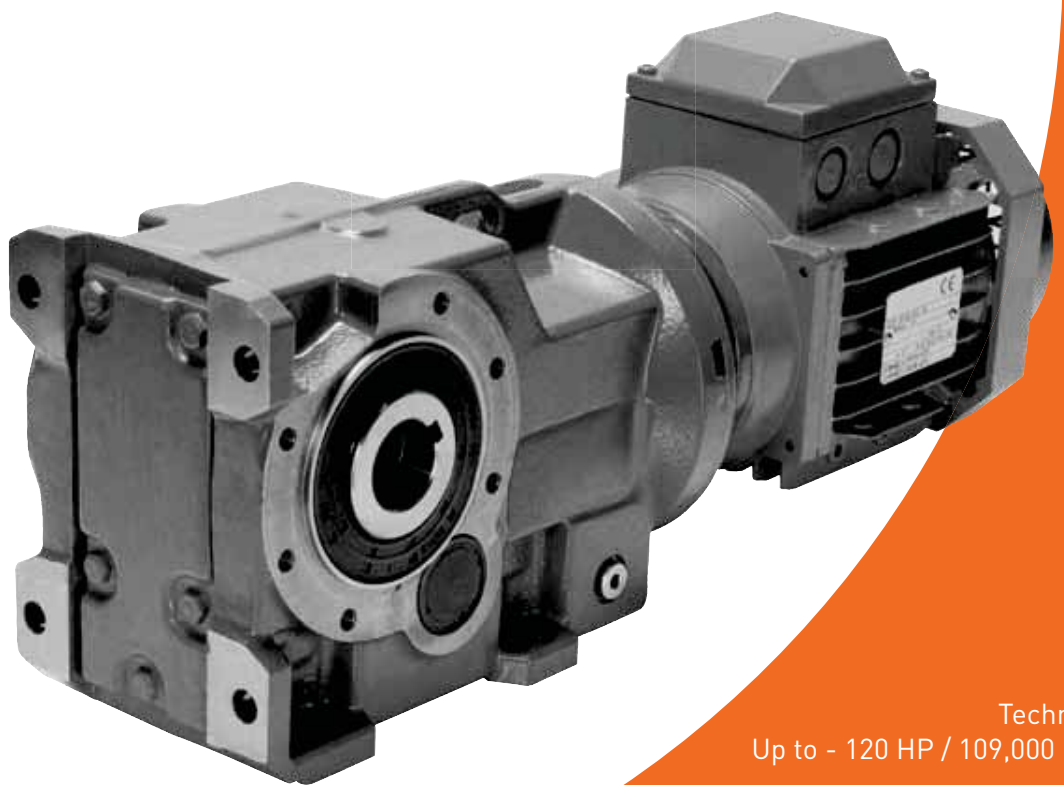


radicon

with you at every turn

Series K Helical Bevel

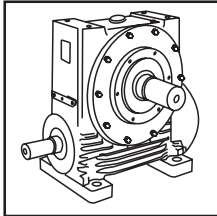


Technical
Up to - 120 HP / 109,000 lb.in

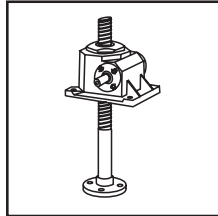
Geared Motors
CK-2.00US1211

PRODUCTS IN THE RANGE

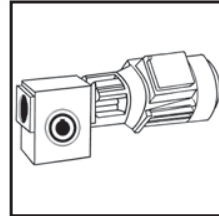
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



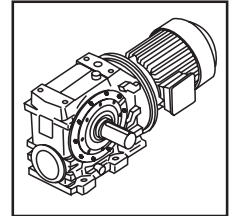
Series A
Worm Gear units
and geared motors
in single & double
reduction types



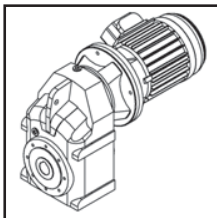
Series BD
Screwjack worm
gear unit



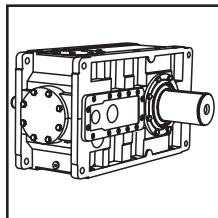
Series BS
Worm gear unit



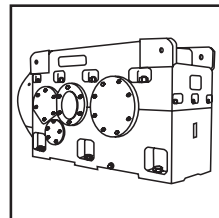
Series C
Right angle drive
helical worm geared
motors & reducers



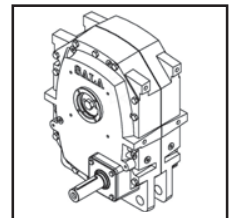
Series F
Parallel angle helical
bevel helical geared
motors & reducers



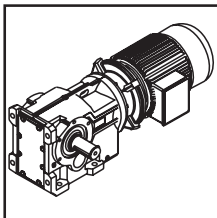
Series G
Helical parallel shaft
& bevel helical right
angle drive gear
units



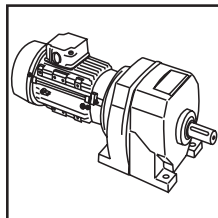
Series H
Large helical parallel
shaft & bevel helical
right angle drive units



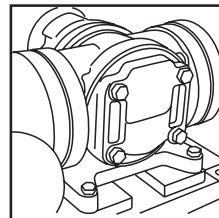
Series J
Shaft mounted
helical speed
reducers



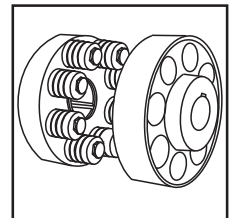
Series K
Right angle helical
bevel helical geared
motors & reducers



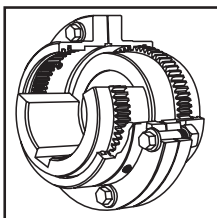
Series M
In-line helical geared
motors & reducers



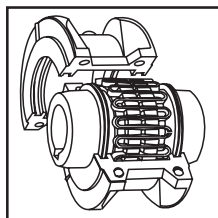
Roloid Gear Pump
Lubrication and fluid
transportation pump



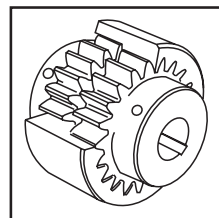
**Series X
Cone Ring**
Pin and bush
elastomer coupling



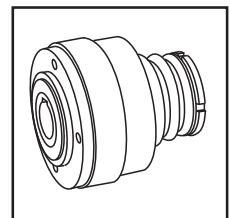
**Series X
Gear**
Torsionally rigid,
high torque coupling



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



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



**Series X
Torque Limiter**
Overload protection
device



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

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

SERIES K

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SERIES K

GENERAL DESCRIPTION

Series K

Series K right angle drive helical bevel helical geared motors offer ratios from 8 : 1 to 160 : 1 in three stages or up to 7,100 : 1 in five stages. Motors are available up to 100 HP and output torque capacity up to 100,000 lb.in.

The Series K geared motor is designed with integral cast feet for base or end mounting and can be offered with single or double extended output shafts. Units are also available shaft mounted or with output flanges and are available for mounting horizontally or vertically. The units can also be offered with a bolt on torque reaction bracket and all variants are available either Motorized or with an input shaft assembly.

Adding to the range of geared motors this product takes 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 geared motors offering high load carrying capacities, increased efficiency, quiet running and reliability.

The range includes:

9 sizes of unit
K03, K04, K05, K06, K07, K08, K09, K10 and K12.

- Version B - standard unit with feet
- Version F or H - standard unit with output flange
- Version T or Q - standard unit with torque bracket

Unit Types:

- Unit type M - Motorized with IEC standard motor
- Unit type N - Motorized with NEMA standard motor
- Unit type H - Motorized with high efficiency motor (IE2 or EPACT)
- Unit type E - Motorized with NEMA high efficiency motor (EPACT)
- Unit type G - Unit to allow fitting of IEC motor
- Unit type A - Unit to allow fitting of 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, on output shaft or reducer input shaft as required.

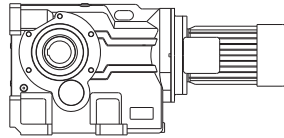
All units are dimensionally interchangeable with other major European manufacturers

Braked geared motors are available as standard

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

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

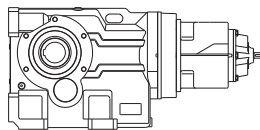
As improvements in design are being made continually this specification is not to be regarded as binding in detail and drawings and capacities are subject to alteration without notice. Certified drawings will be sent on request.



