR FRAME SIZE	$\varnothing BD$	$\varnothing AJ$	$\varnothing AK$	$\varnothing U$	AH	ko_{max}	$\varnothing g$	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	$\varnothing BD$	$\varnothing AJ$	$\varnothing AK$	$\varnothing U$	AH	ko_{max}	$\varnothing g$	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

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

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
- EExEIIT3
- 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 - see page 70 for details

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	Motor Size
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	
201	8.59	65	10.42	625	C 0 3 2 1 8 . 0 _ _ _ _ _ . 2 5 B _ _	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 _ _ _ _ _ . 2 5 B _ _	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 . _ _ _ _ _ . 2 5 B _ _	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 _ _ _ _ _ . 2 5 B _ _	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 _ _ _ _ _ . 2 5 B _ _	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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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	Motor Size
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	
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	Motor Size
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	
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

0.50 HP

4 POLE
1750 rpm
nominal
input speed

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

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	
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		
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		

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	Motor Size
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	
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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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	Motor Size
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	
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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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 <input type="text" value="1"/> Through <input type="text" value="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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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 <input type="text" value="1"/> Through <input type="text" value="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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
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		
<hr/>							
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 .		
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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 .		
<hr/>							
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		
<hr/>							
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		
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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		

3 HP

4 POLE
1750 rpm
nominal
input speed

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	Motor Size
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	
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	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	
10.87	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	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	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

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
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	
158	11.11	9341	3.77	9300	C 1 0 2 1 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 .		

30 HP

4 POLE
1750 rpm
nominal
input speed

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 .		
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

	N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	Motor Size
	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	
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">40 HP</div> 4 POLE 1750 rpm nominal input speed	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 .			
<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">50 HP</div> 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				

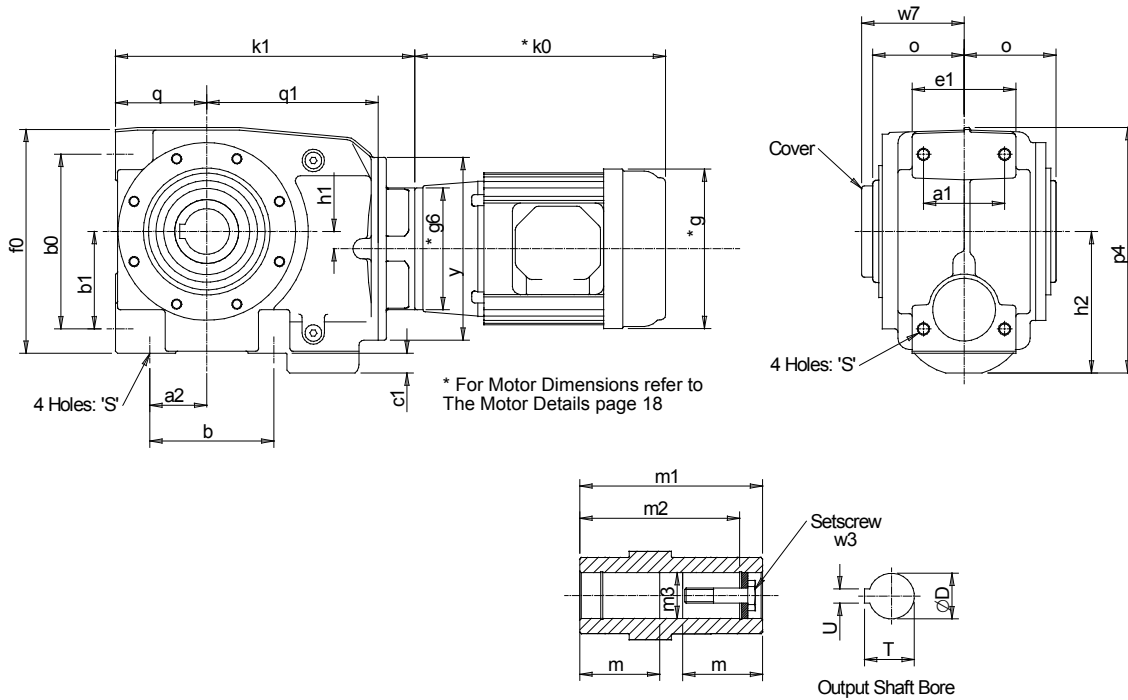
NOTE

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

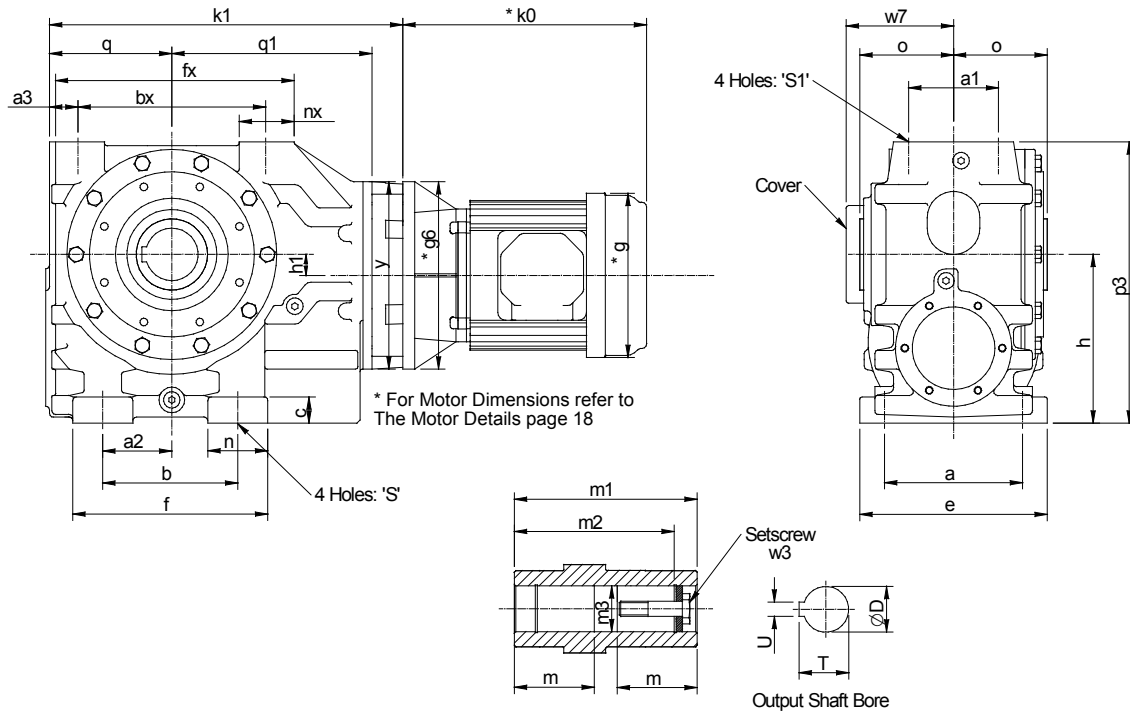
SIZE	s	w7	y	Hollow Output Bore								
				D	m	m1	m2	m3	T	U	w3	
C0321	M8, 0.59 deep	2.76	0.51	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50	
C0421	M10, 0.79 deep	2.93	0.51	1.25	2.13	5.12	4.80	1.19	1.32	0.25	3/8" UNF x 2.00	
C0521	M10, 0.71 deep	3.11	0.51	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00	
C0621	M12, 0.79 deep	3.98	7.09	1.50	2.76	7.09	6.14	1.78	1.62	0.375	5/8" UNF x 2.75	

NEMA Motor Frame Size	C0321	C0421	C0521	C0621
	k1	k1	k1	k1
56c	8.98	9.76	10.51	12.17
143Tc / 145Tc	8.98	9.76	10.51	12.17
182Tc / 184Tc	8.66	9.45	10.20	13.15
213Tc / 215Tc	-	-	-	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

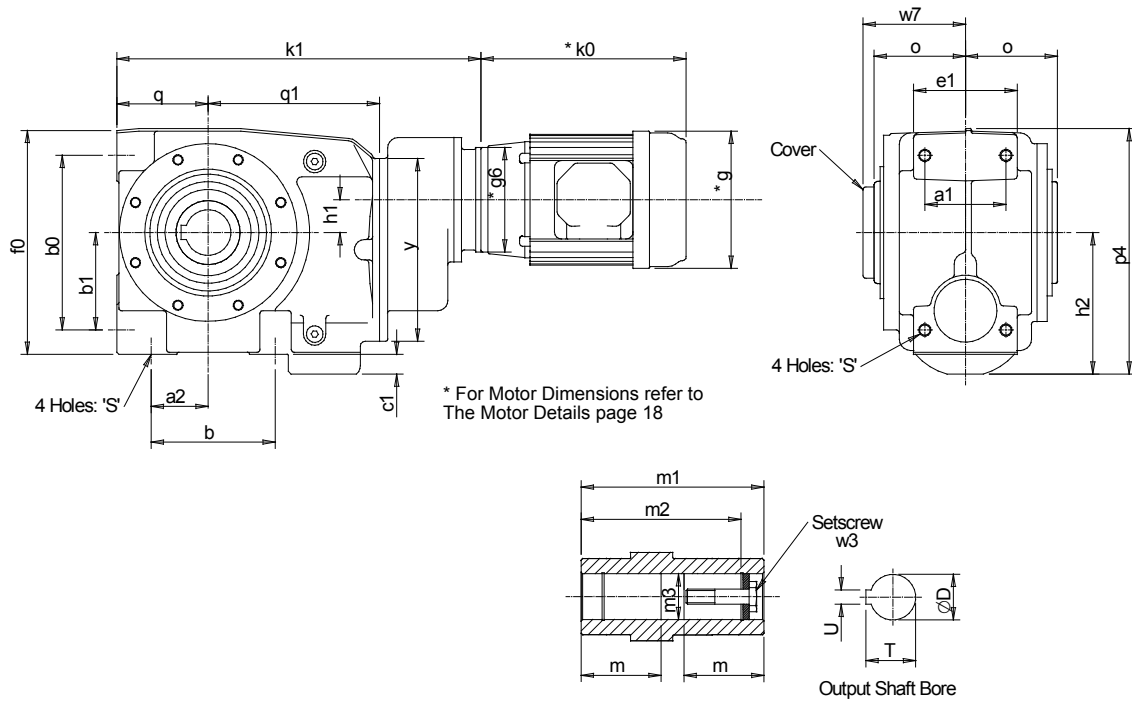
SIZE	s	s1	w7	y	Hollow Output Bore								
					D	m	m1	m2	m3	T	U	w3	
C0721	0.71	M20, 1.34 deep	4.92	8.35	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00	
C0821	0.87	M20, 1.34 deep	5.63	9.84	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00	
C0921	1.02	M24, 1.77 deep	6.65	11.81	2.75	4.23	11.81	10.43	3.56	3.04	0.625	3/4" UNF x 4.25	
C1021	1.02	M24, 1.77 deep	7.80	14.17	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25	

NEMA Motor Frame Size	C0721	C0821	C0921	C1021
	k1	k1	k1	k1
56c	16.34	20.16	-	-
143Tc / 145Tc	16.34	20.16	-	-
182Tc / 184Tc	16.69	20.16	22.01	25.59
213Tc / 215Tc	16.69	20.16	22.01	25.59
254Tc / 256Tc	16.61	20.16	23.39	26.77
284Tc / 286Tc	-	-	23.50	26.89
324Tc / 326Tc	-	-	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

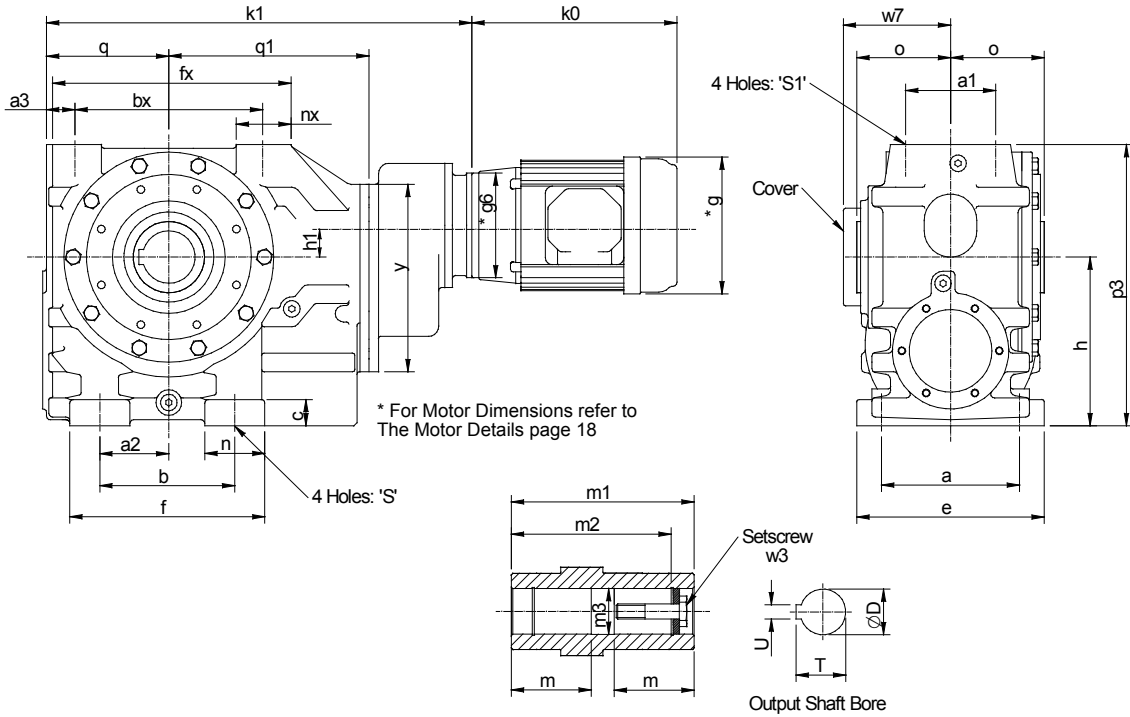
SIZE	s	w7	y	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0331	M8, 0.59 deep	2.76	5.51	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0431	M10, 0.79 deep	2.93	5.51	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0531	M10, 0.71 deep	3.11	5.51	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF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

NEMA Motor Frame Size	C0331	C0431	C0531	C0631
	k1	k1	k1	k1
56c	11.18	11.97	12.72	15.35
143Tc / 145Tc	11.18	11.97	12.72	15.35
182Tc / 184Tc	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

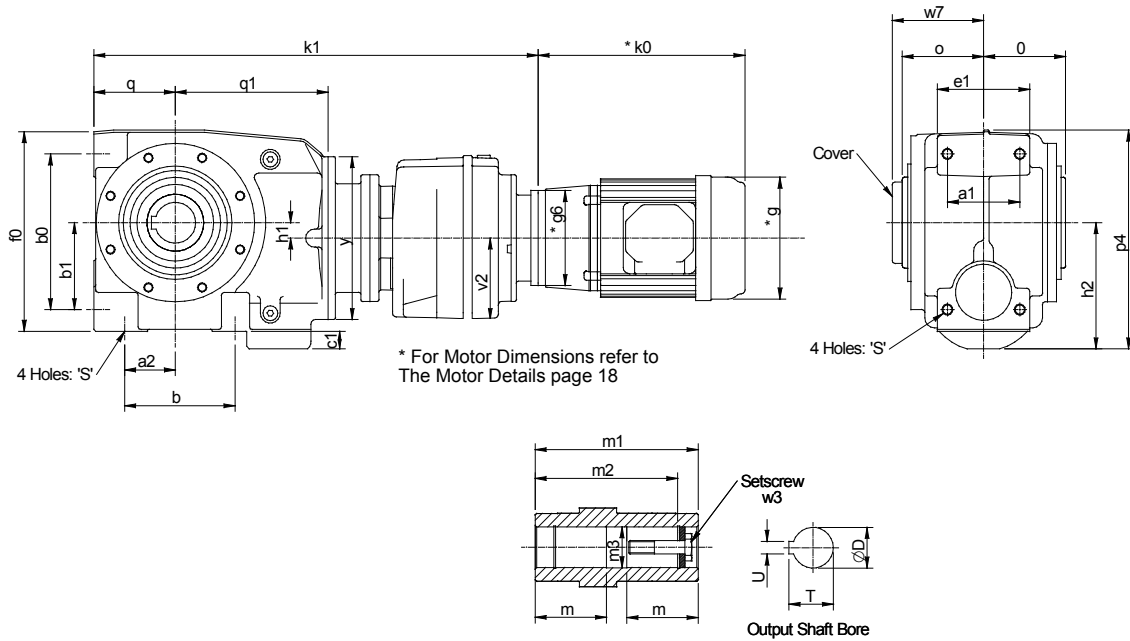
SIZE	s	s1	w7	y	Hollow Output Bore								
					D	m	m1	m2	m3	T	U	w3	
C0731	0.71	M20, 1.34 deep	4.92	8.35	2.0	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00	

NEMA Motor Frame Size	C0731
56c	19.65
143Tc / 145Tc	19.65
182Tc / 184Tc	20.63
213Tc / 215Tc	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

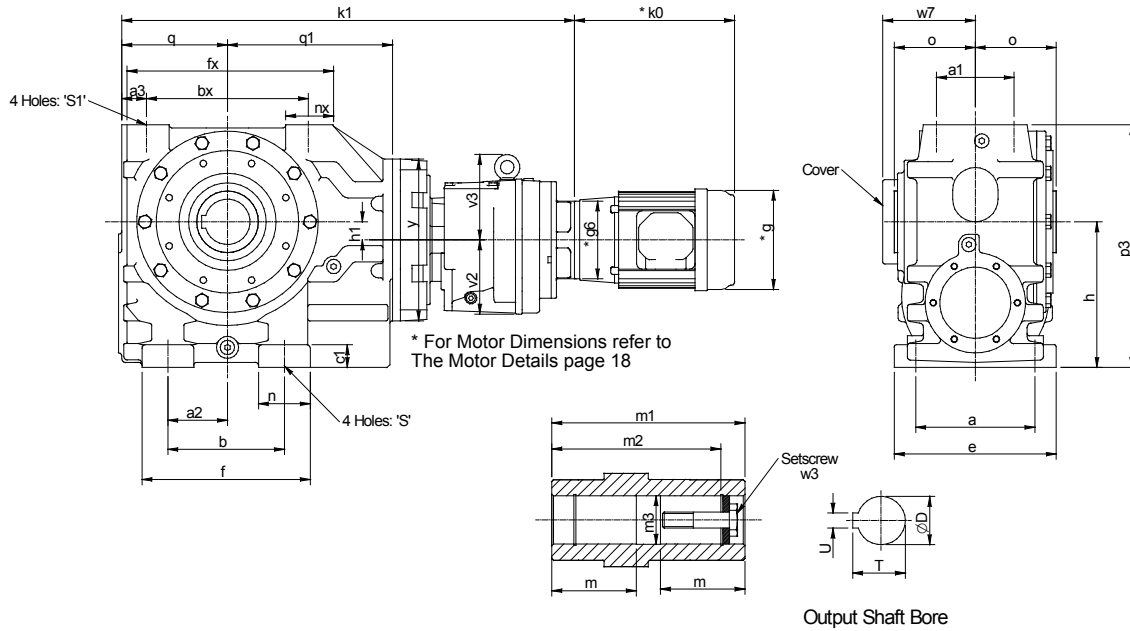
SIZE	s	v2	w7	y	Hollow Output Bore							
					D	m	m1	m2	m3	T	U	w3
C0341	M8, 0.59 deep	2.99	2.76	5.51	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0441	M10, 0.79 deep	2.99	2.93	5.51	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0541	M10, 0.71 deep	2.99	3.11	5.51	1.375	2.20	5.51	5.00	1.39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

