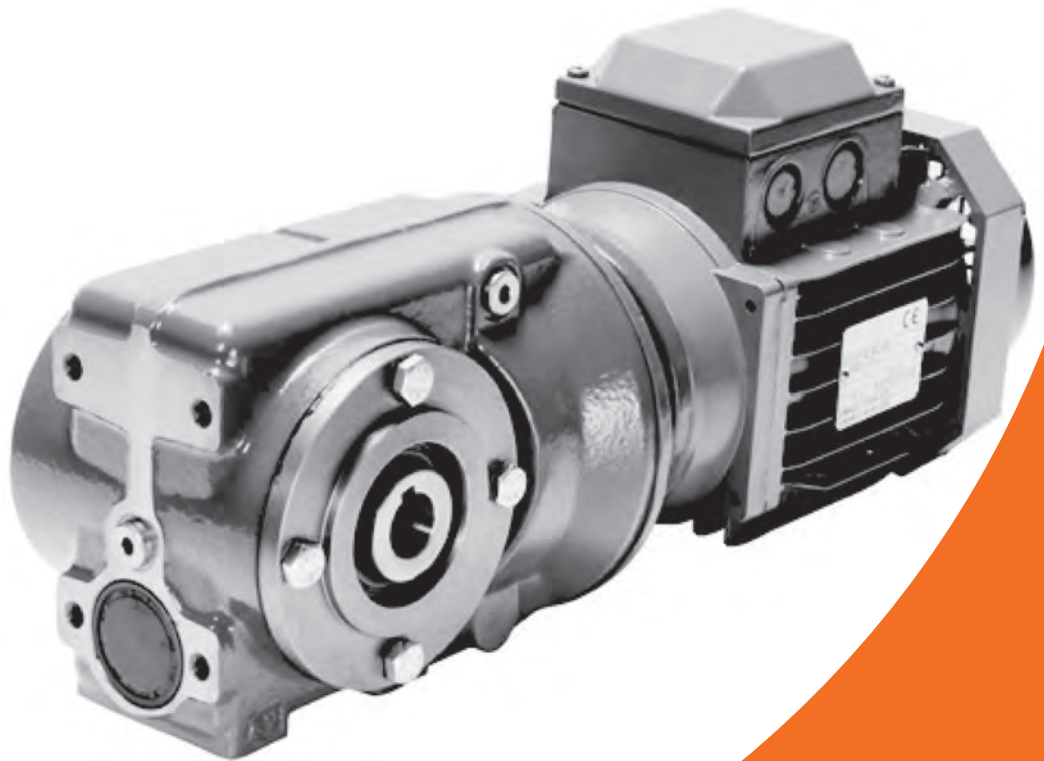


Series C Helical Worm

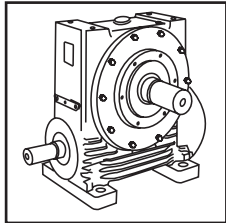


Technical
Up to - 60 HP / 89,000 lb.in

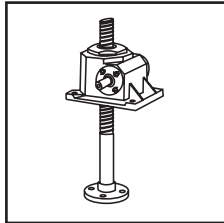
Geared Motors
CM-2.00US0618

PRODUCTS IN THE RANGE

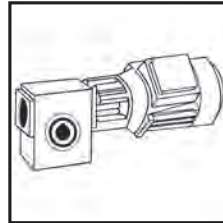
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



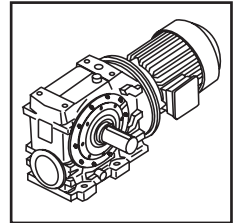
Series A
Worm Gear units
and geared motors
in single & double
reduction types



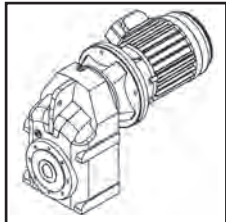
Series BD
Screwjack worm
gear unit



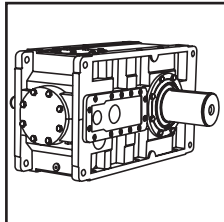
Series BS
Worm gear unit



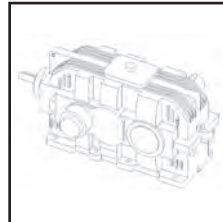
Series C
Right angle drive
helical worm geared
motors & reducers



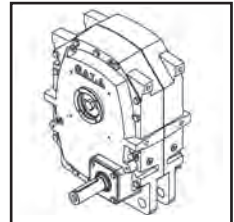
Series F
Parallel angle helical
bevel helical geared
motors & reducers



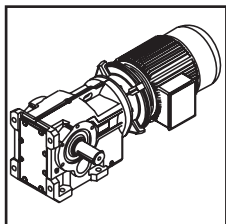
Series G
Helical parallel shaft
& bevel helical right
angle drive gear
units



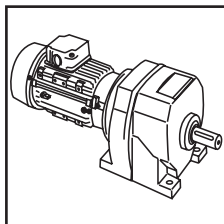
Series E
Large helical parallel
shaft & bevel helical
right angle drive units



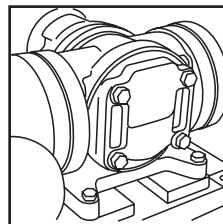
Series J
Shaft mounted
helical speed
reducers



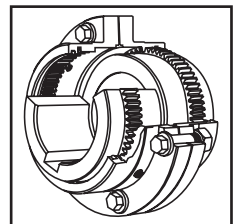
Series K
Right angle helical
bevel helical geared
motors & reducers



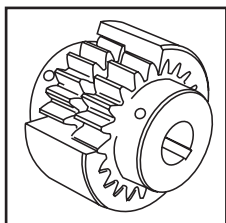
Series M
In-line helical geared
motors & reducers



Roloid Gear Pump
Lubrication and fluid
transportation pump



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



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



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.

General Description	1
Unit Designations	2
Explanation and use of Ratings and Service Factors	3
Load Classification by Applications	4
Selection Procedure	5
Output Options	7
Motor Adaptors	9
Lubrication	12
Mounting Positions	13
Unit Handings	14
MOTORIZED	
Motor Details	17
Additional Motor Features	18
Additional Gearbox Features	19
Selection Tables - Geared Motors	20
Dimension Sheets - Geared Motors	44
Gear Unit Options	52
Motorized Backstop Module	53
REDUCER	
Overhung & Axial Loads on Shafts	55
Ratings - Input Power / Output Torque	56
Dimension Sheets - Speed Reducers	64
Dimension Sheet - Units fitted with Feet	70
Thermal Power Ratings / Dimensions of Unit with Fan	72
Reducer Backstop Module	74
OUTPUT OPTIONS	
Dimensions of Outputshaft Options	75
Dimension Sheet - Torque Bracket	76
Dimension Sheet - Taper Release Bushing	77
Dimensions of B5 (D) Flange units	79
Dimensions of B14 (C) Flange units	80
Dimension Sheet - Assembly / Disassembly	81
Shipping Specification	82
Product Safety Information	83

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)

Unit Types:

- Unit type M - Motorized with IEC standard motor
- Unit type J - Motorized with Compact Motor
- Unit type N - Motorized with NEMA standard motor
- Unit type 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.

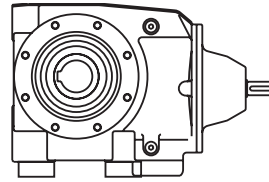
Brake geared motors are available as standard.

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.

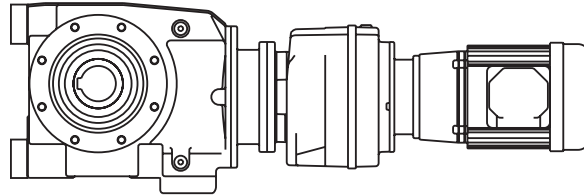
Units are manufactured and assembled from a family of modular kits for distributor friendliness minimising inventory and maximising availability.

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.



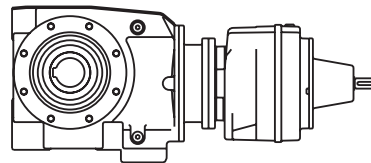
Two stage
reduction unit
with base
mounted feet
and hollow
output shaft

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



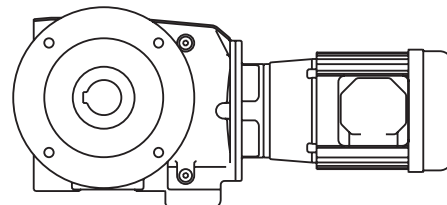
Four stage
Motorized
unit with end
mounted feet
and hollow
output shaft

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



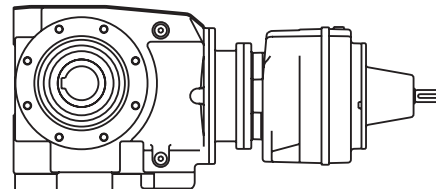
Four stage
reduction unit
with hollow
output shaft

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



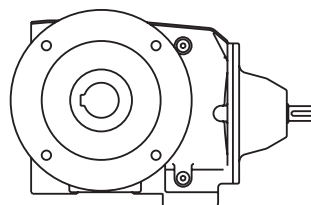
Two stage
Motorized unit
with output
flange and single
extension output
shaft

* 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	
C																				

Example * C 0 3 2 1 5 0 . B M C - 1 D . 1 8 A - -

1 - Series C
Range C

2, 3 - Size of Unit
0 3 Through 1 0

4 - No of Reductions
2 3 & 4

5 - Revision Version
1 For Sizes 03 to 10

6,7,8 - Nominal Overall Ratio
E.g. 5 0 .

9 - Unit Version

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

Std Unit with Output Flange F on Left H on Right
G - Std Unit with Output Flange Reduced Dia (C03 Only)
Std Unit with Banjo Torque Arm T on Left Q on Right
U - Std Unit Banjo Torque Arm Heavy Duty (C10 Only)

10 - Type of Unit

N - Motorized with NEMA Standard Motor
J - Motorized with Compact Motor
A - Unit to allow fitting of NEMA Motor (customer own motor)
M - Motorized with IEC Standard Motor
G - Unit to allow fitting of IEC motor (customer own motor)
R - Reducer unit
S - Reducer unit with fan kit
W - Reducer unit with backstop CCW rotation
X - Reducer unit with backstop CW rotation
Y - Reducer unit with fan and backstop CW rotation
Z - Reducer unit with fan and backstop CCW rotation

20 - Additional Gearbox Features
Double Oil Seal, Motorized Backstop Etc
e.g. - F

19 - Additional Motor Features
e.g. - A
For Types Without Motor Enter -

18 - No of Motor Features
- No motor

4 Pole (Std) 1500 rpm A

6 Pole (Std) 1000 rpm C

2 Pole 3000 rpm E

8 Pole 750 rpm G

50 Hz

1800 rpm B

1200 rpm D

3600 rpm F

900 rpm H

S Dual speed or special motor

15, 16, 17 - Geared Motor Powers
Motor Power Required
e.g. . 7 5
For reducer and non standard motor types enter - - -

13, 14 - Mounting Position
e.g. 2 B

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

11 - Output Shaft

Standard Single Extension N on Left B on Right
Standard Double Extension P
Extended Shaft for Flange Mounted Units G
Standard Hollow Shaft A
Hollow Shaft with Reduced Bore Dia Z
Inch Taper Release Q on Left S on Right
See output options pages for metric shaft options

13 - Mounting Position	
1	↔ M1
2	↔ M6
3	↔ M5
4	↔ M3
5	↔ M4
6	↔ M2

SERIES C

EXPLANATION & USE OF RATINGS & SERVICE FACTORS

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

Mechanical ratings and service factor Fm

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

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

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

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

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

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

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

Table 1. Mechanical Service Factor (Fm)

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

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

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

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

Thermal Rating (For In-line Reducers)

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

SERIES C

LOAD CLASSIFICATIONS BY APPLICATIONS

Table 3

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

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

SERIES C

SELECTION PROCEDURE FOR MOTORIZED UNITS

EXAMPLE APPLICATION DETAILS

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

NOTE.

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

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application,

Application = Uniformly loaded belt conveyor

Conveyors-uniformly loaded or fed

apron	U
assembly	U
belt	U
bucket	U
chain	U

U = Uniform load

Refer to mechanical service factor (Fm)

Duration of service (hours per day) = 24hrs

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

Therefore mechanical service factor (Fm) = 1.25

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

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

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

4 POLE 1750 rpm nominal input speed	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 _ _	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 .	62.7	145TC
	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 _ _	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 .		

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 _ _	69.7	145TC
	149	11.61	703	1.06	625	1 1 .		
	131	13.20	794	0.96	625	1 2 .		
	115	14.95	896	0.89	560	1 4 .		
	105	16.36	876	0.84	525	1 6 .		
	201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	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 _ _	69.7	145TC
	149	11.61	703	1.06	625	1 1 .		
	131	13.20	794	0.96	625	1 2 .		
	115	14.95	896	0.89	560	1 4 .		
	105	16.36	876	0.84	525	1 6 .		
	201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	69.7	145TC
	149	11.61	719	1.76	1180	1 1 .		
	131	13.20	813	1.60	1180	1 2 .		
	115	14.95	918	1.47	1180	1 4 .		

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

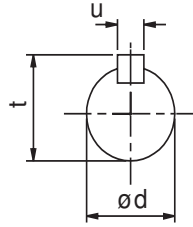
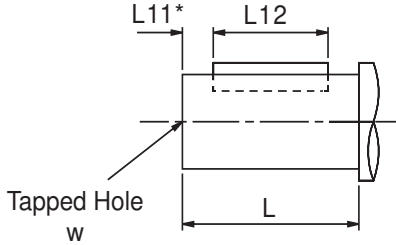
a) Inertia of the Driven Machine (Referred to motor speed) > 10
Inertia of Gear Unit plus Motor

b) Ambient temperature is above 104°C

SERIES C

OUTPUT OPTIONS

OUTPUT SHAFT 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 **F**

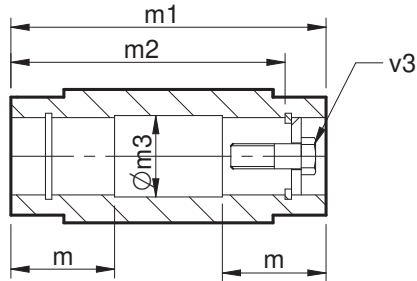
Inch Heavy Duty Single Extension (Size C06) **L**

SIZE OF UNIT	TYPE OF OUTPUT SHAFT	COLUMN 11 ENTRY	Dimensions (Metric Shafts in mm)						
			ϕd	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 2.0 x 36 Deep
	Inch	N, B	1.7500" / 1.7494"	2.99"	*	2.625"	1.917"	0.375"	5 / 8 UNF x 1.44" Deep
	Inch 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

Metric Hollow Shaft

H

Inch Hollow Shaft

A

Metric Hollow Shaft with reduced bore diameter

Z

Inch Taper Release

Q

on Left

S

on Right

SIZE OF UNIT	TYPE OF BORE	COLUMN 11 ENTRY	Dimensions (Metric Shafts in mm)							
			ϕD	m	m1	m2	$\phi m3$	T	U	w3
C03	Metric	H	20.021/20.000	52	124	104	20.2	22.9	6	M6 x 1.0, 40
	Inch	A	0.7508"/0.7500"	2.05"	4.88"	4.13"	0.76"	0.84"	0.188"	1/4" UNF x 1 1/2"
C04	Metric	H	30.021/30.000	54	130	122	30.2	33.5	8	M10 x 1.5, 50
	Metric Reduced	Z	25.021/25.000	54	130	125	25.2	28.5	8	M10 x 1.5, 50
	Inch	A	1.2510"/1.2500"	2.13"	5.12"	4.81"	1.26"	1.37"	0.25"	3/8" UNF x 2"
C05	Metric	H	35.025/35.000	56	140	127	35.3	38.5	10	M12 x 1.75, 55
	Metric Reduced	Z	30.021/30.000	56	140	127	30.3	33.5	8	M10 x 1.5 x 45
	Inch	A	1.3760"/1.3750"	2.20"	5.52"	5.00"	1.39"	1.53"	0.313"	1/2" UNF x 2"
C06	Metric	H	45.025/45.000	70	180	156	45.3	49	14	M16 x 2.0, 70
	Metric Reduced	Z	40.025/40.000	70	180	156	40.3	43.5	12	M16 x 2.0, 70
	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	Metric	H	60.030/60.000	79	218	188	60.5	64.6	18	M20 x 2.5, 80
	Metric Reduced	Z	50.030/50.000	79	218	191	50.5	54	14	M16 x 2.0, x 70
	Inch	A	2.0010"/2.0000"	3.11"	8.58"	7.41"	2.02"	2.23"	0.50"	5/8" UNF x 3"
C08	Metric	H	70.030/70.000	90	250	220	70.5	75.1	20	M20 x 2.5, 80
	Metric Reduced	Z	60.030/60.000	90	250	220	60.5	64.6	18	M20 x 2.5, 80
	Inch	A	2.3760"/2.3750"	3.54"	9.84"	8.68"	2.40"	2.66"	0.625"	3/4" UNF x 3"
C09	Metric	H	90.035/90.000	107.5	300	265	90.5	95.6	25	M24 x 3.0, 110
	Metric Reduced	Z	70.030/70.000	107.5	300	270	70.5	75.1	20	M20 x 2.5, 100
	Inch	A	2.7510"/2.7500"	4.23"	11.82"	10.65"	2.76"	3.04"	0.625"	3/4" UNF x 4 1/4"
C10	Metric	H	100.035/100.000	132.5	350	313	100.5	106.6	28	M24 x 3.0, 110
	Metric Reduced	Z	80.030/80.000	132.5	350	313	80.5	85.6	22	M20 x 2.5, 100
	Inch	A	3.2510"/3.2500"	5.22"	13.78"	12.32"	3.26"	3.59"	0.75"	1" UNF x 4 1/4"

SERIES C

MOTOR ADAPTERS

NEMA & IEC

Double Reduction Units

Compact Motor - Column 12 Entry - J

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

NEMA Motor C Face - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021	
	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250
56c	T	U	T	U	T	U	-	Q	-	Q	-	M	-	-	-	-
143/145TC	V	W	V	W	V	W	-	R	-	R	-	N	-	-	-	-
182/184TC	X	-	X	-	X	-	S	T	S	T	J	P	-	S	-	P
213/215TC	-	-	-	-	-	-	U	-	U	V	K	Q	-	T	-	Q
254/256TC	-	-	-	-	-	-	-	-	W	-	L	U	P	U	L	R
284/286TC	-	-	-	-	-	-	-	-	-	-	-	-	Q	V	M	S
324/326TC	-	-	-	-	-	-	-	-	-	-	-	-	R	W	N	T

IEC Motor Flange B5 - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721		C0821		C0921		C1021	
	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250
63	F	F	F	F	-	F	-	V	-	-	-	-	-	-	-	-
71	G	G	G	G	-	G	-	D	-	-	-	-	-	-	-	-
80	A	J	A	J	A	J	W	F	-	F	-	D	-	F	-	-
90	C	Q	C	Q	C	Q	Y	H	-	H	-	E	-	F	-	-
100	-	-	-	-	-	-	A	K	A	K	A	F	-	G	-	E
112	-	-	-	-	-	-	A	K	A	K	A	F	-	G	-	E
132	-	-	-	-	-	-	N	P	C	M	B	G	-	H	-	F
160	-	-	-	-	-	-	-	-	E	P	C	H	A	J	A	G
180	-	-	-	-	-	-	-	-	-	-	-	-	B	K	B	H
200	-	-	-	-	-	-	-	-	-	-	-	-	C	L	C	J
225	-	-	-	-	-	-	-	-	-	-	-	-	D	M	D	K

IEC Motor Flange B14 - Column 12 Entry

Motor	C0321		C0421		C0521		C0621		C0721	
	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 40. 56. - 63.	45. - 50. 71. - 250	8.0 - 28. 36. - 40.	32. 45. - 250	8.0 - 28. 36. - 40.	32. 45. - 250
71	H	H	H	H	-	H	-	-	-	-
80	B	K	B	K	B	K	-	G	-	G
90	D	R	D	R	D	R	Z	J	-	J
100	E	S	E	S	E	S	B	L	B	L
112	E	S	E	S	E	S	B	L	B	L
132	-	-	-	-	-	-	-	-	D	N

SERIES C

MOTOR ADAPTERS

NEMA & IEC

Triple Reduction Units

Compact Motor - Column 12 Entry - J

Power	C0331		C0431		C0531		C0631		C0731	
	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
0.33 HP	•	•	•	•	•	•	-	•	-	-
0.50 HP	•	•	•	•	•	•	-	•	-	-
0.75 HP	•	•	•	•	•	•	•	•	-	•
1.0 HP	•	•	•	•	•	•	•	•	-	•
1.5 HP	•	-	•	-	•	-	•	-	•	•
2.0 HP	•	-	•	-	•	-	•	-	•	•
3.0 HP	-	-	-	-	-	-	-	-	•	•
4.0 HP	-	-	-	-	-	-	-	-	•	•
5.5 HP	-	-	-	-	-	-	-	-	•	-
7.5 HP	-	-	-	-	-	-	-	-	•	-
10 HP	-	-	-	-	-	-	-	-	-	-

NEMA Motor C Face - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
56c	T	U	T	U	T	U	T	U	-	Q
143/145TC	V	W	V	W	V	W	V	W	-	R
182/184TC	X	-	X	-	X	-	X	-	S	T
213/215TC	-	-	-	-	-	-	-	-	U	-

IEC Motor Flange B5 - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
63	F	F	F	F	F	F	-	F	-	V
71	G	G	G	G	G	G	-	G	-	D
80	A	J	A	J	A	J	A	J	W	F
90	C	Q	C	Q	C	Q	C	Q	Y	H
100	-	-	-	-	-	-	-	-	A	K
112	-	-	-	-	-	-	-	-	A	K
132	-	-	-	-	-	-	-	-	N	P

IEC Motor Flange B14 - Column 12 Entry

Motor	C0331		C0431		C0531		C0631		C0731	
	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	132 - 150	100 - 118 160 - 900	100 - 150 200 - 225	160 - 180 265 - 900	132 - 150	100 - 118 160 - 900
71	H	H	H	H	H	H	-	H	-	-
80	B	K	B	K	B	K	B	K	-	G
90	D	R	D	R	D	R	D	R	Z	J
100	E	S	E	S	E	S	E	S	B	L
112	-	-	-	-	-	-	-	-	B	L

SERIES C

MOTOR ADAPTERS

NEMA & IEC

Quadruple Reduction Units

Compact Motor - Column 12 Entry - J

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

NEMA Motor C Face - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
56c	U	U	U	U	U	-	Q	-	Q	-	Q
143/145TC	W	W	W	W	W	-	R	-	R	-	R
182/184TC	-	-	-	-	-	S	T	S	T	S	T
213/215TC	-	-	-	-	-	U	-	U	-	U	V

IEC Motor Flange B5 - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
	All Ratios	All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560+
63	F	F	F	F	F	-	V	-	V	-	-
71	G	G	G	G	G	-	D	-	D	-	-
80	J	J	J	J	J	W	F	W	F	-	F
90	Q	Q	Q	Q	Q	Y	H	Y	H	-	H
100	-	-	-	-	-	A	K	A	K	A	K
112	-	-	-	-	-	A	K	A	K	K	K
132	-	-	-	-	-	N	P	N	P	C	M
160	-	-	-	-	-	-	-	-	-	E	-

IEC Motor Flange B14 - Column 12 Entry

Motor	C0341	C0441	C0541	C0641	C0741	C0841		C0941		C1041	
		All Ratios	All Ratios	All Ratios	All Ratios	500	560 +	500	560 +	450	560 +
71	H	H	H	H	H	-	-	-	-	-	-
80	K	K	K	K	K	-	G	-	G	-	G
90	R	R	R	R	R	Z	J	Z	J	-	J
100	S	S	S	S	S	B	L	B	L	B	L
112	-	-	-	-	-	B	L	B	L	B	L
132	-	-	-	-	-	-	-	-	-	D	N

SERIES C

LUBRICATION

LUBRICANT AND QUANTITY

All C-Series Units are supplied factory filled with Polyglycol Based Synthetic (Grade 6G) appropriate to the intended mounting position. If the unit is supplied without lubricant the unit must be filled with the correct lubricant and quantity as listed below:

Lubricant quantities are approximate fill until oil escapes from the level plug hole, fit ventilator plug (when supplied) in the appropriate position for the required mounting position (see installation and maintenance instructions)

The grade and level are determined from the operating speed of the gear unit and the ambient temperature range, which if not given when ordering will be assumed to be 1750 rev / min input and ambient temperature range 0 to 95°F. Oil grades and oil level should always be checked before installation, Consult the Installation and Maintenance instructions provided with the gear unit. To determine the oil grade refer to table 1, and then refer to the Installation and Maintenance instructions to select an approved lubricant. To determine the oil capacity refer to appropriate table 2 or 3. Oil capacities are only approximate and units should be filled until oil escapes from the level plug holes. Do not overfill as excess will cause overheating and leakage.