Motorized Triple Reduction
Standard Unit With Feet

*

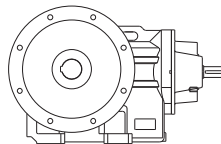
K	0	8	3	2	5	0	.	B	M	C	-	1	B	7	.	5	A	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Quintuple Reduction
Standard Unit With Feet

*

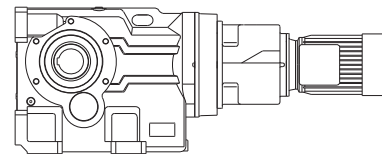
K	0	8	5	2	1	2	C	B	R	C	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Triple Reduction Standard
Unit With Output Flange On Left

*

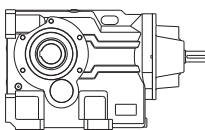
K	0	9	3	1	5	0	.	F	R	H	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Motorized Quintuple Reduction
Standard Unit With Feet

*

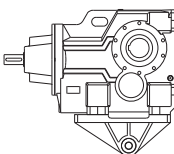
K	0	8	5	2	1	2	C	B	M	C	-	1	B	.	2	5	A	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Triple Reduction
Standard Unit With Feet

*

K	0	8	3	2	5	0	.	B	R	C	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Triple Reduction Standard
Unit With Torque Bracket

*

K	0	8	3	2	5	0	.	T	R	H	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Typical unit designations

SERIES K

UNIT DESIGNATIONS

Gearbox Codes													Motor Codes						
Series	Size of Unit		No of Reductions	Revision Version	Nominal Overall Ratio			Unit Version	Type of Unit	Output Shaft	Motor Adaptor	Mounting Position	Geared Motor Power	No of Motor Poles	Additional Motor Features	Additional Gearbox Features			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
K	0	8	3	2	5	0	.	B	N	N	Q	1	D	7	.	5	B	-	-

**Looking on Inputshaft Mounting position 1 (See page 13 for unit handings)
 *** Non Standard Handing - Consult Application Engineering

* Example

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 Poles

- No motor

			60 Hz		50 Hz
4 Pole (Std)	1800 rpm	<input type="checkbox"/> B	1500 rpm	<input type="checkbox"/> A	
4 Pole (High)	1800 rpm	<input type="checkbox"/> L	1500 rpm	<input type="checkbox"/> K	
6 Pole (Std)	1200 rpm	<input type="checkbox"/> D	1000 rpm	<input type="checkbox"/> C	
6 Pole (High)	1200 rpm	<input type="checkbox"/> N	1000 rpm	<input type="checkbox"/> M	
2 Pole	3600 rpm	<input type="checkbox"/> F	3000 rpm	<input type="checkbox"/> E	
8 Pole	900 rpm	<input type="checkbox"/> H	750 rpm	<input type="checkbox"/> G	

S Dual speed or special motor

15, 16, 17 - Geared Motor Powers

Motor HP required (For 50 Hz enter kW)

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
 See Pages 9 and 10

For All Other Types Enter -

11 - OUTPUT SHAFT

Inch Single Extension N on Left ** B on Right **

Inch Double Extension P

Inch Hollow Shaft A

Inch Taper Release † S on Left ** Z on Right ***

Shrink Disc Y on Right ** X on Left ***

† Bushings must be ordered separately

1 - Series K

Range K

2, 3 - Size of Unit

0 3 Through 1 2

4 - No of Reductions

3 Through 5

5 - Revision Version

2 For Sizes 03 to 08

1 For Sizes 09 to 12

6, 7, 8 - Nominal Overall Ratio

e.g. 5 0 .

9 - Unit Version

Standard Unit with Feet B

STD Unit with Output Flange F on Left ** H on Right **

STD Unit with Torque Bracket T on Left ** Q on Right **

10 - Type of Unit

- M - Motorized with IEC standard motor (IE2)
- N - Motorized with NEMA standard motor (EPACT)
- H - Motorized with IEC high efficiency motor (IE3)
- E - Motorized with NEMA high efficiency motor (PREMIUM)
- G - Unit to allow fitting of IEC motor (non customer motor)
- A - Unit to allow fitting of NEMA motor (non customer 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

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

SERIES K

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 factors Fm and Fs

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).

For applications where units are to operate in extremely dusty or moist/humid atmospheres unit selection should be referred to application engineering.

Table 1. Mechanical Service Factor (Fm)

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

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

* calculated with reference to the motor speed

Table 2. Number of Starts Factor (Fs)

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

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

SERIES K

LOAD CLASSIFICATION BY APPLICATIONS

Table 3

U = Uniform load

M = Moderate shock load

H = Heavy shock load

I = Refer to
Application Engineering

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

SERIES K

SELECTION PROCEDURE FOR MOTORIZED UNITS

EXAMPLE APPLICATION DETAILS

Absorbed power of driven machine = 17HP
 Output speed of gearbox or Input speed of machine = 45rev/min
 Application = Uniformly loaded belt conveyor
 Duration of service (hours per day) = 24hrs
 Mounting position = 1
 Ambient temperature = 68°F
 Running time (%) = 100%

1 DETERMINE MECHANICAL SERVICE FACTOR (Fm)

Refer to Load Classification by Application, table 3, page 4

Application = Uniformly loaded belt conveyor

Conveyors-uniformly loaded or fed		U = Uniform load
apron	U	
assembly	U	
belt	U	
bucket	U	
chain	U	

Refer to mechanical service factor (Fm), table 1, page 3

Duration of service (hours per day) = 24hrs

Prime mover	Duration of service-hrs per day	Load classification-drive	
		Uniform	Moderate Shock
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

2 DETERMINE REQUIRED OUTPUT TORQUE AT GEARBOX OUTPUTSHAFT

$$\text{Absorbed output torque} = \frac{\text{Absorbed power} \times 63025}{\text{Gearbox output speed}}$$

$$\frac{17 \times 63025}{45} = 23810 \text{ lb.in}$$

3 SELECT GEARED MOTOR

Refer to selection table one motor size larger than absorbed power.
 Absorbed power = 17 HP, therefore refer to 20 HP selection table.

Required output speed of gearbox = 45 rev/min

20 HP	N2 R/MIN	i	lb in	Fm	lbf	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 Frame Size
	118	14.94	10259	3.09	7386	K 0 9 3 1 1 6 . . N 2 0 . B . .	666	256TC
	98	17.93	12325	2.43	7354	1 8 .		
	88	20.03	13759	2.23	7437	2 0 .		
	81	21.61	14830	2.39	7447	2 2 .		
	73	24.14	16568	2.18	7431	2 5 .		
	63	27.78	19123	1.73	7477	2 8 .		
	56	31.67	21797	1.53	7643	3 2 .		
	53	33.47	22927	1.63	7643	3 6 .		
	46	38.16	26187	1.42	7643	4 0 .		
	39	44.89	30815	1.09	7643	4 5 .		

Go to point 4

SERIES K

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 = 23810 lb.in

20 HP	N2 R/MIN	i	lb in	Fm	lbf	UNIT DESIGNATION	lb	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Frame Size
	118	14.94	10259	3.09	7386	K 0 9 3 1 1 6 . . N _ _ _ _ 2 0 . B _ _	666	256TC
	98	17.93	12325	2.43	7354	1 8 .		
	88	20.03	13759	2.23	7437	2 0 .		
	81	21.61	14830	2.39	7447	2 2 .		
	73	24.14	16568	2.18	7431	2 5 .		
	63	27.78	19123	1.73	7477	2 8 .		
	56	31.67	21797	1.53	7643	3 2 .		
	53	33.47	22927	1.63	7643	3 6 .		
	46	38.16	26187	1.42	7643	4 0 .		
	39	44.89	30815	1.09	7643	4 5 .		

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

20 HP	N2 R/MIN	i	lb in	Fm	lbf	UNIT DESIGNATION	lb	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Frame Size
	118	14.94	10259	3.09	7386	K 0 9 3 1 1 6 . . N _ _ _ _ 2 0 . B _ _	666	256TC
	98	17.93	12325	2.43	7354	1 8 .		
	88	20.03	13759	2.23	7437	2 0 .		
	81	21.61	14830	2.39	7447	2 2 .		
	73	24.14	16568	2.18	7431	2 5 .		
	63	27.78	19123	1.73	7477	2 8 .		
	56	31.67	21797	1.53	7643	3 2 .		
	53	33.47	22927	1.63	7643	3 6 .		
	46	38.16	26187	1.42	7643	4 0 .		
	39	44.89	30815	1.09	7643	4 5 .		

6 CHECK OVERHUNG LOADS

If sprocket, gear, etc is mounted on the outputshaft then refer to Overhung Loads Procedure, page 45, and compare with allowable overhung load (lb) of selected unit
Allowable overhung load (lb) must be equal or more than calculated overhung load (P)

20 HP	N2 R/MIN	i	lb in	Fm	lbf	UNIT DESIGNATION	lb	
	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight	Motor Frame Size
	118	14.94	10259	3.09	7386	K 0 9 3 1 1 6 . . N _ _ _ _ 2 0 . B _ _	666	256TC
	98	17.93	12325	2.43	7354	1 8 .		
	88	20.03	13759	2.23	7437	2 0 .		
	81	21.61	14830	2.39	7447	2 2 .		
	73	24.14	16568	2.18	7431	2 5 .		
	63	27.78	19123	1.73	7477	2 8 .		
	56	31.67	21797	1.53	7643	3 2 .		
	53	33.47	22927	1.63	7643	3 6 .		
	46	38.16	26187	1.42	7643	4 0 .		
	39	44.89	30815	1.09	7643	4 5 .		