NEMA Motor Frame Size	C0341	C0441	C0541	C0641
	k1	k1	k1	k1
56c	16.30	17.09	17.83	20.71
143Tc / 145Tc	16.30	17.09	17.83	20.71
182Tc / 184Tc	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	5.63	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	6.61	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	7.68	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	9.25	13.98

SIZE	s	s1	v2	v3	w7	y	Hollow Output Bore							
							D	m	m1	m2	m3	T	U	w3
C0741	0.71	M20, 1.34 deep	3.58	-	4.92	8.35	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	9.84	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	11.81	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	14.17	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

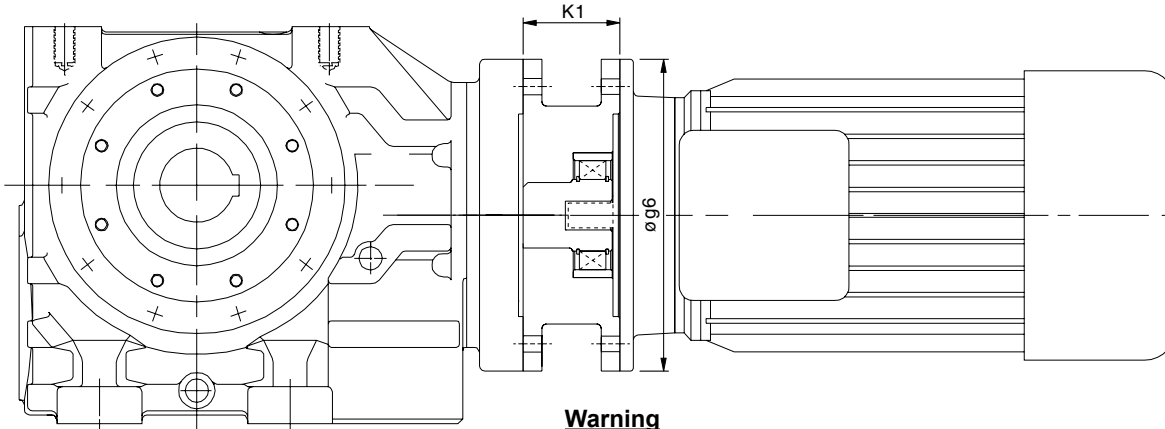
NEMA Motor Frame Size	C0741	C0841	C0941	C1041
	k1	k1	k1	k1
56c	24.84	28.27	31.54	48.77
143Tc / 145Tc	24.84	28.27	31.54	48.77
182Tc / 184Tc	24.53	29.25	32.52	52.63
213Tc / 215Tc	-	29.25	32.52	52.63

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

IEC B5 FLANGE

Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	øg6	K1
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

NEMA C FLANGE

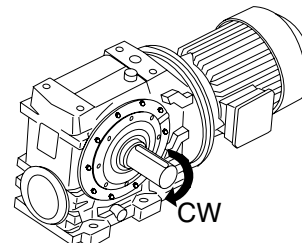
Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	øg6	K1
182TC / 184TC	670	2650	9.0	3.75
213TC / 215TC	670	2650	9.0	3.75
254TC / 256TC	620	8300	9.0	4.75
284TC / 286TC	620	8300	11.0	5.37
324TC / 326TC	550	11100	13.0	6.00

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

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

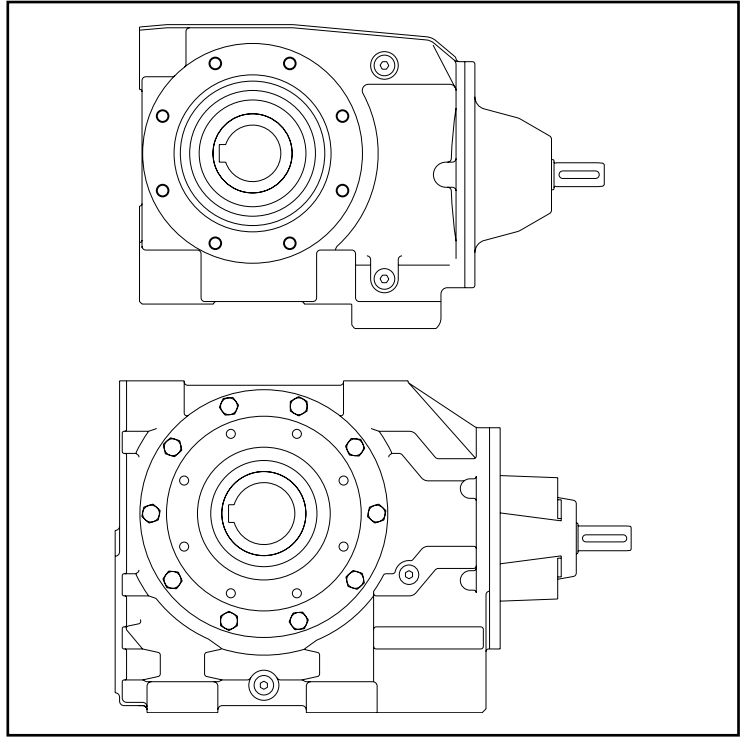
- CW - Free Rotation - Clockwise
- Locked - Anticlockwise

- AC - Free Rotation - Anticlockwise
- Locked - Clockwise



SERIES C
NOTES

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)

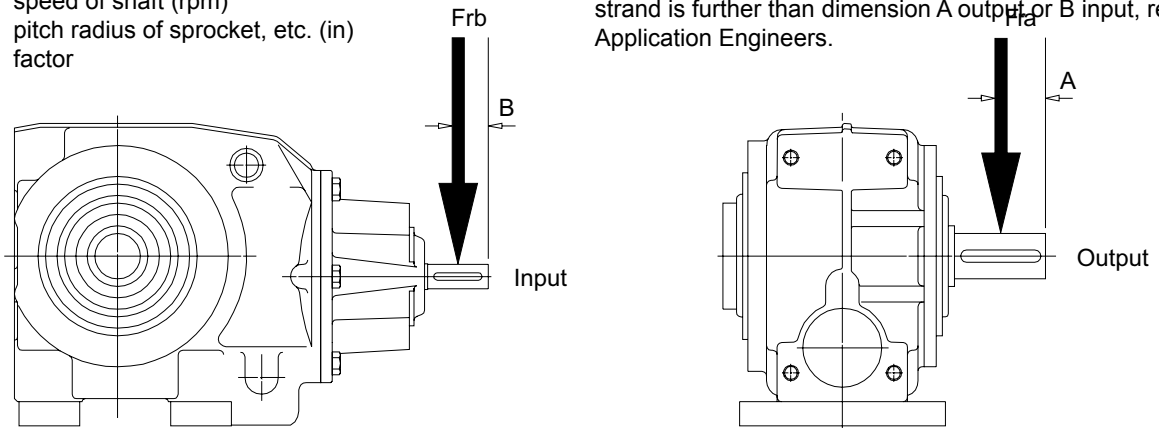
$$P = \frac{HP \times 63,000 \times K}{N \times R}$$

- where
- 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 (mm)	Dimension B (mm)
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 pages 21 to 42 and pages 54 to 74.

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

DOUBLE REDUCTION RATINGS SIZES C03 - C04

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0321						C0421					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[8][][0]	1750	204	8.591	685	84%	2.64	625	204	8.591	1160	85%	4.41	1180
	1160	135		750		1.75		135		1270		2.92	
	860	100		809		1.53		100		1360		2.54	
[1][1][]	1750	151	11.61	744	83%	2.14	625	151	11.61	1260	84%	3.59	1180
	1160	99.9		818		1.42		99.9		1380		2.38	
	860	74.1		874		1.24		74.1		1470		2.06	
[1][2][]	1750	133	13.20	767	83%	1.94	625	133	13.20	1300	84%	3.26	1180
	1160	87.9		843		1.29		87.9		1420		2.16	
	860	65.2		903		1.12		65.2		1510		1.86	
[1][4][]	1750	117	14.95	794	82%	1.80	625	117	14.95	1350	84%	2.98	1180
	1160	77.6		872		1.19		77.6		1470		1.98	
	860	57.5		929		1.03		57.5		1570		1.71	
[1][6][]	1750	107	16.36	736	73%	1.71	625	107	16.36	1210	76%	2.70	1180
	1160	70.9		813		1.13		70.9		1340		1.79	
	860	52.6		874		1.00		52.6		1430		1.57	
[1][8][]	1750	91.5	19.13	845	82%	1.50	625	91.5	19.13	1430	83%	2.50	1180
	1160	60.64		920		0.99		60.64		1560		1.66	
	860	44.96		982		0.85		44.96		1660		1.43	
[2][0][]	1750	84.9	20.61	861	81%	1.43	625	84.9	20.61	1460	83%	2.37	1180
	1160	56.3		938		0.95		56.3		1590		1.57	
	860	41.7		1000		0.82		41.7		1640		1.31	
[2][2][]	1750	79.1	22.11	801	72%	1.40	625	79.1	22.11	1320	74%	2.24	1180
	1160	52.5		882		0.93		52.5		1450		1.48	
	860	38.9		947		0.81		38.9		1540		1.28	
[2][5][]	1750	69.6	25.14	828	71%	1.29	625	69.6	25.14	1360	74%	2.03	1180
	1160	46.1		912		0.85		46.1		1490		1.35	
	860	34.2		974		0.74		34.2		1580		1.16	
[2][8][]	1750	61.4	28.48	857	71%	1.18	625	61.4	28.48	1410	73%	1.88	1180
	1160	40.7		938		0.78		40.7		1540		1.25	
	860	30.2		1000		0.67		30.2		1640		1.08	
[3][2][]	1750	51.9	33.71	965	80%	0.99	625	51.9	33.71	1640	81%	1.67	1180
	1160	34.4		1050		0.66		34.4		1780		1.11	
	860	25.5		1150		0.58		25.5		1850		0.92	
[3][6][]	1750	48.0	36.43	913	70%	0.99	625	48.0	36.43	1500	72%	1.59	1180
	1160	31.8		1000		0.66		31.8		1630		1.05	
	860	23.6		1060		0.57		23.6		1730		0.90	
[4][0][]	1750	44.6	39.26	931	70%	0.94	625	44.6	39.26	1530	72%	1.50	1180
	1160	29.5		1020		0.62		29.5		1660		1.00	
	860	21.9		1090		0.54		21.9		1770		0.85	
[4][5][]	1750	38.5	45.50	1040	79%	0.80	625	38.5	45.50	1760	80%	1.34	1180
	1160	25.5		1150		0.53		25.5		1850		0.89	
	860	18.9		1270		0.48		18.9		1820		0.68	
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C03 - C04

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0321						C0421					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
⑤ ① ①	1750	32.8	53.31	1070	78%	0.66	625	32.8	53.31	1820	80%	1.3	1180
	1160	21.8		1210		0.44		21.8		1830		0.756	
	860	16.1		1340		0.44		16.1		1810		0.378	
⑤ ② ①	1750	31.1	56.19	1020	69%	0.73	625	31.1	56.19	1670	70%	1.28	1180
	1160	20.6		1110		0.48		20.6		1810		0.766	
	860	15.3		1190		0.42		15.3		1930		0.464	
⑥ ③ ①	1750	27.3	64.21	1050	68%	0.67	625	27.3	64.21	1720	70%	1.16	1180
	1160	18.1		1150		0.44		18.1		1880		0.699	
	860	13.4		1230		0.38		13.4		2000		0.428	
⑦ ① ①	1750	23.5	74.55	1220	77%	0.59	625	23.5	74.55	1840	78%	1.08	1180
	1160	15.6		1350		0.39		15.6		1810		0.542	
	860	11.5		1360		0.32		11.5		1800		0.271	
⑧ ① ①	1750	21.1	82.83	1250	77%	0.54	625	21.1	82.83	1710	78%	0.911	1180
	1160	14.0		1350		0.36		14.0		1670		0.456	
	860	10.4		1360		0.29		10.4		1660		0.228	
⑨ ① ①	1750	20.2	86.67	1180	66%	0.57	625	20.2	86.67	1930	68%	0.994	1180
	1160	13.4		1280		0.38		13.4		2110		0.592	
	860	9.92		1360		0.32		9.92		2240		0.358	
① ① ①	1750	17.2	101.5	1220	64%	0.52	625	17.2	101.5	1990	68%	0.879	1180
	1160	11.4		1330		0.35		11.4		2170		0.528	
	860	8.47		1360		0.29		8.47		2320		0.325	
① ① ②	1750	15.3	114.3	1360	75%	0.44	625	15.3	114.3	1500	76%	0.456	1180
	1160	10.1		1120		0.29		10.1		1140		0.228	
	860	7.524		1120		0.18		7.524		1130		0.114	
① ② ⑤	1750	13.5	129.9	1290	74%	0.37	625	13.5	129.9	1290	75%	0.395	1180
	1160	8.93		1120		0.25		8.93		1120		0.197	
	860	6.62		1120		0.16		6.62		1120		0.099	
① ④ ①	1750	12.3	142.0	1310	63%	0.41	625	12.3	142.0	2140	65%	0.69	1180
	1160	8.17		1360		0.27		8.17		2820		0.416	
	860	6.06		1360		0.21		6.06		2600		0.238	
① ⑥ ①	1750	11.1	157.8	1340	61%	0.39	625	11.1	157.8	2190	64%	0.639	1180
	1160	7.35		1360		0.26		7.35		2640		0.385	
	860	5.45		1360		0.19		5.45		2620		0.216	
② ① ②	1750	8.03	217.8	1360	62%	0.28	625	8.03	217.8	2370	63%	0.456	1180
	1160	5.33		1360		0.19		5.33		1800		0.228	
	860	3.95		1360		0.14		3.95		1770		0.114	
② ⑤ ①	1750	7.07	247.5	1360	62%	0.25	625	7.07	247.5	2050	63%	0.395	1180
	1160	4.69		1360		0.16		4.69		1750		0.197	
	860	3.47		1360		0.12		3.47		1730		0.099	
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C05 - C06

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0521						C0621					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[8][0][0]	1750	211	8.312	1710	87%	6.57	1650	213	8.232	3040	89%	11.52	2580
	1160	140		2020		4.35		141		3600		7.64	
	860	103		2260		4.26		104		4040		7.52	
[1][1][.]	1750	150	11.66	1960	86%	5.43	1650	151	11.57	3510	89%	9.46	2580
	1160	99.5		2290		3.60		100.3		4120		6.27	
	860	73.8		2550		3.47		74.3		4580		6.07	
[1][2][.]	1750	136	12.85	2040	86%	5.13	1650	135	12.97	3670	89%	8.83	2580
	1160	90.3		2370		3.40		89.4		4290		5.85	
	860	66.9		2640		3.26		66.3		4770		5.64	
[1][4][.]	1750	120	14.59	2140	86%	4.74	1650	120	14.56	3840	89%	8.23	2580
	1160	79.5		2490		3.14		79.7		4470		5.45	
	860	58.9		2750		2.99		59.1		4920		5.18	
[1][6][.]	1750	109	16.09	2710	78%	6.00	1650	110	15.93	4260	79%	9.40	2580
	1160	72.1		2970		3.97		72.8		4960		6.23	
	860	53.4		3410		3.71		54.0		5280		5.73	
[1][8][.]	1750	94.4	18.53	2340	85%	4.13	1650	94.6	18.49	4200	88%	7.17	2580
	1160	62.60		2700		2.73		62.74		4870		4.75	
	860	46.41		2980		2.58		46.51		5390		4.52	
[2][0][.]	1750	83.1	21.05	2450	85%	3.80	1650	83.5	20.96	4400	88%	6.62	2580
	1160	55.1		2810		2.52		55.3		5080		4.39	
	860	40.9		3110		2.37		41.0		5610		4.15	
[2][2][.]	1750	77.6	22.56	2960	77%	4.73	1650	78.1	22.40	4850	80%	7.51	2580
	1160	51.4		3200		3.14		51.8		5360		4.98	
	860	38.1		3360		2.64		38.4		5610		4.27	
[2][5][.]	1750	70.4	24.86	3030	77%	4.40	1650	69.7	25.11	5060	80%	6.99	2580
	1160	46.7		3250		2.91		46.2		5480		4.64	
	860	34.6		3430		2.45		34.2		5750		3.91	
[2][8][.]	1750	62.0	28.24	3110	76%	4.02	1650	62.1	28.18	5200	80%	6.40	2580
	1160	41.1		3320		2.67		41.2		5580		4.25	
	860	30.5		3520		2.24		30.5		5890		3.57	
[3][2][.]	1750	53.8	32.55	2810	83%	2.89	1650	52.3	33.48	5180	87%	4.94	2580
	1160	35.6		3240		1.91		34.6		5920		3.27	
	860	26.4		3530		1.78		25.7		6480		3.04	
[3][6][.]	1750	48.8	35.86	3280	75%	3.39	1650	48.9	35.79	5490	79%	5.39	2580
	1160	32.3		3490		2.24		32.4		5860		3.57	
	860	24.0		3690		1.87		24.0		6200		2.99	
[4][0][.]	1750	43.0	40.74	3350	74%	3.09	1650	43.1	40.57	5610	79%	4.86	2580
	1160	28.5		3580		2.05		28.6		6020		3.22	
	860	21.1		3800		1.72		21.2		6360		2.71	
[4][5][.]	1750	37.4	46.84	3050	82%	2.20	1650	37.0	47.32	5810	86%	3.96	2580
	1160	24.8		3600		1.46		24.5		6570		2.63	
	860	18.4		3580		1.27		18.2		7120		2.39	
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C05 - C06