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

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

Unless stated with the order these operating conditions will be assumed

TABLE 1 SERIES C OIL GRADES

GEAR UNIT DETAILS			AMBIENT TEMPERATURE RANGE *		
UNIT TYPE	RATIO RANGE	INPUT SPEED(REV / MIN)	-22°F to 68°F	32°F to 95°F	68°F to 122°F
DOUBLES	8 - 18	0 - 750	6G	6G	8G
		0>750 - 2000	5G	6G	7G
		>2000 - 3000	4G	6G	6G
	20 - 36	0 - 2000	6G	6G	8G
		>2000 - 3000	5G	6G	7G
	40 - 250	0 - 3000	6G	6G	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		0.5	0.8	0.7	0.9	1.0	1.4	2.2	2.5	3.7	3.7	6.2	12	21
	4	Level 1 *	0.7	1.2	1.0	1.5	1.4	2.1	3.1	4.0	5.1	5.9	9.5	17	26
		Level 2 *									3.0	3.6	4.8	8.3	14
	5		0.6	1.0	0.9	1.3	1.4	2.0	3.0	4.6	5.6	6.6	9.6	18	31
	6	Level 1 *	0.7	1.2	1.0	1.5	1.4	1.9	3.2	4.0	7.4	9.2	12	25	42
		Level 2 *									5.1	6.9	9.5	17	28

* Use Level 1 for output speeds lower than 100 rpm

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

† 1 LITER = 0.26 gallon (US)

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

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

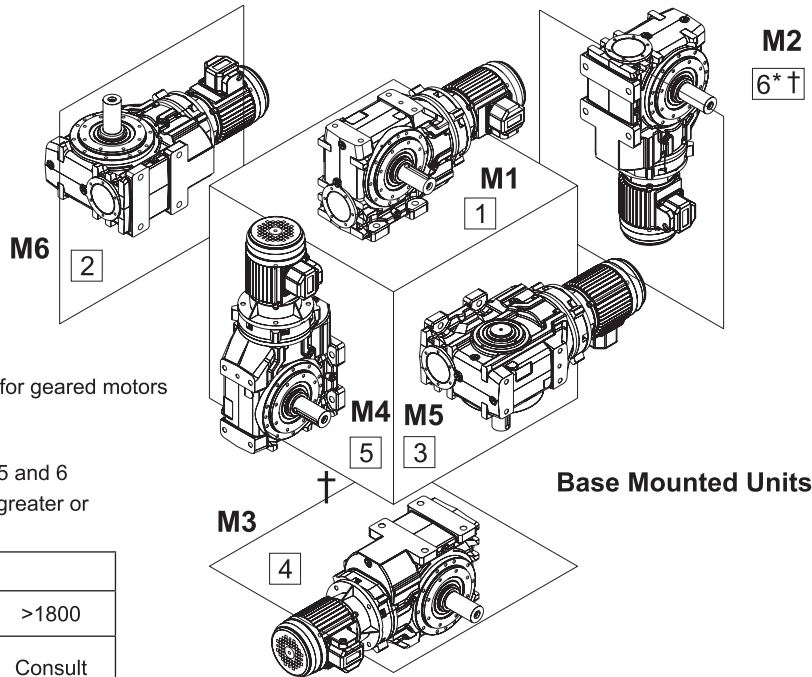
• Unit filled with Grade 6E lubricant suitable for all ambient temperatures between 32°F to 95°F and are 'lubricated for life'

SERIES C

MOUNTING POSITIONS

COLUMN 13 ENTRY

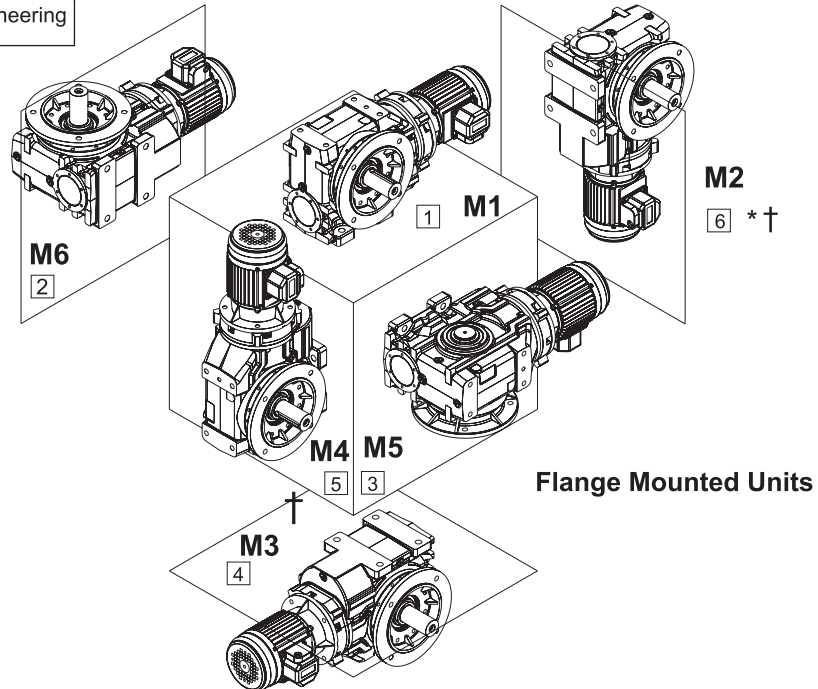
Enter ☐ for units with no oil fill



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

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

Unit Size	Input Speed (rpm)			
	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	

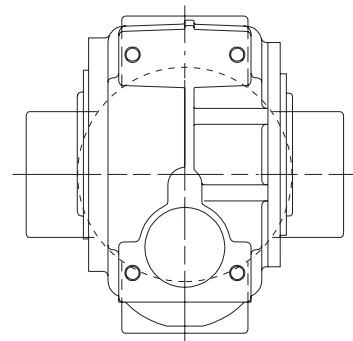


MOUNTING POSITIONS - SHOWN AS MOTORIZED - APPLIES ALSO FOR REDUCERS

COLUMN 14 ENTRY

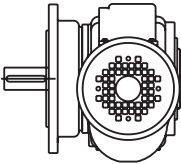
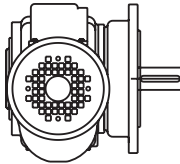
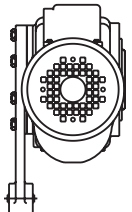
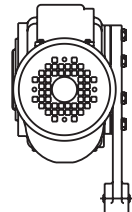
ALL MOTORS

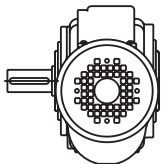
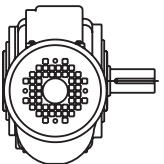
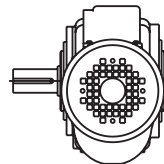
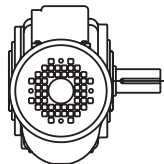
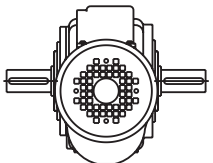
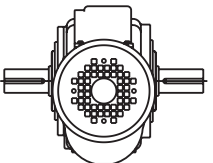
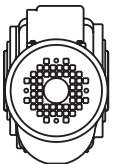
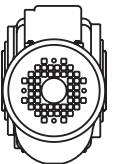
Column 14 Entry	Terminal Box Position
A	0°
B	90°
C	180°
D	270°
-	Reducer or no motor fitted



SERIES C

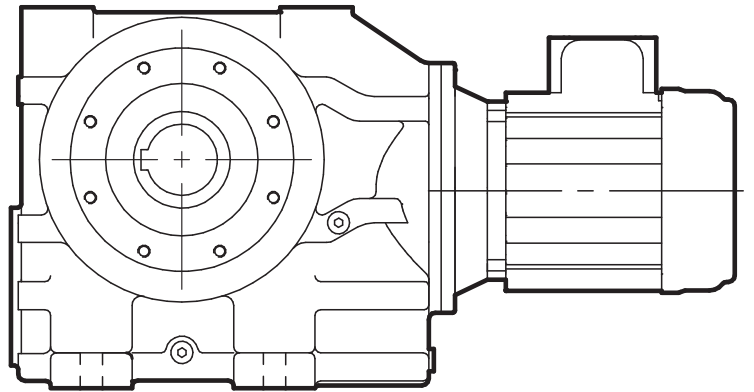
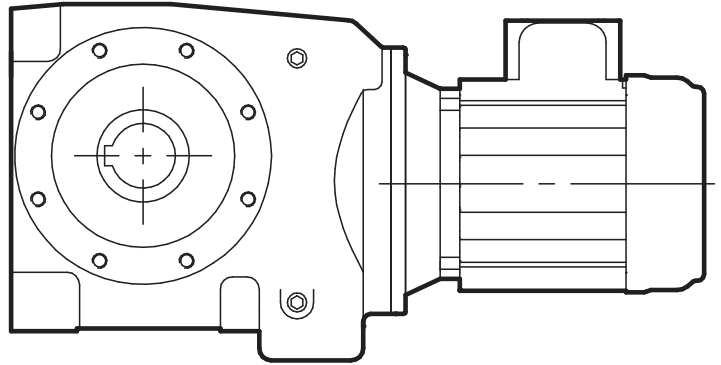
UNIT HANDINGS

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

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

SERIES C

MOTORIZED



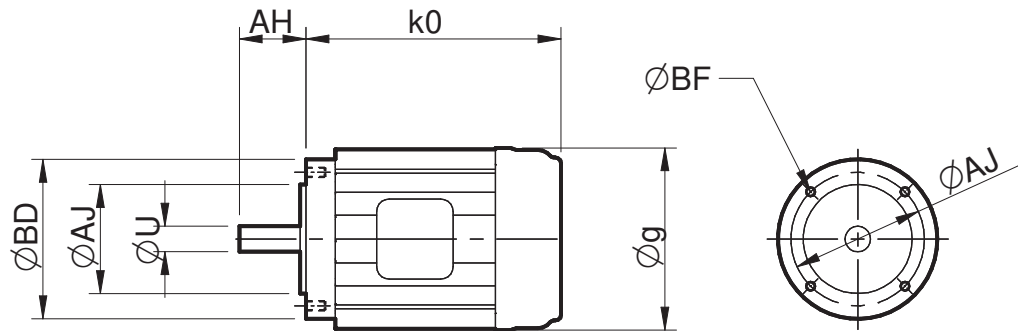
MOTORIZED

SERIES C

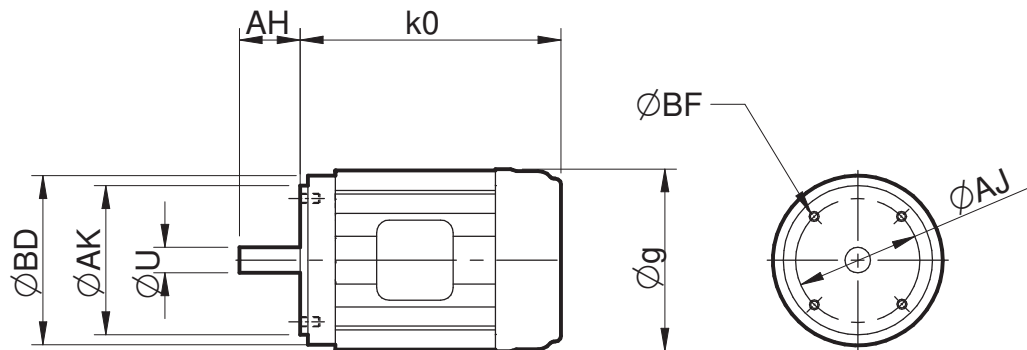
SERIES C

NEMA MOTOR DETAILS

NEMA Standard Motors



MOTOR FRAME SIZE	$\varnothing BD$	$\varnothing AJ$	$\varnothing AK$	$\varnothing U$	AH	$k0_{max}$	$\varnothing g$	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	$k0_{max}$	$\varnothing g$	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

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.25 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
201	8.59	65	10.42	625	C 0 3 2 1 8 . 0 _ _ _ _ _ . 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	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
11	160.26	1127	3.12	1650	C 0 5 3 1 1 6 0 _ _ _ _ _ . 2 5 B _ _	64.3	56C
9.2	187.76	1312	2.67	1650	1 8 0		
8.6	201.10	1207	3.89	1650	2 0 0		
7.5	229.81	1369	3.57	1650	2 2 5		
6.6	262.58	1808	1.91	1650	2 6 5		
5.9	291.75	2002	1.72	1650	2 8 0		
5.6	310.18	1817	2.84	1650	3 1 5		
4.7	363.40	2110	2.50	1650	3 6 0		
4.3	402.70	2744	1.25	1650	4 0 0		
3.8	457.66	3098	1.10	1650	4 5 0		
3.4	508.21	2895	1.82	1650	5 0 0		
3.1	564.68	3202	1.64	1650	5 6 0		
2.2	779.42	4349	1.21	1650	8 0 0		
1.9	885.79	4906	1.07	1650	9 0 0		
6.5	265.95	1944	3.92	2580	C 0 6 3 1 2 6 5 _ _ _ _ _ . 2 5 B _ _	99.6	56C
5.8	299.67	2181	3.48	2580	2 8 0		
4.8	357.32	2195	3.90	2580	3 6 0		
4.4	395.39	2858	2.64	2580	4 0 0		
3.8	449.50	3229	2.33	2580	4 5 0		
3.4	514.75	3086	2.78	2580	5 0 0		
3.0	580.00	3454	2.48	2580	5 6 0		
2.3	765.28	4488	1.91	2580	8 0 0		
2.0	870.00	5063	1.69	2580	9 0 0		
1.71	1022	9202	1.0	2580	C 0 6 4 1 1 0 C _ _ _ _ _ . 2 5 B _ _	123.8	56C
1.58	1111	10003	0.9	2580	1 1 C		
4.1	419.25	3150	3.85	6050	C 0 7 3 1 4 5 0 _ _ _ _ _ . 2 5 B _ _	207.6	56C
3.5	499.88	3502	3.21	6050	5 0 0		
3.2	547.35	3823	2.94	6050	5 6 0		
2.3	747.66	5131	2.17	6050	8 0 0		
2.1	838.50	5731	1.95	6050	9 0 0		
1.73	1009	9086	1.6	6050	C 0 7 4 1 1 0 C _ _ _ _ _ . 2 5 B _ _	218.6	56C
1.59	1097	9879	1.5	6050	1 1 C		
1.44	1213	10924	1.4	6050	1 2 C		
1.25	1396	12565	1.2	6050	1 4 C		
1.15	1517	13661	1.1	6050	1 6 C		
1.05	1662	14960	1.0	6050	1 8 C		
0.88	1995	17962	0.8	6050	2 0 C		
1.95	899	8094	3.5	9380	C 0 8 4 1 9 0 0 _ _ _ _ _ . 2 5 B _ _	346.5	56C
1.82	960	8643	3.3	9380	1 0 C		
1.61	1084	9760	2.9	9380	1 1 C		
1.47	1191	10723	2.6	9380	1 2 C		
1.25	1405	12650	2.2	9380	1 4 C		
1.14	1532	13793	2.1	9380	1 6 C		
0.92	1901	17116	1.7	9380	1 8 C		
0.84	2088	18799	1.5	9380	2 0 C		
0.78	2242	20186	1.4	9380	2 2 C		
0.71	2463	22176	1.3	9380	2 5 C		
0.65	2697	24283	1.2	9380	2 8 C		
0.53	3305	29757	1.0	9380	3 2 C		
0.47	3761	33862	0.8	9380	3 6 C		
1.22	1434	12911	4.0	11900	C 0 9 4 1 1 4 C _ _ _ _ _ . 2 5 B _ _	507.4	56C
1.14	1538	13847	3.8	11900	1 6 C		
0.92	1908	17179	3.0	11900	1 8 C		
0.83	2107	18971	2.8	11900	2 0 C		
0.78	2250	20258	2.6	11900	2 2 C		
0.70	2484	22365	2.3	11900	2 5 C		
0.64	2720	24490	2.1	11900	2 8 C		
0.52	3334	30018	1.8	11900	3 2 C		
0.46	3775	33988	1.5	11900	3 6 C		
0.42	4167	37518	1.4	11900	4 0 C		
0.38	4586	41290	1.3	11900	4 5 C		
0.34	5112	46026	1.2	11900	5 0 C		
0.31	5733	51617	1.0	11900	5 6 C		
0.27	6447	58046	0.9	11900	6 3 C		
0.25	7041	63394	0.9	11900	7 1 C		
0.22	7897	71101	0.8	11900	8 0 C		

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.33 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.33 HP

4 POLE
1750 rpm
nominal
input speed

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

0.50 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.50 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.50 HP

4 POLE
1750 rpm
nominal
input speed

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

0.75 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

0.75 HP

4 POLE
1750 rpm
nominal
input speed

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

1 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

1 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

1 HP

4 POLE
1750 rpm
nominal
input speed

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

1.5 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

1.5 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
17	103.90	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

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
3.21	545	29442	3.0	19600	C 1 0 4 1 5 6 0 _ _ _ _ _ 1 . 5 B _ _	805.6	145TC
2.80	626	33817	2.6	19600	6 3 0		
2.46	710	38355	2.3	19600	7 1 0		
2.23	783	42299	2.1	19600	8 0 0		
1.95	897	48457	1.8	19600	9 0 0		
1.73	1014	54778	1.6	19600	1 0 C		
1.55	1127	60882	1.4	19600	1 1 C		
1.49	1176	63529	1.4	19600	1 2 C		
1.25	1402	75738	1.2	19600	1 4 C		
1.09	1607	86812	1.0	19600	1 6 C		
0.94	1863	100642	0.9	19600	1 8 C		
0.82	2146	115930	0.8	19600	2 0 C		
0.79	2222	120036	0.8	19600	2 2 C		

2 HP

4 POLE
1750 rpm
nominal
input speed

201	8.59	526	1.30	625	C 0 3 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	69.7	145TC
149	11.61	703	1.06	625	1 1 .		
131	13.20	794	0.96	625	1 2 .		
115	14.95	896	0.89	560	1 4 .		
105	16.36	876	0.84	525	1 6 .		
201	8.59	536	2.16	1180	C 0 4 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	76.3	145TC
149	11.61	719	1.76	1180	1 1 .		
131	13.20	813	1.60	1180	1 2 .		
115	14.95	918	1.47	1180	1 4 .		
105	16.36	903	1.34	1180	1 6 .		
90	19.13	1166	1.23	1180	1 8 .		
84	20.61	1248	1.17	1180	2 0 .		
78	22.11	1201	1.10	1180	2 2 .		
69	25.14	1356	1.00	1180	2 5 .		
61	28.48	1530	0.93	1090	2 8 .		
51	33.71	1997	0.82	960	3 2 .		
208	8.31	530	3.22	1650	C 0 5 2 1 8 . 0 _ _ _ _ _ 2 . 0 B _ _	80.7	145TC
148	11.66	737	2.66	1650	1 1 .		
134	12.85	806	2.52	1650	1 2 .		
118	14.59	912	2.35	1650	1 4 .		
107	16.09	930	2.92	1650	1 6 .		
93	18.53	1147	2.04	1650	1 8 .		
82	21.05	1296	1.88	1650	2 0 .		
76	22.56	1278	2.32	1650	2 2 .		
69	24.86	1396	2.17	1650	2 5 .		
61	28.24	1571	1.98	1650	2 8 .		
53	32.55	1974	1.42	1650	3 2 .		
48	35.86	1963	1.67	1650	3 6 .		
42	40.74	2210	1.51	1650	4 0 .		
37	46.84	2800	1.09	1650	4 5 .		
34	50.93	3032	1.02	1650	5 0 .		
31	55.45	2940	1.22	1650	5 6 .		
27	63.00	3307	1.11	1650	6 3 .		
19	90.67	4646	0.89	1486	9 0 .		
18	98.57	5016	0.83	1370	1 0 0		
52	33.48	2134	2.43	2580	C 0 6 2 1 3 2 . _ _ _ _ _ 2 . 0 B _ _	111.5	145TC
36	47.32	2977	1.95	2580	4 5 .		
34	50.52	3170	1.87	2580	5 0 .		
31	55.71	3140	1.90	2580	5 6 .		
27	64.80	3612	1.71	2580	6 3 .		
23	73.92	4569	1.39	2580	7 1 .		
21	80.94	4985	1.29	2580	8 0 .		
19	91.58	5002	1.37	2580	9 0 .		
18	97.78	5295	1.32	2580	1 0 0		
16	110.57	6722	0.99	2580	1 1 2		
12	143.08	7552	0.99	2580	1 4 0		
11	156.67	8248	0.91	2322	1 6 0		
17	103.86	6282	1.16	2580	C 0 6 3 1 1 0 0 _ _ _ _ _ 2 . 0 B _ _	122.6	145TC
15	117.99	7133	1.05	2580	1 1 8		
13	130.00	6810	1.00	2580	1 3 2		
12	147.69	7687	0.92	2300	1 5 0		

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

2 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	lb.in	Fm	lb	Unit Designation	lb	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight	Motor Size
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 182TC	8.59	789	0.87	545	C 0 3 2 1 8 . 0 _ _ _ _ _ 3 . 0 B _ _	94.1	
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

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

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

7.5 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

7.5 HP

4 POLE
1750 rpm
nominal
input speed

10 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

15 HP

4 POLE
1750 rpm
nominal
input speed

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

NOTE

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

SERIES C

SELECTION TABLES

GEARED MOTORS

20 HP

4 POLE
1750 rpm
nominal
input speed

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

40 HP

4 POLE
1750 rpm
nominal
input speed

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

50 HP

4 POLE
1750 rpm
nominal
input speed

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

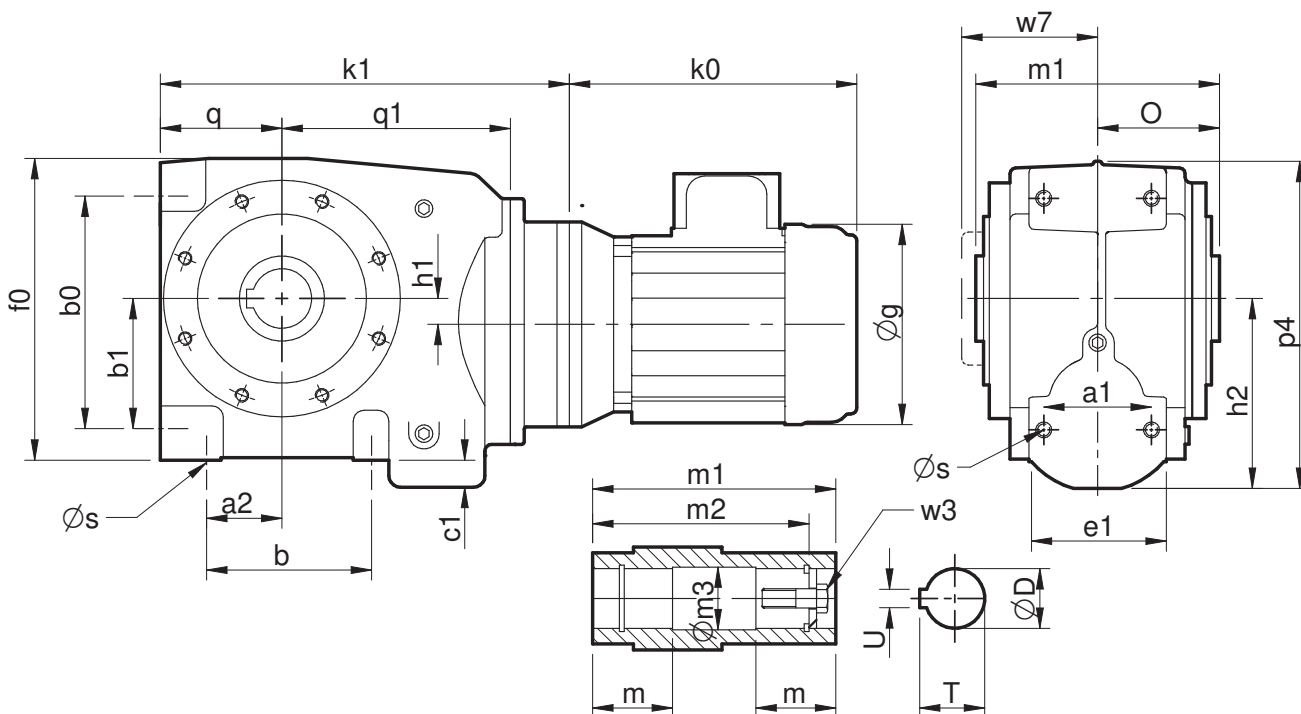
NOTE

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

SERIES C

DIMENSIONS

DOUBLE REDUCTIONS



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

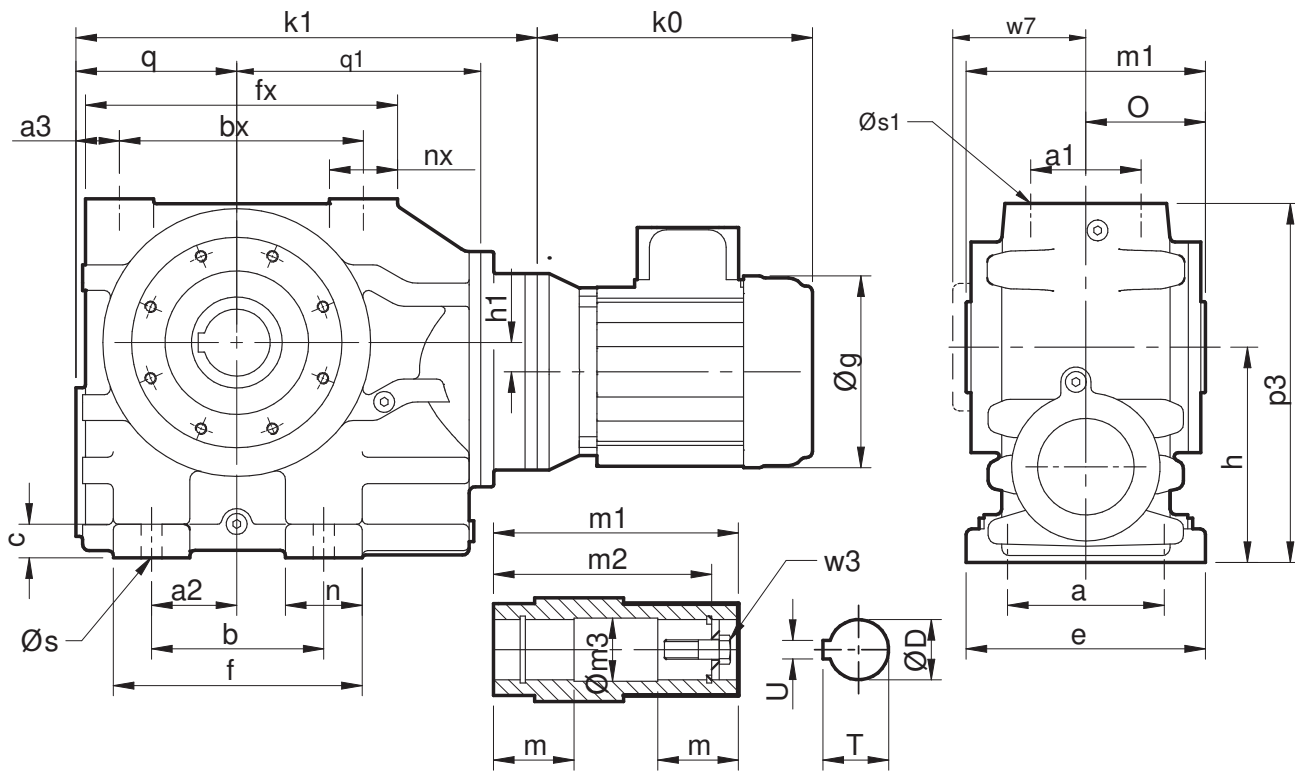
Size	s	w7	Hollow Output Bore							
			D	m	m1	m2	m3	T	U	w3
C0321	M8, 0.59 deep	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0421	M10, 0.79 deep	2.93	1.25	2.13	5.12	4.80	1.19	1.32	0.25	3/8" UNF x 2.00
C0521	M10, 0.71 deep	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0621	M12,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