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

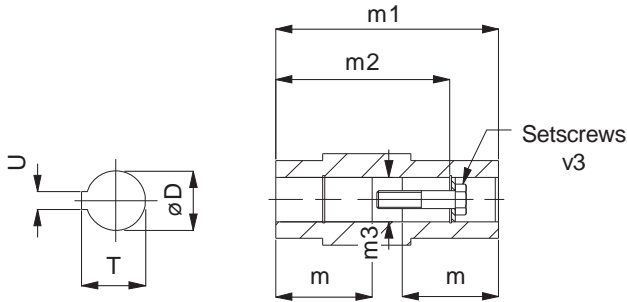
- a) Inertia of the Driven Machine (Referred to motor speed) >10 b) Ambient temperature is above 104°F
Inertia of Gear Unit plus Motor

SERIES K

OUTPUT OPTIONS

OUTPUTBORE OPTIONS. COLUMN 11 ENTRY

Inch / metric Hollow shaft



Output Shaft Bore

Column 11 Entry

Inch Hollow Shaft

A

Inch Taper Release *

Z

on Left**

S

on Right**

Metric Hollow Shaft

H

Shrink Disc *

Y

on Right**

X

on Left**

* See pages 62 - 64 for dimensions of these shaft options

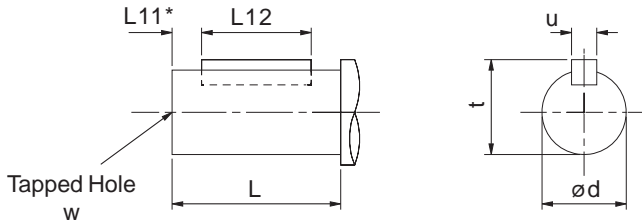
** See page 13 for clarification of unit handings

SIZE OF UNIT	TYPE OF BORE	COLUMN 11 ENTRY	DIMENSIONS IN INCHES (Metric Bores in mm)							
			øD	m	m1	m2	øm3	T	U	V3
K03	Inch	A	1.251" / 1.250"	2.07"	4.724"	4.13"	1.26"	1.377"	0.250"	3/8" UNF x 2" LONG
	Metric	H	30.021 / 30.000	52.5	120	105	30.3	33.5	8	M10x50L
K04	Inch	A	1.376" / 1.375"	2.60"	5.906"	5.12"	1.38"	1.525"	0.3125"	1/2" UNF x 21/4" LONG
	Metric	H	35.025 / 35.000	66	150	132	35.3	38.5	10	M12x55L
K05	Inch	A	1.501" / 1.500"	2.87"	6.535"	5.59"	1.51"	1.675"	0.375"	5/8" UNF x 23/4" LONG
	Metric	H	40.025 / 40.000	73	166	142	40.3	43.5	12	M16x70L
K06	Inch	A	1.501" / 1.500"	3.15"	7.087"	6.14"	1.51"	1.51"	0.375"	5/8" UNF x 23/4" LONG
	Metric	H	40.025 / 40.000	80	180	156	40.3	43.5	12	M16x70L
K07	Inch	A	2.001" / 2.000"	3.64"	8.268"	7.20"	2.02"	2.230"	0.500"	5/8" UNF x 23/4" LONG
	Metric	H	50.025 / 50.000	92.5	210	183	50.5	54	14	M16x70L
K08	Inch	A	2.3762" / 2.3750"	4.134"	9.449"	8.268"	2.382"	2.656"	0.625"	3/4" - 16 UNF x 31/4" LONG
	Metric	H	60.030 / 60.000	105	240	210	60.5	64.5	18	M20x80L
K09	Inch	A	2.7512" / 2.7500"	5.217"	11.811"	10.630"	2.772"	3.037"	0.625"	3/4" - 16 UNF x 31/4" LONG
	Metric	H	70.030 / 70.000	132.5	300	270	70.5	75	20	M20x80L
K10	Inch	A	3.2514" / 3.2500"	6.102"	13.780"	12.323"	3.268"	3.591"	0.750"	3/4" - 16 UNF x 31/4" LONG
	Metric	H	80.030 / 80.000	155	350	313	80.5	85.6	22	M20x80L
K12	Inch	A	4.0014" / 4.0000"	7.087"	16.142"	14.685"	4.020"	4.446"	1.000"	1" - 12 UNF x 41/2" LONG
	Metric	H	100.035 / 100.000	180	410	373	100.5	106.5	28	M24x110L

SERIES K

OUTPUT OPTIONS

OUTPUTSHAFT OPTIONS. COLUMN 11 ENTRY



Column 11 Entry

Inch Single Extension **N** on Left **B** on Right
 Inch Double Extension **P**
 Standard Single Extension **C** on Left **E** on Right
 Standard Double Extension **D**

SIZE OF UNIT	TYPE OF OUTPUTSHAFT	COLUMN 11 ENTRY	DIMENSIONS IN INCHES (Metric shaft in MM)						
			ød	L	L11	L12	t	u	w
K03	Inch Single Ext.	N / B	1.0000" / 0.9995"	1.85"	*	1.57"	1.106"	0.25"	3/8 UNF x 0.75" Deep
	Inch Double Ext.	P	1.0000" / 0.9995"	1.85"	*	1.57"	1.106"	0.25"	3/8 UNF x 0.75" Deep
	Standard Single Ext.	C / E	25.015 / 25.002	47	3	40	28	8	M10 x 1.5 x 22 Deep
	Standard Double Ext.	D	25.015 / 25.002	47	3	40	28	8	M10 x 1.5 x 22 Deep
K04	Inch Single Ext.	N / B	1.2500" / 1.2495"	2.20"	*	2"	1.359"	0.25"	1/2 UNF x 1.13" Deep
	Inch Double Ext.	P	1.2500" / 1.2495"	2.20"	*	2"	1.359"	0.25"	1/2 UNF x 1.13" Deep
	Standard Single Ext.	C / E	30.015 / 30.002	56	3	50	33	8	M12 x 1.75 x 28 Deep
	Standard Double Ext.	D	30.015 / 30.002	56	3	50	33	8	M12 x 1.75 x 28 Deep
K05	Inch Single Ext.	N / B	1.3750" / 1.3745"	2.60"	*	2.375"	1.507"	0.3125"	5/8 UNF x 1.5" Deep
	Inch Double Ext.	P	1.3750" / 1.3745"	2.60"	*	2.375"	1.507"	0.3125"	5/8 UNF x 1.5" Deep
	Standard Single Ext.	C / E	35.018 / 35.002	66	3	60	38	10	M16 x 2 x 36 Deep
	Standard Double Ext.	D	35.018 / 35.002	66	3	60	38	10	M16 x 2 x 36 Deep
K06	Inch Single Ext.	N / B	1.625" / 1.624"	3.00"	*	2.375"	1.784"	0.375"	5/8 UNF x 1.5" Deep
	Inch Double Ext.	P	1.4996" / 1.4990"	3.00"	*	2.375"	1.664"	0.375"	5/8 UNF x 1.5" Deep
	Standard Single Ext.	C / E	40.018 / 40.002	76	3	70	43	12	M16 x 2 x 36 Deep
	Standard Double Ext.	D	39.991 / 39.975	76	3	70	43	12	M16 x 2 x 36 Deep
K07	Inch Single Ext.	N / B	2.000" / 1.999"	3.74"	*	2.75"	2.228"	0.50"	5/8 UNF x 1.5" Deep
	Inch Double Ext.	P	2.000" / 1.999"	3.74"	*	2.75"	2.228"	0.50"	5/8 UNF x 1.5" Deep
	Standard Single Ext.	C / E	50.018 / 50.002	95	3	80	53.5	14	M16 x 2 x 36 Deep
	Standard Double Ext.	D	49.991 / 49.975	95	3	80	53.5	14	M16 x 2 x 36 Deep
K08	Inch Single Ext.	N / B	2.3750" / 2.3740"	4.488"	*	3.6875"	2.65"	0.625"	3/4" 16 UNF x 1.65 Deep
	Inch Double Ext.	P	2.3746" / 2.3739"	4.488"	*	3.6875"	2.65"	0.625"	3/4" 16 UNF x 42 Deep
	Standard Single Ext.	C / E	60.030 / 60.011	114	3	100	64	18	M20 x 2.5 x 42 Deep
	Standard Double Ext.	D	59.990 / 59.971	114	3	100	64	18	M20 x 2.5 x 42 Deep
K09	Inch Single Ext.	N / B	2.875" / 2.874"	5.315"	*	4.625"	3.20"	0.750"	3/4" 16 UNF x 1.65 Deep
	Inch Double Ext.	P	2.625" / 2.624"	5.315"	*	3.6875"	3.03"	0.625"	3/4" 16 UNF x 42 Deep
	Standard Single Ext.	C / E	70.030 / 70.011	135	3	110	74.5	20	M20 x 2.5 x 42 Deep
	Standard Double Ext.	D	69.990 / 69.971	135	3	110	74.5	20	M20 x 2.5 x 42 Deep
K10	Inch Single Ext.	N / B	3.625" / 3.624"	6.772"	*	5.9375"	4.01"	0.875"	3/4" 16 UNF x 1.65 Deep
	Inch Double Ext.	P	3.125" / 3.124"	6.417"	*	4.625"	3.45"	0.750"	3/4" 16 UNF x 42 Deep
	Standard Single Ext.	C / E	90.035 / 90.013	172	5	140	95	25	M20 x 2.5 x 42 Deep
	Standard Double Ext.	D	75.030 / 75.011	163	5	110	79.5	20	M20 x 2.5 x 42 Deep
K12	Inch Single Ext.	N / B	4.375" / 4.374"	8.386"	*	6.500"	4.81"	1.000"	1" 12 UNF x 2.17 Deep
	Inch Double Ext.	P	3.875" / 3.874"	7.874"	*	6.500"	4.31"	1.000"	1" 12 UNF x 55 Deep
	Standard Single Ext.	C / E	110.035 / 110.013	213	5	180	116	28	M24 x 3 x 55 Deep
	Standard Double Ext.	D	95.035 / 95.013	200	5	140	100	25	M20 x 2.5 x 42 Deep