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0521						C0621					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[5][0][.]	1750	34.4	50.93	3100	81%	1.94	1650	34.6	50.52	5930	86%	3.66	2580
	1160	22.8		3610		1.29		23.0		6690		2.43	
	860	16.9		3580		1.18		17.0		7250		2.28	
[5][6][.]	1750	31.6	55.45	3570	73%	2.45	1650	31.4	55.71	5960	77%	3.86	2580
	1160	20.9		3830		1.62		20.8		6440		2.56	
	860	15.5		3530		1.19		15.4		6820		2.17	
[6][3][.]	1750	27.8	63.00	3670	72%	2.25	1650	27.0	64.80	6160	76%	3.47	2580
	1160	18.4		3940		1.49		17.9		6660		2.30	
	860	13.7		4170		1.25		13.3		7050		1.95	
[7][1][.]	1750	23.9	73.37	3190	80%	1.51	1650	23.7	73.92	6370	85%	2.82	2580
	1160	15.8		3570		1.00		15.7		7400		1.87	
	860	11.7		3570		0.83		11.6		7760		1.69	
[8][0][.]	1750	21.2	82.67	3220	80%	1.35	1650	21.6	80.94	6430	85%	2.60	2580
	1160	14.0		3370		0.90		14.3		7560		1.72	
	860	10.4		3440		0.71		10.6		7740		1.54	
[9][0][.]	1750	19.3	90.67	4110	70%	1.80	1650	19.1	91.58	6880	75%	2.78	2580
	1160	12.8		4420		1.19		12.7		7430		1.84	
	860	9.48		4670		1.00		9.39		7820		1.55	
[1][0][0]	1750	17.8	98.6	4180	70%	1.68	1650	17.9	97.8	6970	74%	2.67	2580
	1160	11.8		4480		1.12		11.9		7530		1.77	
	860	8.72		4740		0.94		8.80		7970		1.50	
[1][1][2]	1750	16.0	109.1	3050	79%	0.98	1650	15.8	110.6	6660	83%	2.01	2580
	1160	10.6		2600		0.65		10.5		6320		1.34	
	860	7.883		2660		0.42		7.776		6440		0.96	
[1][2][5]	1750	14.1	124.0	2630	78%	0.76	1650	14.1	124.0	4270	83%	1.15	2580
	1160	9.35		2300		0.50		9.35		4660		0.76	
	860	6.94		2350		0.33		6.94		4610		0.61	
[1][4][0]	1750	12.3	142.0	4470	68%	1.29	1650	12.2	143.1	7490	72%	2.02	2580
	1160	8.17		4810		0.85		8.11		8090		1.34	
	860	6.06		5120		0.72		6.01		8570		1.13	
[1][6][0]	1750	10.9	160.0	4570	67%	1.18	1650	11.2	156.7	7520	72%	1.85	2580
	1160	7.25		4970		0.78		7.40		8230		1.23	
	860	5.38		5120		0.65		5.49		8570		1.04	
[2][1][2]	1750	8.29	211.1	4820	66%	0.96	1650	8.18	214.0	7520	70%	1.39	2580
	1160	5.50		4200		0.64		5.42		8570		0.92	
	860	4.07		4260		0.42		4.02		8570		0.78	
[2][5][0]	1750	7.29	240.0	4270	66%	0.75	1650	7.29	240.0	7520	70%	1.24	2580
	1160	4.83		3710		0.50		4.83		7490		0.82	
	860	3.58		3760		0.32		3.58		7490		0.61	
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C07 - C08

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0721						C0821						
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	
[8][0][0]	1750	221	7.901	5240	92%	20.02	6050	225	7.77	9300	93%	35.74	6450	
	1160	147		5460		13.27		149		8640		23.69		6800
	860	109		5430		10.19		111		8600		16.24		7100
[1][1][.]	1750	160	10.94	6020	92%	16.61	6050	159	11.01	10800	92%	29.61	6800	
	1160	106.0		7080		11.01		105.4		12200		19.62		7000
	860	78.6		7500		10.17		78.1		12200		16.44		7750
[1][2][.]	1750	142	12.29	6310	92%	15.50	6050	143	12.24	11300	93%	27.56	6900	
	1160	94.4		7400		10.27		94.8		13300		18.27		7200
	860	70.0		8250		9.96		70.3		13500		16.18		7700
[1][4][.]	1750	129	13.52	6550	92%	14.62	6050	129	13.61	11800	92%	26.17	7050	
	1160	85.8		7660		9.69		85.2		13800		17.35		7500
	860	63.6		8530		9.36		63.2		14800		16.13		7700
[1][6][.]	1750	111	15.80	6020	88%	12.02	6050	113	15.54	11400	89%	22.89	5400	
	1160	73.4		6730		7.97		74.6		13400		15.17		7850
	860	54.4		7250		7.12		55.3		14300		14.11		7850
[1][8][.]	1750	99.1	17.66	7260	91%	12.54	6050	99.4	17.60	13000	92%	22.29	5600	
	1160	65.69		8430		8.31		65.91		15100		14.78		7600
	860	48.70		9380		7.96		48.86		16200		13.65		8000
[2][0][.]	1750	87.2	20.07	7620	92%	11.46	6050	88.6	19.76	13600	91%	21.00	5700	
	1160	57.8		8820		7.60		58.7		15800		13.92		7850
	860	42.9		9740		7.20		43.5		16900		12.82		8000
[2][2][.]	1750	79.9	21.89	6580	88%	9.48	6050	79.4	22.03	131200	89%	185.80	5800	
	1160	53.0		7290		6.29		52.7		15000		123.16		8550
	860	39.3		7750		5.49		39.0		15800		11.00		10700
[2][5][.]	1750	71.2	24.59	6780	87%	8.80	6050	71.5	24.47	13600	89%	17.34	5900	
	1160	47.2		7490		5.83		47.4		15400		11.49		8750
	860	35.0		7970		5.08		35.1		16200		10.15		10700
[2][8][.]	1750	64.7	27.03	6950	87%	8.21	6050	64.3	27.22	14100	88%	16.34	6100	
	1160	42.9		7650		5.44		42.6		15700		10.83		9000
	860	31.8		8130		4.72		31.6		16500		9.40		10700
[3][2][.]	1750	56.8	30.81	6880	90%	6.89	6050	55.1	31.78	16200	91%	15.55	6300	
	1160	37.7		10200		4.57		36.5		18600		10.31		9000
	860	27.9		11200		5.51		27.1		19700		9.30		10700
[3][6][.]	1750	49.6	35.31	7410	87%	6.70	6050	49.7	35.20	15300	88%	13.71	6400	
	1160	32.9		8070		4.44		33.0		16600		9.09		10700
	860	24.4		8530		3.79		24.4		17300		7.62		10700
[4][0][.]	1750	43.6	40.15	7620	86%	6.13	6050	44.3	39.51	15700	88%	12.54	6600	
	1160	28.9		8280		4.06		29.4		17000		8.31		10700
	860	21.4		8730		3.45		21.8		17600		6.91		10700
[4][5][.]	1750	39.7	44.13	7280	89%	5.15	6050	40.1	43.64	18000	89%	12.87	7000	
	1160	26.3		11400		3.41		26.6		20500		8.53		10700
	860	19.5		12100		4.20		19.7		21800		7.66		10700
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C07 - C08

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0721						C0821					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[5][0][.]	1750	35.1	49.90	7350	89%	4.45	6050	35.5	49.26	18800	90%	11.39	7200
	1160	23.2		6690		2.95		23.5		21300		7.55	9100
	860	17.2		7250		2.23		17.5		22500		6.93	10700
[5][6][.]	1750	32.6	53.62	8090	85%	4.93	6050	32.1	54.60	16700	86%	9.88	7300
	1160	21.6		6440		3.27		21.2		18000		6.55	10700
	860	16.0		6820		2.04		15.8		18600		5.41	10700
[6][3][.]	1750	28.4	61.62	8300	85%	4.40	6050	27.5	63.56	17200	86%	8.74	7450
	1160	18.8		6660		2.92		18.3		18500		5.79	10700
	860	14.0		7050		1.84		13.5		19000		4.74	10700
[7][1][.]	1750	25.4	69.00	7750	88%	3.54	6050	25.1	69.64	20900	88%	9.47	7650
	1160	16.8		7400		2.35		16.7		23400		6.28	10700
	860	12.5		7760		1.74		12.3		24600		5.48	10700
[8][0][.]	1750	23.2	75.56	7820	87%	3.30	6050	22.9	76.50	21500	88%	8.87	8000
	1160	15.4		7560		2.19		15.2		24000		5.88	10700
	860	11.4		7740		1.61		11.2		24300		4.93	10700
[9][0][.]	1750	19.8	88.26	8840	84%	3.31	6050	20.0	87.29	18200	85%	6.81	8100
	1160	13.1		7430		2.19		13.3		19600		4.51	10700
	860	9.74		7820		1.44		9.85		20300		3.73	10700
[1][0][0]	1750	17.5	99.8	9010	83%	3.02	6050	17.8	98.5	18600	84%	6.24	9380
	1160	11.6		7530		2.00		11.8		20000		4.14	
	860	8.62		7970		1.31		8.73		20700		3.41	
[1][1][2]	1750	16.8	104.3	8110	86%	2.51	6050	17.1	102.4	23300	88%	7.18	9380
	1160	11.1		6320		1.66		11.3		25800		4.76	
	860	8.245		6440		0.98		8.398		26900		4.07	
[1][2][5]	1750	15.1	115.9	8080	86%	2.25	6050	14.8	117.9	21700	87%	5.87	9380
	1160	10.01		4660		1.49		9.84		25400		3.89	
	860	7.42		4610		0.63		7.29		25700		3.42	
[1][4][0]	1750	12.7	138.0	9550	82%	2.34	6050	12.6	139.3	19800	83%	4.76	9380
	1160	8.41		8090		1.55		8.33		21300		3.15	
	860	6.23		8570		1.03		6.17		21900		2.58	
[1][6][0]	1750	11.6	151.1	9720	82%	2.18	6050	11.4	153.0	20100	82%	4.45	9380
	1160	7.68		8230		1.44		7.58		21600		2.95	
	860	5.69		8570		0.94		5.62		22300		2.43	
[2][1][2]	1750	8.39	208.6	10300	80%	1.71	6050	8.54	204.8	21200	81%	3.55	9380
	1160	5.56		8570		1.14		5.66		22600		2.35	
	860	4.12		8570		0.70		4.20		23300		1.92	
[2][5][0]	1750	7.55	231.8	10500	80%	1.57	6050	7.42	235.8	21700	81%	3.15	9380
	1160	5.00		7490		1.04		4.92		23100		2.09	
	860	3.71		7490		0.55		3.65		23200		1.66	
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C09 - C10

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0921						C1021							
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)		
[8][0][0]	1750	219	7.973	17300	93%	64.78	8600	220	7.951	30400	93%	114.15	7700		
	1160	145		20600		42.94		10000		146		34000		75.67	10000
	860	108		23300		42.88		10800		108		34000		62.74	10500
[1][1][.]	1750	159	10.98	19800	93%	53.84	9400	158	11.11	35200	94%	93.59	9800		
	1160	105.6		23500		35.69		10000		104.4		41200		62.04	10300
	860	78.3		26200		35.01		10800		77.4		44800		58.54	10700
[1][2][.]	1750	142	12.30	20800	93%	50.49	9400	145	12.08	36500	94%	89.25	9900		
	1160	94.3		24400		33.47		10000		96.0		43011		59.16	10500
	860	69.9		27300		32.57		10800		71.2		46200		55.52	11100
[1][4][.]	1750	127	13.81	21800	93%	47.13	9700	128	13.72	38400	94%	82.68	10300		
	1160	84.0		25600		31.24		10400		84.5		45100		54.80	10900
	860	62.3		28600		30.39		10800		62.7		48500		51.32	12000
[1][6][.]	1750	105	16.68	21400	89%	40.03	10800	105	16.63	38800	90%	71.98	11400		
	1160	69.5		25000		26.53		11100		69.8		44800		47.71	12200
	860	51.6		27900		25.65		11900		51.7		48900		44.58	12600
[1][8][.]	1750	98.4	17.79	24100	93%	40.45	10400	97.9	17.87	42700	93%	71.34	11100		
	1160	65.21		28100		26.81		11100		64.91		49800		47.29	11600
	860	48.34		31200		25.73		11900		48.13		53400		43.84	12400
[2][0][.]	1750	88.0	19.88	25100	92%	38.11	10800	90.7	19.29	43900	93%	67.95	11400		
	1160	58.4		29200		25.26		11500		60.1		51200		45.04	12000
	860	43.3		32500		24.25		11900		44.6		54900		41.76	13000
[2][2][.]	1750	76.2	22.96	24300	88%	33.39	11700	75.3	23.23	44400	90%	58.97	12400		
	1160	50.5		28100		22.14		11900		49.9		50600		39.09	13500
	860	37.5		31300		21.14		11900		37.0		52800		34.46	14900
[2][5][.]	1750	68.0	25.73	25400	89%	30.80	11900	69.3	25.27	45800	90%	55.92	12600		
	1160	45.1		29300		20.41		11900		45.9		51700		37.06	13900
	860	33.4		32700		19.49		11900		34.0		53800		32.28	15600
[2][8][.]	1750	60.6	28.89	26600	89%	28.73	11900	61.0	28.70	48100	90%	51.71	12800		
	1160	40.2		30600		19.04		11900		40.4		53100		34.27	14300
	860	29.8		34000		18.04		11900		30.0		55200		29.16	15800
[3][2][.]	1750	55.7	31.43	29700	92%	28.52	11900	54.9	31.85	53000	92%	50.22	12200		
	1160	36.9		34300		18.90		11900		36.4		61500		33.29	13500
	860	27.4		36500		17.22		11900		27.0		65200		30.36	15300
[3][6][.]	1750	47.0	37.22	29200	88%	24.75	11900	46.8	37.38	51400	90%	42.42	13700		
	1160	31.2		33500		16.41		11900		31.0		56100		28.12	15600
	860	23.1		37000		15.41		11900		23.0		58100		23.57	16200
[4][0][.]	1750	42.1	41.59	30400	87%	23.33	11900	43.4	40.36	52300	90%	39.98	14100		
	1160	27.9		34800		15.46		11900		28.7		56100		26.50	16000
	860	20.7		38300		14.44		11900		21.3		58900		22.13	16600
[4][5][.]	1750	39.3	44.55	33600	91%	23.01	11900	40.1	43.65	59300	92%	41.00	13300		
	1160	26.0		36700		15.25		11900		26.6		67700		27.18	14900
	860	19.3		38000		12.79		11900		19.7		72000		24.47	16600
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SERIES C

DOUBLE REDUCTION RATINGS

SIZES C09 - C10

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0921						C0921					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[5][0][.]	1750	35.4	49.49	34800	91%	20.99	11900	36.1	48.51	60100	91%	36.99	13500
	1160	23.4		37200		13.92		23.9		70200		24.52	15400
	860	17.4		38400		11.63		17.7		73600		22.75	17500
[5][6][.]	1750	30.4	57.66	34200	87%	18.93	11900	29.7	58.85	56600	88%	30.35	15800
	1160	20.1		38600		12.55		19.7		60900		20.12	16600
	860	14.9		42100		11.45		14.6		62700		16.52	19600
[6][3][.]	1750	26.6	65.74	35700	86%	17.53	11900	26.3	66.62	57900	88%	27.42	16600
	1160	17.6		40200		11.62		17.4		62100		18.18	17200
	860	13.1		43700		10.55		12.9		64000		14.90	19600
[7][1][.]	1750	25.0	69.91	36900	89%	16.47	11900	25.3	69.18	62800	80%	31.51	15300
	1160	16.6		38600		10.92		16.8		74900		20.88	17500
	860	12.3		39700		8.71		12.4		76400		18.84	19600
[8][0][.]	1750	22.7	77.18	37300	90%	14.91	11900	22.0	79.71	63500	90%	24.58	16000
	1160	15.0		38900		9.88		14.6		76000		16.29	18400
	860	11.1		40100		7.88		10.8		77400		14.72	19600
[9][0][.]	1750	18.8	93.18	39900	84%	14.15	11900	19.2	91.32	61200	87%	21.39	16600
	1160	12.4		44300		9.38		12.7		65700		14.18	19600
	860	9.23		47600		8.30		9.42		68000		11.68	19600
[1][0][0]	1750	16.9	103.5	41200	84%	13.16	11900	17.2	101.5	62200	87%	19.56	17000
	1160	11.2		45500		8.72		11.4		67000		12.96	19600
	860	8.31		48900		7.67		8.47		69000		10.66	19600
[1][1][2]	1750	16.5	106.2	38600	89%	11.34	11900	16.2	107.8	71700	89%	20.75	17500
	1160	10.9		40100		7.52		10.8		77400		13.75	19600
	860	8.098		41200		5.95		7.978		77000		10.95	19600
[1][2][5]	1750	14.7	119.4	39000	88%	10.31	11900	15.1	115.8	68200	89%	18.37	18000
	1160	9.72		40500		6.83		10.02		70300		12.18	19600
	860	7.20		41500		5.39		7.43		69900		9.25	19600
[1][4][0]	1750	12.0	146.2	45200	83%	10.34	11900	12.1	144.7	68300	85%	15.42	19600
	1160	7.93		49300		6.86		8.02		71500		10.22	
	860	5.88		49400		5.56		5.94		73700		8.18	
[1][6][0]	1750	10.8	161.4	46400	83%	9.62	11900	10.5	166.7	68100	85%	13.34	19600
	1160	7.19		49400		6.38		6.96		73200		8.85	
	860	5.33		49400		5.03		5.16		75400		7.26	
[2][1][2]	1750	7.88	222.1	50000	81%	7.72	11900	7.76	225.5	71900	84%	10.54	19600
	1160	5.22		49400		5.12		5.14		76600		6.99	
	860	3.87		39600		3.00		3.81		78100		5.63	
[2][5][0]	1750	7.01	249.7	51300	81%	7.04	11900	7.22	242.3	72700	83%	10.04	19600
	1160	4.65		49400		4.67		4.79		77400		6.65	
	860	3.44		49400		3.33		3.55		78100		5.30	
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SERIES C

TRIPLE REDUCTION RATINGS

SIZES C03 - C04

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0331						C0431					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ⑦ ⑦	1750	17	105.4	1329	75%	0.47	625	17	105.4	1820	76%	0.63	1180
	1160	11				0.31		11				0.42	
	860	8				0.00		8				0.00	
① ⑧ ⑧	1750	15	120.40	1360	75%	0.42	625	15	120.40	1810	76%	0.55	1180
	1160	9.6				0.28		9.6				0.36	
	860	7.1				0.00		7.1				0.00	
① ⑩ ②	1750	13	130.10	1230	63%	0.42	625	13	130.10	1990	65%	0.65	1180
	1160	8.9				0.28		8.9				0.43	
	860	6.6				0.00		6.6				0.00	
① ⑩ ⑦	1750	12	140.2	1260	63%	0.40	625	12	140.2	2040	64%	0.63	1180
	1160	8.3				0.26		8.3				0.42	
	860	6.1				0.00		6.1				0.00	
① ⑩ ⑦	1750	11	162.5	1360	74%	0.31	625	11	162.5	1790	75%	0.41	1180
	1160	7.1				0.21		7.1				0.27	
	860	5.3				0.00		5.3				0.00	
① ⑩ ⑦	1750	9.2	190.4	1360	73%	0.27	625	9.2	190.4	1780	74%	0.35	1180
	1160	6.09				0.18		6.09				0.23	
	860	4.52				0.00		4.52				0.00	
② ⑦ ⑦	1750	8.7	200.7	1360	62%	0.30	625	8.7	200.7	2290	63%	0.50	1180
	1160	5.8				0.20		5.8				0.33	
	860	4.3				0.00		4.3				0.00	
② ⑦ ⑤	1750	7.6	229.3	1360	61%	0.27	625	7.6	229.3	2400	63%	0.46	1180
	1160	5.1				0.18		5.1				0.31	
	860	3.8				0.00		3.8				0.00	
② ⑦ ⑤	1750	6.6	266.3	1360	72%	0.20	625	6.6	266.3	1760	73%	0.25	1180
	1160	4.4				0.13		4.4				0.17	
	860	3.2				0.00		3.2				0.00	
② ⑦ ⑦	1750	5.9	295.8	1360	72%	0.18	625	5.9	295.8	1750	73%	0.23	1180
	1160	3.9				0.12		3.9				0.15	
	860	2.9				0.00		2.9				0.00	
③ ⑧ ⑤	1750	5.7	309.5	1360	60%	0.20	625	5.7	309.5	2650	62%	0.38	1180
	1160	3.7				0.13		3.7				0.25	
	860	2.8				0.00		2.8				0.00	
③ ⑧ ⑦	1750	4.8	362.6	1360	60%	0.17	625	4.8	362.6	2790	61%	0.35	1180
	1160	3.2				0.12		3.2				0.23	
	860	2.4				0.00		2.4				0.00	
④ ⑦ ⑦	1750	4.3	408.3	1360	72%	0.13	625	4.3	408.3	1740	73%	0.16	1180
	1160	2.8				0.09		2.8				0.11	
	860	2.1				0.00		2.1				0.00	
④ ⑧ ⑦	1750	3.8	464.1	1360	71%	0.11	625	3.8	464.1	1730	72%	0.14	1180
	1160	2.5				0.08		2.5				0.10	
	860	1.9				0.00		1.9				0.00	
⑤ ⑦ ⑦	1750	3.5	507.1	1360	59%	0.13	625	3.5	507.1	2740	60%	0.25	1180
	1160	2.3				0.08		2.3				0.17	
	860	1.7				0.00		1.7				0.00	
⑤ ⑧ ⑦	1750	3.1	563.5	1360	58%	0.12	625	3.1	563.5	2730	60%	0.22	1180
	1160	2.1				0.08		2.1				0.15	
	860	1.5				0.00		1.5				0.00	
⑧ ⑦ ⑦	1750	2.2	777.8	1360	58%	0.08	625	2.2	777.8	2690	59%	0.16	1180
	1160	1.5				0.06		1.5				0.11	
	860	1.1				0.00		1.1				0.00	
⑨ ⑦ ⑦	1750	2.0	883.9	1360	57%	0.07	625	2.0	883.9	2670	58%	0.14	1180
	1160	1.3				0.05		1.3				0.10	
	860	1.0				0.00		1.0				0.00	