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

SERIES C

DIMENSIONS

DOUBLE REDUCTION



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

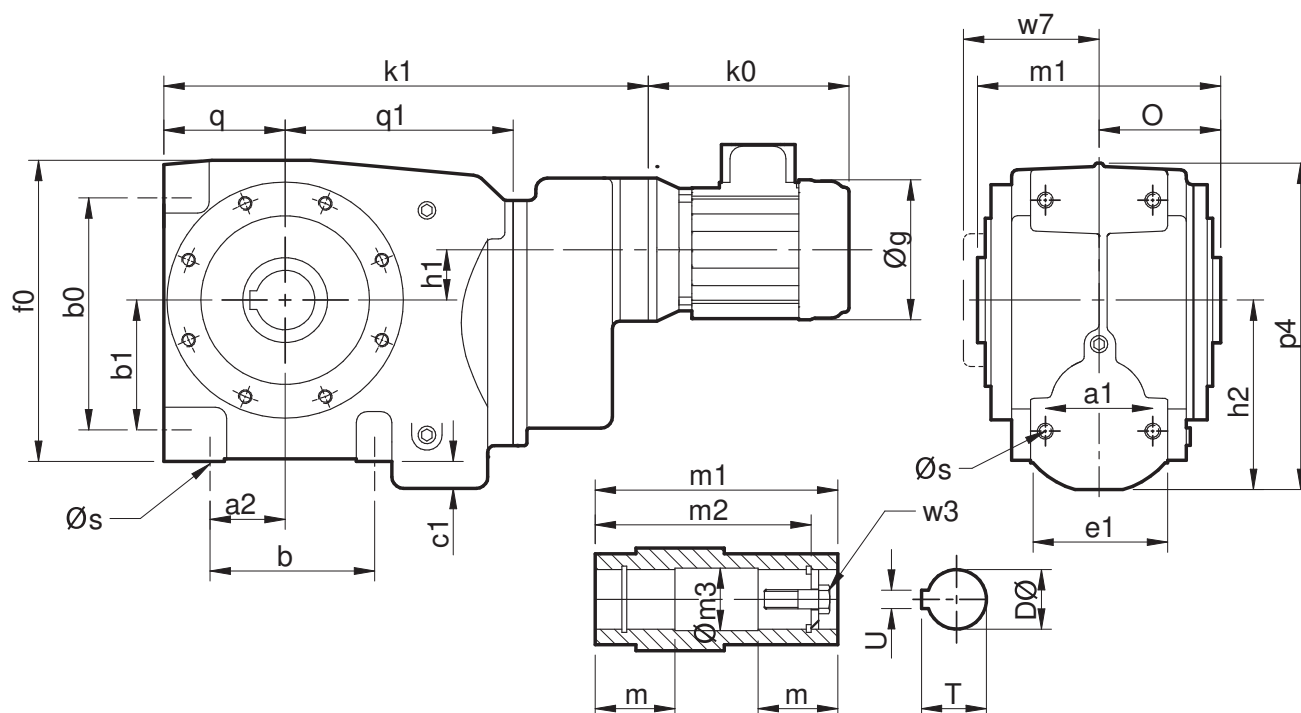
Size	s	s1	w7	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0721	0.71	M20, 1.34 deep	4.92	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0821	0.87	M20, 1.34 deep	5.63	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0921	1.02	M24, 1.77 deep	6.65	2.75	4.23	11.81	10.43	3.56	3.04	0.625	3/4"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

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

SERIES C

DIMENSIONS

TRIPLE REDUCTIONS



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

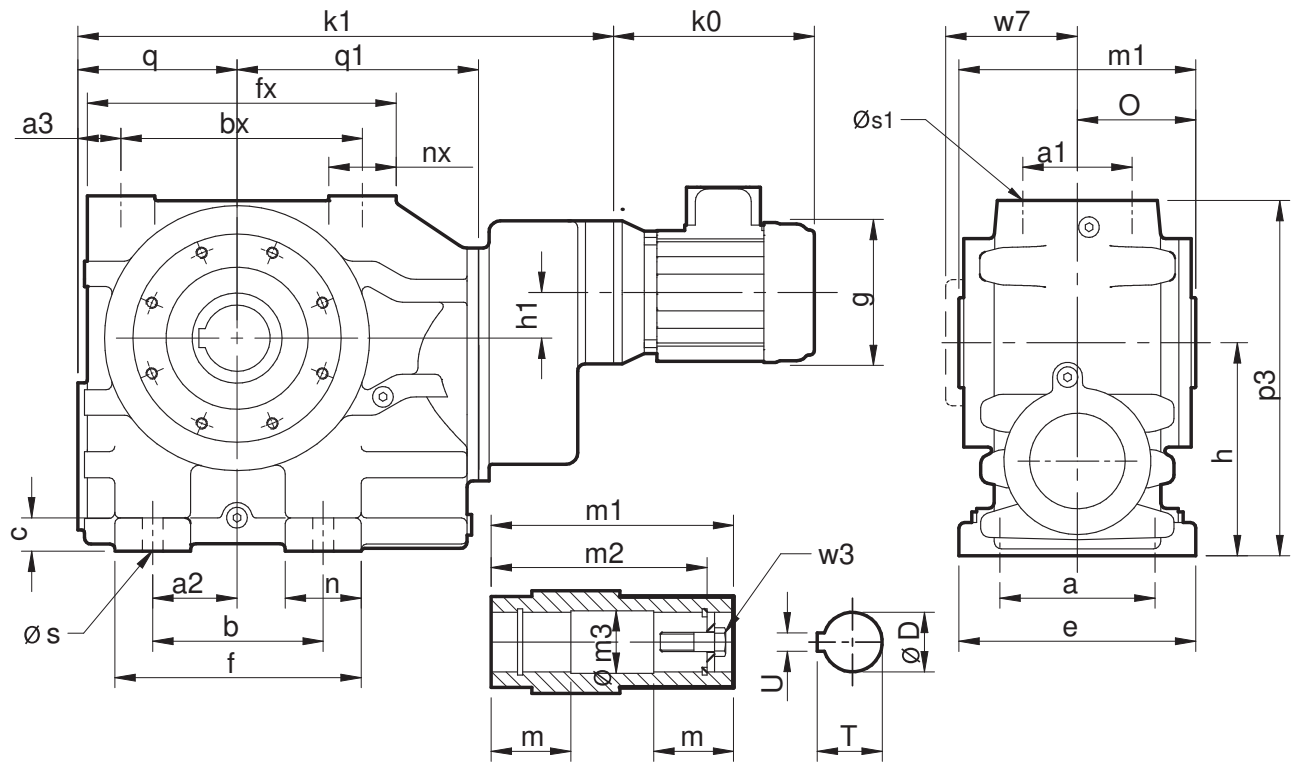
Size	s	w7	Hollow Output Bore							
			D	m	m1	m2	m3	T	U	w3
C0331	M8, 0.59 deep	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0431	M10, 0.79 deep	2.93	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0531	M10, 0.71 deep	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF x 2.00
C0631	M12,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

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

SERIES C

DIMENSIONS

TRIPLE REDUCTION



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

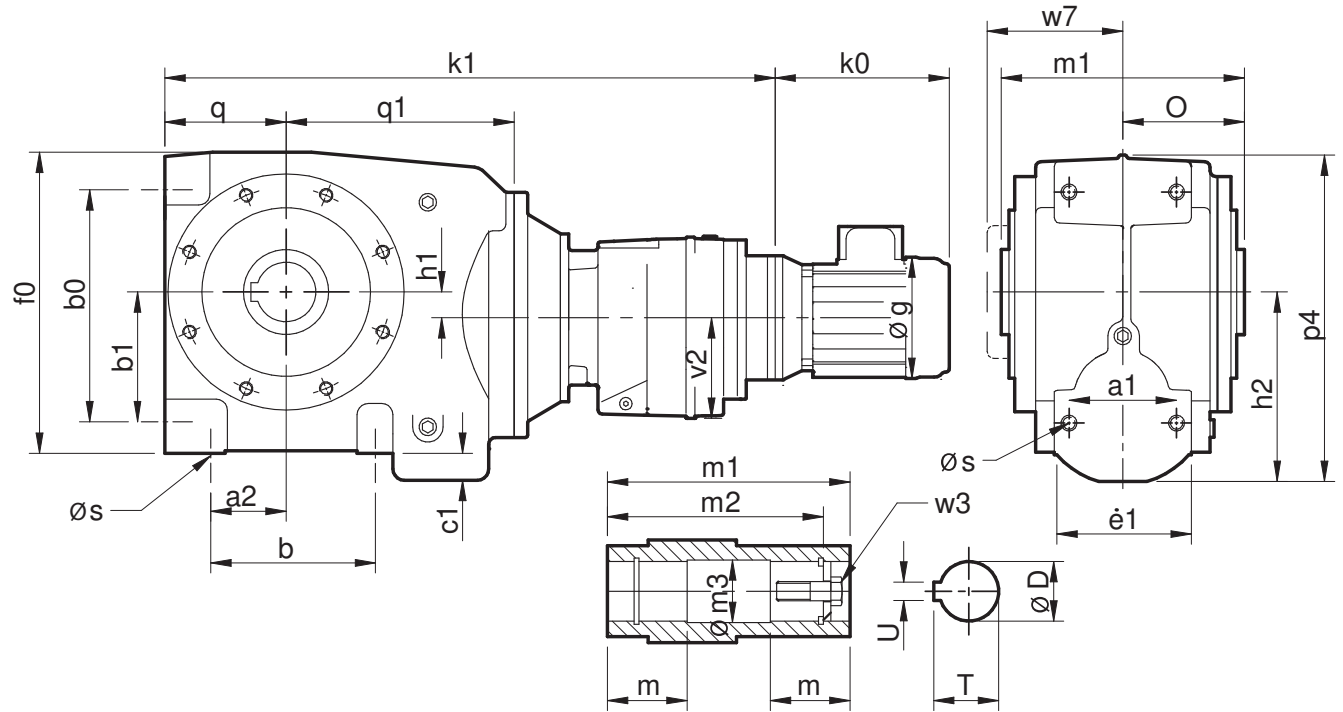
Size	s	s1	w7	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0731	0.71	M20, 1.34 deep	4.92	2.0	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00

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

SERIES C

DIMENSIONS

QUADRUPLE REDUCTIONS



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

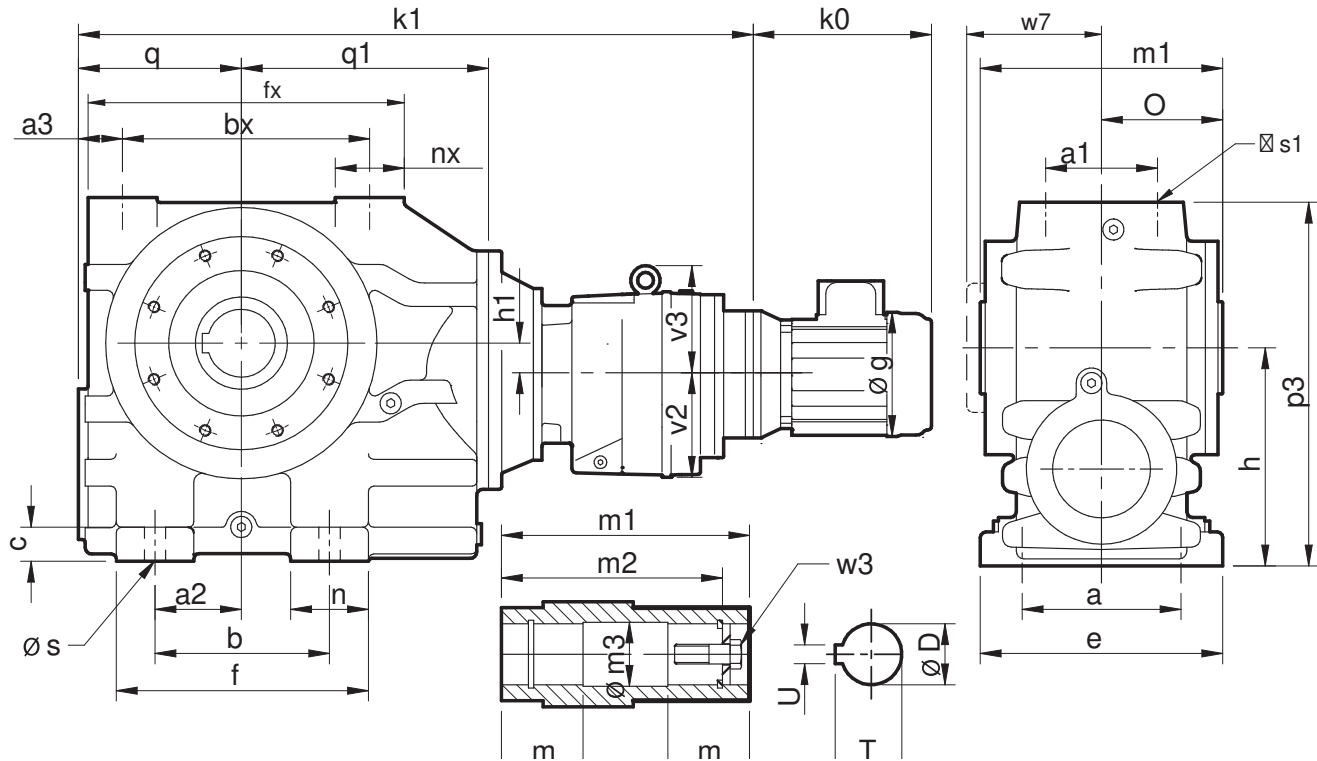
Size	s	v2	w7	Hollow Output Bore							
				D	m	m1	m2	m3	T	U	w3
C0341	M8, 0.59 deep	2.99	2.76	0.75	2.05	4.88	4.09	0.80	0.84	0.188	1/4" UNF x 1.50
C0441	M10, 0.79 deep	2.99	2.93	1.25	2.13	5.12	4.80	1.19	1.37	0.25	3/8" UNF x 2.00
C0541	M10, 0.71 deep	2.99	3.11	1.375	2.20	5.51	5.00	1.39	1.53	0.313	1/2" UNF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

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

SERIES C

DIMENSIONS

QUADRUPLE REDUCTION



SIZE	a	a1	a2	a3	b	bx	c	e	f	fx	h	h1		n x	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	Hollow Output Bore							
						D	m	m1	m2	m3	T	U	w3
C0741	0.71	M20, 1.34 deep	3.58	-	4.92	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0841	0.87	M20, 1.34 deep	4.53	-	5.63	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0941	1.02	M24, 1.77 deep	4.53	-	6.65	2.75	4.23	11.81	10.43	3.56	3.04	0.625	3/4" UNF x 4.25
C1041	1.02	M24, 1.77 deep	5.51	6.10	7.80	3.25	5.22	13.78	12.32	3.96	3.59	0.75	1" UNF x 4.25

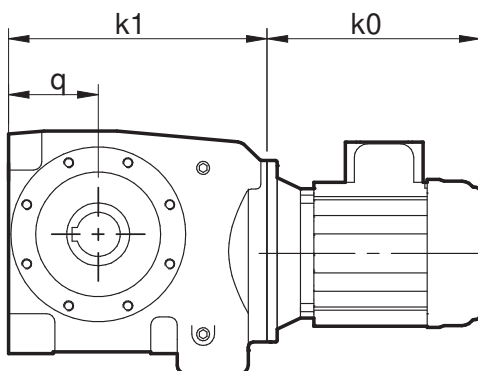
NEMA Motor Frame Size	k0 (max)	g	C0741	C0841	C0941	C1041
			k1	k1	k1	k1
56c	12.00	6.13	24.84	28.27	31.54	48.77
143Tc / 145Tc	12.00	7.13	24.84	28.27	31.54	48.77
182Tc / 184Tc	15.50	8.50	24.53	29.25	32.52	52.63
213Tc / 215Tc	16.50	10.19	-	29.25	32.52	52.63

SERIES C

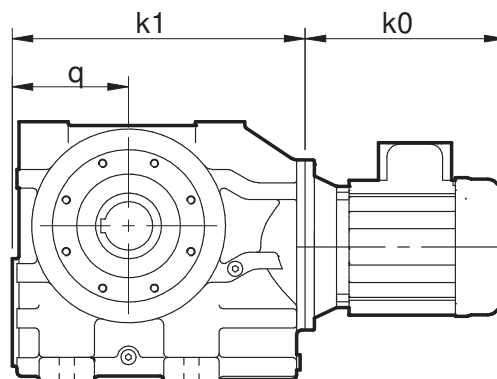
DIMENSIONS

UNITS WITH COMPACT MOTOR

Double Reduction Units



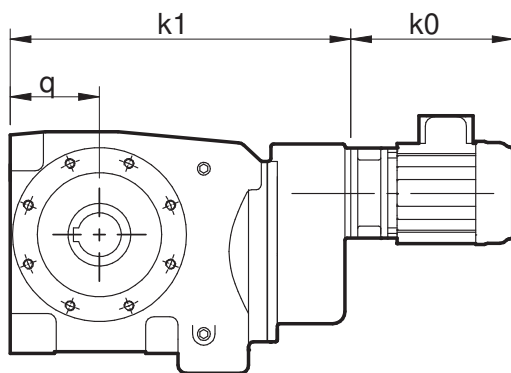
C0321 - C0621



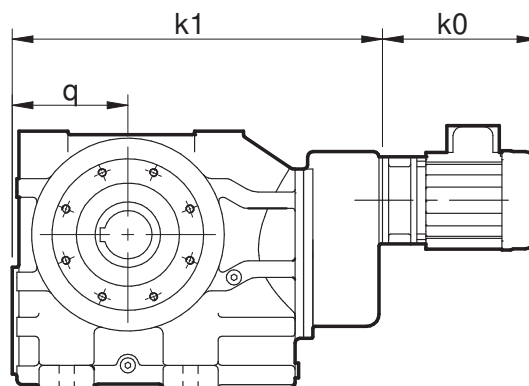
C0721 - C0821

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

Triple Reduction Units



C0331 - C0631



C0731 - C0831

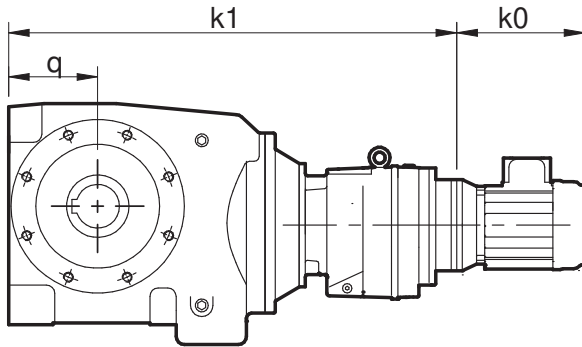
Size	C0331				C0431			C0531			C0631			C0731		
	g	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q	k1	k0	q
0.33 HP	5.51	8.62	9.06	2.13	9.41	9.06	2.52	10.16	9.06	2.68	12.80	9.06	3.54	-	-	-
0.50 HP	5.51	8.62	9.06	2.13	9.41	9.06	2.52	10.16	9.06	2.68	12.80	9.06	3.54	-	-	-
0.75 HP	6.22	8.62	11.42	2.13	9.41	11.02	2.52	10.16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

SERIES C

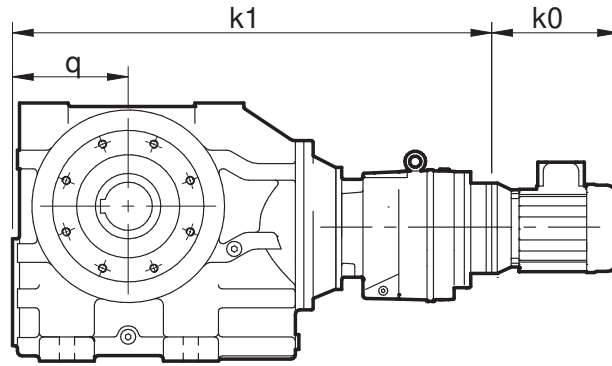
DIMENSIONS

UNITS WITH COMPACT MOTOR

Quadruple Reduction Units



C0341 - C0641



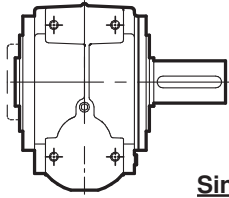
C0741 - C0841

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

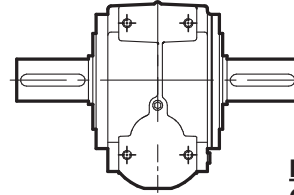
Size	C0841				C0941			C1041		
	g	k1	k0	q	k1	k0	q	k1	k0	q
0.75 HP	6.22	26.30	10.43	6.61	29.57	10.43	7.68	-	-	-
1.0 HP	6.22	26.30	11.22	6.61	29.57	11.22	7.68	-	-	-
1.5 HP	7.09	26.30	12.40	6.61	29.57	12.40	7.68	34.72	11.81	9.25
2.0 HP	7.09	26.30	13.78	6.61	29.57	13.78	7.68	34.72	13.19	9.25
3.0 HP	7.80	26.30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

SERIES C

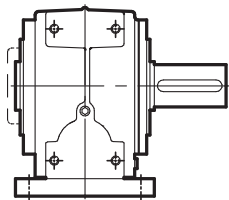
GEAR UNIT OPTIONS



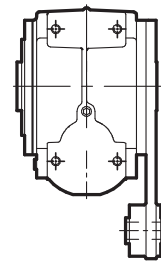
**Single Extended
Outputshaft**



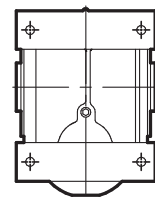
**Double Extended
Outputshaft**



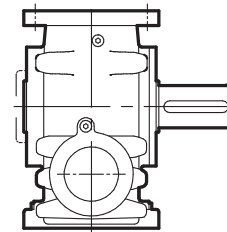
Base Mounted Feet



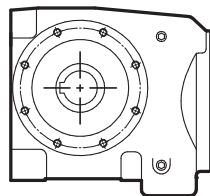
Torque Bracket



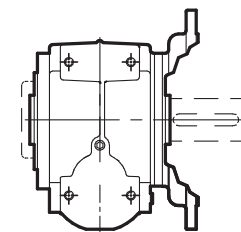
End Mounted Feet



Top Mounted Feet



B14 (C) Flange Mounting



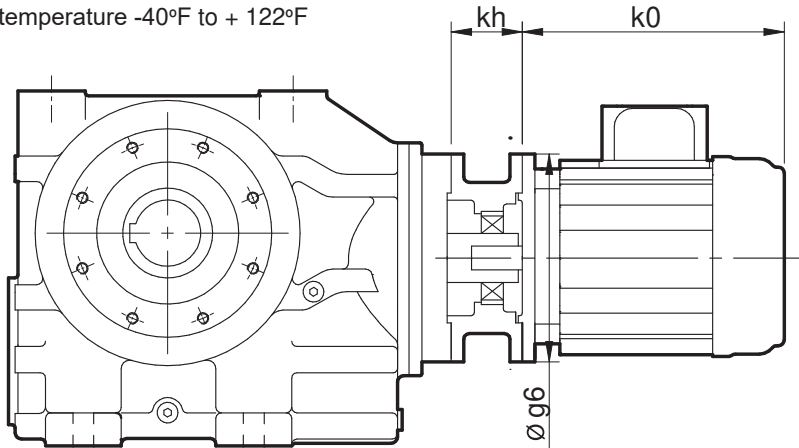
B5 (D) Flange Mounting

SERIES C

MOTORIZED BACKSTOP MODULE

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

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



Warning

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

NEMA C FLANGE

Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	Øg6	kh
182TC / 184TC	670	2650	9.0	3.75
213TC / 215TC	670	2650	9.0	3.75
254TC / 256TC	620	8300	9.0	4.75
284TC / 286TC	620	8300	11.0	5.37
324TC / 326TC	550	11100	13.0	6.00

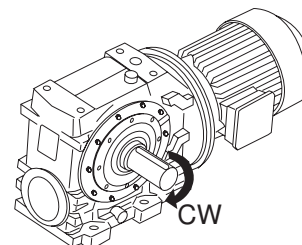
IEC B5 FLANGE

Motor Frame Size	Lift off Speed (rev/min)	Rated Locking Torque ('T max') at motor (lb-in)	Øg6	kh
100	670	1500	9.84	2.76
112	670	1500	9.84	2.76
132	620	8300	11.81	3.74
160	620	8300	13.77	5.12
180	620	8300	13.77	5.12
200	550	11100	15.74	5.12

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

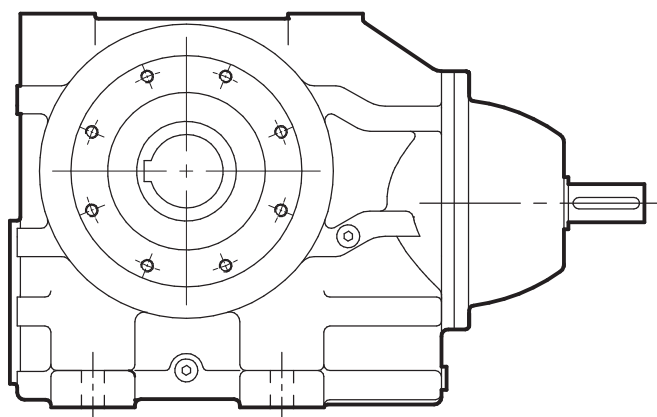
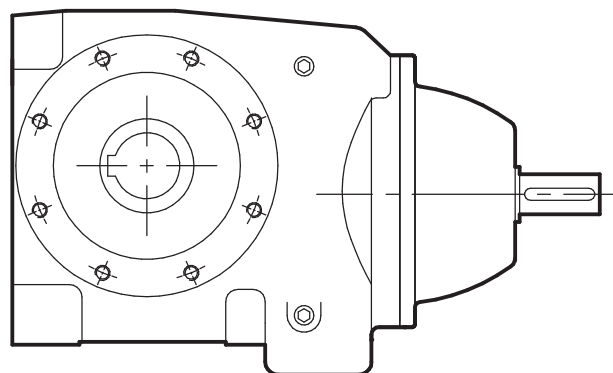
Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram)

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



SERIES C

REDUCER



REDUCER

SERIES C

SERIES C

OVERHUNG & AXIAL LOADS (NEWTONS) ON SHAFTS

Maximum permissible overhung loads

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

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

Overhung load (lbs)

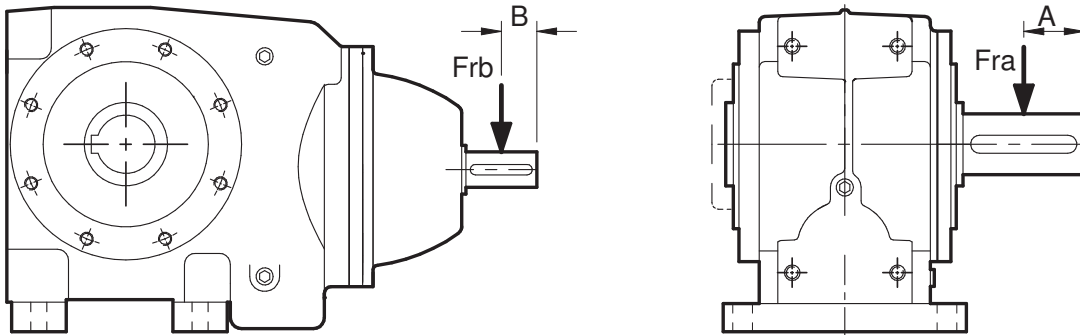
$$P = \frac{HP \times 63,000 \times K}{N \times R}$$

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

Overhung load K (factor)

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

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



Distance midway along the shaft extension

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

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

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

For output overhung load Fra consult ratings tables.