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

SERIES K

MOTOR ADAPTERS

NEMA & IEC

TRIPLE REDUCTION UNITS

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																		
	RATIO COVERAGE	K0332		K0432		K0532		K0632		K0732		K0832		K0931		K1031		K1231	
		8.0 - 20.	25. - 125	8.0 - 32.	36. - 125	8.0 - 25.	28. - 125	8.0 - 25.	28. - 125	8.0 - 20.	25. - 125	8.0 - 32.	36. - 125	8.0 - 40.	45. - 160	8.0 - 40.	45. - 160	8.0 - 40.	45. - 100
56c	T	U	T	U	-	Q	-	Q	-	Q	-	M	-	-	-	-	-	-	-
143/145TC	V	W	V	W	-	R	-	R	-	R	-	N	-	-	-	-	-	-	-
182/184TC	X	-	X	-	S	T	S	T	S	T	J	P	-	S	-	P	-	N	A
213/215TC	-	-	-	-	U	-	U	-	U	V	K	Q	-	T	-	Q	-	P	B
254/256TC	-	-	-	-	-	-	-	-	W	-	L	U	P	U	L	R	F	Q	C
284/286TC	-	-	-	-	-	-	-	-	-	-	-	-	Q	V	M	S	G	R	D
324/326TC	-	-	-	-	-	-	-	-	-	-	-	-	R	W	N	T	H	S	E
364/365TC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	J	T	-
404/405TC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	K	U	-

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																		
	RATIO COVERAGE	K0332		K0432		K0532		K0632		K0732		K0832		K0931		K1031		K1231	
		8.0 - 20.	25. - 125	8.0 - 32.	36. - 125	8.0 - 25.	28. - 125	8.0 - 25.	28. - 125	8.0 - 20.	25. - 125	8.0 - 32.	36. - 125	8.0 - 40.	45. - 160	8.0 - 40.	45. - 160	8.0 - 40.	45. - 100
63	F	F	-	F	-	V	-	V	-	-	-	-	-	-	-	-	-	-	-
71	G	G	-	G	-	D	-	D	-	-	-	-	-	-	-	-	-	-	-
80	A	J	A	J	W	F	W	F	-	F	-	D	-	E	-	-	-	-	-
90	C	Q	C	Q	Y	H	Y	H	-	H	-	E	-	F	-	-	-	-	-
100	-	-	-	-	A	K	A	K	A	K	A	F	-	G	-	E	-	G	N
112	-	-	-	-	A	K	A	K	A	K	A	F	-	G	-	E	-	G	N
132	-	-	-	-	N	P	N	-	C	M	B	G	-	H	-	F	-	H	P
160	-	-	-	-	-	-	-	-	E	-	C	H	A	J	A	G	A	J	Q
180	-	-	-	-	-	-	-	-	-	-	-	-	B	K	B	H	B	K	R
200	-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	-	C	L	S
225	-	-	-	-	-	-	-	-	-	-	-	-	D	-	D	-	D	M	T
250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	U	-
280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	F	W	-

Limited Availability / Non Preferred

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER										
	RATIO COVERAGE	K0332		K0432		K0532		K0632		K0732	
		8.0 - 20.	25. - 125	8.0 - 32.	36. - 125	8.0 - 25.	28. - 125	8.0 - 25.	28. - 125	8.0 - 20.	25. - 125
71	H	H	-	H	-	F	-	F	-	-	
80	B	K	B	K	-	G	-	G	-	G	
90	D	R	D	R	Z	J	Z	J	-	J	
100	E	S	E	S	B	L	B	L	B	L	
112	E	S	E	S	B	L	B	L	B	L	
132	-	-	-	-	-	-	-	-	D	N	

SERIES K

MOTOR ADAPTERS

NEMA & IEC

QUINTUPLE REDUCTION UNITS

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																				
	RATIO COVERAGE		K0352		K0452		K0552		K0652		K0752		K0852		K0951		K1051		K1251		
			125 - 250	280 & Over	125 - 360	400 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	160 - 500	560 & Over	160 - 500	560 & Over	160 - 500	560 & Over	
56c	COLUMN 12 ENTRY		T	U	T	U	T	U	T	U	T	U	-	Q	-	Q	-	Q	-	Q	
143/145TC			V	W	V	W	V	W	V	W	V	W	-	R	-	R	-	R	-	R	
182/184TC			X	-	X	-	X	-	X	-	X	-	S	T	S	T	S	T	S	T	
213/215TC			-	-	-	-	-	-	-	-	-	-	-	U	-	U	-	U	V	U	V
254/256TC			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	W	-	W	-

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																			
	RATIO COVERAGE		K0352		K0452		K0552		K0652		K0752		K0852		K0951		K1051		K1251	
			125 - 250	280 & Over	125 - 360	400 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	160 - 500	560 & Over	160 - 500	560 & Over	160 - 500	560 & Over
63	COLUMN 12 ENTRY		F	F	F	F	-	F	-	F	-	V	-	V	-	-	-	-	-	
71			G	G	G	G	-	G	-	G	-	D	-	D	-	-	-	-	-	
80			A	J	A	J	A	J	A	J	A	J	W	F	W	F	-	F	-	F
90			C	Q	C	Q	C	Q	C	Q	C	Q	Y	H	Y	H	-	H	-	H
100			-	-	-	-	-	-	-	-	-	-	A	K	A	K	A	K	A	K
112			-	-	-	-	-	-	-	-	-	-	A	K	A	K	A	K	A	K
132			-	-	-	-	-	-	-	-	-	-	N	P	N	P	C	M	C	M
160			-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	-	E	-

Limited Availability / Non Preferred

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

MOTOR FRAME FLANGE	UNIT SIZE, NUMBER OF REDUCTIONS, REVISION NUMBER																			
	RATIO COVERAGE		K0352		K0452		K0552		K0652		K0752		K0852		K0951		K1051		K1251	
			125 - 250	280 & Over	125 - 360	400 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	125 - 400	450 & Over	160 - 500	560 & Over	160 - 500	560 & Over	160 - 500	560 & Over
71	COLUMN 12 ENTRY		H	H	H	H	-	H	-	H	-	H	-	E	-	E	-	-	-	
80			B	K	B	K	B	K	B	K	B	K	-	G	-	G	-	G	-	G
90			D	R	D	R	D	R	D	R	D	R	Z	J	Z	J	-	J	-	J
100			E	S	E	S	E	S	E	S	E	S	B	L	B	L	B	L	B	L
112			F	S	F	S	F	S	F	S	F	S	B	L	B	L	B	L	B	L
132			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	N	D

SERIES K

LUBRICATION

LUBRICATION QUANTITIES GALLONS (US)

K03,K04,K05,K06,& K07 Units & Primary Units used for Quintuple Reduction, are supplied factory filled with EP mineral oil (Grade 6E) appropriate to the intended mounting position. If the unit is supplied without lubricant the unit must be filled with the the correct lubricant and quantity as listed below.