SERIES C

TRIPLE REDUCTION RATINGS

SIZES C05 - C06

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0531						C0631					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ① ①	1750	17	103.9	3570	78%	1.22	1650	17	103.9	7270	83%	2.34	2580
	1160	11				0.81		11				1.55	
	860	8				0.00		8				0.00	
① ① ⑧	1750	15	118.7	3560	78%	1.07	1650	15	118.0	7500	83%	2.13	2580
	1160	9.8				0.71		9.8				1.41	
	860	7.2				0.00		7.3				0.00	
① ③ ②	1750	13	130.4	4130	68%	1.29	1650	13	130.0	6800	72%	2.02	2580
	1160	8.9				0.86		8.9				1.34	
	860	6.6				0.00		6.6				0.00	
① ⑤ ①	1750	12	140.5	4220	67%	1.24	1650	12	147.1	7060	71%	1.88	2580
	1160	8.3				0.83		7.9				1.24	
	860	6.1				0.00		5.8				0.00	
① ⑥ ①	1750	11	160.3	3520	77%	0.79	1650	10	169.8	7520	81%	1.52	2580
	1160	7.2				0.52		6.8				1.01	
	860	5.4				0.00		5.1				0.00	
① ⑧ ①	1750	9.3	187.8	3500	76%	0.68	1650	9.5	184.6	7520	81%	1.40	2580
	1160	6.18				0.45		6.28				0.93	
	860	4.58				0.00		4.66				0.00	
② ① ①	1750	8.7	201.1	4700	66%	0.98	1650	8.7	201.0	7520	70%	1.48	2580
	1160	5.8				0.65		5.8				0.98	
	860	4.3				0.00		4.3				0.00	
② ② ⑤	1750	7.6	229.8	4900	65%	0.91	1650	7.7	228.4	7520	69%	1.32	2580
	1160	5.0				0.60		5.1				0.88	
	860	3.7				0.00		3.8				0.00	
② ⑥ ⑤	1750	6.7	262.6	3460	75%	0.49	1650	6.1	286.0	7520	80%	0.91	2580
	1160	4.4				0.32		4.1				0.60	
	860	3.3				0.00		3.0				0.00	
② ⑧ ①	1750	6.0	291.8	3450	75%	0.44	1650	5.8	299.7	7520	80%	0.87	2580
	1160	4.0				0.29		3.9				0.58	
	860	2.9				0.00		2.9				0.00	
③ ① ⑤	1750	5.6	310.2	5170	64%	0.72	1650	5.3	328.7	7520	58%	1.10	2580
	1160	3.7				0.48		3.5				0.73	
	860	2.8				0.00		2.6				0.00	
③ ⑥ ①	1750	4.8	363.4	5260	64%	0.63	1650	4.9	357.3	7520	67%	0.87	2580
	1160	3.2				0.42		3.2				0.58	
	860	2.4				0.00		2.4				0.00	
④ ① ①	1750	4.3	402.7	3420	74%	0.32	1650	4.4	395.4	7520	79%	0.67	2580
	1160	2.9				0.21		2.9				0.44	
	860	2.1				0.00		2.2				0.00	
④ ⑤ ①	1750	3.8	457.7	3410	74%	0.28	1650	3.9	449.5	7520	79%	0.59	2580
	1160	2.5				0.19		2.6				0.39	
	860	1.9				0.00		1.9				0.00	
⑤ ① ①	1750	3.4	508.2	5260	62%	0.46	1650	3.4	514.8	7520	66%	0.61	2580
	1160	2.3				0.31		2.3				0.41	
	860	1.7				0.00		1.7				0.00	
⑤ ⑥ ①	1750	3.1	564.7	5260	62%	0.42	1650	3.0	580.0	7520	65%	0.55	2580
	1160	2.1				0.28		2.0				0.37	
	860	1.5				0.00		1.5				0.00	
⑧ ① ①	1750	2.2	779.4	5260	61%	0.31	1650	2.3	765.3	7520	64%	0.43	2580
	1160	1.5				0.20		1.5				0.28	
	860	1.1				0.00		1.1				0.00	
⑨ ① ①	1750	2.0	885.8	5260	61%	0.27	1650	2.0	870.0	7520	64%	0.38	2580
	1160	1.3				0.18		1.3				0.25	
	860	1.0				0.00		1.0				0.00	

SERIES C

TRIPLE REDUCTION RATINGS

SIZES C07

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0731						N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)						
① ① ①	1750	18	97.3	12100	86%	4.01	6050						
	1160	12				2.66							
	860	9				0.00							
① ① ⑧	1750	15	113.2	12100	86%	3.45	6050						
	1160	10.2				2.29							
	860	7.6				0.00							
① ③ ②	1750	14	125.0	9370	81%	2.57	6050						
	1160	9.3				1.70							
	860	6.9				0.00							
① ⑤ ①	1750	12	141.7	9600	80%	2.35	6050						
	1160	8.2				1.56							
	860	6.1				0.00							
① ⑥ ①	1750	11	160.0	12100	85%	2.47	6050						
	1160	7.3				1.64							
	860	5.4				0.00							
① ⑧ ①	1750	10.2	170.8	12100	84%	2.34	6050						
	1160	6.79				1.55							
	860	5.04				0.00							
② ① ①	1750	9.0	194.7	10200	80%	1.82	6050						
	1160	6.0				1.21							
	860	4.4				0.00							
② ② ⑤	1750	7.7	226.4	10400	79%	1.61	6050						
	1160	5.1				1.07							
	860	3.8				0.00							
② ⑥ ⑤	1750	7.0	249.9	12100	84%	1.60	6050						
	1160	4.6				1.06							
	860	3.4				0.00							
② ⑧ ①	1750	6.4	273.7	12100	84%	1.46	6050						
	1160	4.2				0.97							
	860	3.1				0.00							
③ ① ⑤	1750	5.5	320.0	11000	78%	1.22	6050						
	1160	3.6				0.81							
	860	2.7				0.00							
③ ⑥ ①	1750	5.1	341.6	11100	78%	1.16	6050						
	1160	3.4				0.77							
	860	2.5				0.00							
④ ① ①	1750	4.7	373.8	12100	82%	1.10	6050						
	1160	3.1				0.73							
	860	2.3				0.00							
④ ⑤ ①	1750	4.2	419.2	12100	82%	0.98	6050						
	1160	2.8				0.65							
	860	2.1				0.00							
⑤ ① ①	1750	3.5	499.9	11200	76%	0.82	6050						
	1160	2.3				0.54							
	860	1.7				0.00							
⑤ ⑥ ①	1750	3.2	547.4	11200	76%	0.75	6050						
	1160	2.1				0.50							
	860	1.6				0.00							
⑧ ① ①	1750	2.3	747.7	11200	75%	0.55	6050						
	1160	1.6				0.37							
	860	1.2				0.00							
⑨ ① ①	1750	2.1	838.5	11200	75%	0.49	6050						
	1160	1.4				0.33							
	860	1.0				0.00							

SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C03 - C04

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0341						C0441					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ① ①	1750	1.82	960	1360	70%	0.056	625	1.82	960	1820	70%	0.075	1180
	1160	1.21				0.037		1.21				0.050	
	860	0.90				0.028		0.90				0.037	
① ① ②	1750	1.60	1097	1360	70%	0.049	625	1.60	1097	1820	70%	0.066	1180
	1160	1.06				0.033		1.06				0.044	
	860	0.78				0.024		0.78				0.032	
① ① ③	1750	1.43	1220	1360	70%	0.044	625	1.43	1220	1820	70%	0.059	1180
	1160	0.95				0.029		0.95				0.039	
	860	0.70				0.022		0.70				0.029	
① ① ④	1750	1.30	1345	1360	70%	0.040	625	1.30	1345	1820	70%	0.054	1180
	1160	0.86				0.027		0.86				0.036	
	860	0.64				0.020		0.64				0.026	
① ① ⑥	1750	1.07	1635	1360	69%	0.033	625	1.07	1635	1700	69%	0.042	1180
	1160	0.71				0.022		0.71				0.028	
	860	0.53				0.016		0.53				0.021	
① ① ⑧	1750	1.01	1735	1360	70%	0.031	625	1.01	1735	1820	70%	0.042	1180
	1160	0.67				0.021		0.67				0.028	
	860	0.50				0.015		0.50				0.020	
② ② ①	1750	0.91	1916	1360	69%	0.029	625	0.91	1916	1700	69%	0.036	1180
	1160	0.61				0.019		0.61				0.024	
	860	0.45				0.014		0.45				0.018	
② ② ②	1750	0.84	2081	1360	70%	0.026	625	0.84	2081	1820	70%	0.035	1180
	1160	0.56				0.017		0.56				0.023	
	860	0.41				0.013		0.41				0.017	
② ② ⑤	1750	0.72	2426	1360	70%	0.022	625	0.72	2426	1820	70%	0.030	1180
	1160	0.48				0.015		0.48				0.020	
	860	0.35				0.011		0.35				0.015	
② ② ⑧	1750	0.65	2679	1360	69%	0.020	625	0.65	2679	1700	69%	0.026	1180
	1160	0.43				0.014		0.43				0.017	
	860	0.32				0.010		0.32				0.013	
③ ② ①	1750	0.54	3246	1360	70%	0.017	625	0.54	3246	1820	70%	0.022	1180
	1160	0.36				0.011		0.36				0.015	
	860	0.26				0.008		0.26				0.011	
③ ② ⑥	1750	0.49	3585	1360	69%	0.015	625	0.49	3585	1700	69%	0.019	1180
	1160	0.32				0.010		0.32				0.013	
	860	0.24				0.008		0.24				0.009	
④ ② ①	1750	0.43	4109	1360	69%	0.013	625	0.43	4109	1700	69%	0.017	1180
	1160	0.28				0.009		0.28				0.011	
	860	0.21				0.007		0.21				0.008	
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C03 - C04

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0341						C0441					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[4][5][C]	1750	0.37	4670	1360	69%	0.012	625	0.37	4670	1700	70%	0.014	1180
	1160	0.25				0.008		0.25				0.010	
	860	0.18				0.006		0.18				0.007	
[5][0][C]	1750	0.35	4978	1360	68%	0.011	625	0.35	4978	2400	69%	0.019	1180
	1160	0.23				0.007		0.23				0.013	
	860	0.17				0.005		0.17				0.010	
[5][6][C]	1750	0.31	5658	1360	68%	0.010	625	0.31	5658	2400	69%	0.017	1180
	1160	0.21				0.007		0.21				0.011	
	860	0.15				0.005		0.15				0.008	
[6][3][C]	1750	0.27	6485	1360	68%	0.009	625	0.27	6485	2400	69%	0.015	1180
	1160	0.18				0.006		0.18				0.010	
	860	0.13				0.004		0.13				0.007	
[7][1][C]	1750	0.24	7370	1360	68%	0.008	625	0.24	7370	2400	69%	0.013	1180
	1160	0.16				0.005		0.16				0.009	
	860	0.12				0.004		0.12				0.006	
[8][0][C]	1750	0.22	7874	1360	53%	0.009	625	0.22	7874	2400	54%	0.016	1180
	1160	0.15				0.006		0.15				0.010	
	860	0.11				0.004		0.11				0.008	
[9][0][C]	1750	0.20	8949	1360	53%	0.008	625	0.20	8949	2400	54%	0.014	1180
	1160	0.13				0.005		0.13				0.009	
	860	0.10				0.004		0.10				0.007	
[1][0][K]	1750	0.18	9482	1360	53%	0.008	625	0.18	9482	1680	53%	0.009	1180
	1160	0.12				0.005		0.12				0.006	
	860	0.09				0.004		0.09				0.005	
[1][1][K]	1750	0.16	10869	1360	53%	0.007	625	0.16	10869	1680	53%	0.008	1180
	1160	0.11				0.004		0.11				0.005	
	860	0.08				0.003		0.08				0.004	
[1][2][K]	1750	0.14	12352	1360	53%	0.006	625	0.14	12352	1680	53%	0.007	1180
	1160	0.09				0.004		0.09				0.005	
	860	0.07				0.003		0.07				0.004	
[1][4][K]	1750	0.12	14038	1360	52%	0.005	625	0.12	14038	1620	53%	0.006	1180
	1160	0.08				0.003		0.08				0.004	
	860	0.06				0.003		0.06				0.003	
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C05 - C06

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0541						C0641					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ① ①	1750	1.85	945	3600	73%	0.14	1650	1.71	1022	6770	77%	0.24	2580
	1160	1.23				0.10		1.14				0.16	
	860	0.91				0.07		0.84				0.12	
① ① ②	1750	1.62	1080	3600	73%	0.13	1650	1.58	1111	6770	77%	0.22	2580
	1160	1.07				0.08		1.04				0.15	
	860	0.80				0.06		0.77				0.11	
① ② ②	1750	1.46	1201	3600	73%	0.11	1650	1.35	1300	6770	77%	0.19	2580
	1160	0.97				0.08		0.89				0.12	
	860	0.72				0.06		0.66				0.09	
① ④ ④	1750	1.32	1324	3600	73%	0.10	1650	1.17	1495	6770	77%	0.16	2580
	1160	0.88				0.07		0.78				0.11	
	860	0.65				0.05		0.58				0.08	
① ⑥ ⑥	1750	1.07	1642	3570	72%	0.08	1650	1.08	1625	6770	77%	0.15	2580
	1160	0.71				0.06		0.71				0.10	
	860	0.52				0.04		0.53				0.07	
① ⑧ ⑧	1750	1.03	1707	3600	73%	0.08	1650	0.98	1780	6770	76%	0.14	2580
	1160	0.68				0.05		0.65				0.09	
	860	0.50				0.04		0.48				0.07	
② ① ①	1750	0.91	1924	3570	72%	0.07	1650	0.90	1951	6770	77%	0.13	2580
	1160	0.60				0.05		0.59				0.08	
	860	0.45				0.04		0.44				0.06	
② ② ②	1750	0.85	2048	3600	73%	0.07	1650	0.75	2342	6770	77%	0.10	2580
	1160	0.57				0.04		0.50				0.07	
	860	0.42				0.03		0.37				0.05	
② ⑤ ⑤	1750	0.73	2387	3600	73%	0.06	1650	0.66	2638	6770	77%	0.09	2580
	1160	0.49				0.04		0.44				0.06	
	860	0.36				0.03		0.33				0.05	
② ⑧ ⑧	1750	0.65	2690	3570	72%	0.05	1650	0.61	2889	6770	76%	0.09	2580
	1160	0.43				0.03		0.40				0.06	
	860	0.32				0.03		0.30				0.04	
③ ② ②	1750	0.55	3195	3600	73%	0.04	1650	0.57	3067	6770	77%	0.08	2580
	1160	0.36				0.03		0.38				0.05	
	860	0.27				0.02		0.28				0.04	
③ ⑥ ⑥	1750	0.49	3599	3570	72%	0.04	1650	0.52	3359	6770	76%	0.07	2580
	1160	0.32				0.03		0.35				0.05	
	860	0.24				0.02		0.26				0.04	
④ ① ①	1750	0.42	4126	3570	72%	0.03	1650	0.46	3812	6770	76%	0.06	2580
	1160	0.28				0.02		0.30				0.04	
	860	0.21				0.02		0.23				0.03	
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C05 - C06

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0541						C0641					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[4][5][C]	1750	0.37	4689	3570	72%	0.029	1650	0.40	4334	6770	76%	0.057	2580
	1160	0.25				0.019		0.27				0.038	
	860	0.18				0.014		0.20				0.028	
[5][0][C]	1750	0.37	4778	3480	71%	0.028	1650	0.34	5145	6770	76%	0.048	2580
	1160	0.24				0.019		0.23				0.032	
	860	0.18				0.014		0.17				0.024	
[5][6][C]	1750	0.32	5399	3410	71%	0.025	1650	0.30	5920	6770	76%	0.042	258
	1160	0.21				0.016		0.20				0.028	
	860	0.16				0.012		0.15				0.021	
[6][3][C]	1750	0.28	6189	3410	71%	0.022	1650	0.26	6639	6770	76%	0.037	2580
	1160	0.19				0.014		0.17				0.025	
	860	0.14				0.011		0.13				0.018	
[7][1][C]	1750	0.25	7033	3410	71%	0.019	1650	0.24	7378	6770	58%	0.044	2580
	1160	0.16				0.013		0.16				0.029	
	860	0.12				0.009		0.12				0.022	
[8][0][C]	1750	0.22	7985	4260	55%	0.027	1650	0.21	8388	6770	58%	0.039	2580
	1160	0.15				0.018		0.14				0.026	
	860	0.11				0.013		0.10				0.019	
[9][0][C]	1750	0.19	9075	4260	55%	0.024	1650	0.20	8879	6770	57%	0.037	2580
	1160	0.13				0.016		0.13				0.025	
	860	0.09				0.012		0.10				0.018	
[1][0][K]	1750	0.19	9192	4260	54%	0.024	1650	0.17	10078	6770	57%	0.033	2580
	1160	0.13				0.016		0.12				0.022	
	860	0.09				0.012		0.09				0.016	
[1][1][K]	1750	0.17	10536	4260	54%	0.021	1650	0.15	11457	6770	57%	0.029	2580
	1160	0.11				0.014		0.10				0.019	
	860	0.08				0.010		0.08				0.014	
[1][2][K]	1750	0.15	11974	4260	54%	0.018	1650	0.14	12849	6770	56%	0.026	2580
	1160	0.10				0.012		0.09				0.017	
	860	0.07				0.009		0.07				0.013	
[1][4][K]	1750	0.13	13613	4260	54%	0.016	1650						
	1160	0.09				0.011							
	860	0.06				0.008							
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C07