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

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C0321	8.0	8.591	204	685	84	2.64	625	135	750	84	1.91	625	100	809	84	1.53	625
	11.	11.61	151	744	83	2.14	625	100	818	83	1.56	625	74	874	83	1.24	625
	12.	13.20	133	767	83	1.94	625	88	843	83	1.42	625	65	903	83	1.12	625
	14.	14.95	117	794	82	1.80	625	78	872	82	1.31	625	58	929	82	1.03	625
	16.	16.36	107	736	73	1.71	625	71	813	73	1.25	625	53	874	73	1.00	625
	18.	19.12	92	845	82	1.50	625	61	920	82	1.08	625	45	982	82	0.85	625
	20.	20.61	85	861	81	1.43	625	56	938	81	1.03	625	42	1000	81	0.82	625
	22.	22.11	79	801	72	1.40	625	52	882	72	1.02	625	39	947	72	0.81	625
	25.	25.14	70	828	71	1.29	625	46	912	71	0.94	625	34	974	71	0.74	625
	28.	28.48	61	857	70	1.19	625	41	938	70	0.87	625	30	1000	70	0.68	625
	32.	33.71	52	965	79	1.01	625	34	1050	79	0.73	625	26	1150	79	0.59	625
	36.	36.43	48	913	69	1.01	625	32	1000	69	0.73	625	24	1060	69	0.58	625
	40.	39.26	45	931	68	0.97	625	30	1020	68	0.70	625	22	1090	68	0.56	625
	45.	45.50	38	1040	79	0.80	625	25	1150	79	0.59	625	19	1270	79	0.48	625
	50.	53.31	33	1070	78	0.71	625	22	1210	78	0.54	625	16	1340	78	0.44	625
	56.	56.19	31	1020	68	0.74	625	21	1110	68	0.53	625	15	1190	68	0.42	625
	63.	64.21	27	1050	67	0.68	625	18	1150	67	0.49	625	13	1230	67	0.39	625
	71.	74.55	23	1220	76	0.60	625	16	1350	76	0.44	625	12	1360	76	0.33	625
	80.	82.83	21	1250	76	0.55	625	14	1350	76	0.39	625	10	1360	76	0.29	625
	90.	86.67	20	1180	66	0.57	625	13	1280	66	0.41	625	10	1360	66	0.32	625
	100	101.5	17	1220	65	0.51	625	11	1330	65	0.37	625	8.5	1360	65	0.28	625
	112	114.3	15	1360	75	0.44	625	10	1120	75	0.24	625	7.5	1360	75	0.22	625
	125	129.0	14	1290	75	0.37	625	9.0	1120	75	0.21	625	6.7	1360	75	0.19	625
	140	142.0	12	1310	63	0.41	625	8.2	1360	63	0.28	625	6.1	1360	63	0.21	625
	160	157.8	11	1340	63	0.37	625	7.4	1360	63	0.25	625	5.4	1360	63	0.19	625
	212	217.8	8.0	1360	62	0.28	625	5.3	1360	62	0.19	625	3.9	1360	62	0.14	625
	250	247.5	7.1	1360	61	0.25	625	4.7	1360	61	0.17	625	3.5	1360	61	0.12	625
C0331	100	105.4	17	1329	74	0.47	625	11	1329	74	0.31	625	8.2	1329	74	0.23	625
	118	120.4	15	1360	74	0.42	625	10	1360	74	0.28	625	7.1	1360	74	0.21	625
	132	130.1	13	1230	63	0.42	625	8.9	1230	63	0.28	625	6.6	1230	63	0.20	625
	150	140.2	12	1260	63	0.40	625	8.3	1260	63	0.26	625	6.1	1260	63	0.19	625
	160	162.5	11	1260	73	0.29	625	7.1	1260	73	0.20	625	5.3	1260	73	0.14	625
	180	190.4	9.2	1360	73	0.27	625	6.1	1360	73	0.18	625	4.5	1360	73	0.13	625
	200	200.7	8.7	1360	61	0.31	625	5.8	1360	61	0.20	625	4.3	1360	61	0.15	625
	225	229.3	7.6	1360	61	0.27	625	5.1	1360	61	0.18	625	3.8	1360	61	0.13	625
	265	266.2	6.6	1360	72	0.20	625	4.4	1360	72	0.13	625	3.2	1360	72	0.10	625
	280	295.8	5.9	1360	71	0.18	625	3.9	1360	71	0.12	625	2.9	1360	71	0.09	625
	315	309.5	5.7	1360	59	0.21	625	3.7	1360	59	0.14	625	2.8	1360	59	0.10	625
	360	362.6	4.8	1360	59	0.18	625	3.2	1360	59	0.12	625	2.4	1360	59	0.087	625
	400	408.3	4.3	1360	71	0.13	625	2.8	1360	71	0.086	625	2.1	1360	71	0.064	625
	450	464.1	3.8	1360	71	0.11	625	2.5	1360	71	0.076	625	1.9	1360	71	0.056	625
	500	507.1	3.5	1360	58	0.13	625	2.3	1360	58	0.085	625	1.7	1360	58	0.063	625
	560	563.5	3.1	1360	57	0.12	625	2.1	1360	57	0.078	625	1.5	1360	57	0.058	625
	800	777.8	2.2	1360	57	0.085	625	1.5	1360	57	0.056	625	1.1	1360	57	0.042	625
	900	883.9	2.0	1360	57	0.075	625	1.3	1360	57	0.050	625	1.0	1360	57	0.037	625
C0341	10C	960	1.8	1360	70	0.056	625	1.2	1360	70	0.037	625	0.90	1360	70	0.028	625
	11C	1097	1.6	1360	70	0.049	625	1.1	1360	70	0.033	625	0.78	1360	70	0.024	625
	12C	1220	1.4	1360	70	0.044	625	1.0	1360	70	0.029	625	0.70	1360	70	0.022	625
	14C	1345	1.3	1360	70	0.040	625	0.86	1360	70	0.027	625	0.64	1360	70	0.020	625
	16C	1635	1.1	1360	69	0.033	625	0.71	1360	69	0.022	625	0.53	1360	69	0.016	625
	18C	1735	1.0	1360	70	0.031	625	0.67	1360	70	0.021	625	0.50	1360	70	0.015	625
	20C	1916	0.91	1360	69	0.029	625	0.61	1360	69	0.019	625	0.45	1360	69	0.014	625
	22C	2081	0.84	1360	70	0.026	625	0.56	1360	70	0.017	625	0.41	1360	70	0.013	625
	25C	2426	0.72	1360	70	0.022	625	0.48	1360	70	0.015	625	0.35	1360	70	0.011	625
	28C	2679	0.65	1360	69	0.020	625	0.43	1360	69	0.014	625	0.32	1360	69	0.010	625
	32C	3246	0.54	1360	70	0.017	625	0.36	1360	70	0.011	625	0.26	1360	70	0.008	625
	36C	3585	0.49	1360	69	0.015	625	0.32	1360	69	0.010	625	0.24	1360	69	0.008	625
	40C	4109	0.43	1360	69	0.013	625	0.28	1360	69	0.009	625	0.21	1360	69	0.007	625
	45C	4670	0.37	1360	69	0.012	625	0.25	1360	69	0.008	625	0.18	1360	69	0.006	625
	50C	4978	0.35	1360	68	0.011	625	0.23	1360	68	0.007	625	0.17	1360	68	0.005	625
	56C	5658	0.31	1360	68	0.010	625	0.21	1360	68	0.007	625	0.15	1360	68	0.005	625
	63C	6485	0.27	1360	68	0.009	625	0.18	1360	68	0.006	625	0.13	1360	68	0.004	625
	71C	7370	0.24	1360	68	0.008	625	0.16	1360	68	0.005	625	0.12	1360	68	0.004	625
	80C	7874	0.22	1360	53	0.009	625	0.15	1360	53	0.006	625	0.11	1360	53	0.004	625
	90C	8949	0.20	1360	53	0.008	625	0.13	1360	53	0.005	625	0.10	1360	53	0.004	625
	10K	9482	0.18	1360	53	0.008	625	0.12	1360	53	0.005	625	0.09	1360	53	0.004	625
	11K	10869	0.16	1360	53	0.007	625	0.11	1360	53	0.004	625	0.08	1360	53	0.003	625
	12K	12352	0.14	1360	53	0.006	625	0.09	1360	53	0.004	625	0.07	1360	53	0.003	625
	14K	14038	0.12	1360	53	0.005	625	0.08	1360	53	0.003	625	0.06	1360	53	0.003	625

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C0421	8.0	8.591	204	1160	85	4.41	1180	135	1270	85	3.20	1180	100	1360	85	2.54	1180
	11.	11.61	151	1260	84	3.59	1180	100	1380	84	2.60	1180	74	1470	84	2.06	1180
	12.	13.20	133	1300	84	3.26	1180	88	1420	84	2.36	1180	65	1510	84	1.86	1180
	14.	14.95	117	1350	83	3.02	1180	78	1470	83	2.18	1180	58	1570	83	1.73	1180
	16.	16.36	107	1210	75	2.74	1180	71	1340	75	2.01	1180	53	1430	75	1.59	1180
	18.	19.12	92	1430	82	2.53	1180	61	1560	82	1.83	1180	45	1660	82	1.44	1180
	20.	20.61	85	1460	82	2.40	1180	56	1590	82	1.73	1180	42	1640	82	1.32	1180
	22.	22.11	79	1320	74	2.24	1180	52	1450	74	1.63	1180	39	1540	74	1.28	1180
	25.	25.14	70	1360	73	2.06	1180	46	1490	73	1.49	1180	34	1580	73	1.17	1180
	28.	28.48	61	1410	72	1.91	1180	41	1540	72	1.38	1180	30	1640	72	1.09	1180
	32.	33.71	52	1640	80	1.69	1180	34	1780	80	1.21	1180	26	1850	80	0.94	1180
	36.	36.43	48	1500	71	1.61	1180	32	1630	71	1.16	1180	24	1730	71	0.91	1180
	40.	39.26	45	1530	71	1.52	1180	30	1660	71	1.10	1180	22	1770	71	0.87	1180
	45.	45.50	38	1760	79	1.36	1180	25	1850	79	0.95	1180	19	1820	79	0.69	1180
	50.	53.31	33	1820	79	1.20	1180	22	1830	79	0.80	1180	16	1810	79	0.59	1180
	56.	56.19	31	1670	69	1.20	1180	21	1810	69	0.86	1180	15	1930	69	0.68	1180
	63.	64.21	27	1720	68	1.09	1180	18	1880	68	0.79	1180	13	2000	68	0.63	1180
	71.	74.55	23	1840	77	0.89	1180	16	1810	77	0.58	1180	12	1800	77	0.43	1180
	80.	82.83	21	1710	77	0.74	1180	14	1670	77	0.48	1180	10	1660	77	0.36	1180
	90.	86.67	20	1930	67	0.92	1180	13	2110	67	0.67	1180	10	2240	67	0.53	1180
	100	101.5	17	1990	66	0.82	1180	11	2170	66	0.60	1180	8.5	2320	66	0.47	1180
	112	114.3	15	1500	76	0.48	1180	10	1140	76	0.24	1180	7.5	1130	76	0.18	1180
	125	129.0	14	1290	76	0.37	1180	9.0	1120	76	0.21	1180	6.7	1120	76	0.16	1180
	140	142.0	12	2140	65	0.64	1180	8.2	2820	65	0.56	1180	6.1	2600	65	0.38	1180
	160	157.8	11	2190	64	0.60	1180	7.4	2640	64	0.48	1180	5.4	2620	64	0.35	1180
	212	217.8	8.0	2370	63	0.48	1180	5.3	1800	63	0.24	1180	3.9	1770	63	0.18	1180
	250	247.5	7.1	2050	63	0.37	1180	4.7	1750	63	0.21	1180	3.5	1730	63	0.15	1180
C0431	100	105.4	17	1820	76	0.63	1180	11	1820	76	0.42	1180	8.2	1820	76	0.31	1180
	118	120.4	15	1810	75	0.56	1180	10	1810	75	0.37	1180	7.1	1810	75	0.27	1180
	132	130.1	13	1990	64	0.66	1180	8.9	1990	64	0.44	1180	6.6	1990	64	0.33	1180
	150	140.2	12	2040	64	0.63	1180	8.3	2040	64	0.42	1180	6.1	2040	64	0.31	1180
	160	162.5	11	1790	75	0.41	1180	7.1	1790	75	0.27	1180	5.3	1790	75	0.20	1180
	180	190.4	9.2	1780	74	0.35	1180	6.1	1780	74	0.23	1180	4.5	1780	74	0.17	1180
	200	200.7	8.7	2290	63	0.50	1180	5.8	2290	63	0.33	1180	4.3	2290	63	0.25	1180
	225	229.3	7.6	2400	62	0.47	1180	5.1	2400	62	0.31	1180	3.8	2400	62	0.23	1180
	265	266.2	6.6	1760	73	0.25	1180	4.4	1760	73	0.17	1180	3.2	1760	73	0.12	1180
	280	295.8	5.9	1750	73	0.23	1180	3.9	1750	73	0.15	1180	2.9	1750	73	0.11	1180
	315	309.5	5.7	2650	61	0.39	1180	3.7	2650	61	0.26	1180	2.8	2650	61	0.19	1180
	360	362.6	4.8	2790	61	0.35	1180	3.2	2790	61	0.23	1180	2.4	2790	61	0.17	1180
	400	408.3	4.3	1740	72	0.16	1180	2.8	1740	72	0.11	1180	2.1	1740	72	0.08	1180
	450	464.1	3.8	1730	72	0.14	1180	2.5	1730	72	0.10	1180	1.9	1730	72	0.07	1180
	500	507.1	3.5	2740	59	0.25	1180	2.3	2740	59	0.17	1180	1.7	2740	59	0.12	1180
	560	563.5	3.1	2730	59	0.23	1180	2.1	2730	59	0.15	1180	1.5	2730	59	0.11	1180
	800	777.8	2.2	2690	58	0.17	1180	1.5	2690	58	0.11	1180	1.1	2690	58	0.081	1180
	900	883.9	2.0	2670	58	0.14	1180	1.3	2670	58	0.10	1180	1.0	2670	58	0.071	1180
C0441	10C	960	1.8	1820	71	0.074	1180	1.2	1820	71	0.049	1180	0.90	1820	71	0.036	1180
	11C	1097	1.6	1820	71	0.065	1180	1.1	1820	71	0.043	1180	0.78	1820	71	0.032	1180
	12C	1220	1.4	1820	71	0.058	1180	1.0	1820	71	0.039	1180	0.70	1820	71	0.029	1180
	14C	1345	1.3	1820	70	0.054	1180	0.86	1820	70	0.036	1180	0.64	1820	70	0.026	1180
	16C	1635	1.1	1700	70	0.041	1180	0.71	1700	70	0.027	1180	0.53	1700	70	0.020	1180
	18C	1735	1.0	1820	70	0.042	1180	0.67	1820	70	0.028	1180	0.50	1820	70	0.020	1180
	20C	1916	0.91	1700	70	0.035	1180	0.61	1700	70	0.023	1180	0.45	1700	70	0.017	1180
	22C	2081	0.84	1820	70	0.035	1180	0.56	1820	70	0.023	1180	0.41	1820	70	0.017	1180
	25C	2426	0.72	1820	70	0.030	1180	0.48	1820	70	0.020	1180	0.35	1820	70	0.015	1180
	28C	2679	0.65	1700	70	0.025	1180	0.43	1700	70	0.017	1180	0.32	1700	70	0.012	1180
	32C	3246	0.54	1820	70	0.022	1180	0.36	1820	70	0.015	1180	0.26	1820	70	0.011	1180
	36C	3585	0.49	1700	70	0.019	1180	0.32	1700	70	0.012	1180	0.24	1700	70	0.009	1180
	40C	4109	0.43	1700	70	0.016	1180	0.28	1700	70	0.011	1180	0.21	1700	70	0.008	1180
	45C	4670	0.37	1700	70	0.014	1180	0.25	1700	70	0.010	1180	0.18	1700	70	0.007	1180
	50C	4978	0.35	2400	69	0.019	1180	0.23	2400	69	0.013	1180	0.17	2400	69	0.010	1180
	56C	5658	0.31	2400	69	0.017	1180	0.21	2400	69	0.011	1180	0.15	2400	69	0.008	1180
	63C	6485	0.27	2400	69	0.015	1180	0.18	2400	69	0.010	1180	0.13	2400	69	0.007	1180
	71C	7370	0.24	2400	69	0.013	1180	0.16	2400	69	0.009	1180	0.12	2400	69	0.006	1180
	80C	7874	0.22	2400	54	0.016	1180	0.15	2400	54	0.010	1180	0.11	2400	54	0.008	1180
	90C	8949	0.20	2400	54	0.014	1180	0.13	2400	54	0.009	1180	0.10	2400	54	0.007	1180
	10K	9482	0.18	1680	53	0.009	1180	0.12	1680	53	0.006	1180	0.09	1680	53	0.005	1180
	11K	10869	0.16	1680	53	0.008	1180	0.11	1680	53	0.005	1180	0.08	1680	53	0.004	1180
	12K	12352	0.14	1680	53	0.007	1180	0.09	1680	53	0.005	1180	0.07	1680	53	0.004	1180
	14K	14038	0.12	1620	53	0.006	1180	0.08	1620	53	0.004	1180	0.06	1620	53	0.003	1180

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C0521	8.0	8.31	211	1710	88	6.49	1650	140	2020	88	5.08	1650	103	2260	88	4.22	1650
	11.	11.66	150	1960	86	5.43	1650	99	2290	86	4.20	1650	74	2550	86	3.47	1650
	12.	12.85	136	2040	85	5.19	1650	90	2370	85	3.99	1650	67	2640	85	3.30	1650
	14.	14.59	120	2140	85	4.79	1650	80	2490	85	3.70	1650	59	2750	85	3.03	1650
	16.	16.09	109	2710	78	6.00	1650	72	2970	78	4.36	1650	53	3410	78	3.71	1650
	18.	18.53	94	2340	84	4.17	1650	63	2700	84	3.19	1650	46	2980	84	2.61	1650
	20.	21.05	83	2450	84	3.85	1650	55	2810	84	2.92	1650	41	3110	84	2.40	1650
	22.	22.56	78	2960	77	4.73	1650	51	3200	77	3.39	1650	38	3360	77	2.64	1650
	25.	24.86	70	3030	76	4.45	1650	47	3250	76	3.17	1650	35	3430	76	2.48	1650
	28.	28.24	62	3110	75	4.08	1650	41	3320	75	2.89	1650	30	3520	75	2.27	1650
	32.	32.55	54	2810	82	2.92	1650	36	3240	82	2.23	1650	26	3530	82	1.80	1650
	36.	35.86	49	3280	74	3.43	1650	32	3490	74	2.42	1650	24	3690	74	1.90	1650
	40.	40.74	43	3350	73	3.13	1650	28	3580	73	2.22	1650	21	3800	73	1.74	1650
	45.	46.84	37	3050	81	2.23	1650	25	3600	81	1.75	1650	18	3530	81	1.27	1650
	50.	50.93	34	3100	81	2.09	1650	23	3610	81	1.61	1650	17	3580	81	1.18	1650
	56.	55.45	32	3570	72	2.48	1650	21	3830	72	1.77	1650	16	3530	72	1.21	1650
	63.	63.00	28	3670	71	2.28	1650	18	3940	71	1.62	1650	14	4170	71	1.27	1650
	71.	73.37	24	3190	79	1.53	1650	16	3570	79	1.13	1650	12	3570	79	0.84	1650
	80.	82.67	21	3220	79	1.37	1650	14	3370	79	0.95	1650	10	3440	79	0.72	1650
	90.	90.67	19	4110	70	1.80	1650	13	4420	70	1.28	1650	9.5	4670	70	1.00	1650
	100	98.57	18	4180	69	1.71	1650	12	4480	69	1.21	1650	8.7	4740	69	0.95	1650
	112	109.1	16	3050	78	1.00	1650	11	2600	78	0.56	1650	7.9	2660	78	0.43	1650
	125	124.0	14	2630	78	0.76	1650	9.4	2300	78	0.44	1650	6.9	2350	78	0.33	1650
	140	142.0	12	4270	67	1.25	1650	8.2	4270	67	0.83	1650	6.1	4270	67	0.61	1650
	160	160.0	11	4270	67	1.11	1650	7.3	4270	67	0.73	1650	5.4	4270	67	0.54	1650
	212	211.1	8.3	4270	66	0.85	1650	5.5	4200	66	0.55	1650	4.1	4260	66	0.42	1650
	250	240.0	7.3	4270	65	0.76	1650	4.8	3710	65	0.44	1650	3.6	3760	65	0.33	1650
C0531	100	103.9	17	3570	78	1.22	1650	11	3570	78	0.81	1650	8.3	3570	78	0.60	1650
	118	118.7	15	3560	77	1.08	1650	10	3560	77	0.72	1650	7.2	3560	77	0.53	1650
	132	130.4	13	4130	67	1.31	1650	8.9	4130	67	0.87	1650	6.6	4130	67	0.65	1650
	150	140.5	12	4220	66	1.26	1650	8.3	4220	66	0.84	1650	6.1	4220	66	0.62	1650
	160	160.3	11	3520	77	0.79	1650	7.2	3520	77	0.52	1650	5.4	3520	77	0.39	1650
	180	187.8	9.3	3500	76	0.68	1650	6.2	3500	76	0.45	1650	4.6	3500	76	0.33	1650
	200	201.1	8.7	4700	65	1.00	1650	5.8	4700	65	0.66	1650	4.3	4700	65	0.49	1650
	225	229.8	7.6	4900	65	0.91	1650	5.0	4900	65	0.60	1650	3.7	4900	65	0.45	1650
	265	262.6	6.7	3460	75	0.49	1650	4.4	3460	75	0.32	1650	3.3	3460	75	0.24	1650
	280	291.8	6.0	3450	75	0.44	1650	4.0	3450	75	0.29	1650	2.9	3450	75	0.22	1650
	315	310.2	5.6	5170	63	0.73	1650	3.7	5170	63	0.49	1650	2.8	5170	63	0.36	1650
	360	363.4	4.8	5260	63	0.64	1650	3.2	5260	63	0.42	1650	2.4	5260	63	0.31	1650
	400	402.7	4.3	3420	74	0.32	1650	2.9	3420	74	0.21	1650	2.1	3420	74	0.16	1650
	450	457.7	3.8	3410	74	0.28	1650	2.5	3410	74	0.19	1650	1.9	3410	74	0.14	1650
	500	508.2	3.4	4270	62	0.38	1650	2.3	4270	62	0.25	1650	1.7	4270	62	0.18	1650
	560	564.7	3.1	4270	61	0.34	1650	2.1	4270	61	0.23	1650	1.5	4270	61	0.17	1650
	800	779.4	2.2	4270	61	0.25	1650	1.5	4270	61	0.17	1650	1.1	4270	61	0.12	1650
	900	885.8	2.0	4270	60	0.22	1650	1.3	4270	60	0.15	1650	1.0	4270	60	0.11	1650
C0541	10C	945	1.9	3600	73	0.14	1650	1.2	3600	73	0.10	1650	0.91	3600	73	0.071	1650
	11C	1080	1.6	3600	73	0.13	1650	1.1	3600	73	0.084	1650	0.80	3600	73	0.062	1650
	12C	1201	1.5	3600	73	0.11	1650	1.0	3600	73	0.076	1650	0.72	3600	73	0.056	1650
	14C	1324	1.3	3600	73	0.10	1650	0.88	3600	73	0.069	1650	0.65	3600	73	0.051	1650
	16C	1642	1.1	3570	72	0.084	1650	0.71	3570	72	0.056	1650	0.52	3570	72	0.041	1650
	18C	1707	1.0	3600	73	0.080	1650	0.68	3600	73	0.053	1650	0.50	3600	73	0.039	1650
	20C	1924	0.91	3570	72	0.072	1650	0.60	3570	72	0.047	1650	0.45	3570	72	0.035	1650
	22C	2048	0.85	3600	73	0.067	1650	0.57	3600	73	0.044	1650	0.42	3600	73	0.033	1650
	25C	2387	0.73	3600	73	0.057	1650	0.49	3600	73	0.038	1650	0.36	3600	73	0.028	1650
	28C	2690	0.65	3570	72	0.051	1650	0.43	3570	72	0.034	1650	0.32	3570	72	0.025	1650
	32C	3195	0.55	3600	73	0.043	1650	0.36	3600	73	0.028	1650	0.27	3600	73	0.021	1650
	36C	3599	0.49	3570	72	0.038	1650	0.32	3570	72	0.025	1650	0.24	3570	72	0.019	1650
	40C	4126	0.42	3570	72	0.033	1650	0.28	3570	72	0.022	1650	0.21	3570	72	0.016	1650
	45C	4689	0.37	3570	72	0.029	1650	0.25	3570	72	0.019	1650	0.18	3570	72	0.014	1650
	50C	4778	0.37	3480	71	0.028	1650	0.24	3480	71	0.019	1650	0.18	3480	71	0.014	1650
	56C	5399	0.32	3410	71	0.025	1650	0.21	3410	71	0.016	1650	0.16	3410	71	0.012	1650
	63C	6189	0.28	3410	71	0.022	1650	0.19	3410	71	0.014	1650	0.14	3410	71	0.011	1650
	71C	7033	0.25	4270	71	0.024	1650	0.16	4270	71	0.016	1650	0.12	4270	71	0.012	1650
	80C	7985	0.22	4270	55	0.027	1650	0.15	4270	55	0.018	1650	0.11	4270	55	0.013	1650
	90C	9075	0.19	4270	55	0.024	1650	0.13	4270	55	0.016	1650	0.095	4270	55	0.012	1650
	10K	9192	0.19	4270	54	0.024	1650	0.13	4270	54	0.016	1650	0.094	4270	54	0.012	1650
	11K	10536	0.17	4270	54	0.021	1650	0.11	4270	54	0.014	1650	0.082	4270	54	0.010	1650
	12K	11974	0.15	4270	54	0.018	1650	0.10	4270	54	0.012	1650	0.072	4270	54	0.009	1650
	14K	13613	0.13	4270	54	0.016	1650	0.09	4270	54	0.011	1650	0.063	4270	54	0.008	1650