K08,K09,K10,& K12 Units, require filling with EP mineral oil (Grade 6E). 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. If the unit is supplied without lubricant the unit must be filled with the correct lubricant and quantity.

TABLE 1 OIL GRADES

LUBRICANT	AMBIENT TEMPERATURE RANGE		
	40°F to 68°F (type E) -22°F to 68°F (type H)	32°F to 95°F	68°F to 122°F
EP Mineral Oil (type E)	5E (VG 220)	6E (VG 320)	7E (VG 460)
Polyalphaolefin based Synthetic (type H)	5H (VG 220)	5H (VG 220)	6H (VG 320)

TEMPERATURE LIMITATIONS

The standard lubricant is suitable for operation in ambient temperatures of 32°F to 122°F, outside of this consult Table 1 or Application Engineers.

TABLE 2 Lubrication Quantity Gallons (US)

Oil quantities are approximate, fill gearbox until oil escapes from level plug hole Do not overfill as excess lubricant may cause overheating and leakage

1 gallon (US) = 3.79 litre

TRIPLE REDUCTION										
Unit Size	K0332	K0432	K0532	K0632	K0732	K0832	K0931	K1031	K1231	
MOUNTING POSITION	1	0.13	0.18	0.28	0.39	0.70	1.16	2.5	4.0	6.1
	2	0.18	0.28	0.39	0.47	0.95	0.98	2.2	4.0	7.1
	3	0.21	0.28	0.44	0.73	1.06	2.00	4.8	7.4	8.7
	4	0.26	0.34	0.50	0.70	1.19	1.98	4.5	7.9	10.3
	5	0.31	0.44	0.66	0.95	1.59	2.53	5.5	9.0	13.2
	6	0.23	0.31	0.52	0.68	1.19	2.00	4.2	6.6	9.3

QUINTUPLE REDUCTION											
Unit Size	K0352		K0452		K0552		K0652		K0752		
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary	
	M0122	K0332	M0122	K0432	M0322	K0532	M0322	K0632	M0322	K0732	
MOUNTING POSITION	1	0.13	0.13	0.13	0.18	0.21	0.28	0.21	0.39	0.21	0.70
	2	0.13	0.18	0.13	0.23	0.21	0.39	0.21	0.47	0.21	0.95
	3	0.13	0.21	0.13	0.28	0.21	0.44	0.21	0.73	0.21	1.05
	4	0.13	0.26	0.13	0.34	0.21	0.50	0.21	0.70	0.21	1.19
	5	0.18	0.31	0.18	0.44	0.28	0.66	0.28	0.95	0.28	1.50
	6	0.18	0.23	0.26	0.31	0.37	0.52	0.36	0.68	0.37	1.19

QUINTUPLE REDUCTION..CONT									
Unit Size	K0852		K0951		K1051		K1251		
	Primary	Secondary	Primary	Secondary	Primary	Secondary	Primary	Secondary	
	M0522	K0832	M0522	K0931	M0722	K1031	M0722	K1231	
MOUNTING POSITION	1	0.39	1.16	0.39	2.5	0.68	4.0	0.68	6.1
	2	0.39	0.98	0.39	2.3	0.68	4.0	0.68	7.1
	3	0.39	2.00	0.39	4.8	0.68	7.4	0.68	8.7
	4	0.39	1.98	0.39	4.5	0.68	7.9	0.68	10.3
	5	0.52	2.53	0.52	5.5	0.84	9.0	0.84	13.2
	6	0.68	2.00	0.68	4.2	1.24	6.6	1.24	9.3

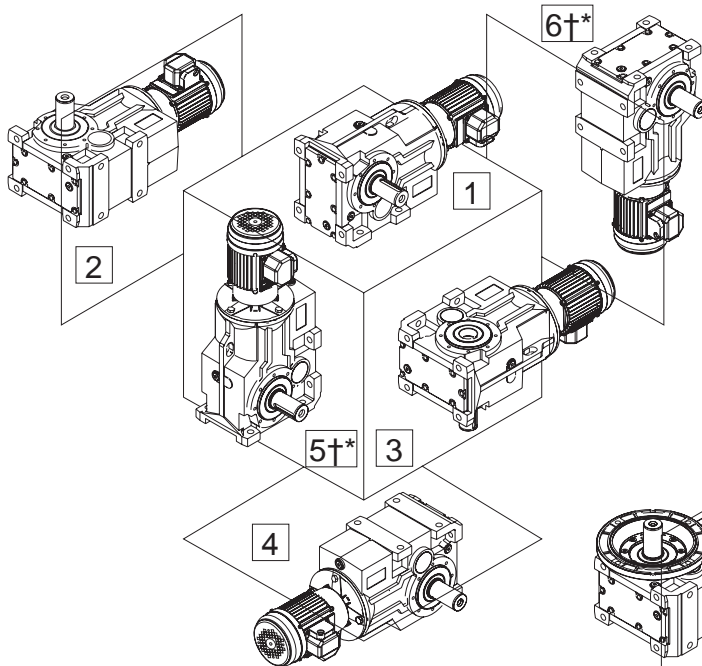
SERIES K

MOUNTING POSITIONS

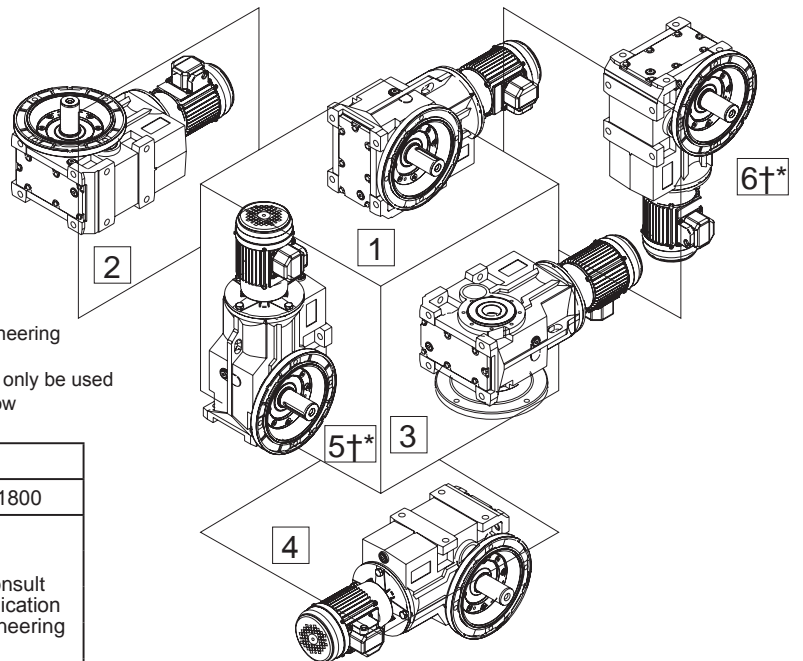
COLUMN 13 ENTRY

Enter for units with no oil fill

Base Mounted Units



Flange Mounted Units



* Not Recommended for Geared Motors - Consult Application Engineering

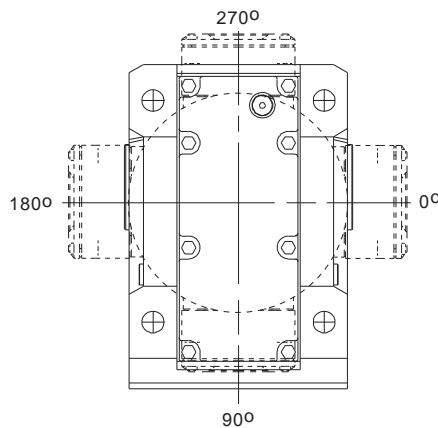
† Gear Units selected for use in mounting positions 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below

Unit Size	Input Speed (rpm)				Consult Application Engineering
	< 1000	< 1500	< 1800	> 1800	
K03 - K07	8.0	8.0	8.0		
K08	8.0	8.0	11.0		
K09	8.0	11.0	14.0		
K10	11.0	20	25.0		
K12	16.0	32	36.0		

MOUNTING POSITIONS - SHOWN AS Motorized - APPLIES ALSO FOR REDUCERS

COLUMN 14 ENTRY

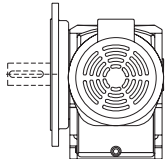
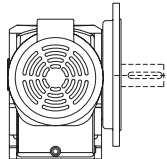
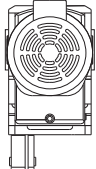
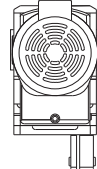
ALL MOTORS