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0741						N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)						
① ① ①	1750	1.73	1009	11900	81%	0.40	6050						
	1160	1.15				0.27							
	860	0.85				0.20							
① ① ①	1750	1.59	1097	11900	81%	0.37	6050						
	1160	1.06				0.25							
	860	0.78				0.18							
① ② ①	1750	1.44	1213	11900	80%	0.34	6050						
	1160	0.96				0.23							
	860	0.71				0.17							
① ④ ①	1750	1.25	1396	11900	80%	0.30	6050						
	1160	0.83				0.20							
	860	0.62				0.15							
① ⑥ ①	1750	1.15	1517	11900	80%	0.27	6050						
	1160	0.76				0.18							
	860	0.57				0.13							
① ⑧ ①	1750	1.05	1662	11900	80%	0.25	6050						
	1160	0.70				0.16							
	860	0.52				0.12							
② ① ①	1750	0.88	1995	11900	80%	0.21	6050						
	1160	0.58				0.14							
	860	0.43				0.10							
② ② ①	1750	0.80	2186	11900	80%	0.19	6050						
	1160	0.53				0.13							
	860	0.39				0.09							
② ⑤ ①	1750	0.71	2463	11900	80%	0.17	6050						
	1160	0.47				0.11							
	860	0.35				0.08							
② ⑧ ①	1750	0.61	2863	11900	80%	0.14	6050						
	1160	0.41				0.10							
	860	0.30				0.07							
③ ② ①	1750	0.56	3135	11900	80%	0.13	6050						
	1160	0.37				0.09							
	860	0.27				0.06							
③ ⑥ ①	1750	0.52	3359	11900	80%	0.12	6050						
	1160	0.35				0.08							
	860	0.26				0.06							
④ ① ①	1750	0.43	4046	11900	80%	0.10	6050						
	1160	0.29				0.07							
	860	0.21				0.05							
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C07

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry [6][7][8]	Input Speed N1 (rpm)	C0741											
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
[4][5][C]	1750	0.40	4329	11900	80%	0.095	6050						
	1160	0.27				0.063							
	860	0.20				0.047							
[5][0][C]	1750	0.36	4913	11200	78%	0.081	6050						
	1160	0.24				0.054							
	860	0.18				0.040							
[5][6][C]	1750	0.31	5585	11200	78%	0.071	6050						
	1160	0.21				0.047							
	860	0.15				0.035							
[6][3][C]	1750	0.28	6206	10100	78%	0.058	6050						
	1160	0.19				0.038							
	860	0.14				0.028							
[7][1][C]	1750	0.25	7117	10100	72%	0.055	6050						
	1160	0.16				0.036							
	860	0.12				0.027							
[8][0][C]	1750	0.22	8091	10100	72%	0.048	6050						
	1160	0.14				0.032							
	860	0.11				0.024							
[9][0][C]	1750	0.20	8657	10600	71%	0.048	6050						
	1160	0.13				0.032							
	860	0.10				0.024							
[1][0][K]	1750	0.18	9826	10600	71%	0.042	6050						
	1160	0.12				0.028							
	860	0.09				0.021							
[1][1][K]	1750	0.16	11171	10600	71%	0.037	6050						
	1160	0.10				0.025							
	860	0.08				0.018							
[1][2][K]	1750	0.14	12412	10800	71%	0.034	6050						
	1160	0.09				0.023							
	860	0.07				0.017							
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SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C08 - C09

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥⑦⑧	Input Speed N1 (rpm)	C0841						C0941					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
①⑥⑦	1750	11.18	156	23000	81%	5.039	9380	10.96	160	42500	82%	8.974	11900
	1160	7.41		3.340		7.26		5.948					
	860	5.50		2.476		5.39		4.410					
①⑧⑦	1750	9.91	177	23000	81%	4.464	9380	9.86	177	42500	82%	8.077	11900
	1160	6.57		2.959		6.54		5.354					
	860	4.87		2.194		4.85		3.969					
②①②	1750	7.96	220	23000	81%	3.584	9380	7.79	225	42500	82%	6.383	11900
	1160	5.27		2.376		5.17		4.231					
	860	3.91		1.762		3.83		3.137					
②⑤⑦	1750	7.05	248	23000	81%	3.176	9380	7.02	249	42500	82%	5.745	11900
	1160	4.67		2.105		4.65		3.808					
	860	3.46		1.561		3.45		2.823					
②⑧⑦	1750	6.32	277	23000	81%	2.849	9380	6.20	282	42500	82%	5.074	11900
	1160	4.19		1.889		4.11		3.363					
	860	3.11		1.400		3.04		2.493					
③②⑦	1750	5.60	312	23000	81%	2.524	9380	5.58	314	42500	82%	4.575	11900
	1160	3.71		1.673		3.70		3.033					
	860	2.75		1.240		2.74		2.248					
③⑥⑦	1750	4.98	351	23000	81%	2.243	9380	4.88	359	42500	82%	3.995	11900
	1160	3.30		1.487		3.23		2.648					
	860	2.45		1.102		2.40		1.963					
④⑦⑦	1750	4.39	398	23000	81%	1.979	9380	4.30	407	42500	82%	3.524	11900
	1160	2.91		1.312		2.85		2.336					
	860	2.16		0.973		2.11		1.732					
④⑤⑦	1750	3.89	450	23000	81%	1.753	9380	3.87	452	42500	82%	3.178	11900
	1160	2.58		1.162		2.57		2.107					
	860	1.91		0.862		1.90		1.562					
⑤⑦⑦	1750	3.68	475	23000	81%	1.659	9380	3.61	485	42500	82%	2.955	11900
	1160	2.44		1.100		2.39		1.959					
	860	1.81		0.815		1.77		1.452					
⑤⑥⑦	1750	3.20	547	23000	81%	1.441	9380	3.13	558	42500	82%	2.566	11900
	1160	2.12		0.955		2.08		1.701					
	860	1.57		0.708		1.54		1.261					
⑥③⑦	1750	2.75	636	23000	81%	1.239	9380	2.69	649	42500	82%	2.207	11900
	1160	1.82		0.821		1.79		1.463					
	860	1.35		0.609		1.32		1.084					
⑦①⑦	1750	2.46	712	23000	81%	1.107	9380	2.41	727	42500	82%	1.972	11900
	1160	1.63		0.734		1.60		1.307					
	860	1.21		0.544		1.18		0.969					
⑧⑦⑦	1750	2.31	759	23000	81%	1.039	9380	2.26	774	42500	82%	1.850	11900
	1160	1.53		0.689		1.50		1.227					
	860	1.13		0.511		1.11		0.909					
⑨⑦⑦	1750	1.95	899	23000	81%	0.877	9380	1.91	918	42500	82%	1.561	11900
	1160	1.29		0.581		1.26		1.035					
	860	0.96		0.431		0.94		0.767					
①⑦⑦	1750	1.82	960	23000	81%	0.821	9380	1.79	980	42500	82%	1.462	11900
	1160	1.21		0.544		1.18		0.969					
	860	0.90		0.404		0.88		0.719					
①①⑦	1750	1.61	1084	23000	81%	0.727	9380	1.61	1089	42500	81%	1.337	11900
	1160	1.07		0.482		1.07		0.886					
	860	0.79		0.358		0.79		0.657					
①②⑦	1750	1.47	1191	23000	81%	0.662	9380	1.44	1216	42500	82%	1.178	11900
	1160	0.97		0.439		0.95		0.781					
	860	0.72		0.325		0.71		0.579					

SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C08 - C09

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0841						C0941					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ④ C	1750	1.25	1405	23000	81%	0.561	9380	1.22	1434	42500	82%	0.999	11900
	1160	0.83				0.372						0.662	
	860	0.61				0.276						0.491	
① ⑥ C	1750	1.14	1532	23000	80%	0.521	9380	1.14	1538	42500	81%	0.944	11900
	1160	0.76				0.345						0.626	
	860	0.56				0.256						0.464	
① ⑧ C	1750	0.92	1901	23000	80%	0.420	9380	0.92	1908	42500	81%	0.761	11900
	1160	0.61				0.278						0.504	
	860	0.45				0.206						0.374	
② ⑩ C	1750	0.84	2088	23000	79%	0.387	9380	0.83	2107	42500	81%	0.692	11900
	1160	0.56				0.257						0.459	
	860	0.41				0.190						0.340	
② ⑫ C	1750	0.78	2242	23000	80%	0.356	9380	0.78	2250	42500	81%	0.648	11900
	1160	0.52				0.236						0.430	
	860	0.38				0.175						0.319	
② ⑮ C	1750	0.71	2463	23000	79%	0.328	9380	0.70	2484	42500	81%	0.585	11900
	1160	0.47				0.218						0.387	
	860	0.35				0.161						0.287	
② ⑱ C	1750	0.65	2697	23000	79%	0.300	9380	0.64	2720	42500	81%	0.536	11900
	1160	0.43				0.199						0.355	
	860	0.32				0.147						0.264	
③ ⑲ C	1750	0.53	3305	23000	79%	0.245	9380	0.52	3334	42500	81%	0.438	11900
	1160	0.35				0.162						0.290	
	860	0.26				0.120						0.215	
③ ⑳ C	1750	0.47	3761	23000	80%	0.212	9380	0.46	3775	42500	81%	0.385	11900
	1160	0.31				0.141						0.255	
	860	0.23				0.104						0.189	
④ ⑰ C	1750	0.42	4131	23000	79%	0.196	9380	0.42	4167	42500	81%	0.350	11900
	1160	0.28				0.130						0.232	
	860	0.21				0.096						0.172	
④ ⑳ C	1750	0.40	4423	23000	78%	0.185	9380	0.38	4586	42500	80%	0.322	11900
	1160	0.26				0.123						0.213	
	860	0.19				0.091						0.158	
⑤ ⑰ C	1750	0.36	4929	23000	78%	0.166	9380	0.34	5112	42500	80%	0.288	11900
	1160	0.24				0.110						0.191	
	860	0.17				0.082						0.142	
⑤ ⑱ C	1750	0.32	5528	23000	78%	0.148	9380	0.31	5733	42500	80%	0.257	11900
	1160	0.21				0.098						0.170	
	860	0.16				0.073						0.126	
⑥ ⑲ C	1750	0.27	6366	23000	78%	0.129	9380	0.27	6447	42500	79%	0.230	11900
	1160	0.18				0.085						0.153	
	860	0.14				0.063						0.113	
⑦ ⑰ C	1750	0.26	6707	23000	73%	0.130	9380	0.25	7041	42500	75%	0.224	11900
	1160	0.17				0.086						0.148	
	860	0.13				0.064						0.110	
⑧ ⑰ C	1750	0.21	8262	23000	73%	0.106	9380	0.22	7897	42500	75%	0.200	11900
	1160	0.14				0.070						0.132	
	860	0.10				0.052						0.098	
⑨ ⑰ C	1750	0.20	8845	23000	72%	0.100	9380	0.20	8718	42500	75%	0.181	11900
	1160	0.13				0.066						0.120	
	860	0.10				0.049						0.089	
⑩ ⑰ K	1750	0.18	9859	23000	72%	0.090	9380	0.18	9594	42500	73%	0.168	11900
	1160	0.12				0.060						0.111	
	860	0.09				0.044						0.083	

SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C08 - C09

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C0841						C0941					
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)	N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
① ① K	1750	0.16	11057	23000	72%	0.080	9380	0.16	10693	42500	73%	0.151	11900
	1160	0.10				0.053		0.11		0.100			
	860	0.08				0.039		0.08		0.074			
① ② K	1750	0.14	12732	23000	72%	0.070	9380	0.15	11993	42500	73%	0.134	11900
	1160	0.09				0.046		0.10		0.089			
	860	0.07				0.034		0.07		0.066			
① ④ K	1750							0.13	13485	42500	73%	0.120	11900
	1160						0.09	0.080					
	860						0.06	0.059					

SERIES C

QUADRUPLE REDUCTION RATINGS SIZES C10

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry 6 7 8	Input Speed N1 (rpm)	C1041						N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)						
□ □ 1	6 0	1750	10.90	161	73700	83%	15.391	19600					
		1160	7.22				10.202						
		860	5.36				7.564						
□ □ 1	8 0	1750	9.81	178	72100	83%	13.550	19600					
		1160	6.50				8.982						
		860	4.82				6.659						
□ □ 2	1 2	1750	7.87	222	73700	83%	11.113	19600					
		1160	5.22				7.366						
		860	3.87				5.461						
□ □ 2	5 0	1750	7.08	247	72100	83%	9.783	19600					
		1160	4.69				6.485						
		860	3.48				4.808						
□ □ 2	8 0	1750	6.37	275	73700	83%	8.997	19600					
		1160	4.22				5.964						
		860	3.13				4.421						
□ □ 3	2 0	1750	5.73	305	72100	83%	7.921	19600					
		1160	3.80				5.250						
		860	2.82				3.892						
□ □ 3	6 0	1750	4.88	359	73700	83%	6.888	19600					
		1160	3.23				4.566						
		860	2.40				3.385						
□ □ 4	0 0	1750	4.29	408	73700	83%	6.058	19600					
		1160	2.84				4.016						
		860	2.11				2.977						
□ □ 4	5 0	1750	3.86	453	72100	83%	5.334	19600					
		1160	2.56				3.535						
		860	1.90				2.621						
□ □ 5	0 0	1750	3.53	495	73700	83%	4.989	19600					
		1160	2.34				3.307						
		860	1.74				2.452						
□ □ 5	6 0	1750	3.21	545	73700	83%	4.536	19600					
		1160	2.13				3.006						
		860	1.58				2.229						
□ □ 6	3 0	1750	2.80	626	73700	83%	3.947	19600					
		1160	1.85				2.616						
		860	1.37				1.940						
□ □ 7	1 0	1750	2.46	710	73700	83%	3.481	19600					
		1160	1.63				2.307						
		860	1.21				1.711						
□ □ 8	0 0	1750	2.23	783	73700	83%	3.156	19600					
		1160	1.48				2.092						
		860	1.10				1.551						
□ □ 9	0 0	1750	1.95	897	73700	83%	2.756	19600					
		1160	1.29				1.827						
		860	0.96				1.354						
□ □ 1	0 C	1750	1.73	1014	73700	83%	2.437	19600					
		1160	1.14				1.616						
		860	0.85				1.198						
□ □ 1	1 C	1750	1.55	1127	72100	83%	2.146	19600					
		1160	1.03				1.422						
		860	0.76				1.054						
□ □ 1	2 C	1750	1.49	1176	73700	83%	2.102	19600					
		1160	0.99				1.393						
		860	0.73				1.033						

SERIES C

QUADRUPLE REDUCTION RATINGS

SIZES C10

N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥ ⑦ ⑧	Input Speed N1 (rpm)	C1041						N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)						
① ④ C	1750	1.25	1402	73700	83%	1.762	19600						
	1160	0.83				1.168							
	860	0.61				0.866							
① ⑥ C	1750	1.09	1607	74500	82%	1.572	19600						
	1160	0.72				1.042							
	860	0.54				0.773							
① ⑧ C	1750	0.94	1863	74500	82%	1.356	19600						
	1160	0.62				0.899							
	860	0.46				0.666							
② ⑩ C	1750	0.82	2146	74700	82%	1.180	19600						
	1160	0.54				0.782							
	860	0.40				0.580							
② ⑫ C	1750	0.79	2222	74500	82%	1.137	19600						
	1160	0.52				0.754							
	860	0.39				0.559							
② ⑮ C	1750	0.68	2560	74700	82%	0.989	19600						
	1160	0.45				0.656							
	860	0.34				0.486							
② ⑱ C	1750	0.62	2804	74700	82%	0.903	19600						
	1160	0.41				0.599							
	860	0.31				0.444							
③ ⑲ C	1750	0.52	3364	74700	82%	0.753	19600						
	1160	0.34				0.499							
	860	0.26				0.370							
③ ⑳ C	1750	0.47	3733	74500	82%	0.677	19600						
	1160	0.31				0.449							
	860	0.23				0.333							
④ ⑲ C	1750	0.41	4301	74700	82%	0.589	19600						
	1160	0.27				0.390							
	860	0.20				0.289							
④ ㉑ C	1750	0.38	4550	76600	81%	0.577	19600						
	1160	0.25				0.383							
	860	0.19				0.284							
⑤ ⑲ C	1750	0.33	5235	76600	81%	0.502	19600						
	1160	0.22				0.333							
	860	0.16				0.247							
⑤ ㉑ C	1750	0.30	5817	76600	81%	0.451	19600						
	1160	0.20				0.299							
	860	0.15				0.222							
⑥ ㉑ C	1750	0.28	6249	70600	81%	0.387	19600						
	1160	0.19				0.257							
	860	0.14				0.190							
⑦ ⑲ C	1750	0.25	7027	77000	77%	0.393	19600						
	1160	0.17				0.261							
	860	0.12				0.193							
⑧ ⑲ C	1750	0.22	7808	77000	77%	0.354	19600						
	1160	0.15				0.235							
	860	0.11				0.174							
⑨ ⑲ C	1750	0.19	8996	76900	76%	0.310	19600						
	1160	0.13				0.206							
	860	0.10				0.153							
⑩ ⑲ K	1750	0.18	9518	76700	76%	0.296	19600						
	1160	0.12				0.196							
	860	0.09				0.146							

SERIES C

QUADRUPLE REDUCTION RATINGS SIZES C10

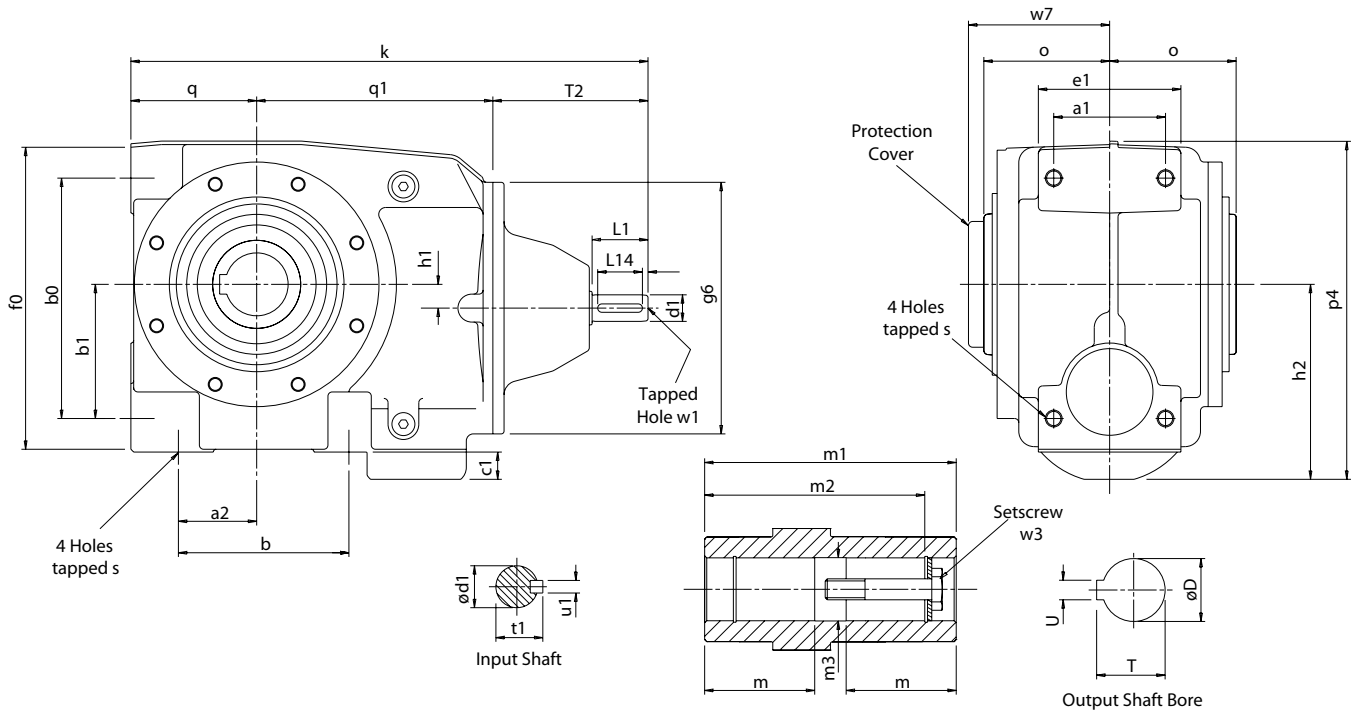
N2 - Output Speed (rpm) M2 - Output Torque (lb-in) Pm - Input Power (HP)
 i - Exact Ratio (:1) η - Efficiency (%) fra - Overhung Load (lb's)