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C0621	8.0	8.2	213	3040	90	11.39	2580	141	3600	90	8.94	2580	104	4040	90	7.44	2580
	11.	11.6	151	3510	89	9.46	2580	100	4120	89	7.36	2580	74	4580	89	6.07	2580
	12.	13.0	135	3670	89	8.83	2580	89	4290	89	6.84	2580	66	4770	89	5.64	2580
	14.	14.6	120	3840	89	8.23	2580	80	4470	89	6.35	2580	59	4920	89	5.18	2580
	16.	15.9	110	4260	82	9.06	2580	73	4960	82	6.99	2580	54	5280	82	5.52	2580
	18.	18.5	95	4200	88	7.17	2580	63	4870	88	5.51	2580	47	5390	88	4.52	2580
	20.	21.0	83	4400	88	6.62	2580	55	5080	88	5.07	2580	41	5610	88	4.15	2580
	22.	22.4	78	4850	81	7.42	2580	52	5360	81	5.44	2580	38	5610	81	4.22	2580
	25.	25.1	70	5060	80	6.99	2580	46	5480	80	5.02	2580	34	5750	80	3.91	2580
	28.	28.2	62	5200	80	6.40	2580	41	5580	80	4.56	2580	31	5890	80	3.57	2580
	32.	33.5	52	5180	87	4.94	2580	35	5920	87	3.74	2580	26	6480	87	3.04	2580
	36.	35.8	49	5490	78	5.46	2580	32	5860	78	3.86	2580	24	6200	78	3.03	2580
	40.	40.6	43	5610	78	4.92	2580	29	6020	78	3.50	2580	21	6360	78	2.74	2580
	45.	47.3	37	5810	86	3.96	2580	25	6570	86	2.97	2580	18	6780	86	2.27	2580
	50.	50.5	35	5930	86	3.79	2580	23	6690	86	2.83	2580	17	6780	86	2.13	2580
	56.	55.7	31	5960	76	3.91	2580	21	6440	76	2.80	2580	15	6780	76	2.19	2580
	63.	64.8	27	6160	75	3.52	2580	18	6660	75	2.52	2580	13	6780	75	1.90	2580
	71.	73.9	24	6370	84	2.85	2580	16	6780	84	2.01	2580	12	6780	84	1.49	2580
	80.	80.9	22	6430	84	2.63	2580	14	6780	84	1.84	2580	11	6780	84	1.36	2580
	90.	91.6	19	6880	74	2.82	2580	13	6780	74	1.84	2580	9.4	6780	74	1.37	2580
	100	97.8	18	6970	73	2.71	2580	12	6780	73	1.75	2580	8.8	6780	73	1.30	2580
	112	110.6	16	6660	83	2.01	2580	10	6320	83	1.27	2580	7.8	6440	83	0.96	2580
	125	124.0	14	4270	82	1.17	2580	9.4	4660	82	0.84	2580	6.9	4610	82	0.62	2580
	140	143.1	12	6780	71	1.85	2580	8.1	6780	71	1.23	2580	6.0	6780	71	0.91	2580
	160	156.7	11	6780	71	1.69	2580	7.4	6780	71	1.12	2580	5.5	6780	71	0.83	2580
	212	214.0	8.2	6780	69	1.27	2580	5.4	6780	69	0.85	2580	4.0	6780	69	0.63	2580
	250	240.0	7.3	6780	69	1.14	2580	4.8	6780	69	0.75	2580	3.6	6780	69	0.56	2580
C0631	100	103.9	17	6780	82	2.21	2580	11	6780	82	1.46	2580	8.3	6780	82	1.09	2580
	118	118.0	15	6780	82	1.95	2580	10	6780	82	1.29	2580	7.3	6780	82	0.96	2580
	132	130.0	13	6780	71	2.04	2580	8.9	6780	71	1.35	2580	6.6	6780	71	1.00	2580
	150	147.7	12	6780	70	1.82	2580	7.9	6780	70	1.21	2580	5.8	6780	70	0.89	2580
	160	169.8	10	6780	81	1.37	2580	6.8	6780	81	0.91	2580	5.1	6780	81	0.67	2580
	180	184.6	9.5	6780	81	1.26	2580	6.3	6780	81	0.83	2580	4.7	6780	81	0.62	2580
	200	201.0	8.7	6780	69	1.36	2580	5.8	6780	69	0.90	2580	4.3	6780	69	0.67	2580
	225	228.4	7.7	6780	68	1.21	2580	5.1	6780	68	0.80	2580	3.8	6780	68	0.60	2580
	265	266.0	6.6	6780	80	0.88	2580	4.4	6780	80	0.59	2580	3.2	6780	80	0.43	2580
	280	299.7	5.8	6780	79	0.80	2580	3.9	6780	79	0.53	2580	2.9	6780	79	0.39	2580
	315	328.7	5.3	6780	67	0.85	2580	3.5	6780	67	0.57	2580	2.6	6780	67	0.42	2580
	360	357.3	4.9	6780	66	0.80	2580	3.2	6780	66	0.53	2580	2.4	6780	66	0.39	2580
	400	395.4	4.4	6780	79	0.60	2580	2.9	6780	79	0.40	2580	2.2	6780	79	0.30	2580
	450	449.5	3.9	6780	78	0.54	2580	2.6	6780	78	0.36	2580	1.9	6780	78	0.26	2580
	500	514.8	3.4	6780	65	0.56	2580	2.3	6780	65	0.37	2580	1.7	6780	65	0.28	2580
	560	580.0	3.0	6780	64	0.51	2580	2.0	6780	64	0.34	2580	1.5	6780	64	0.25	2580
	800	765.3	2.3	6780	64	0.38	2580	1.5	6780	64	0.25	2580	1.1	6780	64	0.19	2580
	900	870.0	2.0	6780	63	0.34	2580	1.3	6780	63	0.23	2580	1.0	6780	63	0.17	2580
C0641	10C	1022	1.71	6780	77	0.24	2580	1.1	6780	77	0.16	2580	0.84	6780	77	0.12	2580
	11C	1111	1.58	6780	77	0.22	2580	1.0	6780	77	0.15	2580	0.77	6780	77	0.11	2580
	12C	1300	1.35	6780	77	0.19	2580	0.89	6780	77	0.12	2580	0.66	6780	77	0.092	2580
	14C	1495	1.17	6780	77	0.16	2580	0.78	6780	77	0.11	2580	0.58	6780	77	0.080	2580
	16C	1625	1.08	6780	77	0.15	2580	0.71	6780	77	0.10	2580	0.53	6780	77	0.074	2580
	18C	1780	0.98	6780	76	0.14	2580	0.65	6780	76	0.09	2580	0.48	6780	76	0.068	2580
	20C	1951	0.90	6780	77	0.13	2580	0.59	6780	77	0.08	2580	0.44	6780	77	0.062	2580
	22C	2342	0.75	6780	77	0.10	2580	0.50	6780	77	0.07	2580	0.37	6780	77	0.051	2580
	25C	2638	0.66	6780	77	0.093	2580	0.44	6780	77	0.06	2580	0.33	6780	77	0.046	2580
	28C	2889	0.61	6780	76	0.086	2580	0.40	6780	76	0.06	2580	0.30	6780	76	0.042	2580
	32C	3067	0.57	6780	77	0.080	2580	0.38	6780	77	0.05	2580	0.28	6780	77	0.039	2580
	36C	3359	0.52	6780	76	0.074	2580	0.35	6780	76	0.05	2580	0.26	6780	76	0.036	2580
	40C	3812	0.46	6780	76	0.065	2580	0.30	6780	76	0.04	2580	0.23	6780	76	0.032	2580
	45C	4334	0.40	6780	76	0.057	2580	0.27	6780	76	0.04	2580	0.20	6780	76	0.028	2580
	50C	5145	0.34	6780	76	0.048	2580	0.23	6780	76	0.03	2580	0.17	6780	76	0.024	2580
	56C	5920	0.30	6780	76	0.042	2580	0.20	6780	76	0.03	2580	0.15	6780	76	0.021	2580
	63C	6639	0.26	6780	76	0.037	2580	0.17	6780	76	0.02	2580	0.13	6780	76	0.018	2580
	71C	7378	0.24	6780	58	0.044	2580	0.16	6780	58	0.03	2580	0.12	6780	58	0.022	2580
	80C	8388	0.21	6780	58	0.039	2580	0.14	6780	58	0.03	2580	0.10	6780	58	0.019	2580
	90C	8879	0.20	6780	57	0.037	2580	0.13	6780	57	0.02	2580	0.10	6780	57	0.018	2580
	10K	10078	0.17	6780	57	0.033	2580	0.12	6780	57	0.02	2580	0.085	6780	57	0.016	2580
	11K	11458	0.15	6780	57	0.029	2580	0.10	6780	57	0.02	2580	0.075	6780	57	0.014	2580
	12K	12849	0.14	6780	56	0.026	2580	0.090	6780	56	0.02	2580	0.067	6780	56	0.013	2580

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			<i>n1</i> = 1750					<i>n1</i> = 1160					<i>n1</i> = 860				
	<i>in</i>	<i>i</i>	<i>n2</i>	<i>M2</i>	<i>η</i> (%)	<i>Pm</i>	<i>Fra</i>	<i>n2</i>	<i>M2</i>	<i>η</i> (%)	<i>Pm</i>	<i>Fra</i>	<i>n2</i>	<i>M2</i>	<i>η</i> (%)	<i>Pm</i>	<i>Fra</i>
C0721	8.0	7.901	221	5420	92	20.70	4650	147	5430	92	13.75	6050	109	5460	92	10.25	6050
	11.	10.94	160	6020	92	16.61	4970	106	7500	92	13.72	6050	79	7080	92	9.60	6050
	12.	12.29	142	6310	92	15.50	5110	94	8250	92	13.43	6050	70	7400	92	8.93	6050
	14.	13.52	129	6550	92	14.62	5265	86	8530	92	12.62	6050	64	7660	92	8.40	6050
	16.	15.80	111	6020	88	12.02	5740	73	7250	88	9.60	6050	54	6730	88	6.60	6050
	18.	17.66	99	7260	91	12.54	6050	66	9380	91	10.74	6050	49	8430	91	7.16	6050
	20.	20.07	87	7620	91	11.58	6050	58	9740	91	9.82	6050	43	8820	91	6.59	6050
	22.	21.89	80	6580	88	9.48	6050	53	7750	88	7.40	6050	39	7290	88	5.16	6050
	25.	24.59	71	6760	87	8.77	6050	47	7970	87	6.86	6050	35	7490	87	4.78	6050
	28.	27.03	65	6950	87	8.21	6050	43	8130	87	6.36	6050	32	7650	87	4.44	6050
	32.	30.81	57	6880	90	6.89	6050	38	11200	90	7.43	6050	28	10200	90	5.02	6050
	36.	35.31	50	7410	86	6.78	6050	33	8530	86	5.17	6050	24	8070	86	3.63	6050
	40.	40.15	44	7620	86	6.13	6050	29	8730	86	4.65	6050	21	8280	86	3.27	6050
	45.	44.13	40	7280	89	5.15	6050	26	11800	89	5.53	6050	19	11400	89	3.96	6050
	50.	49.90	35	7350	88	4.65	6050	23	7250	88	3.04	6050	17	6690	88	2.08	6050
	56.	53.62	33	8090	85	4.93	6050	22	6820	85	2.75	6050	16	6440	85	1.93	6050
	63.	61.62	28	8300	84	4.45	6050	19	7050	84	2.51	6050	14	6660	84	1.76	6050
	71.	69.00	25	7750	87	3.58	6050	17	7760	87	2.38	6050	12	7400	87	1.68	6050
	80.	75.56	23	7820	87	3.30	6050	15	7740	87	2.17	6050	11	7560	87	1.57	6050
	90.	88.26	20	8840	83	3.35	6050	13	7820	83	1.96	6050	10	7430	83	1.38	6050
	100	99.79	18	9010	82	3.06	6050	12	7970	82	1.79	6050	8.6	7530	82	1.26	6050
	112	104.3	17	8110	86	2.51	6050	11	6440	86	1.32	6050	8.2	6320	86	0.96	6050
	125	115.9	15	8080	85	2.28	6050	10	4610	85	0.86	6050	7.4	4660	85	0.65	6050
	140	138.0	13	9550	81	2.37	6050	8.4	8570	81	1.41	6050	6.2	8090	81	0.99	6050
	160	151.1	12	9720	81	2.21	6050	7.7	8570	81	1.29	6050	5.7	8230	81	0.92	6050
212	208.6	8.4	10300	79	1.74	6050	5.6	8570	79	0.96	6050	4.1	8570	79	0.71	6050	
250	231.8	7.5	10500	79	1.59	6050	5.0	7490	79	0.75	6050	3.7	7490	79	0.56	6050	
C0731	100	97.33	18	11860	86	3.93	6050	12	11860	86	2.61	6050	8.8	11860	86	1.93	6050
	118	113.2	15	11860	85	3.42	6050	10	11860	85	2.27	6050	7.6	11860	85	1.68	6050
	132	125.0	14	9370	80	2.60	6050	9.3	9370	80	1.72	6050	6.9	9370	80	1.28	6050
	150	141.7	12	9600	79	2.38	6050	8.2	9600	79	1.58	6050	6.1	9600	79	1.17	6050
	160	160.0	11	11860	84	2.45	6050	7.3	11860	84	1.62	6050	5.4	11860	84	1.20	6050
	180	170.8	10	10200	84	1.97	6050	6.8	10200	84	1.31	6050	5.0	10200	84	0.97	6050
	200	194.7	9.0	10400	79	1.88	6050	6.0	10400	79	1.24	6050	4.4	10400	79	0.92	6050
	225	226.4	7.7	11860	79	1.84	6050	5.1	11860	79	1.22	6050	3.8	11860	79	0.90	6050
	265	249.9	7.0	11860	83	1.59	6050	4.6	11860	83	1.05	6050	3.4	11860	83	0.78	6050
	280	273.7	6.4	11860	83	1.45	6050	4.2	11860	83	0.96	6050	3.1	11860	83	0.71	6050
	315	320.0	5.5	11860	77	1.34	6050	3.6	11860	77	0.89	6050	2.7	11860	77	0.66	6050
	360	341.6	5.1	11860	77	1.25	6050	3.4	11860	77	0.83	6050	2.5	11860	77	0.62	6050
	400	373.8	4.7	11860	82	1.07	6050	3.1	11860	82	0.71	6050	2.3	11860	82	0.53	6050
	450	419.2	4.2	11860	82	0.96	6050	2.8	11860	82	0.64	6050	2.1	11860	82	0.47	6050
	500	499.9	3.5	11200	76	0.82	6050	2.3	11200	76	0.54	6050	1.7	11200	76	0.40	6050
	560	547.4	3.2	11200	76	0.75	6050	2.1	11200	76	0.50	6050	1.6	11200	76	0.37	6050
800	747.7	2.3	11200	75	0.55	6050	1.6	11200	75	0.37	6050	1.2	11200	75	0.27	6050	
900	838.5	2.1	11300	75	0.50	6050	1.4	11300	75	0.33	6050	1.0	11300	75	0.25	6050	
C0741	10C	1009	1.7	11860	81	0.40	6050	1.1	11860	81	0.27	6050	0.85	11860	81	0.20	6050
	11C	1097	1.6	11860	81	0.37	6050	1.1	11860	81	0.25	6050	0.78	11860	81	0.18	6050
	12C	1213	1.4	11860	80	0.34	6050	1.0	11860	80	0.22	6050	0.71	11860	80	0.17	6050
	14C	1396	1.3	11860	80	0.29	6050	0.83	11860	80	0.20	6050	0.62	11860	80	0.14	6050
	16C	1517	1.2	11860	80	0.27	6050	0.76	11860	80	0.18	6050	0.57	11860	80	0.13	6050
	18C	1662	1.1	11860	80	0.25	6050	0.70	11860	80	0.16	6050	0.52	11860	80	0.12	6050
	20C	1995	0.88	11860	80	0.21	6050	0.58	11860	80	0.14	6050	0.43	11860	80	0.10	6050
	22C	2186	0.80	11860	80	0.19	6050	0.53	11860	80	0.12	6050	0.39	11860	80	0.093	6050
	25C	2463	0.71	11860	80	0.17	6050	0.47	11860	80	0.11	6050	0.35	11860	80	0.082	6050
	28C	2863	0.61	11860	80	0.14	6050	0.41	11860	80	0.10	6050	0.30	11860	80	0.071	6050
	32C	3135	0.56	11860	80	0.13	6050	0.37	11860	80	0.087	6050	0.27	11860	80	0.065	6050
	36C	3559	0.49	11860	80	0.12	6050	0.33	11860	80	0.077	6050	0.24	11860	80	0.057	6050
	40C	4046	0.43	11860	80	0.10	6050	0.29	11860	80	0.067	6050	0.21	11860	80	0.050	6050
	45C	4329	0.40	11860	80	0.10	6050	0.27	11860	80	0.063	6050	0.20	11860	80	0.047	6050
	50C	4913	0.36	11860	78	0.086	6050	0.24	11860	78	0.057	6050	0.18	11860	78	0.042	6050
	56C	5585	0.31	11860	78	0.076	6050	0.21	11860	78	0.050	6050	0.15	11860	78	0.037	6050
	63C	6206	0.28	11860	78	0.068	6050	0.19	11860	78	0.045	6050	0.14	11860	78	0.033	6050
	71C	7117	0.25	11860	72	0.064	6050	0.16	11860	72	0.043	6050	0.12	11860	72	0.032	6050
	80C	8091	0.22	11860	72	0.057	6050	0.14	11860	72	0.037	6050	0.11	11860	72	0.028	6050
	90C	8657	0.20	11860	71	0.054	6050	0.13	11860	71	0.036	6050	0.10	11860	71	0.026	6050
10K	9626	0.18	11860	71	0.048	6050	0.12	11860	71	0.032	6050	0.09	11860	71	0.024	6050	
11K	11171	0.16	11860	71	0.042	6050	0.10	11860	71	0.028	6050	0.08	11860	71	0.020	6050	
12K	12412	0.14	11860	71	0.037	6050	0.09	11860	71	0.025	6050	0.07	11860	71	0.018	6050	

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C0821	8.0	7.770	225	9300	92	36.12	7200	149	8640	92	22.25	9100	111	8600	92	16.42	9380
	11.	11.01	159	10800	92	29.61	7300	105	12200	92	22.17	9380	78	12200	92	16.44	9380
	12.	12.24	143	11300	93	27.56	7450	95	13300	93	21.50	9380	70	13500	93	16.18	9380
	14.	13.61	129	11800	92	26.17	7650	85	13800	92	20.29	9380	63	14800	92	16.13	9380
	16.	15.54	113	11400	89	22.89	8000	75	13400	89	17.83	9380	55	14300	89	14.11	9380
	18.	17.60	99	13000	91	22.54	8100	66	15100	91	17.35	9380	49	16200	91	13.80	9380
	20.	19.76	89	13600	92	20.77	9380	59	15800	92	16.00	9380	44	16900	92	12.69	9380
	22.	22.03	79	13120	89	18.58	9380	53	15000	89	14.08	9380	39	15800	89	11.00	9380
	25.	24.47	72	13600	88	17.54	9380	47	15400	88	13.16	9380	35	16200	88	10.27	9380
	28.	27.22	64	14100	88	16.34	9380	43	15700	88	12.06	9380	32	16500	88	9.40	9380
	32.	31.78	55	16200	90	15.73	9380	37	18600	90	11.97	9380	27	19700	90	9.40	9380
	36.	35.20	50	15300	87	13.87	9380	33	16600	87	9.98	9380	24	17300	87	7.71	9380
	40.	39.51	44	15700	87	12.68	9380	29	17000	87	9.10	9380	22	17600	87	6.99	9380
	45.	43.64	40	18000	90	12.73	9380	27	20500	90	9.61	9380	20	21800	90	7.57	9380
	50.	49.26	36	18800	89	11.91	9380	24	21300	89	8.94	9380	17	22500	89	7.00	9380
	56.	54.60	32	16700	86	9.88	9380	21	18000	86	7.06	9380	16	18600	86	5.41	9380
	63.	63.56	28	17200	85	8.84	9380	18	18500	85	6.30	9380	14	19000	85	4.80	9380
	71.	69.64	25	20900	88	9.47	9380	17	23000	88	6.91	9380	12	23000	88	5.12	9380
	80.	76.50	23	21500	88	8.87	9380	15	23000	88	6.29	9380	11	23000	88	4.66	9380
	90.	87.29	20	18200	84	6.89	9380	13	19600	84	4.92	9380	10	20300	84	3.78	9380
	100	98.53	18	18600	83	6.32	9380	12	20000	83	4.50	9380	8.7	20700	83	3.45	9380
	112	102.4	17	23000	87	7.17	9380	11	23000	87	4.75	9380	8.4	23000	87	3.52	9380
	125	117.9	15	21700	86	5.94	9380	10	23000	86	4.18	9380	7.3	23000	86	3.10	9380
	140	139.3	13	19800	82	4.81	9380	8.3	21300	82	3.43	9380	6.2	21900	82	2.62	9380
	160	153.0	11	20100	82	4.45	9380	7.6	21600	82	3.17	9380	5.6	22300	82	2.43	9380
	212	204.8	8.5	21200	81	3.55	9380	5.7	22600	81	2.51	9380	4.2	23000	81	1.89	9380
	250	235.8	7.4	21700	80	3.19	9380	4.9	23000	80	2.24	9380	3.6	23000	80	1.66	9380
C0841	160	156	11	23000	81	5.05	9380	7.4	23000	81	3.35	9380	5.5	23000	81	2.48	9380
	180	177	10	23000	81	4.45	9380	6.6	23000	81	2.95	9380	4.9	23000	81	2.19	9380
	212	220	8.0	23000	81	3.58	9380	5.3	23000	81	2.38	9380	3.9	23000	81	1.76	9380
	250	248	7.1	23000	81	3.18	9380	4.7	23000	81	2.11	9380	3.5	23000	81	1.56	9380
	280	277	6.3	23000	81	2.85	9380	4.2	23000	81	1.89	9380	3.1	23000	81	1.40	9380
	320	312	5.6	23000	81	2.53	9380	3.7	23000	81	1.68	9380	2.8	23000	81	1.24	9380
	360	351	5.0	23000	81	2.25	9380	3.3	23000	81	1.49	9380	2.5	23000	81	1.10	9380
	400	398	4.4	23000	81	1.98	9380	2.9	23000	81	1.31	9380	2.2	23000	81	0.97	9380
	450	450	3.9	23000	81	1.75	9380	2.6	23000	81	1.16	9380	1.9	23000	81	0.86	9380
	500	475	3.7	23000	81	1.66	9380	2.4	23000	81	1.10	9380	1.8	23000	81	0.82	9380
	560	547	3.2	23000	81	1.44	9380	2.1	23000	81	0.96	9380	1.6	23000	81	0.71	9380
	630	636	2.8	23000	81	1.24	9380	1.8	23000	81	0.82	9380	1.4	23000	81	0.61	9380
	710	712	2.5	23000	81	1.11	9380	1.6	23000	81	0.73	9380	1.2	23000	81	0.54	9380
	800	759	2.3	23000	81	1.04	9380	1.5	23000	81	0.69	9380	1.1	23000	81	0.51	9380
	900	899	1.9	23000	81	0.88	9380	1.3	23000	81	0.58	9380	0.96	23000	81	0.43	9380
	10C	960	1.8	23000	81	0.82	9380	1.2	23000	81	0.54	9380	0.90	23000	81	0.40	9380
	11C	1084	1.6	23000	81	0.73	9380	1.1	23000	81	0.48	9380	0.79	23000	81	0.36	9380
	12C	1191	1.5	23000	81	0.66	9380	1.0	23000	81	0.44	9380	0.72	23000	81	0.33	9380
	14C	1405	1.2	23000	81	0.56	9380	0.83	23000	81	0.37	9380	0.61	23000	81	0.28	9380
	16C	1532	1.1	23000	80	0.52	9380	0.76	23000	80	0.35	9380	0.56	23000	80	0.26	9380
	18C	1901	0.92	23000	80	0.42	9380	0.61	23000	80	0.28	9380	0.45	23000	80	0.21	9380
	20C	2068	0.85	23000	79	0.39	9380	0.56	23000	79	0.26	9380	0.42	23000	79	0.19	9380
	22C	2242	0.78	23000	80	0.36	9380	0.52	23000	80	0.24	9380	0.38	23000	80	0.17	9380
	25C	2463	0.71	23000	79	0.33	9380	0.47	23000	79	0.22	9380	0.35	23000	79	0.16	9380
	28C	2697	0.65	23000	79	0.30	9380	0.43	23000	79	0.20	9380	0.32	23000	79	0.15	9380
	32C	3305	0.53	23000	79	0.24	9380	0.35	23000	79	0.16	9380	0.26	23000	79	0.12	9380
	36C	3761	0.47	23000	80	0.21	9380	0.31	23000	80	0.14	9380	0.23	23000	80	0.10	9380
	40C	4131	0.42	23000	79	0.20	9380	0.28	23000	79	0.13	9380	0.21	23000	79	0.096	9380
	45C	4423	0.40	23000	79	0.18	9380	0.26	23000	79	0.12	9380	0.19	23000	79	0.090	9380
	50C	4929	0.36	23000	78	0.17	9380	0.24	23000	78	0.11	9380	0.17	23000	78	0.082	9380
	56C	5528	0.32	23000	78	0.15	9380	0.21	23000	78	0.098	9380	0.16	23000	78	0.073	9380
	63C	6366	0.27	23000	78	0.13	9380	0.18	23000	78	0.085	9380	0.14	23000	78	0.063	9380
	71C	6707	0.26	23000	73	0.13	9380	0.17	23000	73	0.086	9380	0.13	23000	73	0.064	9380
	80C	8262	0.21	23000	73	0.11	9380	0.14	23000	73	0.070	9380	0.10	23000	73	0.052	9380
	90C	8845	0.20	23000	72	0.10	9380	0.13	23000	72	0.066	9380	0.10	23000	72	0.049	9380
	10K	9859	0.18	23000	72	0.090	9380	0.12	23000	72	0.060	9380	0.09	23000	72	0.044	9380
	11K	11057	0.16	23000	72	0.080	9380	0.10	23000	72	0.053	9380	0.08	23000	72	0.039	9380
	12K	12712	0.14	23000	72	0.070	9380	0.09	23000	72	0.046	9380	0.07	23000	72	0.034	9380