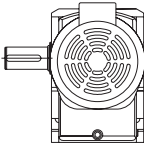
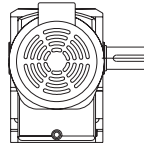
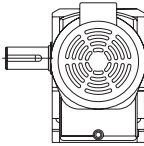
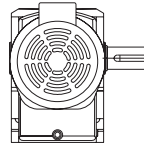
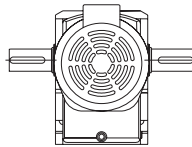
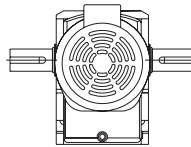
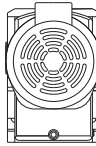

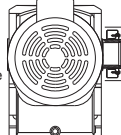
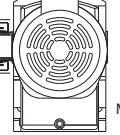
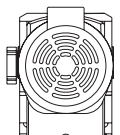
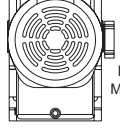


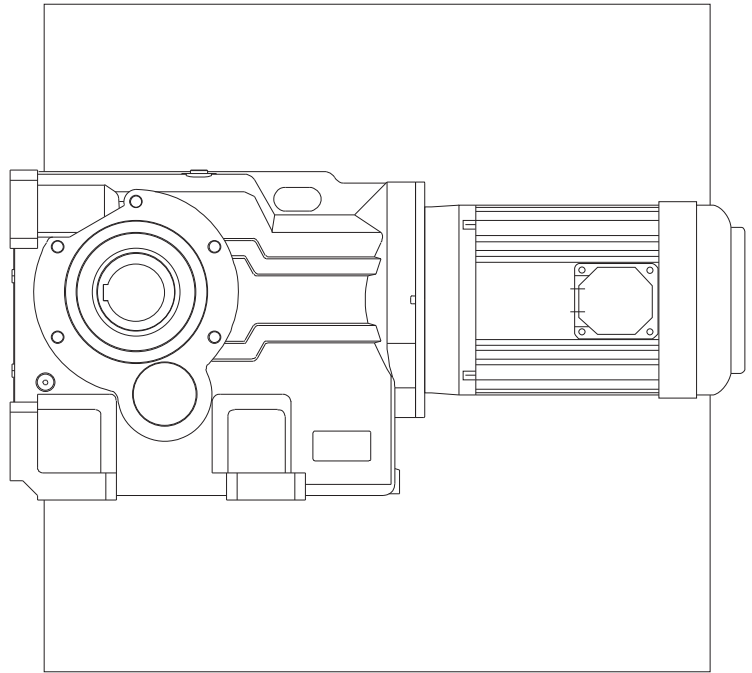
Column 14 Entry	Terminal Box Position
A	0°
B	90°
C	180°
D	270°
-	Reducer or no motor fitted

SERIES K

UNIT HANDINGS

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

Column 11 Entry	Metric		Inch	
	Left	Right	Left	Right
Single Output Shaft	C 	E 	N 	B 
Double Output Shaft	D 		P 	
Hollow Shaft	H 		A 	
Shrink Disc	Y  Driven Machine Side	X  Driven Machine Side Note: non-standard handing, please contact us	S  Driven Machine Side	Z  Driven Machine Side Note: non-standard handing, please contact us

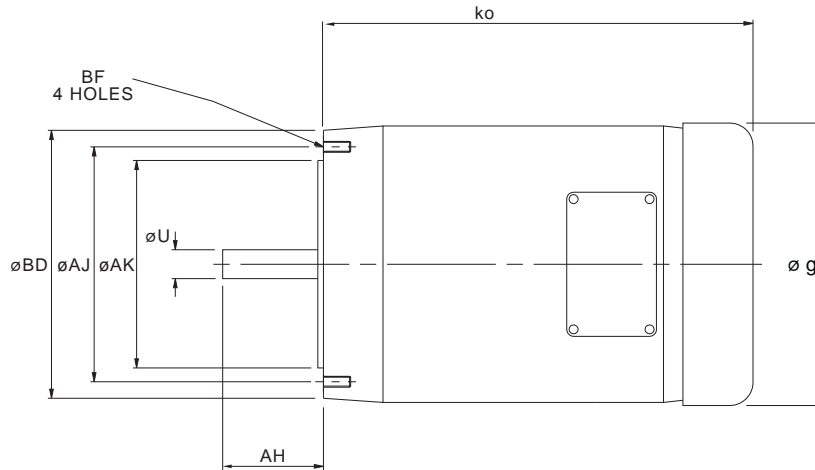


MOTORIZED
SERIES K

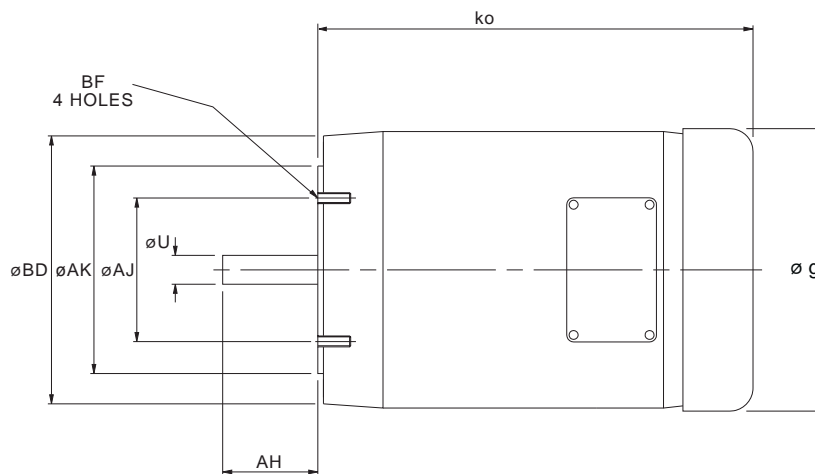
SERIES K

MOTOR DETAILS

NEMA Standard Motors



MOTOR FRAME SIZE	Ø BD	Ø AJ	Ø AK	Ø U	AH	Ko max	Øg	BF TAP UNC
56C	6.50	5.88	4.5	0.625	2.06	14.12	7.19	3/8 - 16
143TC/145TC	6.50	5.88	4.5	0.875	2.13	14.19	7.19	3/8 - 16



MOTOR FRAME SIZE	Ø BD	Ø AJ	Ø AK	Ø U	AH	Ko max	Øg	BF TAP UNC
182TC/184TC	9.00	7.25	8.5	1.125	2.63	18.05	8.50	1/2 - 13
213TC/215TC	9.00	7.25	8.5	1.375	3.13	21.25	10.19	1/2 - 13
254TC/256TC	10.00	7.25	8.5	1.625	3.75	23.66	12.50	1/2 - 13
284TC/286TC	11.25	9.00	10.5	1.875	4.38	27.76	15.56	1/2 - 13
324TC/326TC	13.38	11.00	12.5	2.125	5.00	30.39	16.94	5/8 - 11

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

SERIES K

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 our Application Engineers for details of the following additional motor features:

- Wash down
- Customized brake torque
- Seperate brake supply
- Anti Condensation heater
- Bi-metal temperature detectors, Thermostat
- Metal fan cover
- Rain cowl
- Seperate terminal box

SERIES K

ADDITIONAL GEARBOX FEATURES

ADDITIONAL GEARBOX FEATURES - COLUMN 20 ENTRY

Column 20 Entry	Double Oil* Seals	Oil Level** Glass K07 - K12	Motorized Backstop***		Special****
			CW Rotation	CCW Rotation	
-					
A	•				
B		•			
C	•	•			
D			•		
E	•		•		
F		•	•		
G	•	•	•		
H				•	
I	•			•	
J		•		•	
K	•	•		•	
L					•

*Double oil seals are for output shafts only. Double oil seals are NOT AVAILABLE on Taper Release output shafts.