Column Entry ⑥⑦⑧	Input Speed N1 (rpm)	C1041						N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)
		N2 (rpm)	i (:1)	M2 (lb-in)	η (%)	Pm (HP)	fra (lb's)						
①①K	1750	0.16	10951	76700	76%	0.257	19600						
	1160	0.11				0.171							
	860	0.08				0.127							
①②K	1750	0.14	12167	76700	76%	0.232	19600						
	1160	0.10				0.154							
	860	0.07				0.114							
①④K	1750	0.13	13072	76700	76%	0.216	19600						
	1160	0.09				0.143							
	860	0.07				0.106							
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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

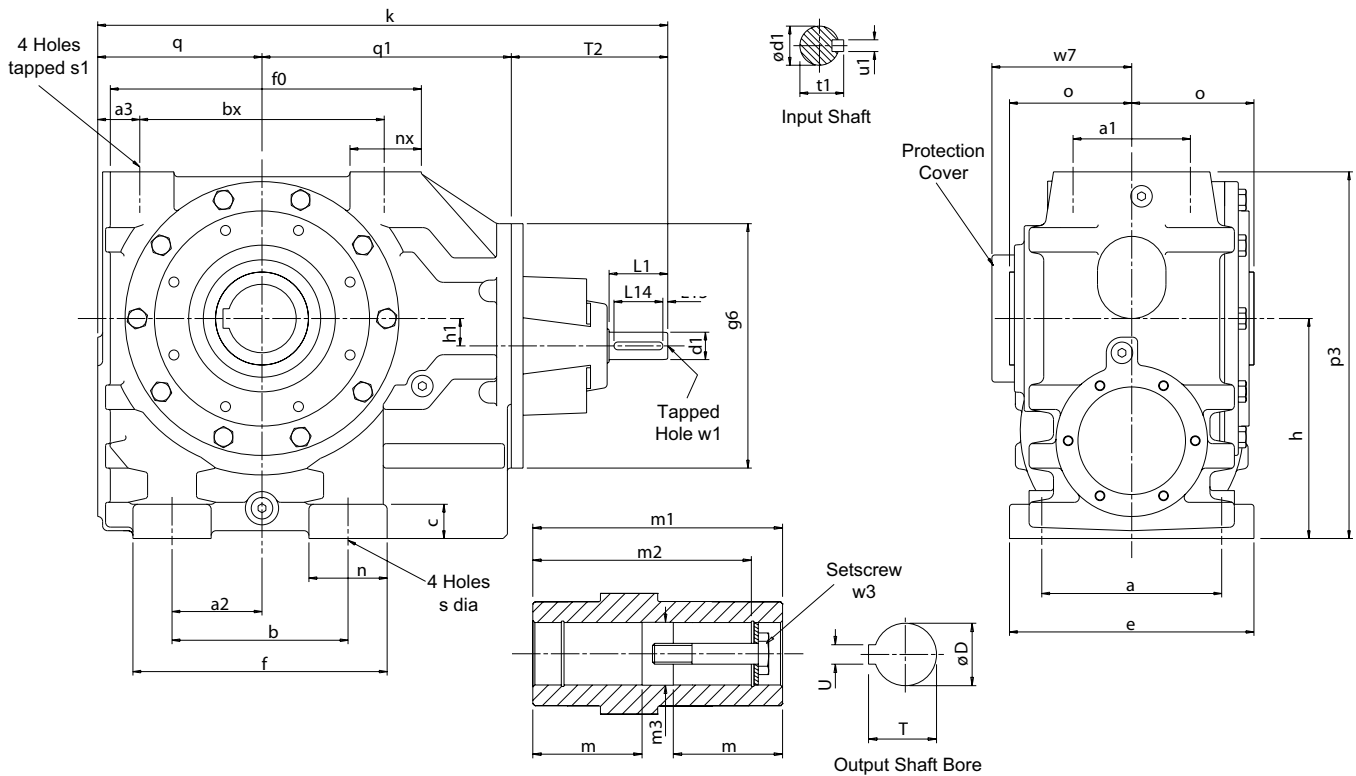
SIZE	p4	q	q1	s	w7	T2	g6	k
C0321	5.83	2.13	4.29	M8, 0.59 deep	2.76	4.37	5.51	10.79
C0421	6.61	2.52	4.69	M10, 0.79 deep	2.93	4.37	5.51	11.57
C0521	7.87	2.68	5.28	M10, 0.71 deep	3.11	4.37	5.51	12.32
C0621	9.57	3.54	6.65	M12, 0.79 deep	3.98	4.37	7.09	14.57

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

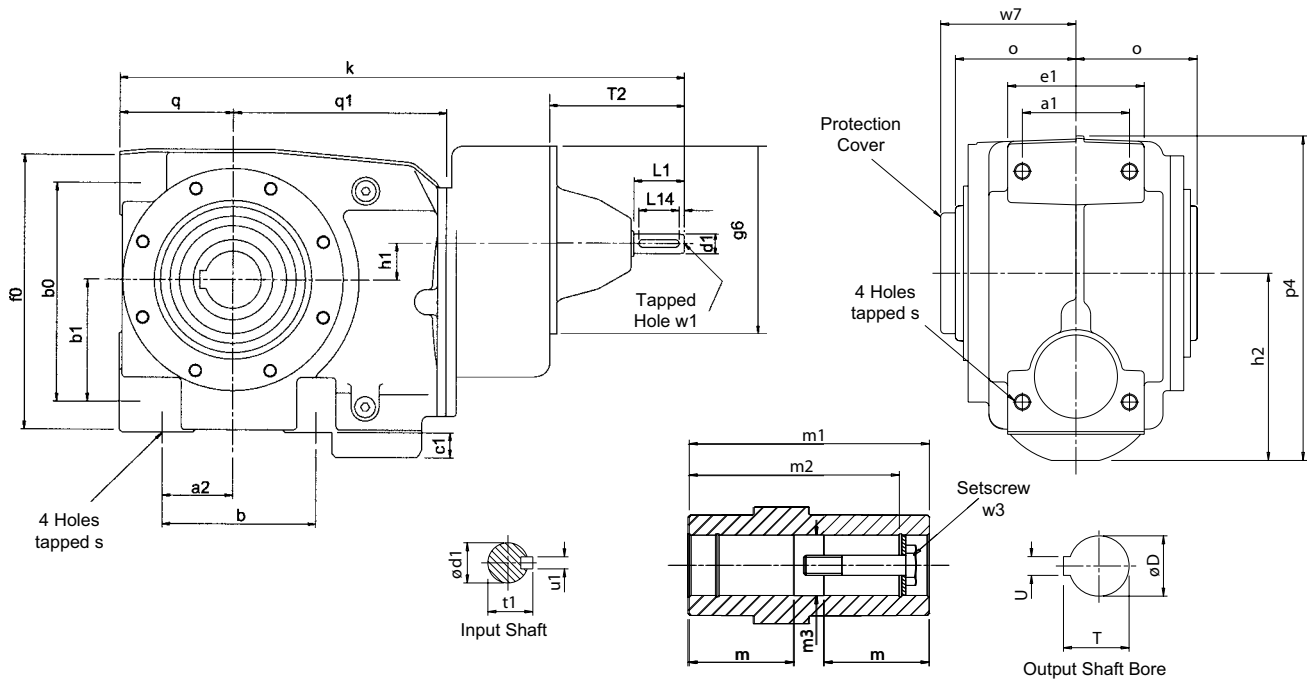
SIZE	p3	q	q1	s	s1	w7	T2	g6	k
C0721	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.92	4.53	8.35	18.82
C0821	14.76	6.61	10.04	0.87	M20, 1.34 deep	5.63	6.30	9.84	22.95
C0921	17.99	7.68	11.81	1.02	M24, 1.77 deep	6.65	7.68	11.81	27.16
C1021	22.24	9.25	13.98	1.02	M24, 1.77 deep	7.80	9.17	14.17	32.40

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

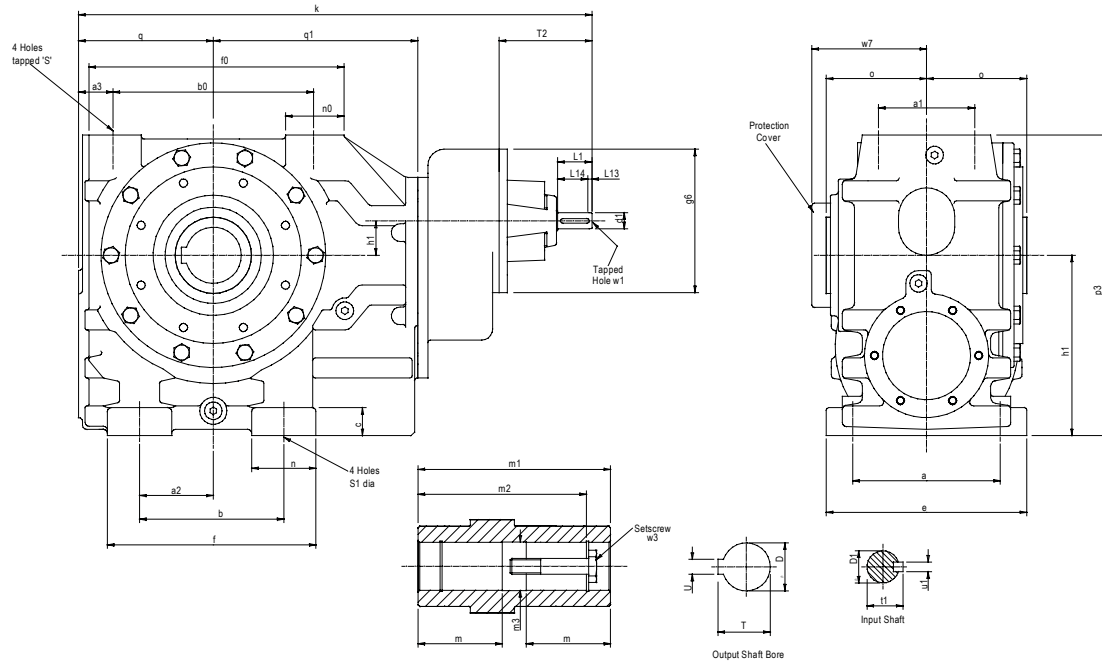
SIZE	p4	q	q1	s	T2	w7	g6
C0331	5.83	2.13	4.29	M8, 0.59 deep	4.37	2.76	5.51
C0431	6.61	2.52	4.69	M10, 0.79 deep	4.37	2.93	5.51
C0531	7.87	2.68	5.28	M10, 0.71 deep	4.37	3.11	5.51
C0631	9.57	3.54	6.65	M12, 0.79 deep	4.37	3.98	7.09

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

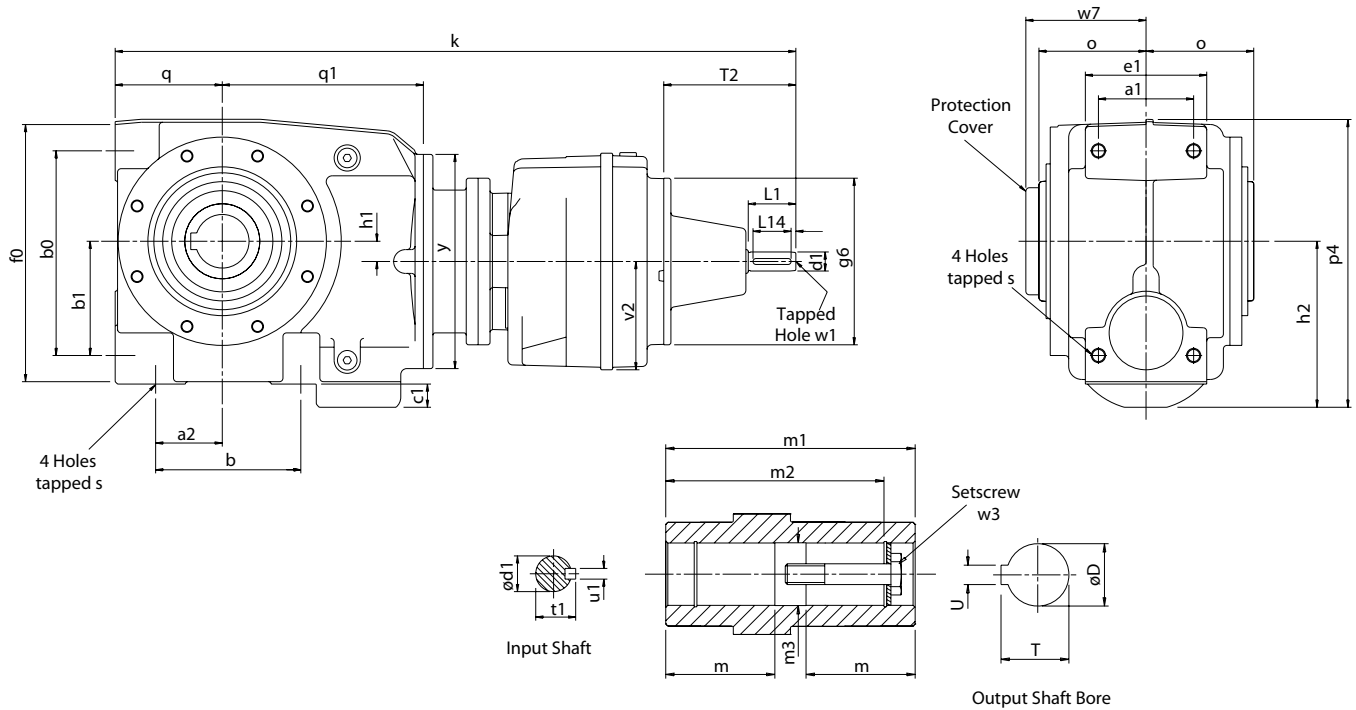
SIZE	p3	q	q1	s	s1	T2	w7	g6
C0731	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.37	4.92	8.35

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

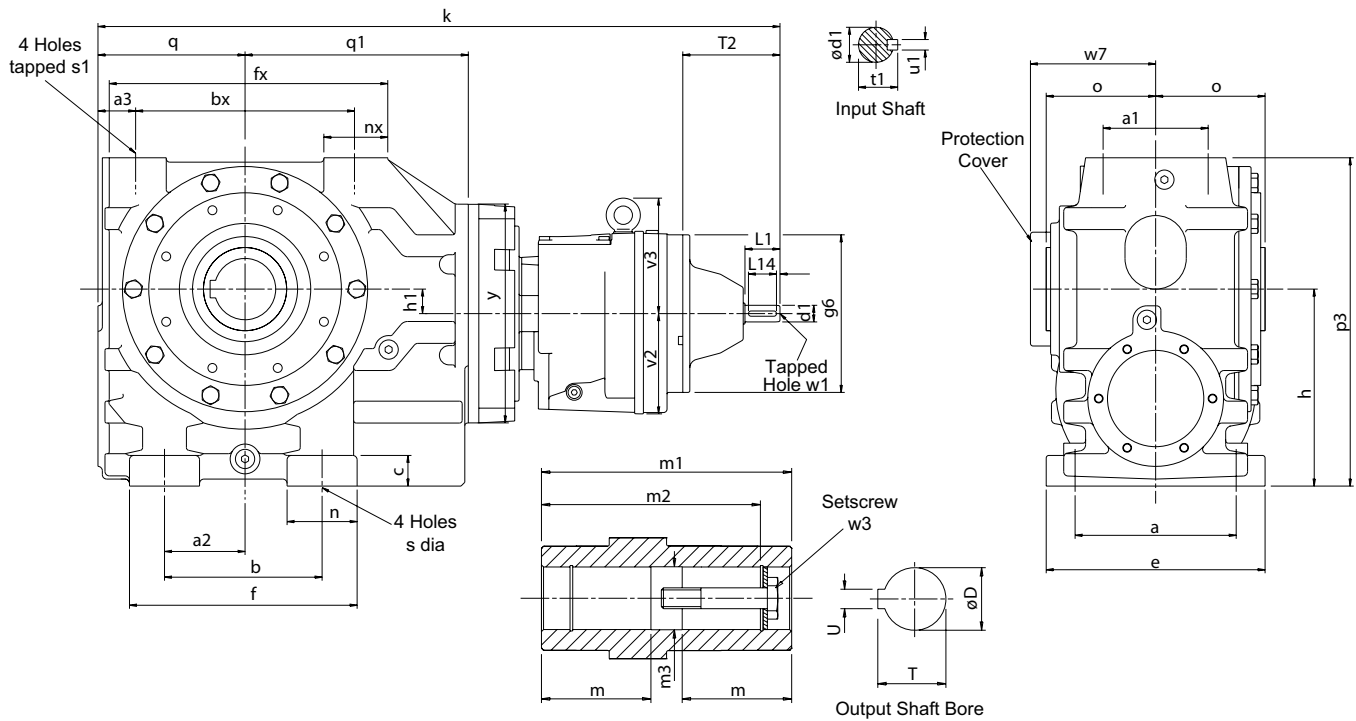
SIZE	p4	q	q1	s	v2	w7	y	T2	g6	k
C0341	5.83	2.13	4.29	M8, 0.59 deep	2.99	2.76	5.51	4.37	5.51	18.11
C0441	6.61	2.52	4.69	M10, 0.79 deep	2.99	2.93	5.51	4.37	5.51	18.90
C0541	7.87	2.68	5.28	M10, 0.71 deep	2.99	3.11	5.51	4.37	5.51	19.65
C0641	9.57	3.54	6.65	M12, 0.79 deep	3.58	3.98	7.09	4.37	5.51	22.52