SERIES C

RATINGS

Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			<i>n1</i> = 1750					<i>n1</i> = 1160					<i>n1</i> = 860				
	<i>in</i>	<i>i</i>	<i>n2</i>	<i>M2</i>	η (%)	<i>Pm</i>	<i>Fra</i>	<i>n2</i>	<i>M2</i>	η (%)	<i>Pm</i>	<i>Fra</i>	<i>n2</i>	<i>M2</i>	η (%)	<i>Pm</i>	<i>Fra</i>
C0921	8.0	7.973	219	17300	93	64.78	8600	145	20600	93	51.13	10000	108	23300	93	42.88	10800
	11.	10.98	159	19800	93	53.84	9400	106	23500	93	42.36	10000	78	26200	93	35.01	10800
	12.	12.30	142	20800	93	50.49	9400	94	24400	93	39.26	10000	70	27300	93	32.57	10800
	14.	13.81	127	21800	93	47.13	9700	84	25600	93	36.69	10400	62	28600	93	30.39	10800
	16.	16.68	105	21400	89	40.03	10800	70	25000	89	31.00	11100	52	27900	89	25.65	11900
	18.	17.79	98	24100	93	40.45	10400	65	28100	93	31.26	11100	48	31200	93	25.73	11900
	20.	19.88	88	25100	92	38.11	10800	58	29200	92	29.38	11500	43	32500	92	24.25	11500
	22.	22.96	76	24300	89	33.02	11700	51	28100	89	25.31	11900	37	31300	89	20.90	11900
	25.	25.73	68	25400	89	30.80	11900	45	29300	89	23.55	11900	33	32700	89	19.49	11900
	28.	28.89	61	26600	88	29.05	11900	40	30600	88	22.15	11900	30	34000	88	18.25	11900
	32.	31.43	56	29700	91	28.83	11900	37	34300	91	22.07	11900	27	36500	91	17.41	11900
	36.	37.22	47	29200	87	25.04	11900	31	33500	87	19.04	11900	23	37000	87	15.59	11900
	40.	41.59	42	30400	87	23.33	11900	28	34800	87	17.70	11900	21	38300	87	14.44	11900
	45.	44.55	39	33600	90	23.27	11900	26	36700	90	16.85	11900	19	38000	90	12.93	11900
	50.	49.49	35	34800	90	21.69	11900	23	37200	90	15.37	11900	17	38400	90	11.76	11900
	56.	57.66	30	34200	86	19.15	11900	20	38600	86	14.33	11900	15	42100	86	11.58	11900
	63.	65.74	27	35700	86	17.53	11900	18	40200	86	13.09	11900	13	43700	86	10.55	11900
	71.	69.91	25	36900	89	16.47	11900	17	38600	89	11.42	11900	12	39700	89	8.71	11900
	80.	77.18	23	37300	89	15.08	11900	15	38900	89	10.42	11900	11	40100	89	7.97	11900
	90.	93.18	19	39900	84	14.15	11900	12	44300	84	10.42	11900	9.2	47600	84	8.30	11900
	100	103.5	17	42100	84	13.45	11900	11	45500	84	9.63	11900	8.3	48900	84	7.67	11900
	112	106.2	16	38600	88	11.47	11900	11	40100	88	7.90	11900	8.1	41200	88	6.02	11900
	125	119.4	15	39000	87	10.42	11900	10	40500	87	7.18	11900	7.2	41500	87	5.45	11900
	140	146.2	12	45200	82	10.47	11900	7.9	49300	82	7.57	11900	5.9	49400	82	5.62	11900
	160	161.4	11	46400	82	9.73	11900	7.2	49400	82	6.87	11900	5.3	49400	82	5.09	11900
212	222.1	7.9	49400	80	7.72	11900	5.2	49400	80	5.12	11900	3.9	39600	80	3.04	11900	
250	249.7	7.0	49400	80	6.87	11900	4.6	49400	80	4.55	11900	3.4	49400	80	3.37	11900	
C0941	160	160	11	42500	82	8.99	11900	7.3	42500	82	5.96	11900	5.4	42500	82	4.42	11900
	180	177	10	42500	82	8.13	11900	6.6	42500	82	5.39	11900	4.9	42500	82	4.00	11900
	212	225	7.8	42500	82	6.40	11900	5.2	42500	82	4.24	11900	3.8	42500	82	3.14	11900
	250	249	7.0	42500	82	5.78	11900	4.7	42500	82	3.83	11900	3.5	42500	82	2.84	11900
	280	282	6.2	42500	82	5.10	11900	4.1	42500	82	3.38	11900	3.0	42500	82	2.51	11900
	320	314	5.6	42500	82	4.58	11900	3.7	42500	82	3.04	11900	2.7	42500	82	2.25	11900
	360	359	4.9	42500	82	4.01	11900	3.2	42500	82	2.66	11900	2.4	42500	82	1.97	11900
	400	407	4.3	42500	82	3.54	11900	2.9	42500	82	2.34	11900	2.1	42500	82	1.74	11900
	450	452	3.9	42500	82	3.18	11900	2.6	42500	82	2.11	11900	1.9	42500	82	1.56	11900
	500	485	3.6	42500	82	2.97	11900	2.4	42500	82	1.97	11900	1.8	42500	82	1.46	11900
	560	558	3.1	42500	82	2.58	11900	2.1	42500	82	1.71	11900	1.5	42500	82	1.27	11900
	630	649	2.7	42500	82	2.22	11900	1.8	42500	82	1.47	11900	1.3	42500	82	1.09	11900
	710	727	2.4	42500	82	1.98	11900	1.6	42500	82	1.31	11900	1.2	42500	82	0.97	11900
	800	774	2.3	42500	82	1.86	11900	1.5	42500	82	1.23	11900	1.1	42500	82	0.91	11900
	900	918	1.9	42500	82	1.57	11900	1.3	42500	82	1.04	11900	0.94	42500	82	0.77	11900
	10C	980	1.8	42500	82	1.47	11900	1.2	42500	82	0.97	11900	0.88	42500	82	0.72	11900
	11C	1089	1.6	42500	80	1.35	11900	1.1	42500	80	0.90	11900	0.79	42500	80	0.67	11900
	12C	1216	1.4	42500	82	1.18	11900	0.95	42500	82	0.78	11900	0.71	42500	82	0.58	11900
	14C	1434	1.2	42500	82	1.00	11900	0.81	42500	82	0.67	11900	0.60	42500	82	0.49	11900
	16C	1538	1.1	44200	81	0.99	11900	0.75	44200	81	0.65	11900	0.56	44200	81	0.48	11900
	18C	1908	0.92	44200	81	0.79	11900	0.61	44200	81	0.53	11900	0.45	44200	81	0.39	11900
	20C	2107	0.83	44200	81	0.72	11900	0.55	44200	81	0.48	11900	0.41	44200	81	0.35	11900
	22C	2250	0.78	44200	81	0.67	11900	0.52	44200	81	0.45	11900	0.38	44200	81	0.33	11900
	25C	2484	0.70	44200	81	0.61	11900	0.47	44200	81	0.40	11900	0.35	44200	81	0.30	11900
	28C	2720	0.64	44200	81	0.56	11900	0.43	44200	81	0.37	11900	0.32	44200	81	0.27	11900
	32C	3334	0.52	44200	81	0.45	11900	0.35	44200	81	0.30	11900	0.26	44200	81	0.22	11900
	36C	3775	0.46	44200	81	0.40	11900	0.31	44200	81	0.27	11900	0.23	44200	81	0.20	11900
	40C	4167	0.42	44200	81	0.36	11900	0.28	44200	81	0.24	11900	0.21	44200	81	0.18	11900
	45C	4586	0.38	44200	80	0.33	11900	0.25	44200	80	0.22	11900	0.19	44200	80	0.16	11900
	50C	5112	0.34	44200	80	0.30	11900	0.23	44200	80	0.20	11900	0.17	44200	80	0.15	11900
	56C	5733	0.31	44200	80	0.27	11900	0.20	44200	80	0.18	11900	0.15	44200	80	0.13	11900
	63C	6447	0.27	44200	79	0.24	11900	0.18	44200	79	0.16	11900	0.13	44200	79	0.12	11900
71C	7041	0.25	49400	75	0.26	11900	0.16	49400	75	0.17	11900	0.12	49400	75	0.13	11900	
80C	7897	0.22	49400	75	0.23	11900	0.15	49400	75	0.15	11900	0.11	49400	75	0.11	11900	
90C	8718	0.20	49400	75	0.21	11900	0.13	49400	75	0.14	11900	0.10	49400	75	0.10	11900	
10K	9594	0.18	49400	73	0.20	11900	0.12	49400	73	0.13	11900	0.09	49400	73	0.096	11900	
11K	10693	0.16	49400	73	0.18	11900	0.11	49400	73	0.12	11900	0.08	49400	73	0.086	11900	
12K	11993	0.15	49400	73	0.16	11900	0.10	49400	73	0.10	11900	0.07	49400	73	0.077	11900	
14K	13485	0.13	49400	73	0.14	11900	0.09	49400	73	0.092	11900	0.06	49400	73	0.068	11900	

SERIES C

RATINGS

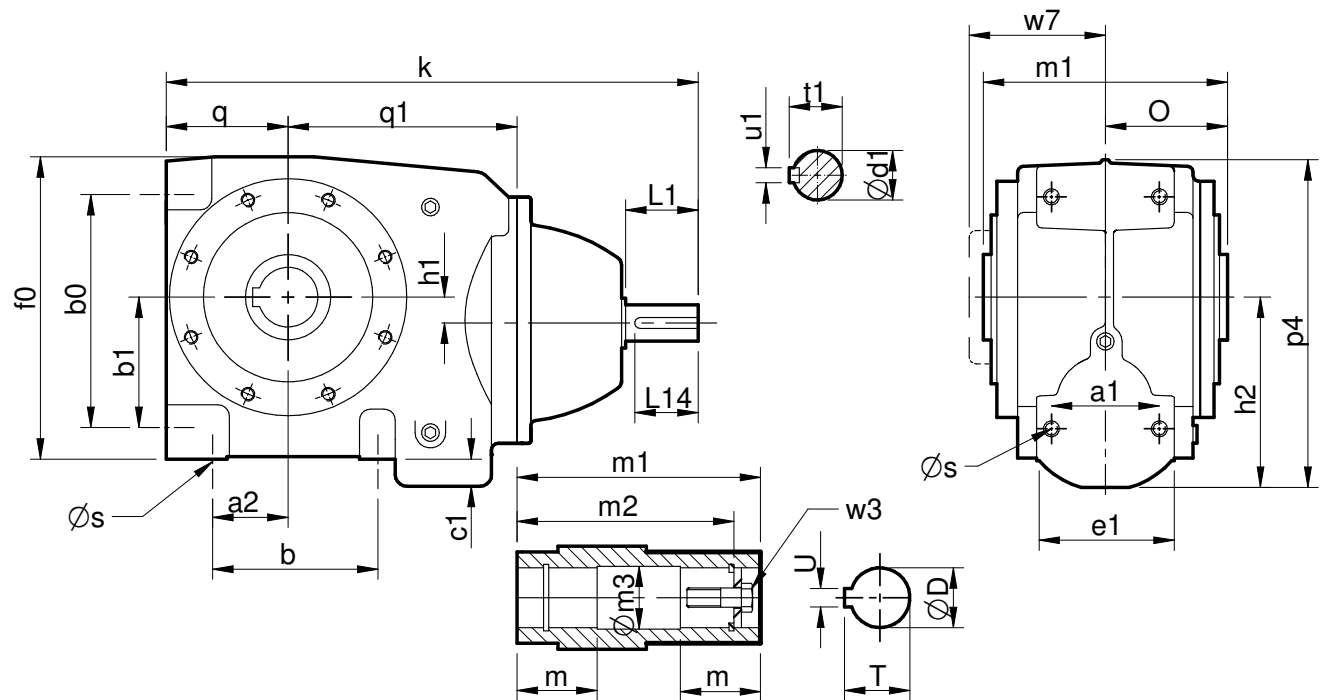
Key: Pm= Input Power (HP) M2= Output Torque (lb.in) i= Exact Ratio n2= Output Speed (rpm) Fra = Overhung load (lb's)

			n1 = 1750					n1 = 1160					n1 = 860				
	in	i	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra	n2	M2	η (%)	Pm	Fra
C1021	8.0	7.951	220	30400	94	112.9	7700	146	34000	94	83.73	10000	108	34000	94	62.07	10500
	11.	11.11	158	35200	94	93.59	9800	104	41200	94	72.61	10300	77	44800	94	58.54	10700
	12.	12.08	145	36500	94	89.25	9900	96	43000	94	69.70	10500	71	46200	94	55.52	11100
	14.	13.72	128	38400	94	82.68	10300	85	45100	94	64.36	10500	63	48500	94	51.32	12000
	16.	16.63	105	38800	91	71.19	11400	70	44800	91	54.49	10900	52	48900	91	44.09	12600
	18.	17.87	98	42700	93	71.34	11100	65	49800	93	55.15	12200	48	53400	93	43.84	12400
	20.	19.29	91	43900	93	67.95	11400	60	51200	93	52.53	11600	45	54900	93	41.76	13000
	22.	23.23	75	44400	90	58.97	12400	50	50600	90	44.55	12000	37	52800	90	34.46	14900
	25.	25.27	69	45800	90	55.92	12600	46	51700	90	41.84	13500	34	53800	90	32.28	15600
	28.	28.70	61	48100	90	51.71	12800	40	53100	90	37.84	13900	30	55200	90	29.16	15800
	32.	31.85	55	53000	92	50.22	12200	36	61500	92	38.63	14300	27	65200	92	30.36	15300
	36.	37.38	47	51400	90	42.42	13700	31	56100	90	30.69	13500	23	58100	90	23.57	16200
	40.	40.36	43	52300	89	40.43	14100	29	56100	89	28.75	15600	21	58900	89	22.37	16600
	45.	43.65	40	59300	91	41.45	13300	27	67700	91	31.37	16000	20	72000	91	24.73	16600
	50.	48.51	36	60100	91	37.80	13500	24	70200	91	29.27	15400	18	73600	91	22.75	17500
	56.	58.85	30	56600	88	30.35	15800	20	60900	88	21.64	16600	15	62700	88	16.52	19600
	63.	66.62	26	57900	88	27.42	16600	17	62100	88	19.50	17200	13	64000	88	14.90	19600
	71.	69.18	25	62800	90	28.01	15300	17	74900	90	22.14	17500	12	76400	90	16.74	19600
	80.	79.71	22	63500	90	24.58	16000	15	76000	90	19.50	18400	11	76700	90	14.59	19600
	90.	91.32	19	61200	86	21.64	16600	13	65700	86	15.40	19600	9.4	68000	86	11.81	19600
	100	101.5	17	62200	86	19.79	17000	11	67000	86	14.13	19600	8.5	69000	86	10.79	19600
	112	107.8	16	71700	89	20.75	17500	11	76700	89	14.71	19600	8.0	76700	89	10.91	19600
	125	115.8	15	68200	89	18.37	18000	10	70300	89	12.55	19600	7.4	69900	89	9.25	19600
	140	144.7	12	68300	85	15.42	19600	8.0	71500	85	10.70	19600	5.9	73700	85	8.18	19600
	160	166.7	10	68100	84	13.50	19600	7.0	73200	84	9.62	19600	5.2	75400	84	7.35	19600
	212	225.5	7.8	71900	83	10.67	19600	5.1	76600	83	7.53	19600	3.8	76700	83	5.59	19600
	250	242.3	7.2	72700	83	10.04	19600	4.8	76700	83	7.02	19600	3.5	76700	83	5.20	19600
C1041	160	160	11	73700	83	15.41	19600	7.3	73700	83	10.21	19600	5.4	73700	83	7.57	19600
	180	177	10	72100	83	13.63	19600	6.6	72100	83	9.03	19600	4.9	72100	83	6.70	19600
	212	225	7.8	73700	83	10.96	19600	5.2	73700	83	7.26	19600	3.8	73700	83	5.39	19600
	250	249	7.0	72100	83	9.69	19600	4.7	72100	83	6.42	19600	3.5	72100	83	4.76	19600
	280	282	6.2	73700	83	8.74	19600	4.1	73700	83	5.80	19600	3.0	73700	83	4.30	19600
	320	314	5.6	72100	83	7.68	19600	3.7	72100	83	5.09	19600	2.7	72100	83	3.77	19600
	360	359	4.9	73700	83	6.87	19600	3.2	73700	83	4.55	19600	2.4	73700	83	3.38	19600
	400	407	4.3	73700	83	6.06	19600	2.9	73700	83	4.02	19600	2.1	73700	83	2.98	19600
	450	452	3.9	72100	83	5.34	19600	2.6	72100	83	3.54	19600	1.9	72100	83	2.62	19600
	500	485	3.6	73700	83	5.08	19600	2.4	73700	83	3.37	19600	1.8	73700	83	2.50	19600
	560	558	3.1	73700	83	4.42	19600	2.1	73700	83	2.93	19600	1.5	73700	83	2.17	19600
	630	649	2.7	73700	83	3.80	19600	1.8	73700	83	2.52	19600	1.3	73700	83	1.87	19600
	710	727	2.4	73700	83	3.39	19600	1.6	73700	83	2.25	19600	1.2	73700	83	1.67	19600
	800	774	2.3	73700	83	3.19	19600	1.5	73700	83	2.11	19600	1.1	73700	83	1.57	19600
	900	918	1.9	73700	83	2.69	19600	1.3	73700	83	1.78	19600	0.94	73700	83	1.32	19600
	10C	980	1.8	73700	83	2.52	19600	1.2	73700	83	1.67	19600	0.88	73700	83	1.24	19600
	11C	1089	1.6	72100	83	2.21	19600	1.1	72100	83	1.47	19600	0.79	72100	83	1.09	19600
	12C	1216	1.4	73700	83	2.03	19600	0.95	73700	83	1.34	19600	0.71	73700	83	1.00	19600
	14C	1434	1.2	73700	83	1.72	19600	0.81	73700	83	1.14	19600	0.60	73700	83	0.84	19600
	16C	1538	1.1	74500	82	1.64	19600	0.75	74500	82	1.09	19600	0.56	74500	82	0.81	19600
	18C	1908	0.92	74500	82	1.32	19600	0.61	74500	82	0.88	19600	0.45	74500	82	0.65	19600
	20C	2107	0.83	74500	82	1.20	19600	0.55	74500	82	0.79	19600	0.41	74500	82	0.59	19600
	22C	2250	0.78	74500	82	1.12	19600	0.52	74500	82	0.74	19600	0.38	74500	82	0.55	19600
	25C	2484	0.70	74700	82	1.02	19600	0.47	74700	82	0.67	19600	0.35	74700	82	0.50	19600
	28C	2720	0.64	74700	82	0.93	19600	0.43	74700	82	0.62	19600	0.32	74700	82	0.46	19600
	32C	3334	0.52	74700	82	0.76	19600	0.35	74700	82	0.50	19600	0.26	74700	82	0.37	19600
	36C	3775	0.46	74700	82	0.67	19600	0.31	74700	82	0.44	19600	0.23	74700	82	0.33	19600
	40C	4167	0.42	74700	82	0.61	19600	0.28	74700	82	0.40	19600	0.21	74700	82	0.30	19600
	45C	4586	0.38	76500	81	0.57	19600	0.25	76500	81	0.38	19600	0.19	76500	81	0.28	19600
	50C	5112	0.34	76500	81	0.51	19600	0.23	76500	81	0.34	19600	0.17	76500	81	0.25	19600
	56C	5733	0.31	76500	81	0.46	19600	0.20	76500	81	0.30	19600	0.15	76500	81	0.22	19600
	63C	6447	0.27	70600	81	0.38	19600	0.18	70600	81	0.25	19600	0.13	70600	81	0.18	19600
	71C	7041	0.25	76700	77	0.39	19600	0.16	76700	77	0.26	19600	0.12	76700	77	0.19	19600
	80C	7897	0.22	76700	77	0.35	19600	0.15	76700	77	0.23	19600	0.11	76700	77	0.17	19600
	90C	8718	0.20	76700	76	0.32	19600	0.13	76700	76	0.21	19600	0.099	76700	76	0.16	19600
	10K	9594	0.18	76700	76	0.29	19600	0.12	76700	76	0.19	19600	0.090	76700	76	0.14	19600
	11K	10693	0.16	76700	76	0.26	19600	0.11	76700	76	0.17	19600	0.080	76700	76	0.13	19600
	12K	11993	0.15	76700	76	0.23	19600	0.097	76700	76	0.15	19600	0.072	76700	76	0.11	19600
	14K	13485	0.13	76700	76	0.21	19600	0.086	76700	76	0.14	19600	0.064	76700	76	0.10	19600

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

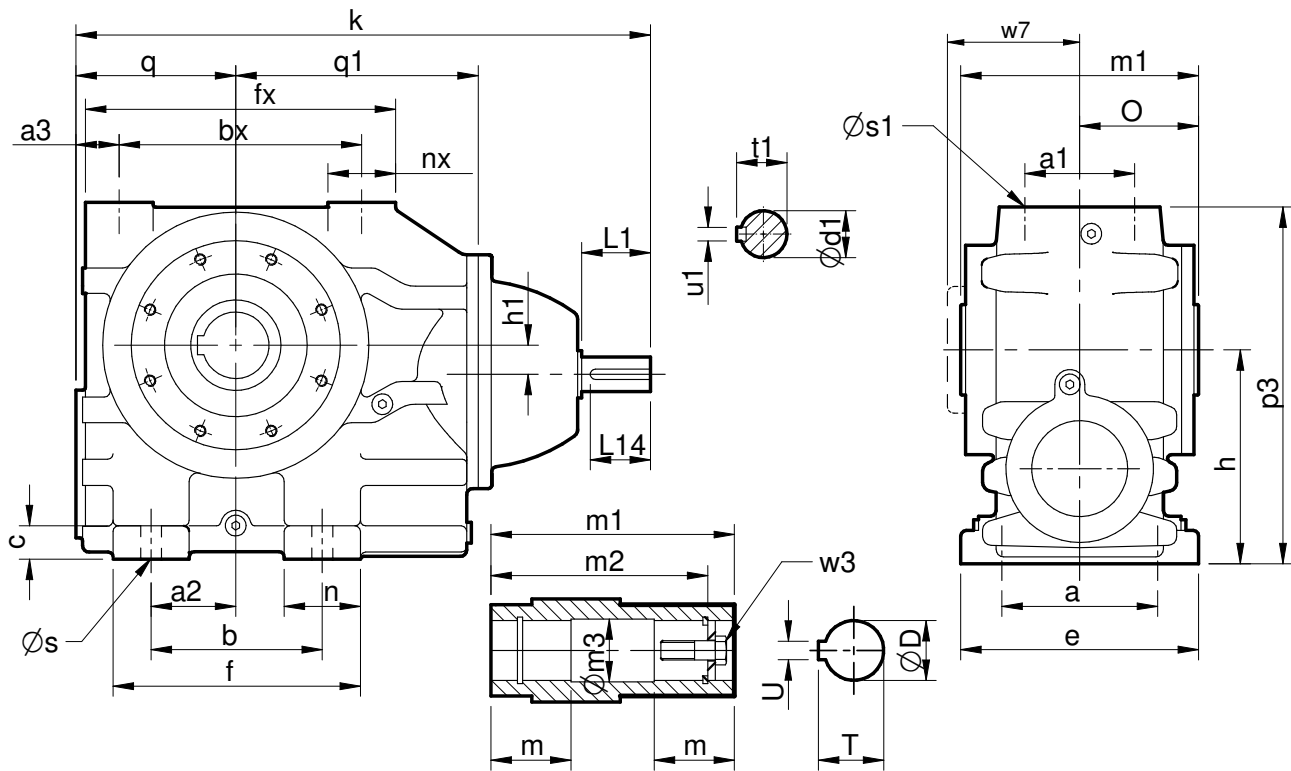
Size	p4	q	q1	s	w7	T2	g6	k
C0321	5.83	2.13	4.29	M8, 0.59 deep	2.76	4.37	5.51	10.79
C0421	6.61	2.52	4.69	M10, 0.79 deep	2.93	4.37	5.51	11.57
C0521	7.87	2.68	5.28	M10, 0.71 deep	3.11	4.37	5.51	12.32
C0621	9.57	3.54	6.65	M12, 0.79 deep	3.98	4.37	7.09	14.57

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

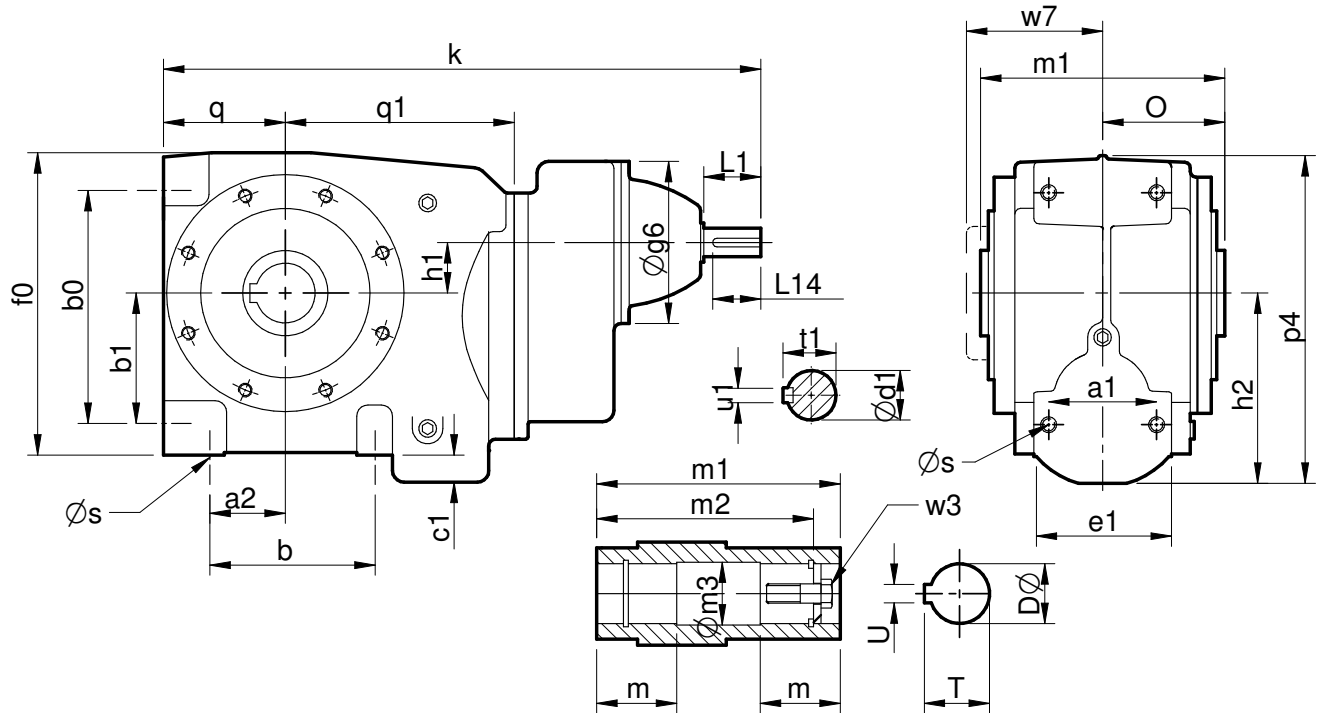
Size	p3	q	q1	s	s1	w7	T2	g6	k
C0721	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.92	4.53	8.35	18.82
C0821	14.76	6.61	10.04	0.87	M20, 1.34 deep	5.63	6.30	9.84	22.95
C0921	17.99	7.68	11.81	1.02	M24, 1.77 deep	6.65	7.68	11.81	27.16
C1021	22.24	9.25	13.98	1.02	M24, 1.77 deep	7.80	9.17	14.17	32.40

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

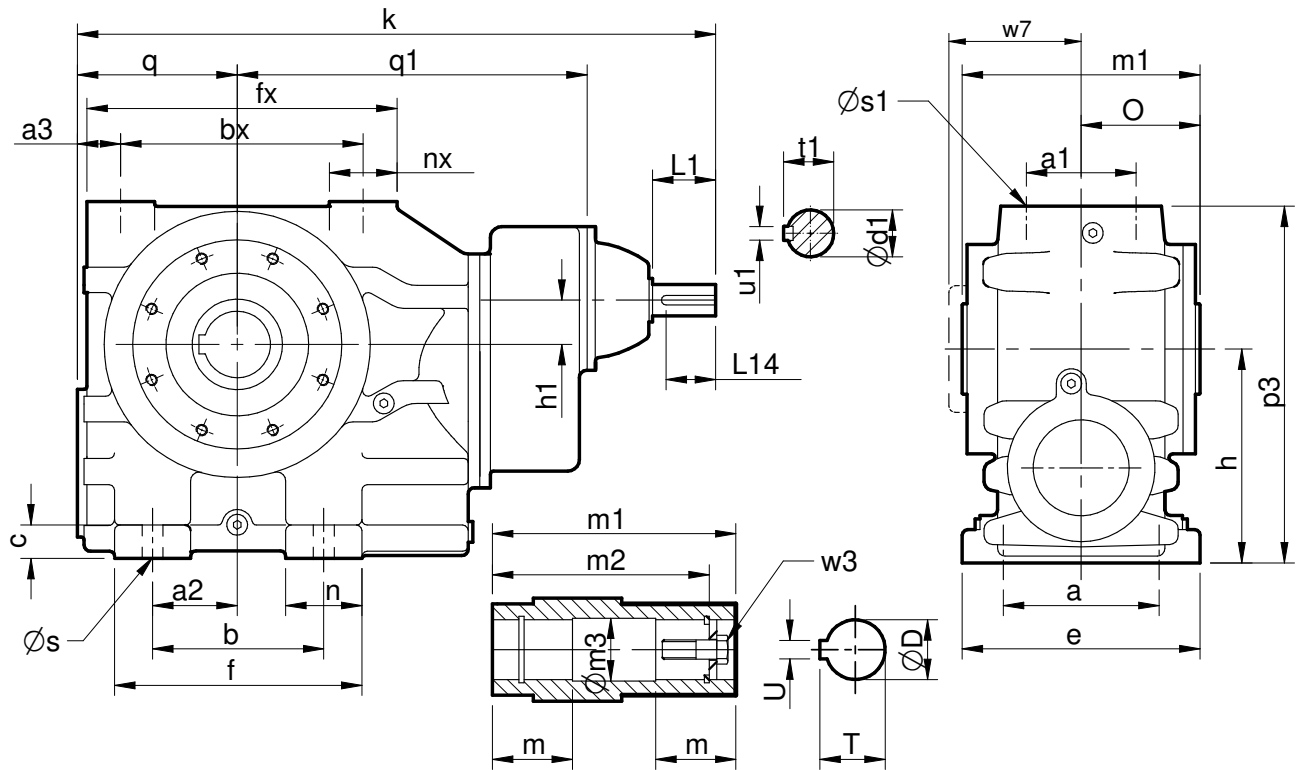
Size	p4	q	q1	s	T2	w7	g6
C0331	5.83	2.13	4.29	M8, 0.59 deep	4.37	2.76	5.51
C0431	6.61	2.52	4.69	M10, 0.79 deep	4.37	2.93	5.51
C0531	7.87	2.68	5.28	M10, 0.71 deep	4.37	3.11	5.51
C0631	9.57	3.54	6.65	M12, 0.79 deep	4.37	3.98	7.09