**Oil level glass is available on F06-F10. Oil level glass is NOT AVAILABLE on F02-F05 units.

***Limited frame size availability see page 61.

****Please refer to our Application Engineers for details regarding special gearbox features for example -

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

SERIES K

EXACT RATIOS

EXACT RATIOS - TRIPLE REDUCTION

Column Entry			K0332	K0432	K0532	K0632	K0732	K0832	K0931	K1031	K1231
6	7	8									
8.0			8.328	8.054	8.112	7.961	8.595	8.128	8.035	8.263	8.513
10.			-	-	-	-	-	-	9.681	9.946	10.26
11.			11.25	11.30	11.41	11.19	11.91	11.52	11.06	11.54	11.80
12.			12.80	12.45	12.78	12.55	13.37	12.80	12.40	12.55	12.96
14.			14.50	14.14	14.35	14.08	14.71	14.24	13.33	13.89	14.21
16.			-	-	-	-	-	-	14.94	15.11	15.61
18.			18.54	17.95	18.22	17.88	19.21	18.41	17.93	18.57	18.20
20.			19.98	20.40	20.66	20.27	21.84	20.67	20.04	20.05	20.17
22.			-	-	-	-	-	-	21.61	22.35	21.93
25.			25.23	25.03	24.64	24.18	26.52	25.34	24.14	24.13	24.29
28.			28.60	27.76	28.37	27.84	29.17	28.56	27.78	29.24	29.00
32.			32.68	31.54	32.99	32.38	33.52	33.24	31.67	33.10	32.83
36.			36.35	35.83	36.91	36.23	38.01	36.88	33.47	35.20	34.93
40.			40.08	39.46	39.34	38.61	41.92	40.36	38.16	39.84	39.55
45.			44.11	45.39	46.63	45.76	48.01	45.66	44.89	45.37	46.81
50.			51.68	49.35	49.78	48.86	54.28	51.54	49.88	50.41	52.76
56.			-	-	-	-	-	-	54.09	54.61	56.39
63.			62.00	59.24	61.78	60.63	62.94	62.48	60.09	60.68	63.57
71.			72.27	71.09	72.85	71.49	75.07	72.86	70.45	71.89	74.62
80.			80.30	80.10	79.77	78.28	82.20	80.03	77.78	82.83	83.10
90.			-	-	-	-	-	-	84.89	86.53	89.89
100			96.70	93.12	97.76	95.93	98.65	98.08	93.71	99.70	100.1
112			110.8	105.7	109.0	106.9	113.5	107.1	107.0	112.0	113.8
125			126.0	120.2	122.2	119.9	126.1	123.3	120.3	120.4	121.1
140			-	-	-	-	-	-	128.9	134.8	137.1
160			-	-	-	-	-	-	145.0	144.9	145.9

SERIES K

EXACT RATIOS

EXACT RATIOS - QUADRUPLE REDUCTION

Column Entry			K0352	K0452	K0552	K0652	K0752	K0852	K0951	K1051	K1251
6	7	8									
125			128	134	118	116	120	132	-	-	-
140			145	148	143	140	133	145	-	-	-
160			165	170	157	154	147	164	161	167	172
200			211	200	208	204	211	203	226	226	238
250			227	258	264	259	233	228	254	260	269
280			287	284	300	294	265	268	282	285	302
320			325	322	316	310	305	297	298	317	332
360			371	355	351	344	374	337	331	373	385
400			413	407	399	391	415	401	402	414	437
450			455	448	453	445	466	462	455	471	493
500			516	508	499	489	513	506	489	515	531
560			568	581	574	563	590	538	563	566	584
630			649	646	624	612	641	641	655	651	671
700			704	712	725	712	737	760	727	723	757
800			798	808	812	797	836	811	789	783	809
900			912	891	899	882	924	888	940	904	946
10C			1015	1000	1045	1026	1062	1007	1028	980	1012
11C			1119	1102	1169	1147	1204	1102	1115	1171	1140
12C			1183	1267	1231	1208	1267	1246	1190	1268	1226
14C			1423	1427	1477	1449	1521	1470	1477	1470	1519
16C			1583	1606	1577	1548	1720	1659	1641	1634	1712
18C			1800	1784	1777	1744	1938	1817	1741	1754	1811
20C			2000	2250	1957	1920	1994	2011	1935	1949	2042
22C			2250	2265	2205	2164	2246	2202	2118	2134	2236
25C			2579	2463	2563	2515	2611	2699	2596	2561	2683
28C			2699	2799	2847	2794	2934	2821	2733	2779	2887
32C			3094	3360	3310	3248	3411	3147	2992	3044	3162
36C			3516	3548	3757	3686	3871	3853	3667	3652	3794
40C			4007	3998	4056	3981	4093	4237	4048	4208	4226
45C			4554	4543	4604	4518	4646	4722	4512	4842	4862
50C			4826	4647	5131	5036	5281	5157	5060	5380	5110
56C			5485	5281	5234	5136	5345	5296	5793	5845	5879
63C			6286	5994	5833	5725	6076	5783	6207	6548	6657
71C			7144	6815	6542	6420	6752	6660	6980	7276	7083

SERIES K

SELECTION TABLES

GEARED MOTORS

0.25 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	
207	8.33	73	15.97	908	K 0 3 3 2 8 . 0 _ N _ _ _ _ . 2 5 B - -	55.5	56C
153	11.25	98	13.32	1002	1 1 .		
135	12.80	113	12.21	1045	1 2 .		
119	14.50	128	11.32	1088	1 4 .		
93	18.54	163	9.62	1175	1 8 .		
86	19.98	176	9.15	1204	2 0 .		
68	25.23	222	7.72	1297	2 5 .		
60	28.60	252	7.03	1348	2 8 .		
53	32.68	287	6.40	1348	3 2 .		
47	36.35	318	5.92	1348	3 6 .		
43	40.08	350	5.50	1348	4 0 .		
39	44.11	388	5.10	1348	4 5 .		
33	51.68	454	4.38	1348	5 0 .		
28	62.00	545	3.65	1348	6 3 .		
24	72.27	635	3.14	1348	7 1 .		
21	80.30	703	2.83	1348	8 0 .		
18	96.70	848	1.94	1348	1 0 0		
16	110.83	967	1.45	1348	1 1 2		
14	125.96	1104	1.26	1348	1 2 5		
13	127.79	1068	1.86	1348	K 0 3 5 2 1 2 5 _ N _ _ _ _ . 2 5 B - -	75.3	56C
12	145.34	1216	1.64	1348	1 4 0		
10	164.66	1378	1.44	1348	1 6 0		
8.2	210.58	1765	1.13	1348	2 0 0		
7.6	226.95	1903	1.04	1348	2 5 0		
6	286.52	2406	0.83	1348	2 8 0		
16	105.69	923	3.95	1348	K 0 4 3 2 1 1 2 _ N _ _ _ _ . 2 5 B - -	68.7	56C
14	120.15	1048	3.72	1348	1 2 5		
13	134.38	1132	3.45	1348	K 0 4 5 2 1 2 5 _ N _ _ _ _ . 2 5 B - -	86.3	56C
12	147.98	1243	3.14	1348	1 4 0		
10	170.21	1422	2.75	1348	1 6 0		
8.6	199.90	1681	2.32	1348	2 0 0		
6.7	257.59	2168	1.80	1348	2 5 0		
6.1	284.33	2370	1.65	1348	2 8 0		
5.4	322.40	2721	1.44	1348	3 2 0		
4.9	355.03	2991	1.31	1348	3 6 0		
4.2	407.03	3438	1.14	1348	4 0 0		
3.8	448.23	3780	1.03	1348	4 5 0		
3.4	508.14	4288	0.91	1348	5 0 0		
8.3	207.81	1755	3.32	1695	K 0 5 5 2 2 0 0 _ N _ _ _ _ . 2 5 B - -	117.2	56C
6.5	263.94	2231	2.61	1695	2 5 0		
5.8	299.85	2536	2.30	1695	2 8 0		
5.5	316.40	2690	2.17	1695	3 2 0		
4.9	350.92	2984	1.95	1695	3 6 0		
4.3	398.66	3392	1.72	1695	4 0 0		
3.8	452.95	3849	1.51	1695	4 5 0		
3.5	498.80	4245	1.37	1695	5 0 0		
3	573.74	4882	1.19	1695	5 6 0		
2.8	623.76	5307	1.10	1695	6 3 0		
2.4	725.48	6152	0.95	1695	7 0 0		
2.1	811.69	6856	0.85	1695	8 0 0		
6.7	259.02	2204	3.32	1798	K 0 6 5 2 2 5 0 _ N _ _ _ _ . 2 5 B - -	134.8	56C
5.9	294.26	2505	2.92	1798	2 8 0		
5.6	310.50	2655	2.75	1798	3 2 0		
5	344.37	2945	2.48	1798	3 6 0		
4.4	391.23	3346	2.19	1798	4 0 0		
3.9	444.50	3797	1.93	1798	4 5 0		
3.5	489.49	4187	1.75	1798	5 0 0		
3.1	563.04	4814	1.52	1798	5 6 0		
2.8	612.13	5233	1.40	1798	6 3 0		
2.4	711.95	6069	1.21	1798	7 0 0		
2.2	796.55	6767	1.08	1798	8 0 0		
2	881.82	7521	0.97	1798	9 0 0		
1.7	1025.62	8728	0.84	1798	1 0 C		
3.7	465.77	4010	3.70	3372	K 0 7 5 2 4 5 0 _ N _ _ _ _ . 2 5 B - -	174.5	56C
3.4	512.91	4420	3.36	3372	5 0 0		
2.9	589.97	5080	2.92	3372	5 6 0		
2.7	641.41	5520	2.69	3372	6 3 0		
2.3	737.04	6333	2.35	3372	7 0 0		
2.1	835.78	7163	2.07	3372	8 0 0		
1.9	924.00	7926	1.87	3372	9 0 0		
1.6	1061.77	9095	1.63	3372	1 0 C		
1.4	1204.01	10289	1.44	3372	1 1 C		
1.4	1267.37	10826	1.37	3372	1 2 C		