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

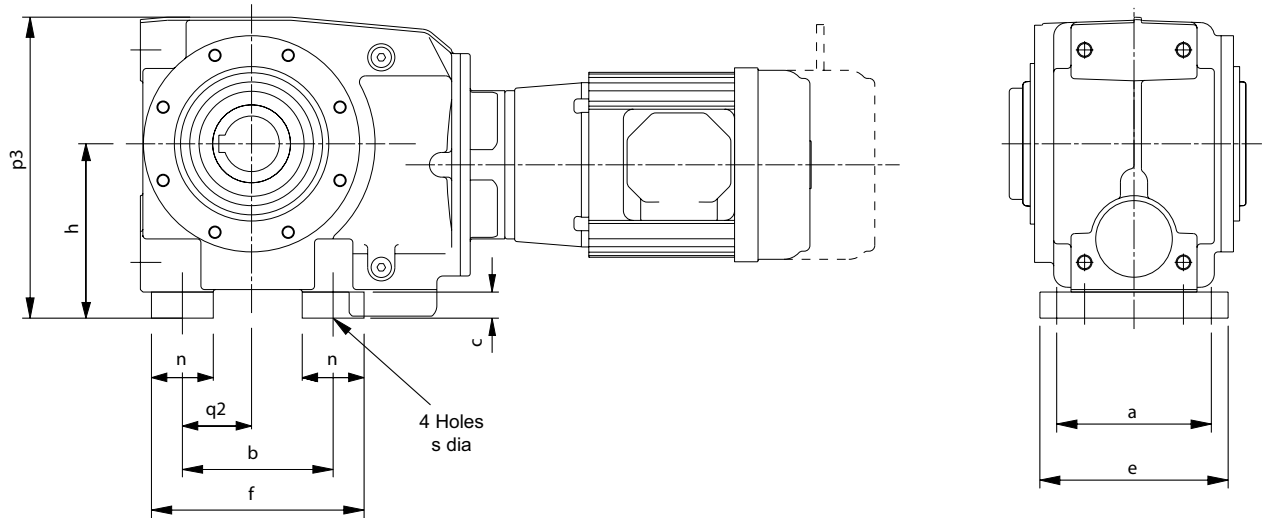
SIZE	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0741	0.625	1.57	1.28	0.70	0.18	1/4" UNF	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0841	0.75	1.57	1.28	0.83	0.18	5/8" UNF	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0941	0.75	1.57	1.28	0.83	0.18	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

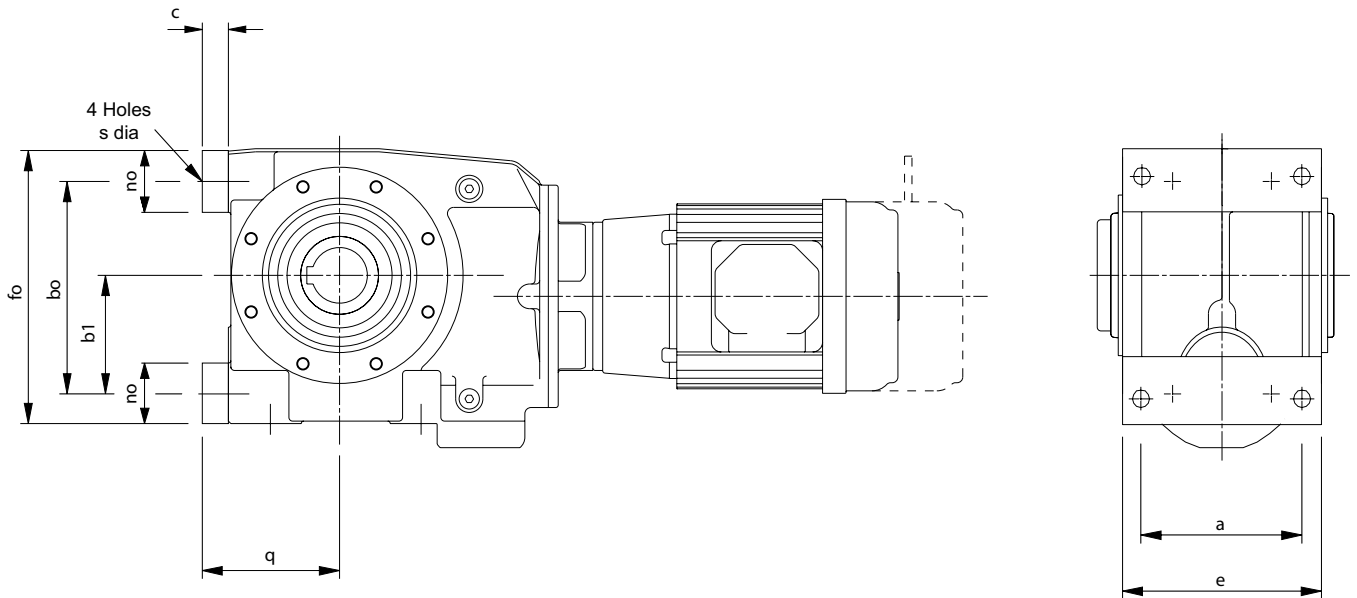
C 0 2 B R

STANDARD UNIT WITH BASE MOUNTED FEET



C 0 2 E R

STANDARD UNIT WITH END MOUNTED FEET

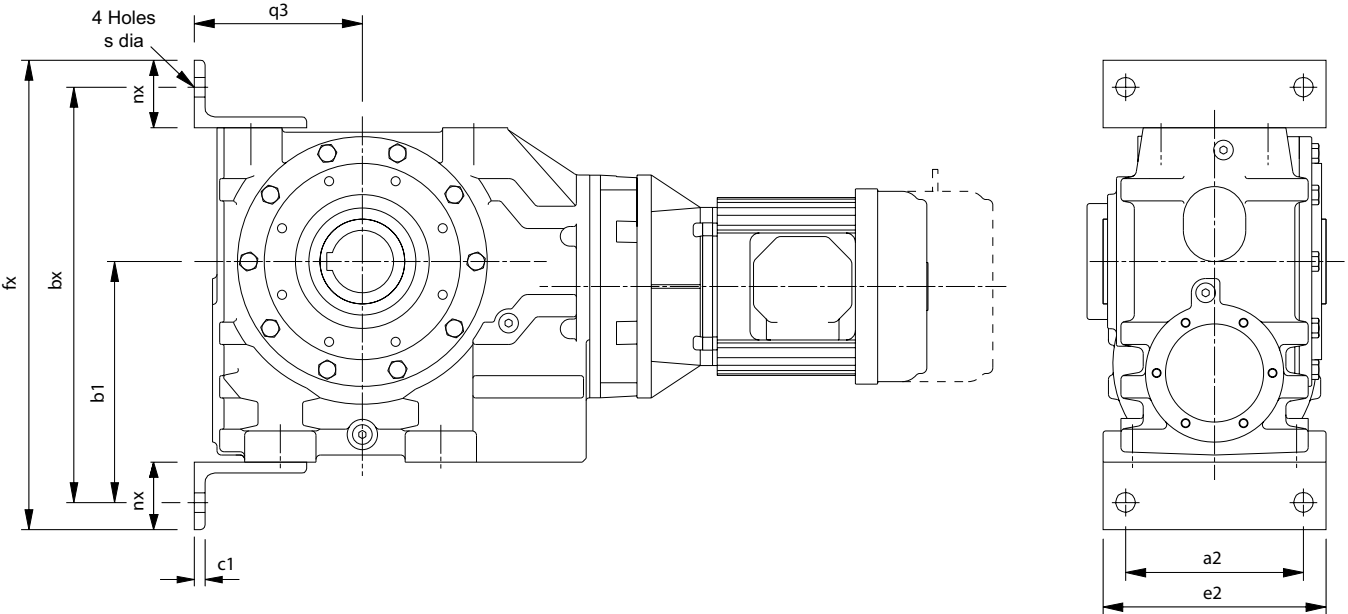


SIZE	a	b	b0	b1	c	e	f	f0	h	n	n0	p3	q	q2	s
C03	3.54	2.48	3.15	1.57	0.35	4.33	3.46	4.13	3.15	0.98	0.98	5.83	2.48	1.38	0.35
C04	3.93	3.15	4.65	2.56	0.55	4.88	4.53	6.02	3.94	1.38	1.38	6.89	3.07	1.38	0.43
C05	4.33	3.94	5.59	3.03	0.63	5.35	5.51	7.17	4.41	1.57	1.57	7.87	3.31	1.77	0.43
C06	5.12	5.12	7.09	3.94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

SERIES C DIMENSIONS - FEET

C E R

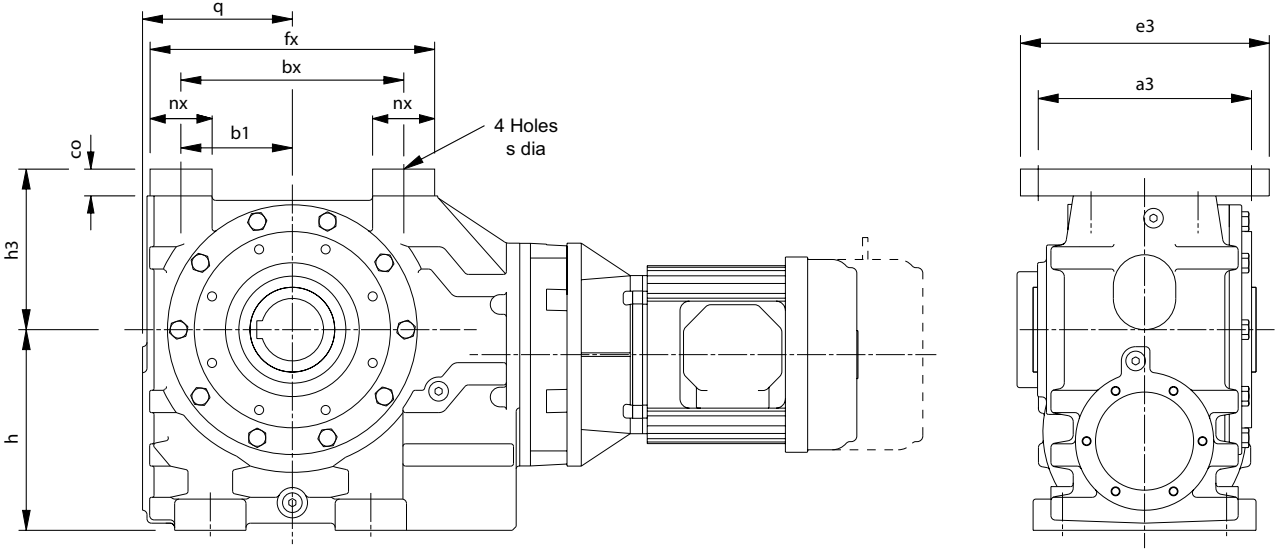
STANDARD UNIT WITH END MOUNTED FEET



SIZE	a2	bx	b1	c1	e2	fx	nx	q3	s
C07	6.69	15.43	8.86	0.47	8.66	17.80	2.95	6.38	0.87
C08	7.87	18.30	10.63	0.47	9.84	20.67	2.95	7.36	0.87
C09	9.84	21.93	12.99	0.59	12.01	25.08	3.54	8.66	1.02
C10	11.81	26.18	15.16	0.59	14.17	29.33	3.54	10.24	1.02

C R R

STANDARD UNIT WITH TOP MOUNTED FEET



SIZE	a3	b1	bx	co	e3	fx	h	h3	nx	q	s
C07	8.07	4.23	8.46	1.10	10.08	10.94	7.09	5.91	2.48	5.63	0.94
C08	8.86	4.92	9.84	1.18	11.02	12.60	8.86	7.09	2.76	6.61	0.94
C09	9.45	5.71	11.42	1.38	11.81	14.57	11.02	8.35	3.15	7.68	1.10
C10	10.43	6.79	13.58	1.38	12.99	17.52	13.19	10.43	3.94	9.25	1.10

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
32 to 71	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
16 to 28	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

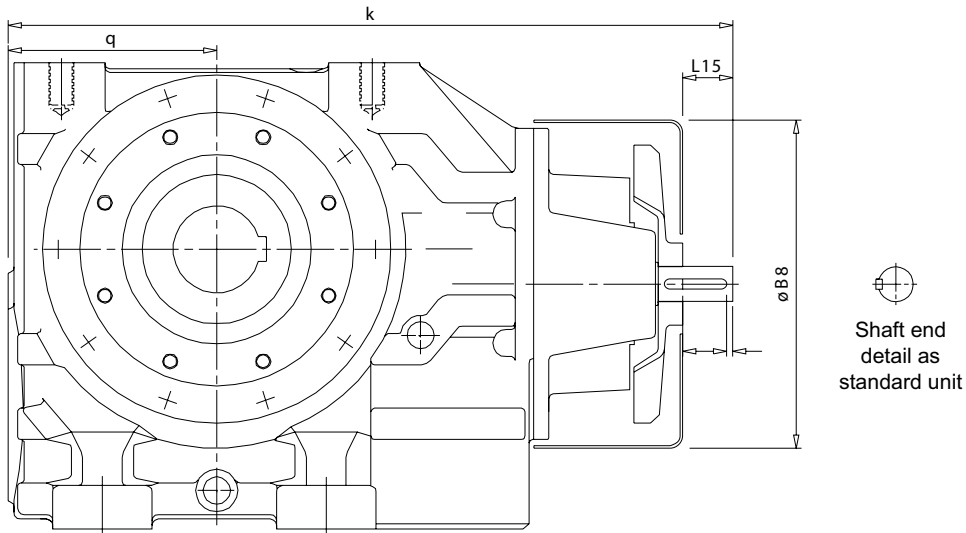
Note: When checking thermal capacities use actual load required to be transmitted, not rating of prime mover.

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

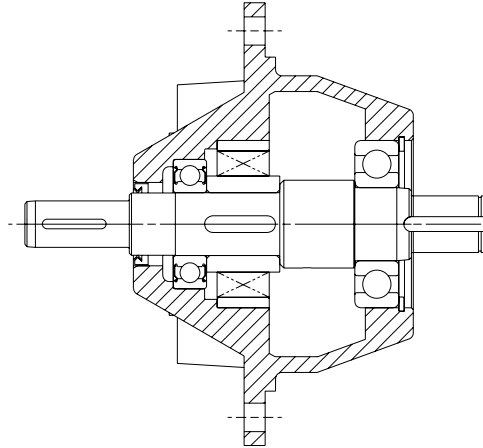
REDUCER BACKSTOP MODULE

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

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

Column 10 Entry

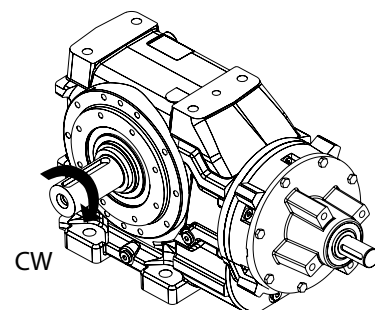
For reducer fan kit modules enter W for CCW rotation (or Z if used in conjunction with a fan kit)
 X for CW rotation (or Y if used in conjunction with a fan kit)



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

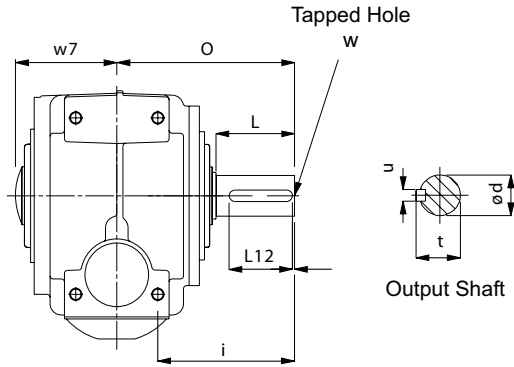
DIMENSIONS

OUTPUTSHAFT OPTIONS

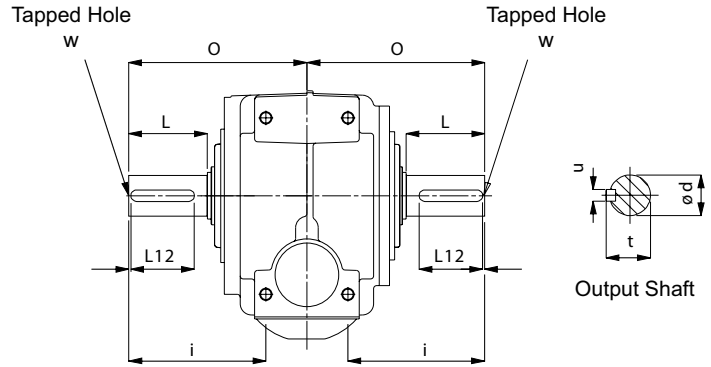
STANDARD OUTPUTSHAFT OPTION

STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION

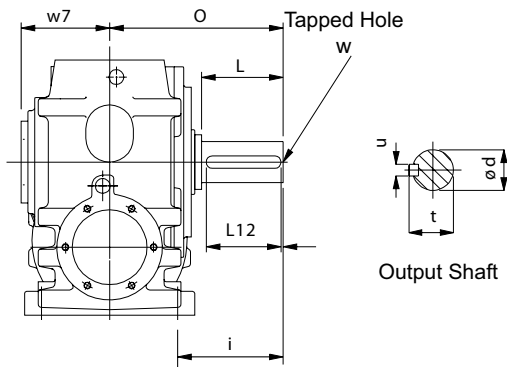
Sizes C03 - C06



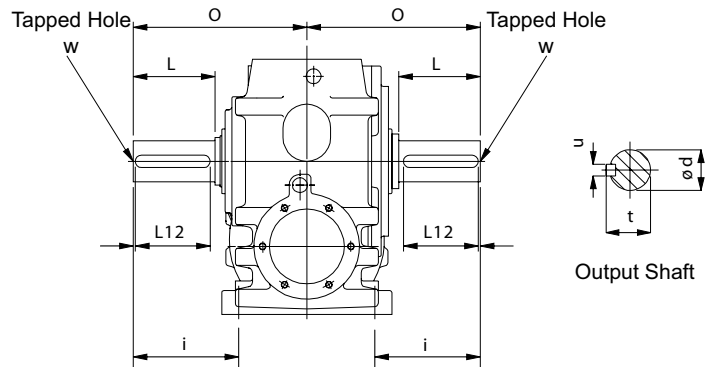
Sizes C03 - C06



Sizes C07 - C10



Sizes C07 - C10

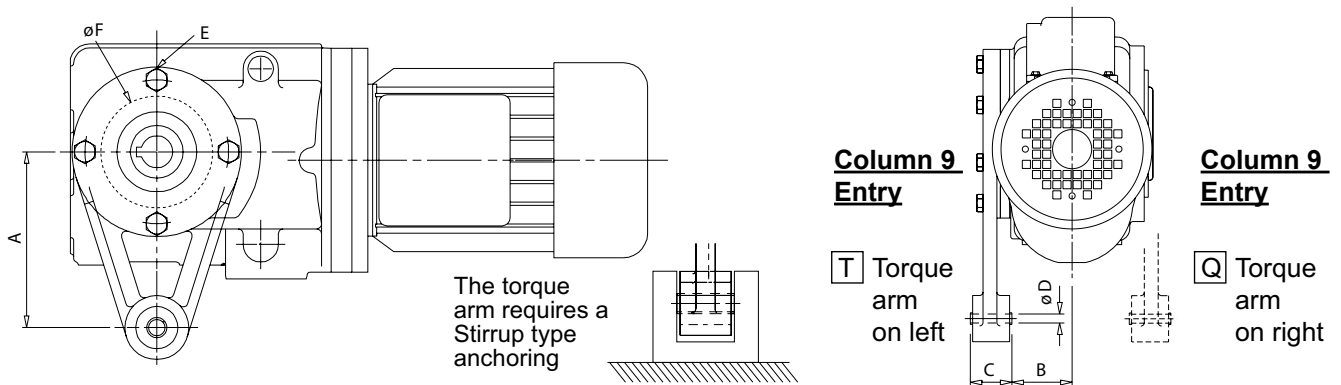


SIZE	ød	i	L	L12	O	t	u	w	w7
C03	0.750/0.749	2.87	1.38	1.28	3.94	0.83	.19	1/4" UNF	2.75
C04	1.000/0.999	3.43	1.81	1.69	4.53	1.10	.25	1/4" UNF	2.95
C05	1.250/1.249	3.94	2.36	2.12	5.27	1.36	.25	3/8" UNF	3.10
C06	1.375/1.374	4.72	2.48	2.34	6.30	1.51	.32	1/2" UNF	4.00
C06 Heavy Duty	1.750/1.749	6.10	3.86	3.75	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
C10 Double ext	3.187/3.186	8.50	6.69	5.87	14.41	3.52	.75	1" UNF	7.80