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

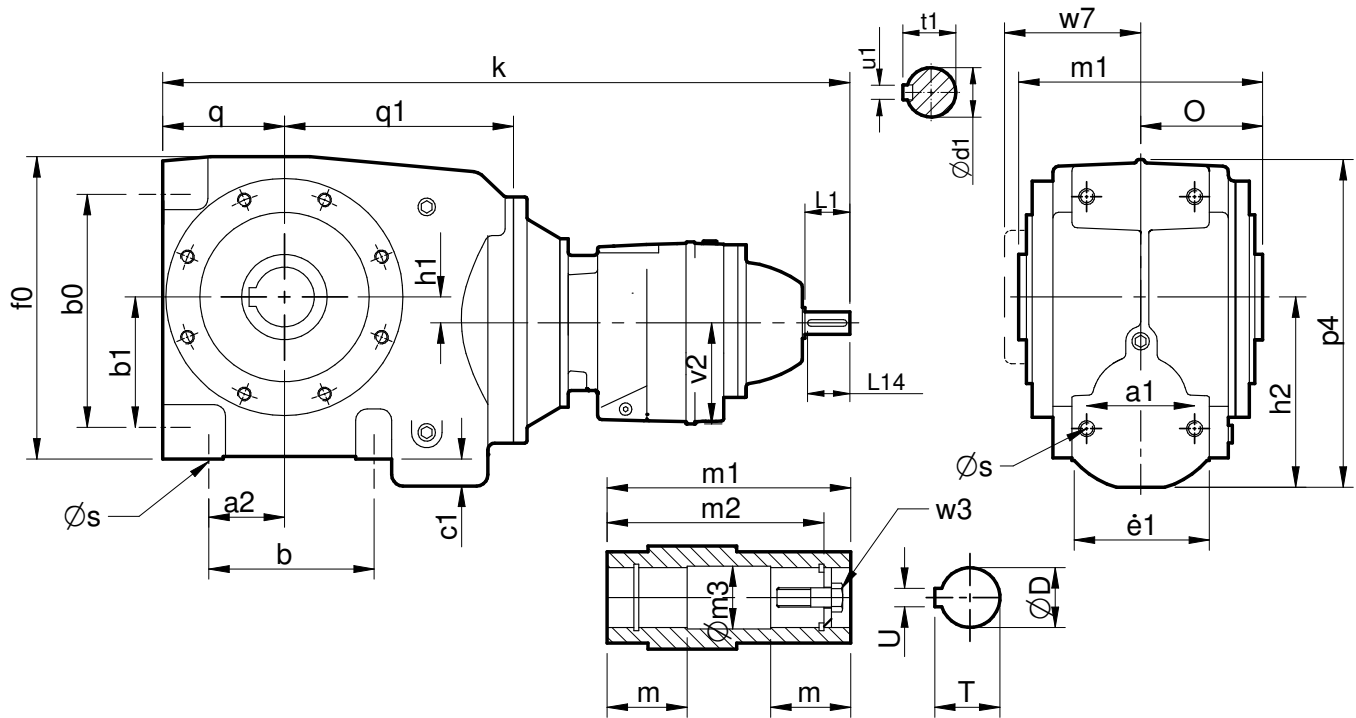
Size	p3	q	q1	s	s1	T2	w7	g6
C0731	11.89	5.63	8.66	0.71	M20, 1.34 deep	4.37	4.92	8.35

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

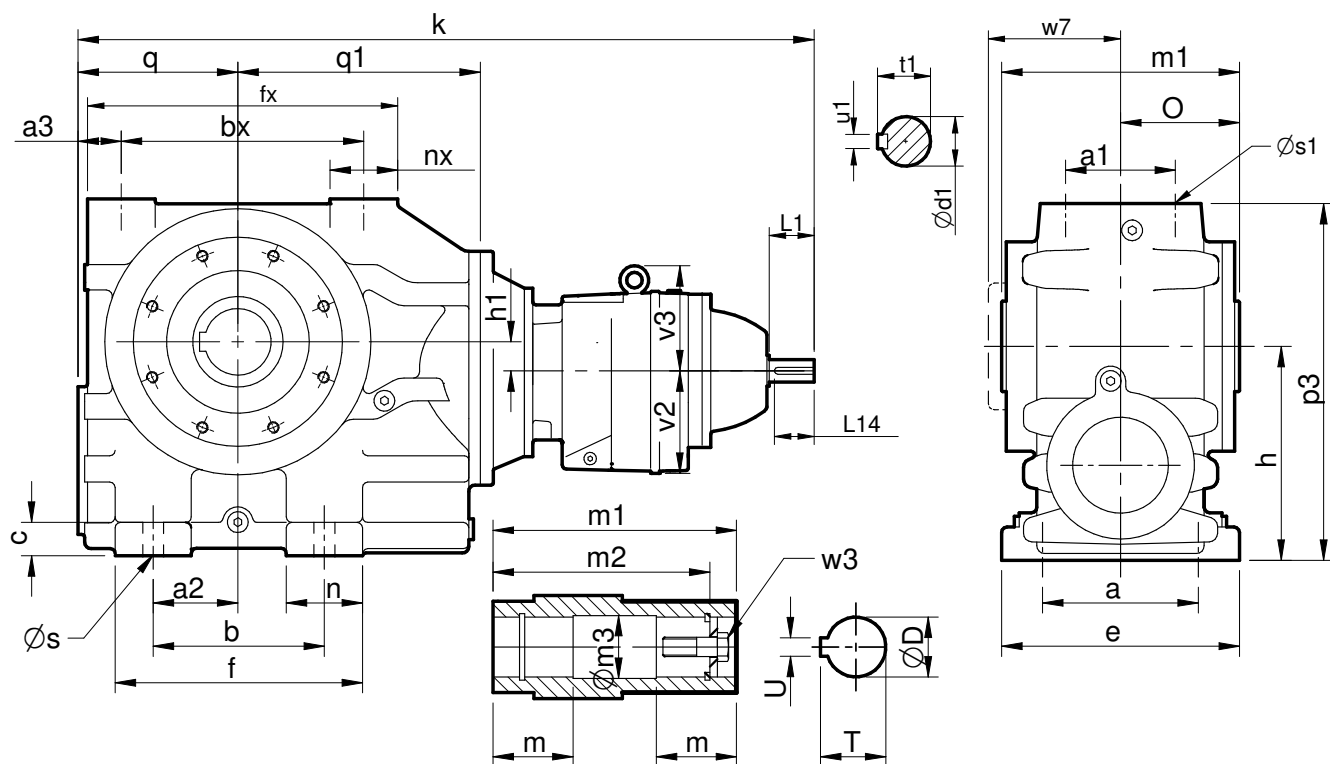
Size	p4	q	q1	s	v2	w7	y	T2	g6	k
C0341	5.83	2.13	4.29	M8, 0.59 deep	2.99	2.76	5.51	4.37	5.51	18.11
C0441	6.61	2.52	4.69	M10, 0.79 deep	2.99	2.93	5.51	4.37	5.51	18.90
C0541	7.87	2.68	5.28	M10, 0.71 deep	2.99	3.11	5.51	4.37	5.51	19.65
C0641	9.57	3.54	6.65	M12, 0.79 deep	3.58	3.98	7.09	4.37	5.51	22.52

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

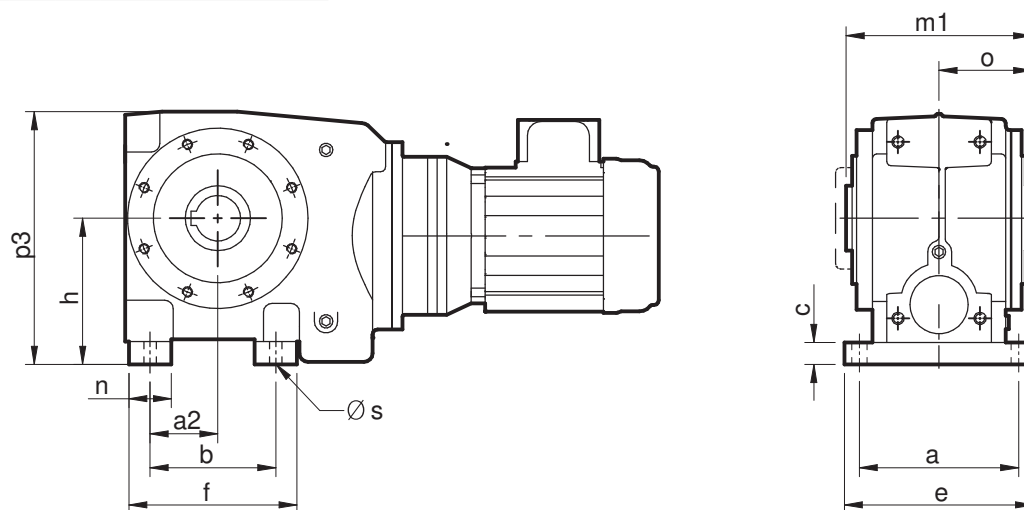
Size	Input Shaft						Hollow Output Bore							
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	w3
C0741	0.625	1.57	1.28	0.70	0.18	1/4" UNF	2.00	3.11	8.58	7.40	2.38	2.23	0.50	5/8" UNF x 3.00
C0841	0.75	1.57	1.28	0.83	0.18	5/8" UNF	2.375	3.54	9.84	8.66	2.78	2.66	0.625	3/4" UNF x 3.00
C0941	0.75	1.57	1.28	0.83	0.18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

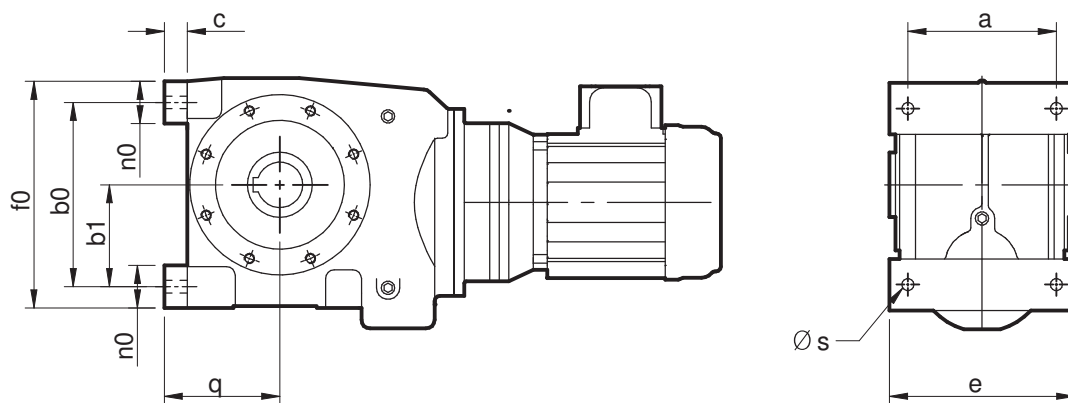
C	0			2			B	R
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STANDARD UNIT WITH BASE MOUNTED FEET



C	0			2			E	R
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STANDARD UNIT WITH END MOUNTED FEET



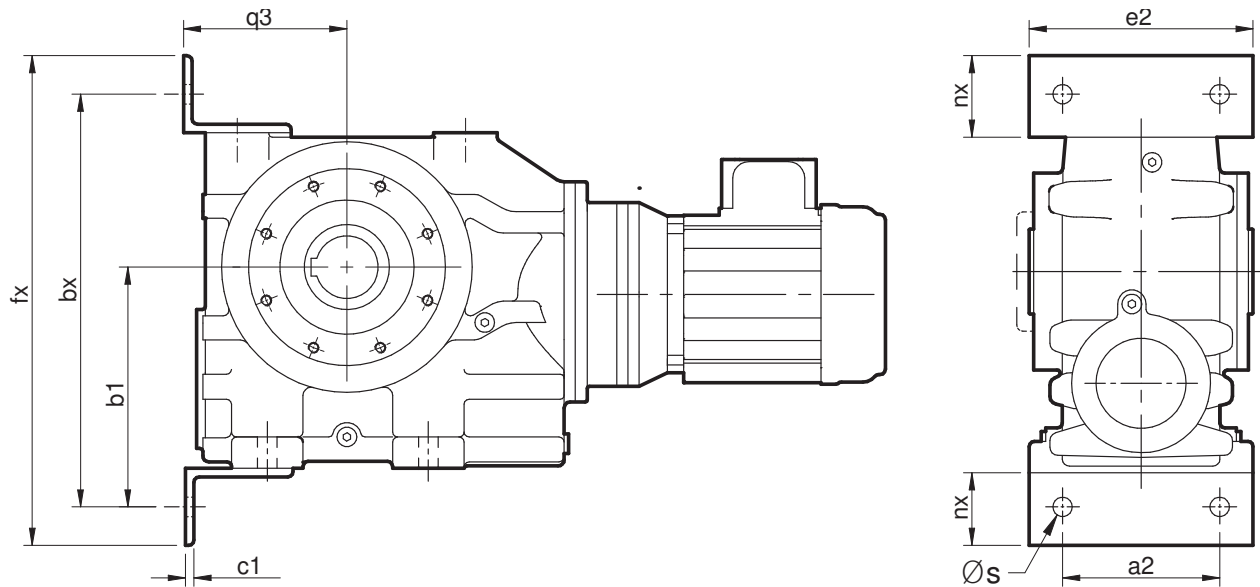
Size	a	b	b0	b1	c	e	f	f0	h	n	n0	p3	q	q2	s
C03	3.54	2.48	3.15	1.57	0.35	4.33	3.46	4.13	3.15	0.98	0.98	5.83	2.48	1.38	0.35
C04	3.93	3.15	4.65	2.56	0.55	4.88	4.53	6.02	3.94	1.38	1.38	6.89	3.07	1.38	0.43
C05	4.33	3.94	5.59	3.03	0.63	5.35	5.51	7.17	4.41	1.57	1.57	7.87	3.31	1.77	0.43
C06	5.12	5.12	7.09	3.94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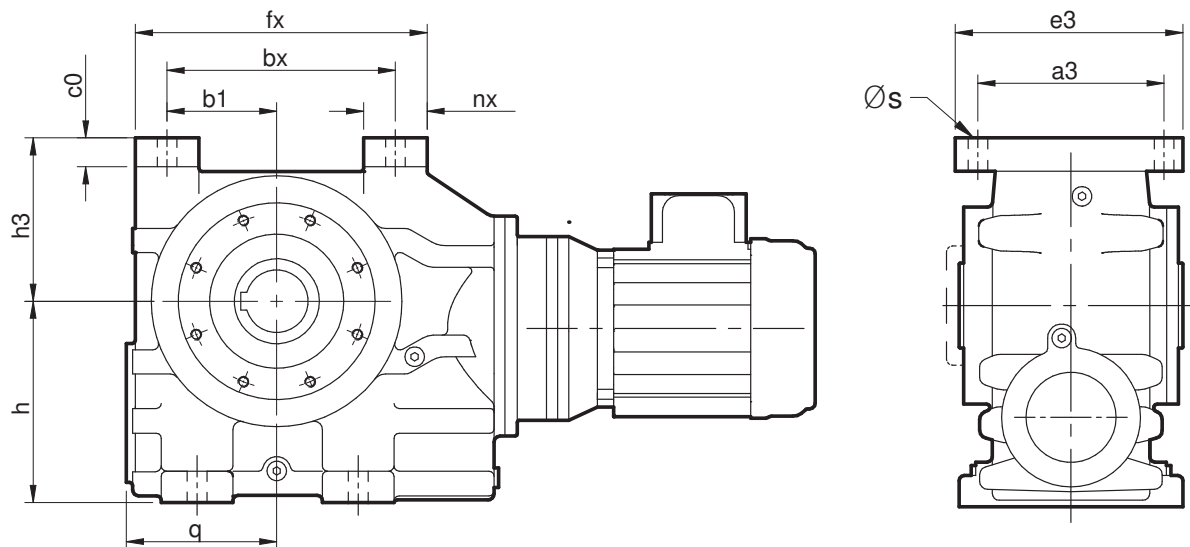
STANDARD UNIT WITH END MOUNTED FEET



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
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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	6.72	10.45	18.24	30.17
	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

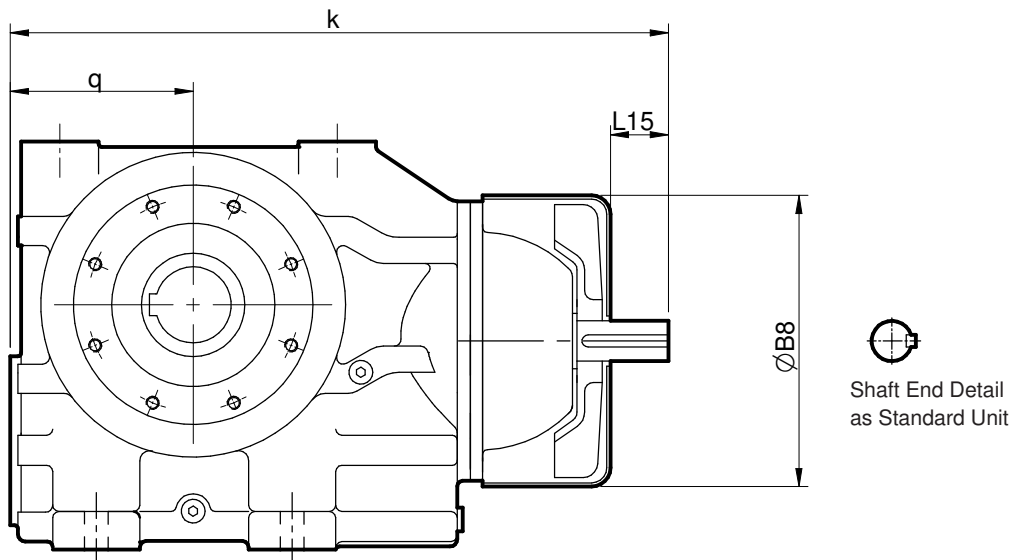
Note: When checking thermal capacities use actual load required to be transmitted, not rating of prime mover.

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

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

Column 10 Entry

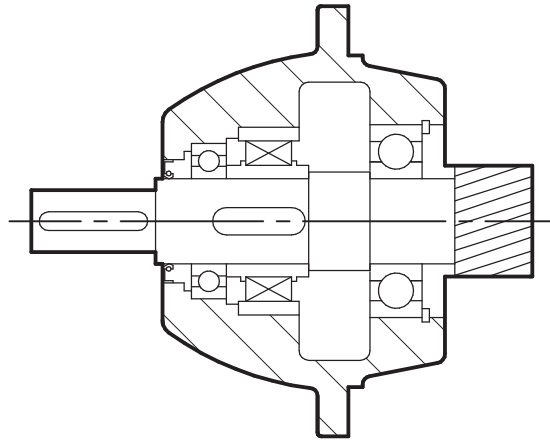
For reducer fan kit modules enter

W
X

 for CCW rotation (or

Z
Y

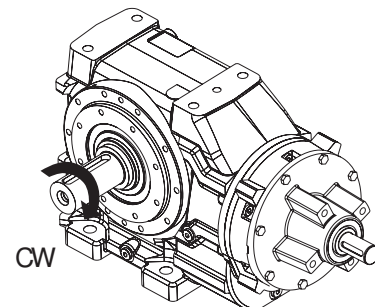
 if used in conjunction with a fan kit)



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

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

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

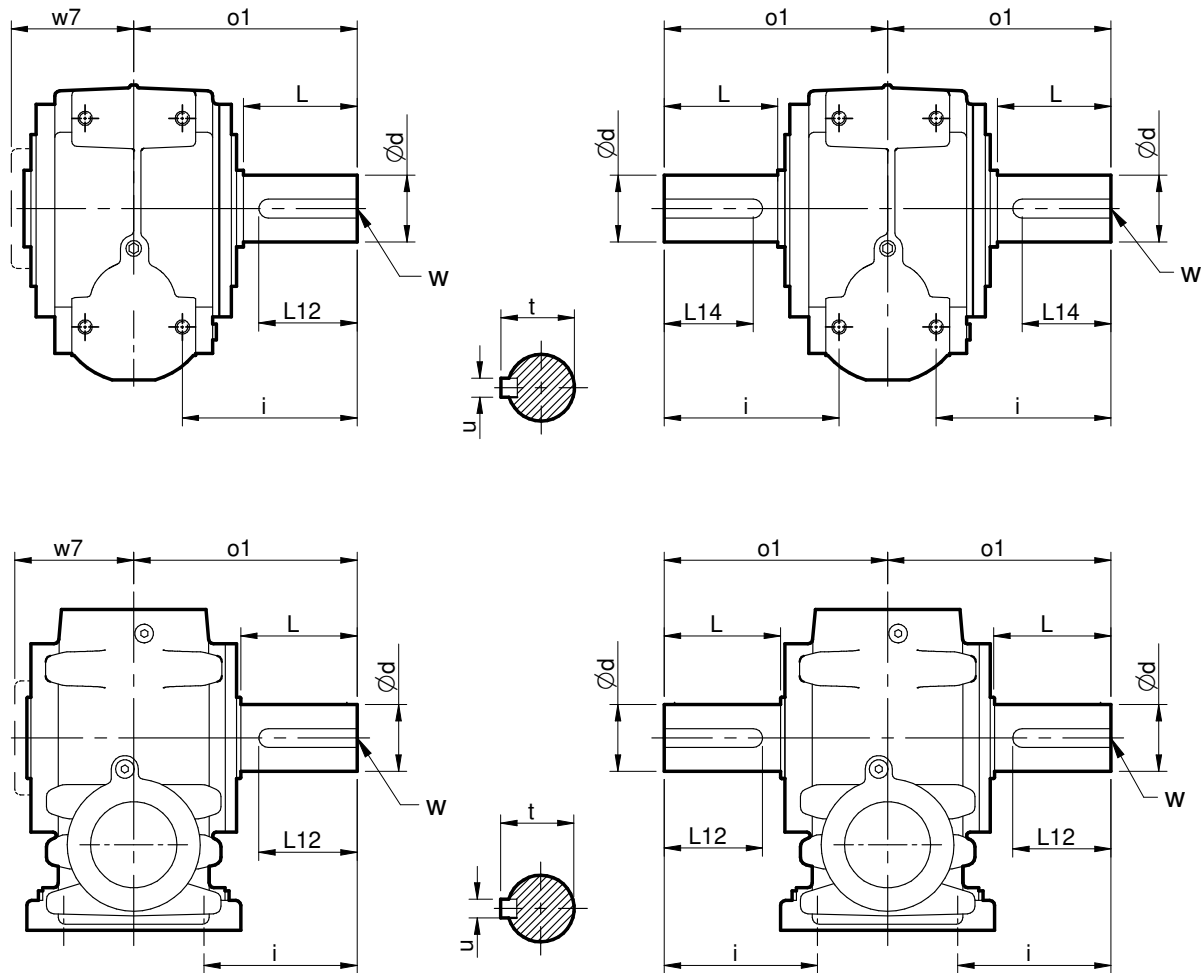


SERIES C

DIMENSIONS

OUTPUTSHAFT OPTIONS

STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION

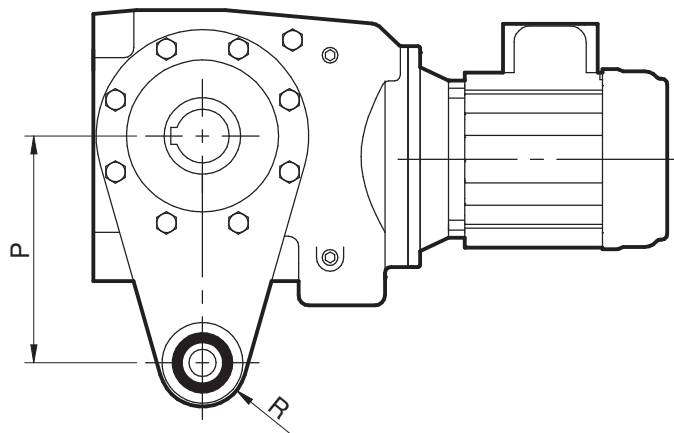


Size	Ød	i	L	L12	o1	t	u	w	w7
C03	0.750/0.749	2.87	1.38	1.28	3.94	0.83	.19	1/4" UNF	2.75
C04	1.000/0.999	3.43	1.81	1.69	4.53	1.10	.25	1/4" UNF	2.95
C05	1.250/1.249	3.94	2.36	2.12	5.27	1.36	.25	3/8" UNF	3.10
C06	1.375/1.374	4.72	2.48	2.34	6.30	1.51	.32	1/2" UNF	4.00
C06 Heavy Duty	1.750/1.749	6.10	3.86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

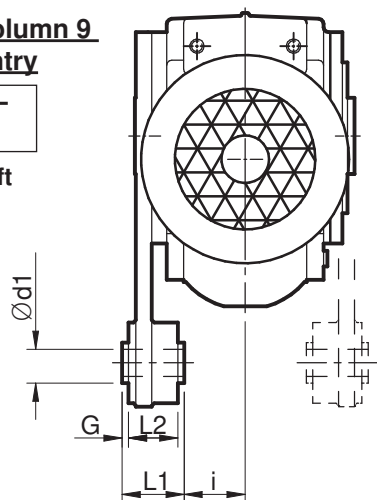
It is recommended that the torque arm is positioned such that the it is fitted on the side of the unit adjacent to the driven machine.



Column 9 Entry

T

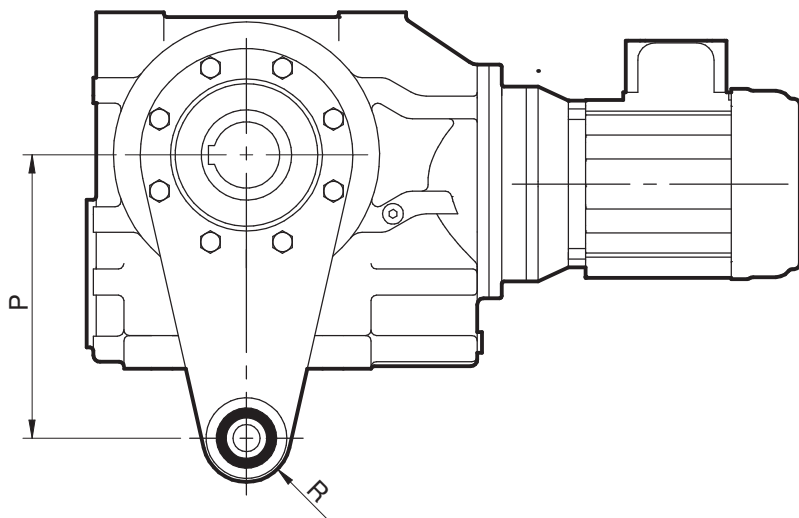
Left



Q

Right

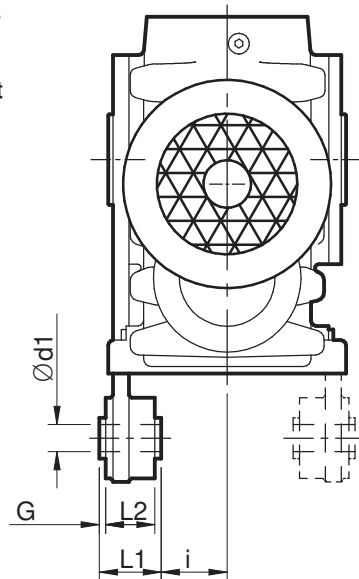
Size	d1	G	i	L1	L2	P	R
C03	0.41	0.08	1.85	1.42	1.26	4.33	0.91
C04	0.41	0.08	2.05	1.42	1.26	5.12	0.91
C05	0.41	0.08	2.05	1.42	1.26	6.30	0.91
C06	0.64	0.08	2.81	1.73	1.26	7.87	1.50



Column 9 Entry

T

Left



Q

Right

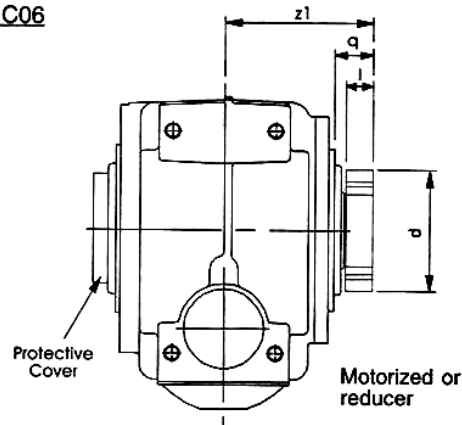
Size	Ød1	G	i	L1	L2	P	R
C07	0.64	0.08	3.05	2.36	2.20	9.84	1.50
C08	0.64	0.08	3.37	2.36	2.20	12.20	1.50
C09	0.98	0.08	3.85	3.15	2.76	14.96	1.79
C10	0.98	0.08	5.39	3.15	2.76	16.93	1.79

SERIES C

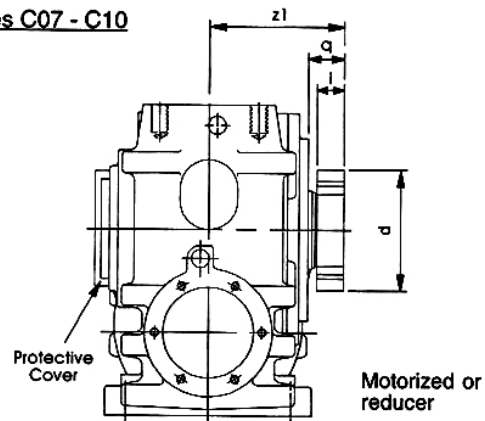
DIMENSIONS

TAPER RELEASE BUSHING

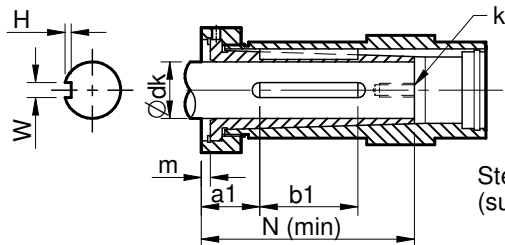
Sizes C05 & C06



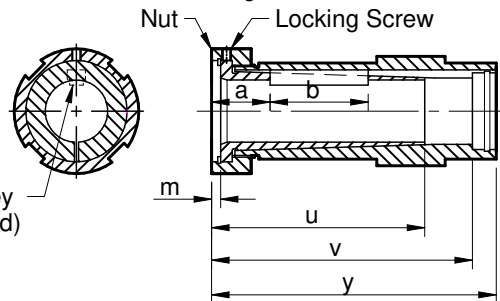
Sizes C07 - C10



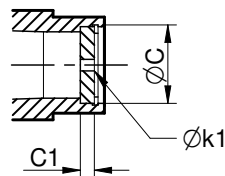
Driven Shaft



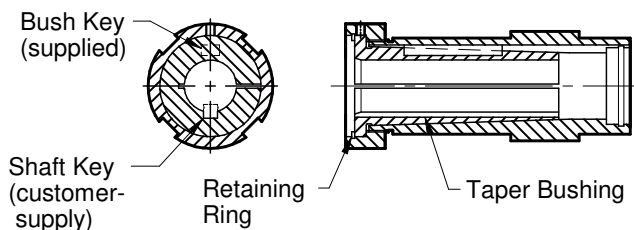
Thin Walled Bushing



End Plate (customer supply)



Thick Walled Bushing



Consult standard unit selection tables for HP and torque ratings

Size	Key		Bush	Hollow Shaft		Nut			Gear Unit	
	a	b	u	v	y	d	l	m	q	z1
C05(107TR)	1.90	2.50	5.00	6.68	7.38	3.31	1.26	0.27	2.17	4.62
C06 (115TR)	2.10	2.75	5.55	8.06	9.08	4.06	1.46	0.30	2.37	5.54
C07 (203TR)	1.55	3.25	5.55	9.32	10.38	4.31	1.46	0.30	1.97	6.08
C08 (207TR)	1.24	4.25	6.11	10.42	11.68	4.81	1.46	0.30	2.03	6.75
C09 (215TR)	2.09	3.50	7.08	12.80	13.81	5.68	1.76	0.38	2.24	7.91
C10 (307TR)	1.59	5.00	7.39	14.44	15.85	6.06	1.76	0.38	2.41	8.96

For other dimensions - Consult Gear Unit Dimension Pages

For HP and Torque Ratings - Consult Gear Unit Selection Tables

All other gear unit dimensions may be obtained from the standard unit dimension pages

SERIES C

DIMENSIONS

TAPER RELEASE BUSHING

Size	Driven Shaft Diameter * (dk)	Type	Driven Shaft Keyway			Driven Shaft			End Plate			Circlip	Bush lb's
			W	H	b1(min)	a1	k	N (min)	C	C1	k1		
C05 (107TR)	1.000/0.996	Thick	1/4"	1/8"	2.75	-	1/2" UNC	5.00	1.64	0.30	5/8" UNC	N1300 - 0162	2.1
	1.125/1.121	Thick	1/4"	1/8"	2.75	-							1.8
	1.188/1.184	Thick	1/4"	1/8"	2.75	-							1.6
	1.250/1.246	Thin	1/4"	1/8"	2.50	1.89							1.5
	1.438/1.434	Thin	3/8"	3/16"	2.50	1.89							1.0
C06 (115TR)	1.188/1.184	Thick	1/4"	1/8"	2.75	-	1/2" UNC	5.55	2.25	0.37	5/8" UNC	N1300-0225	4.3
	1.250/1.246	Thick	1/4"	1/8"	2.75	-							4.1
	1.438/1.434	Thick	3/8"	3/16"	2.50	-							3.5
	1.500/1.496	Thick	3/8"	3/16"	2.50	-							3.3
	1.625/1.620	Thin	3/8"	3/16"	2.75	2.10							2.9
	1.688/1.683	Thin	3/8"	3/16"	2.75	2.10							2.7
	1.750/1.745	Thin	3/8"	3/16"	2.75	2.10							2.4
	1.938/1.933	Thin	1/2"	1/4"	2.75	2.10							1.7
C07 (203TR)	1.438/1.434	Thick	3/8"	3/16"	2.75	-	5/8" UNC	5.55	2.43	0.43	3/4" UNC	N1300-0244	5.0
	1.500/1.496	Thick	3/8"	3/16"	2.75	-							5.1
	1.625/1.620	Thick	3/8"	3/16"	2.75	-							4.6
	1.688/1.683	Thick	3/8"	3/16"	2.75	-							4.4
	1.750/1.745	Thick	3/8"	3/16"	2.75	-							4.1
	1.875/1.870	Thin	1/2"	1/4"	3.25	1.56							3.6
	1.938/1.933	Thin	1/2"	1/4"	3.25	1.56							3.3
	2.000/1.995	Thin	1/2"	1/4"	3.25	1.56							3.0
	2.188/2.183	Thin	1/2"	1/4"	3.25	1.56							2.9
C08 (207TR)	1.375/1.371	Thick	5/16"	5/32"	4.75	-	5/8" UNC	6.11	2.83	0.43	3/4" UNC	N1300-0281	7.6
	1.438/1.434	Thick	3/8"	3/16"	3.25	-							7.3
	1.500/1.496	Thick	3/8"	3/16"	3.25	-							7.1
	1.625/1.620	Thick	3/8"	3/16"	3.25	-							6.7
	1.688/1.683	Thick	3/8"	3/16"	3.25	-							6.4
	1.750/1.745	Thick	3/8"	3/16"	3.25	-							6.1
	1.875/1.870	Thick	1/2"	1/4"	3.25	-							5.6
	1.938/1.933	Thin	1/2"	1/4"	4.25	1.24							5.3
	2.000/1.995	Thin	1/2"	1/4"	4.25	1.24							5.0
	2.188/2.183	Thin	1/2"	1/4"	4.25	1.24							4.4
	2.250/2.245	Thin	1/2"	1/4"	4.25	1.24							3.7
	2.438/2.433	Thin	5/8"	5/16"	4.25	1.24							2.6
C09 (215TR)	1.938/1.933	Thick	1/2"	1/4"	5.25	-	7/8" UNC	7.08	3.33	0.50	1" UNC	N1300-0334	11.4
	2.000/1.995	Thick	1/2"	1/4"	5.25	-							11.1
	2.188/2.183	Thick	1/2"	1/4"	5.25	-							9.9
	2.250/2.245	Thick	1/2"	1/4"	5.25	-							9.5
	2.438/2.433	Thin	5/8"	5/16"	3.50	2.09							8.3
	2.500/2.495	Thin	5/8"	5/16"	3.50	2.09							7.8
	2.688/2.682	Thin	5/8"	5/16"	3.50	2.09							6.5
	2.938/2.932	Thin	3/4"	3/8"	3.50	2.09							4.5
C10 (307TR)	2.000/1.995	Thick	1/2"	1/4"	5.25	-	1" UNC	7.39	3.74	0.56	1-1/8" UNC	N1300-0375	17.8
	2.188/2.183	Thick	1/2"	1/4"	5.25	-							16.6
	2.250/2.245	Thick	1/2"	1/4"	5.25	-							16.2
	2.438/2.433	Thick	5/8"	5/16"	5.25	-							14.9
	2.500/2.495	Thick	5/8"	5/16"	5.25	-							14.4
	2.688/2.682	Thin	5/8"	5/16"	5.00	1.59							13.0
	2.938/2.932	Thin	3/4"	3/8"	5.00	1.59							10.9
	3.000/2.994	Thin	3/4"	3/8"	5.00	1.59							10.3
	3.188/3.182	Thin	3/4"	3/8"	5.00	1.59							8.6
	3.438/3.432	Thin	7/8"	7/16"	5.00	1.59							6.1

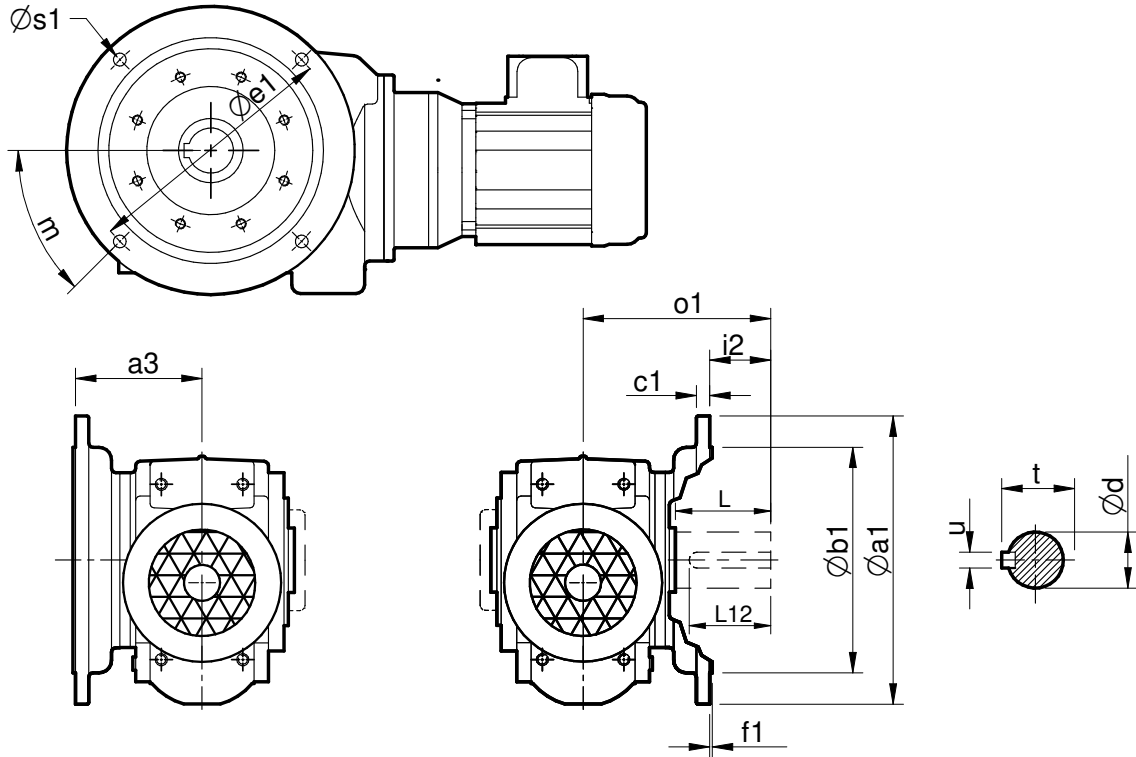
* Check strength of driven shaft

▲ Check strength and length of key (when key not supplied ie thick wall bushing)

SERIES C

DIMENSIONS

D (B5) FLANGE



Column 9 Entry

F B5 (D) Output Flange on Left

Column 9 Entry

H B5 (D) Output Flange on Right

Size	$\phi a1$	$a3$	$\phi b1$	$c1$	$\phi e1$	$f1$	m	$\phi s1$
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

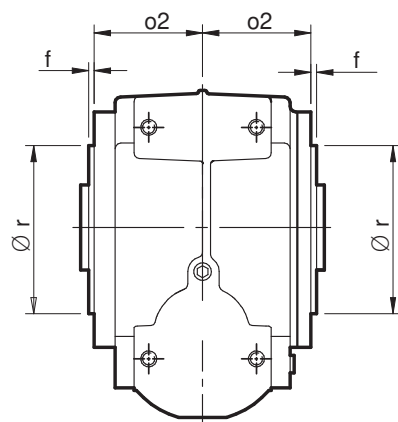
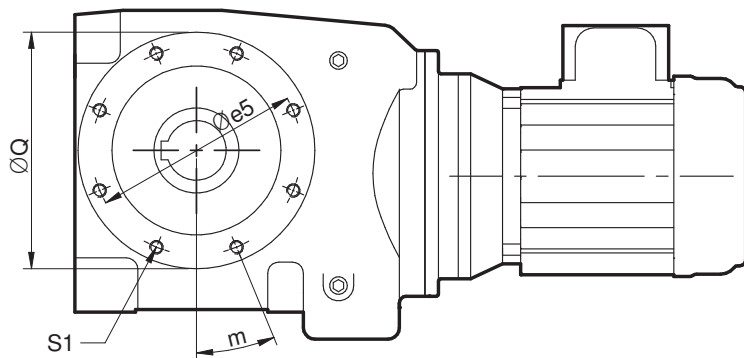
Size	ϕd	$i2$	L	$L12$	o	t	u	v
C03	0.750/0.749	0.98	1.38	1.28	3.94	0.83	0.19	1/4" UNF
C04	1.000/0.999	1.14	1.81	1.69	4.53	1.1	0.25	1/4" UNF
C05	1.250/1.249	1.06	2.36	2.12	5.27	1.36	0.25	3/8" UNF
C06	1.375/1.374	1.57	2.48	2.34	6.30	1.51	0.32	1/2" UNF
C06 Heavy Duty	1.750/1.749	2.95	3.86	3.75	7.68	1.92	0.37	5/8" UNF
C07	1.750/1.749	1.97	2.99	2.62	7.68	1.92	0.37	5/8" UNF
C08	2.375/2.374	3.35	4.72	4.12	10.04	2.64	0.63	3/4" UNF
C09	2.875/2.874	3.74	5.12	4.50	11.61	3.20	0.75	3/4" UNF
C10	3.625/3.624	5.28	6.69	5.87	14.41	4.00	0.87	1" UNF

SERIES C

DIMENSIONS

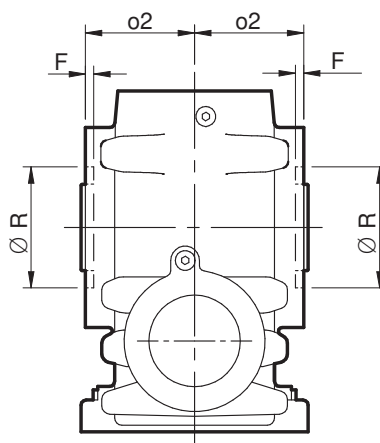
C (B14) FLANGE

C04, C05, C06, C08



C03 - C06

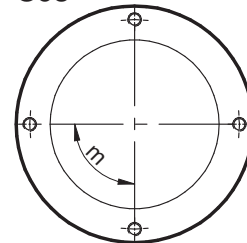
Male spigot



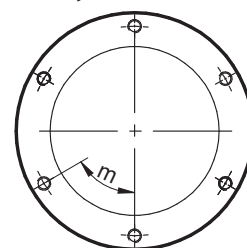
C07 - C10

Female recess

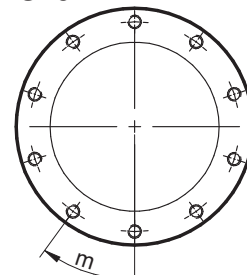
C03



C07, C09



C10



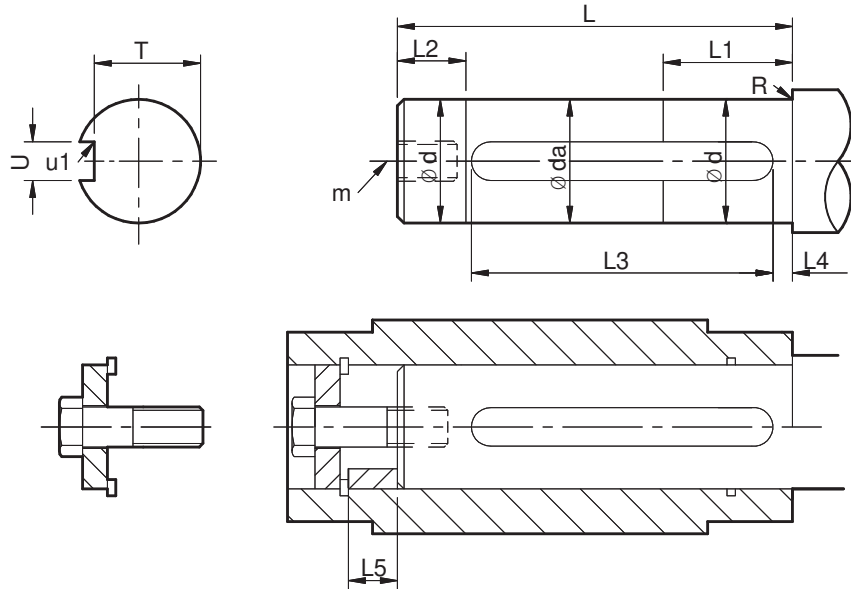
SIZE	øe5	f	F	m	o2	Q	ør (h7)	øR (H7)	S1	F
C03	3.54 pcd	0.16	-	90°	2.24	4.17	2.76	-	4 Holes M8 0.87 Deep	-
C04	4.21 pcd	0.16	-	22.5°	2.24	4.80	3.35	-	8 Holes M8 0.87 Deep	-
C05	5.12 pcd	0.16	-	22.5°	2.44	5.75	4.13	-	8 Holes M8 0.87 Deep	-
C06	6.10 pcd	0.20	-	22.5°	3.19	6.89	4.92	-	8 Holes M8 1.00 Deep	-
C07	5.91 pcd	-	0.18	60°	4.09	7.09	-	5.12	6 Holes M8 0.87 Deep	0.18
C08	7.68 pcd	-	0.20	22.5°	4.72	8.66	-	5.91	8 Holes M8 0.87 Deep	0.20
C09	9.06 pcd	-	0.20	60°	5.67	11.02	-	7.09	6 Holes M8 1.00 Deep	0.20
C10	11.02 pcd	-	0.28	36°	6.57	14.17	-	8.27	10 Holes M8 1.00 Deep	0.28

SERIES C

DIMENSIONS

STANDARD BORE ASSEMBLY

ASSEMBLY ONTO SHAFT - CUSTOMERS SHAFT DETAIL



Size	d	da	L	L1	L2	L3	L4	L5	m	N	R	T	u	u1
C03	0.7497 0.7492	0.73	3.73	1.18	0.40	2.75	0.13	0.87	1/4 UNF	70lb.in	0.03R	0.644 0.638	0.188 0.187	0.03R
C04	1.2486 1.2480	1.23	3.90	1.77	0.60	3.13	0.13	1.02	3/8 UNF	130lb.in	0.03R	1.11 1.10	0.250 0.249	0.03R
C05	1.3746 1.3740	1.36	4.09	2.09	0.71	3.50	0.13	0.91	1/2 UNF	170lb.in	0.03R	1.20 1.19	0.312 0.311	0.03R
C06	1.4996 1.4990	1.48	4.92	2.68	0.91	4.00	0.13	1.22	5/8 UNF	400lb.in	0.03R	1.29 1.28	0.375 0.374	0.03R
C07	2.0000 1.9968	1.98	6.02	3.53	1.18	5.63	0.13	1.50	5/8 UNF	400lb.in	0.05R	1.72 1.71	0.500 0.499	0.05R
C08	2.3750 2.3741	2.35	7.20	4.13	1.38	6.88	0.13	1.46	3/4 UNF	750lb.in	0.05R	2.02 2.01	0.625 0.624	0.05R
C09	2.7500 2.7491	2.73	8.94	5.31	1.77	8.63	0.13	1.28	3/4 UNF	750lb.in	0.05R	2.40 2.39	0.625 0.624	0.05R
C10	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

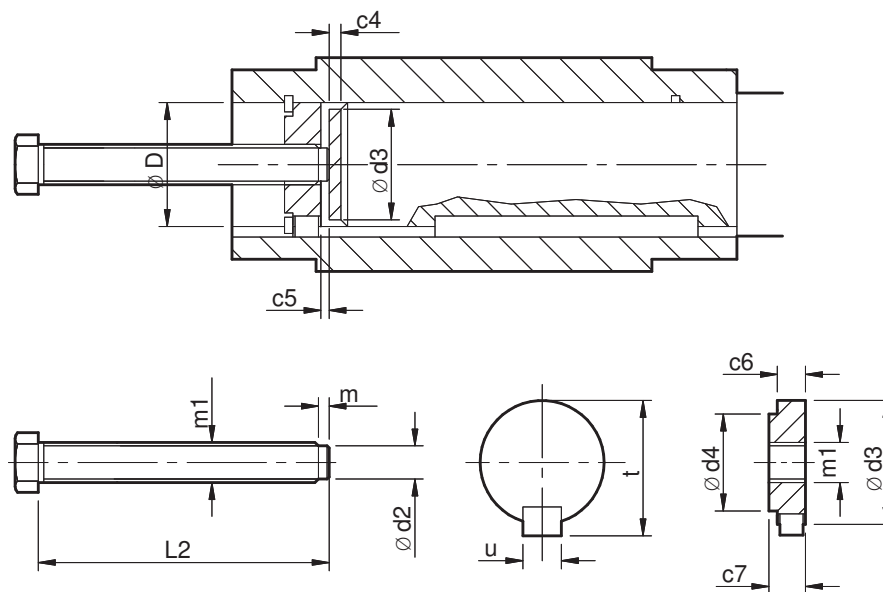
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFSM or equivalent anti scuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.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

SERIES C

DIMENSIONS

STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



*PARTS SUPPLIED BY CUSTOMER

Size	c4	c6	c7	D (H7)	d2	d3	d4	l2	m	m1	t	u
C03	0.20	0.40	0.50	0.75	0.3	0.745	0.45	4.75	0.12	3/8" UNF	0.63	0.187
C04	0.20	0.60	0.65	1.25	0.5	1.245	0.88	6.50	0.12	5/8" UNF	1.10	0.25
C05	0.20	0.60	0.65	1.375	0.5	1.370	1.00	6.50	0.12	5/8" UNF	1.19	0.312
C06	0.20	0.80	0.90	1.50	0.85	1.495	1.13	8.75	0.12	1" UNF	1.28	0.375
C07	0.31	1.00	1.10	2.00	1.05	1.995	1.59	10.00	0.20	1 1/4" UNF	1.71	0.500
C08	0.31	1.00	1.10	2.375	1.05	2.370	1.90	12.25	0.20	1 1/4" UNF	2.01	0.625
C09	0.31	1.00	1.10	2.75	1.05	2.745	2.18	14.50	0.20	1 1/4" UNF	2.39	0.625
C10	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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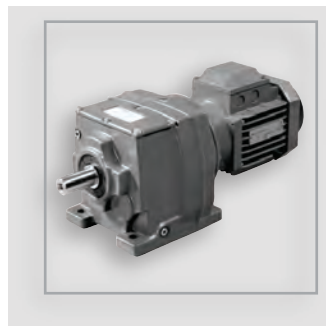
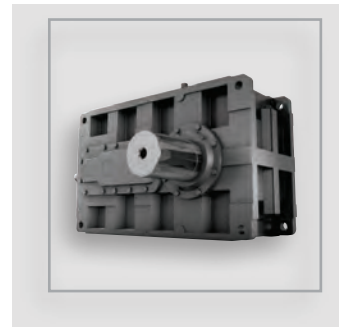
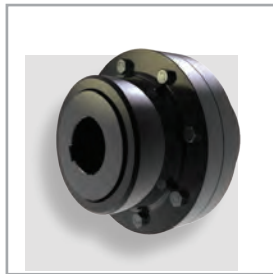
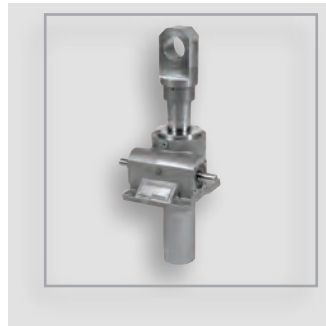
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