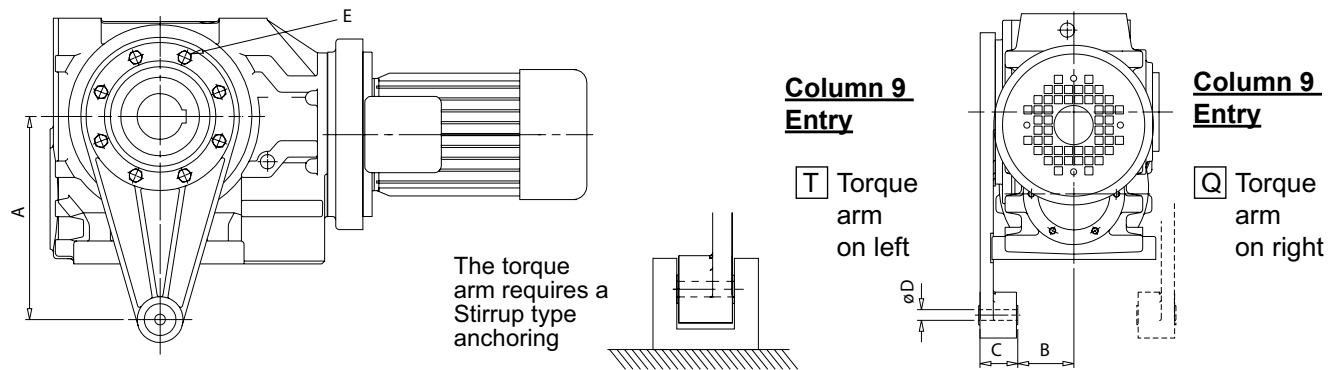
SERIES C

TORQUE ARM

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



SIZE OF UNIT	DIMENSIONS IN MM					
	A	B	C	øD	E	øF (Spigot Dia)
C03	4.33	1.85	1.42	0.41	4 x M8 on a 3.54 pcd	2.756/2.755
C04	5.11	2.05	1.42	0.41	8 x M8 on a 4.21 pcd	3.346/3.345
C05	6.30	2.05	1.42	0.41	8 x M8 on a 5.12 pcd	4.133/4.132
C06	7.87	2.81	1.73	0.65	8 x M10 on a 6.10 pcd	4.921/4.920



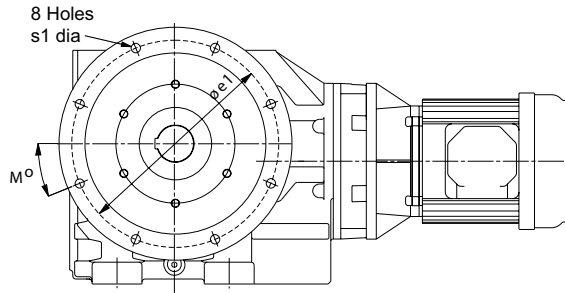
SIZE OF UNIT	DIMENSIONS IN MM				
	A	B	C	øD	E
C07	9.84	3.05	2.36	0.65	6 x M12 on a 5.91 pcd
C08	12.20	3.37	2.36	0.65	6 x M12 on a 7.68 pcd
C09	14.96	3.86	3.15	0.98	6 x M16 on a 9.06 pcd
C10	16.93	5.39	3.15	0.98	6 x M16 on a 11.02 pcd

SERIES C

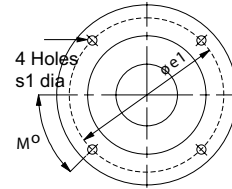
DIMENSIONS

D (B5) FLANGE

Sizes C09 & C10

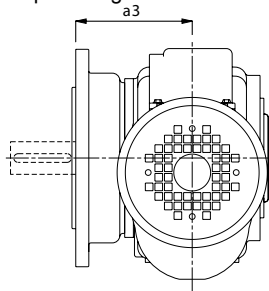


Sizes C03 to C08



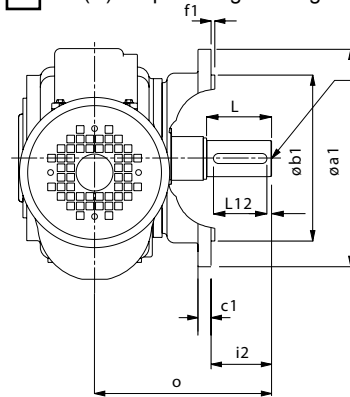
Column 9 Entry

F B5 (D) Output Flange on Left



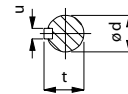
Column 9 Entry

H B5 (D) Output Flange on Right



Tapped Hole
v

Output Shaft



SIZE	øa1	a3	øb1	c1	øe1	f1	m	øs1
C03 Red Dia	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	Standard Output Shaft - Column 11 Entry C							
	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

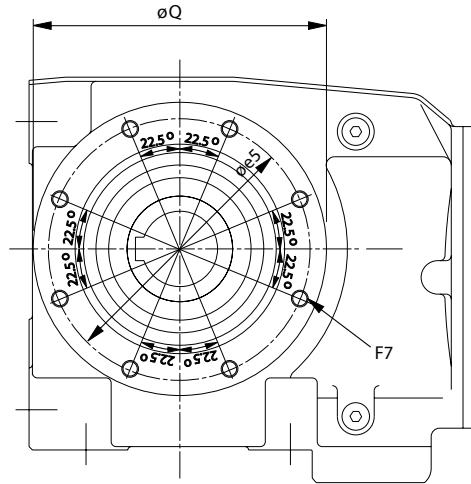
SERIES C

DIMENSIONS

C (B14) FLANGE

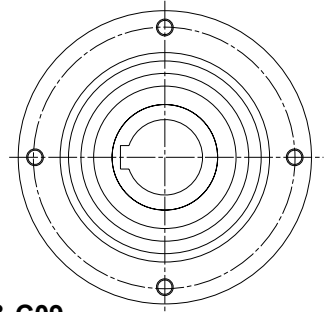
C04, C05, C06 & C08

Eight hole pattern



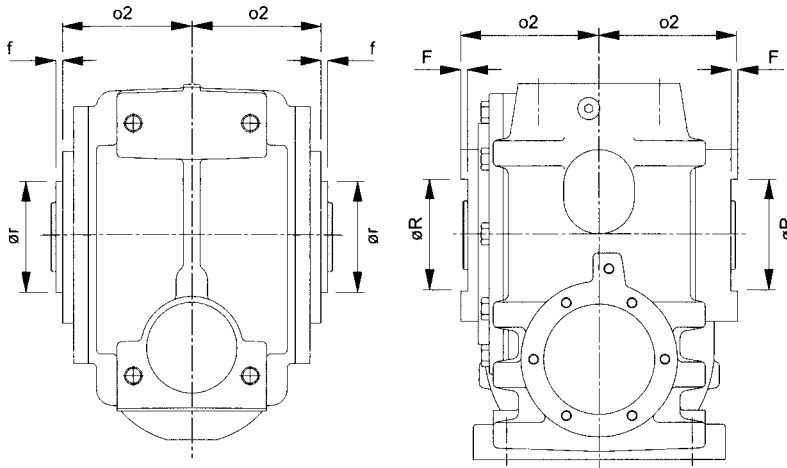
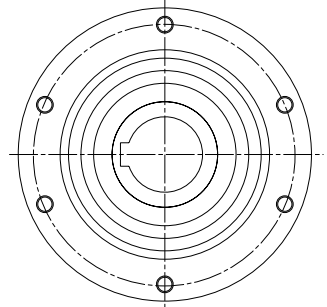
C03

Four hole pattern



C07 & C09

Six hole pattern

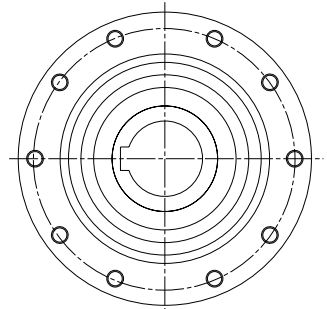


Male spigot
C03 - C06

Female recess
C07 - C10

C10

Ten hole pattern



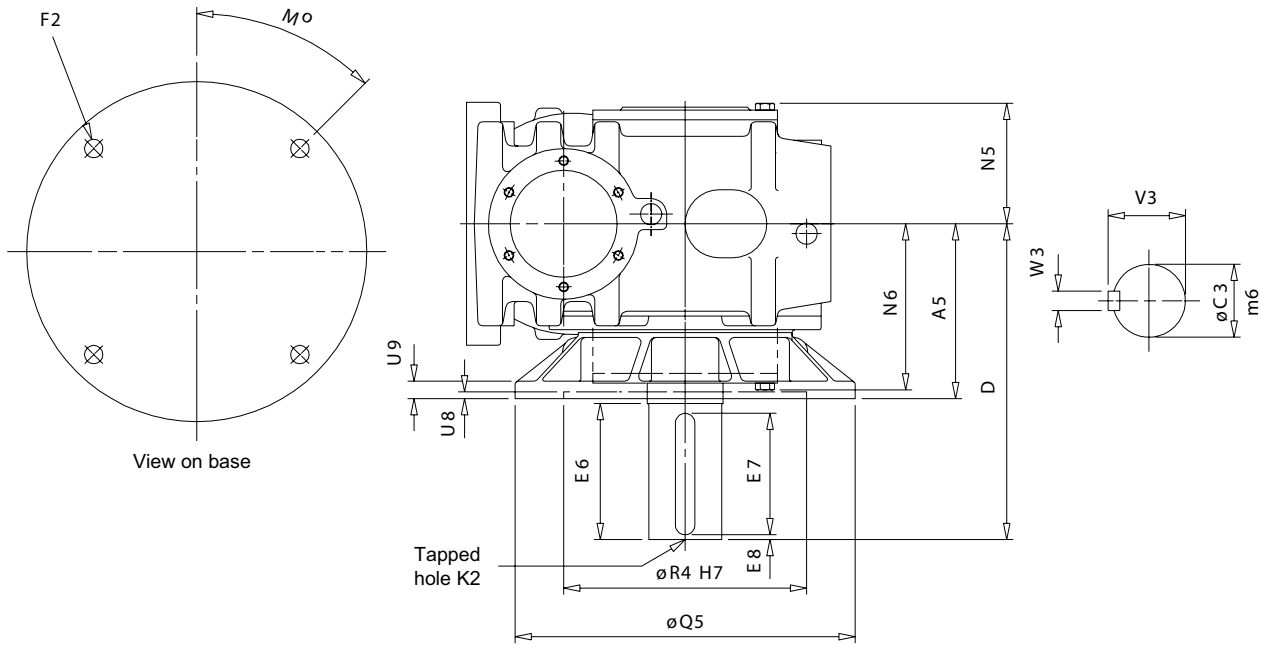
SIZE	øe5	F7	o2	Q	ø r h7 spigot ø	øR H7	Spigot	Recess
C03	3.54 pcd	4 Holes M8 0.87 Deep	2.24	4.17	2.76	-	0.16	-
C04	4.21 pcd	8 Holes M8 0.87 Deep	2.24	4.80	3.35	-	0.16	-
C05	5.12 pcd	8 Holes M8 0.87 Deep	2.44	5.75	4.13	-	0.16	-
C06	6.10 pcd	8 Holes M8 1.00 Deep	3.19	6.89	4.92	-	0.20	-
C07	5.91 pcd	8 Holes M8 0.87 Deep	4.09	7.09	-	5.12	-	0.18
C08	7.68 pcd	8 Holes M8 0.87 Deep	4.72	8.66	-	5.91	-	0.20
C09	9.06 pcd	8 Holes M8 1.00 Deep	5.67	11.02	-	7.09	-	0.20
C10	11.02 pcd	8 Holes M8 1.00 Deep	6.57	14.17	-	8.27	-	0.28

SERIES C

AGITATOR UNITS

AGITATOR - Non Standard Special Build.

Please consult our Application Engineers



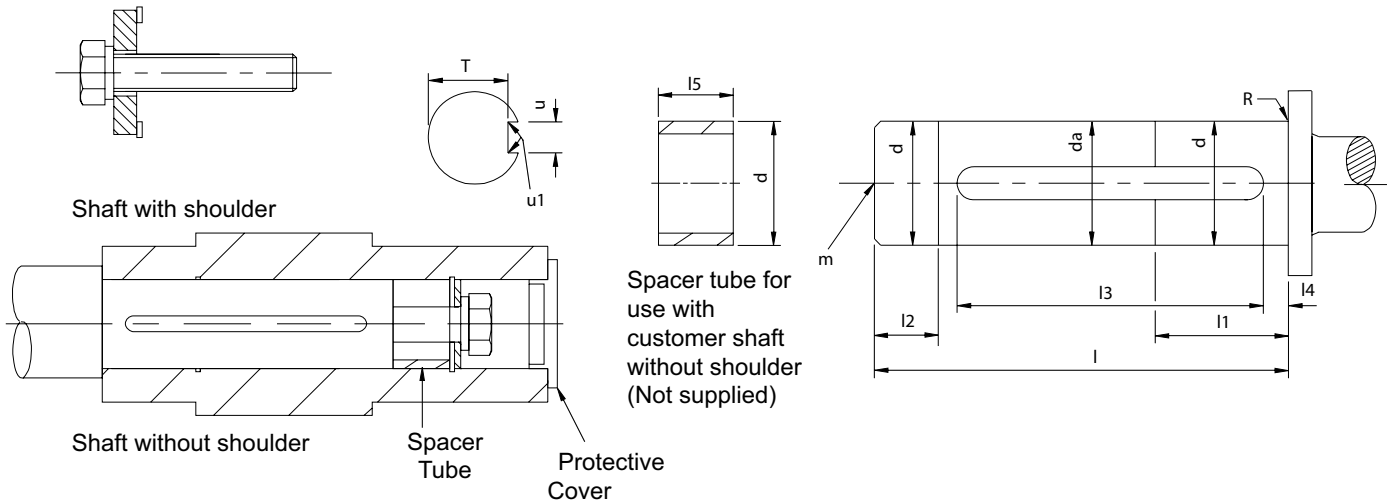
SIZE	A5	C3	D	E6	E7	øF2	K2	M	N5	N6	Q5	R4	U8	U9	V3	W3
C07	6.30	2.50	11.42	5.12	4.53	4 x 0.59 on 10.43 pcd	5/8 UNF	45	4.29	5.87	11.81	9.055	0.24	0.63	2.77	0.625
C08	7.09	3.00	12.80	5.71	5.12	4 x 0.75 on 11.81 pcd	5/8 UNF	45	4.88	6.73	13.78	9.843	0.28	0.67	3.33	0.75
C09	7.87	3.50	14.17	6.30	5.71	4 x 0.75 on 13.78 pcd	5/8 UNF	45	5.59	7.56	15.75	11.811	0.28	0.79	3.88	0.875
C10	8.35	4.00	14.17	7.08	6.50	4 x 0.75 on 15.75 pcd	5/8 UNF	22.5	6.00	8.07	17.77	13.780	0.28	0.87	4.44	1.00

SERIES C

DIMENSIONS

STANDARD BORE ASSEMBLY

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



SIZE	Bore	d	da	l	l1	l2	l3	l4	l5	m	N	R	T	u	u1
C03	inch	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	inch	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	inch	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	inch	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	inch	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	inch	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	inch	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
C10	inch	3.2500 3.2488	3.23	12.81	5.91	1.77	12.00	0.40	1.81	1 UNF	1700lb.in	0.05R	2.83 2.82	0.750 0.749	0.05R

For Dimensions for Metric Bore Units - consult Application Engineering

Assembly Instructions

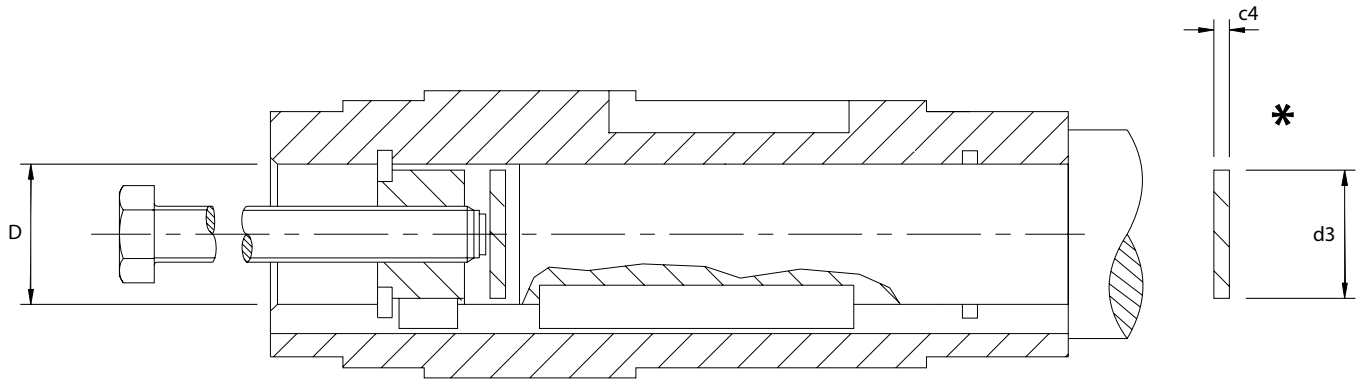
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFMS or equivalent anti scuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.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

SERIES C

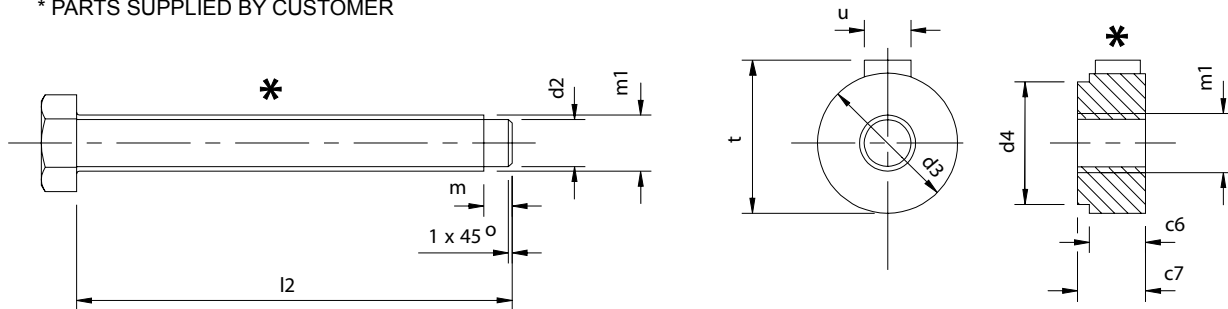
DIMENSIONS

STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



* PARTS SUPPLIED BY CUSTOMER



SIZE	Bore	c4	c6	c7	D (H7)	d2	d3	d4	l2	m	m1	t	u
C03	inch	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	inch	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	inch	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	inch	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	inch	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	inch	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	inch	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
C10	inch	0.31	1.20	1.30	3.25	1.30	3.245	2.65	17.00	0.20	1 1/2" UNF	2.82	0.700

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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