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

SERIES K

SELECTION TABLES

GEARED MOTORS

0.25 HP	N2 R/MIN	i	M2 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 of base mount unit		
4 POLE 1750 rpm nominal input speed	2.3	759.86	6504	3.69	3523	K 0 8 5 2 7 0 0 _ N _ _ _ _ . 2 5 B - -	324.4	56C	
	2.1	811.29	6944	3.46	3523	8 0 0			
	1.9	887.84	7594	3.16	3523	9 0 0			
	1.7	1006.74	8610	2.79	3523	1 0 C			
	1.6	1101.73	9417	2.55	3523	1 1 C			
	1.4	1246.44	10631	2.26	3523	1 2 C			
	1.7	1027.68	8799	3.80	7643	K 0 9 5 1 1 0 C _ N _ _ _ _ . 2 5 B - -	452.3	56C	
	1.5	1114.56	9550	3.90	7643	1 1 C			
	1.4	1190.00	10194	3.66	7643	1 2 C			
	1.2	1476.68	12638	2.95	7643	1 4 C			
	1.1	1640.59	14016	2.66	7643	1 6 C			
	0.99	1741.31	14886	2.50	7643	1 8 C			
	0.89	1934.60	16512	2.26	7643	2 0 C			
	0.81	2118.35	18067	2.06	7643	2 2 C			
	0.66	2596.10	22096	1.69	7643	2 5 C			
	0.63	2732.70	23173	1.61	7643	2 8 C			
	0.33 HP	207	8.33	96	12.10	904	K 0 3 3 2 8 . 0 _ N _ _ _ _ . 3 3 B - -	57.5	56C
		153	11.25	130	10.09	994	1 1 .		
		135	12.80	149	9.25	1036	1 2 .		
		119	14.50	169	8.57	1077	1 4 .		
93		18.54	216	7.29	1162	1 8 .			
86		19.98	232	6.93	1190	2 0 .			
68		25.23	293	5.85	1278	2 5 .			
60		28.60	333	5.33	1328	2 8 .			
53		32.68	379	4.85	1328	3 2 .			
47		36.35	420	4.49	1328	3 6 .			
43		40.08	463	4.17	1328	4 0 .			
39		44.11	513	3.86	1328	4 5 .			
33		51.68	600	3.32	1338	5 0 .			
28		62.00	719	2.77	1340	6 3 .			
24		72.27	838	2.38	1348	7 1 .			
21		80.30	929	2.14	1348	8 0 .			
18		96.70	1119	1.47	1348	1 0 0			
16		110.83	1277	1.10	1348	1 1 2			
14		125.96	1457	0.95	1348	1 2 5			
13		127.79	1411	1.41	1348	K 0 3 5 2 1 2 5 _ N _ _ _ _ . 3 3 B - -	77.3	56C	
12		145.34	1605	1.24	1348	1 4 0			
10		164.66	1819	1.09	1348	1 6 0			
8.2		210.58	2330	0.85	1348	2 0 0			
19		93.12	1076	3.32	1348	K 0 4 3 2 1 0 0 _ N _ _ _ _ . 3 3 B - -	70.7	56C	
16		105.69	1218	2.99	1348	1 1 2			
14		120.15	1384	2.82	1348	1 2 5			
13		134.38	1494	2.61	1348	K 0 4 5 2 1 2 5 _ N _ _ _ _ . 3 3 B - -	88.3	56C	
12		147.98	1642	2.38	1348	1 4 0			
10		170.21	1877	2.08	1348	1 6 0			
8.6		199.90	2219	1.76	1348	2 0 0			
6.7		257.59	2862	1.37	1348	2 5 0			
6.1		284.33	3128	1.25	1348	2 8 0			
5.4		322.40	3592	1.09	1348	3 2 0			
4.9		355.03	3949	0.99	1348	3 6 0			
4.2		407.03	4539	0.86	1348	4 0 0			
14		122.20	1409	3.82	1785	K 0 5 3 2 1 2 5 _ N _ _ _ _ . 3 3 B - -	88.3	56C	
12		142.79	1599	3.64	1695	K 0 5 5 2 1 4 0 _ N _ _ _ _ . 3 3 B - -	119.2	56C	
11		157.35	1762	3.31	1695	1 6 0			
8.3		207.81	2316	2.52	1695	2 0 0			
6.5		263.94	2945	1.98	1695	2 5 0			
5.8		299.85	3347	1.74	1695	2 8 0			
5.5		316.40	3551	1.64	1695	3 2 0			
4.9		350.92	3940	1.48	1695	3 6 0			
4.3		398.66	4477	1.30	1695	4 0 0			
3.8		452.95	5081	1.15	1695	4 5 0			
3.5	498.80	5604	1.04	1695	5 0 0				
3.0	573.74	6445	0.90	1695	5 6 0				
2.8	623.76	7006	0.83	1695	6 3 0				
14	119.92	1381	3.82	1798	K 0 6 3 2 1 2 5 _ N _ _ _ _ . 3 3 B - -	106	56C		

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

SERIES K

SELECTION TABLES

GEARED MOTORS

0.33 HP	N2 R/MIN	i	M2 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 of base mount unit		
4 POLE 1750 rpm nominal input speed	8.5	203.93	2290	3.19	1798	K 0 6 5 2 2 0 0 _ N _ _ _ _ . 3 3 B - -	136.8	56C	
	6.7	259.02	2910	2.51	1798	2 5 0			
	5.9	294.26	3307	2.21	1798	2 8 0			
	5.6	310.50	3505	2.09	1798	3 2 0			
	5.0	344.37	3887	1.88	1798	3 6 0			
	4.4	391.23	4417	1.66	1798	4 0 0			
	3.9	444.50	5012	1.46	1798	4 5 0			
	3.5	489.49	5526	1.32	1798	5 0 0			
	3.1	563.04	6355	1.15	1798	5 6 0			
	2.8	612.13	6907	1.06	1798	6 3 0			
	2.4	711.95	8011	0.91	1798	7 0 0			
	2.2	796.55	8932	0.82	1798	8 0 0			
		4.6	373.86	4250	3.50	3372	K 0 7 5 2 3 6 0 _ N _ _ _ _ . 3 3 B - -	176.5	56C
		4.2	414.65	4712	3.15	3372	4 0 0		
		3.7	465.77	5293	2.81	3372	4 5 0		
		3.4	512.91	5835	2.55	3372	5 0 0		
		2.9	589.97	6706	2.22	3372	5 6 0		
		2.7	641.41	7287	2.04	3372	6 3 0		
		2.3	737.04	8360	1.78	3372	7 0 0		
		2.1	835.78	9455	1.57	3372	8 0 0		
		1.9	924.00	10462	1.42	3372	9 0 0		
		1.6	1061.77	12006	1.24	3372	1 0 C		
		1.4	1204.01	13582	1.09	3372	1 1 C		
		1.4	1267.37	14290	1.04	3372	1 2 C		
		3.2	537.67	6077	3.95	3523	K 0 8 5 2 5 6 0 _ N _ _ _ _ . 3 3 B - -	326.4	56C
	2.7	641.16	7247	3.31	3523	6 3 0			
	2.3	759.86	8586	2.79	3523	7 0 0			
	2.1	811.29	9166	2.62	3523	8 0 0			
	1.9	887.84	10024	2.39	3523	9 0 0			
	1.7	1006.74	11365	2.11	3523	1 0 C			
	1.6	1101.73	12431	1.93	3523	1 1 C			
	1.4	1246.44	14034	1.71	3523	1 2 C			
	1.8	940.44	10642	3.50	7643	K 0 9 5 1 9 0 0 _ N _ _ _ _ . 3 3 B - -	454.3	56C	
	1.7	1027.68	11615	2.88	7643	1 0 C			
	1.5	1114.56	12606	2.96	7643	1 1 C			
	1.4	1190.00	13457	2.77	7643	1 2 C			
	1.2	1476.68	16682	2.24	7643	1 4 C			
	1.1	1640.59	18502	2.02	7643	1 6 C			
	0.99	1741.31	19650	1.90	7643	1 8 C			
	0.89	1934.60	21796	1.71	7643	2 0 C			
	0.81	2118.35	23849	1.56	7643	2 2 C			
	0.66	2596.10	29167	1.28	7643	2 5 C			
	0.63	2732.70	30589	1.22	7643	2 8 C			

0.50 HP

4 POLE
1750 rpm
nominal
input speed

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

0.50 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	
18	97.76	1710	3.41	1744	K 0 5 3 2 1 0 0 _ N _ _ _ _ . 5 0 B - -	90.3	56C
16	108.96	1901	3.07	1785	1 1 2		
14	122.20	2135	2.52	1758	1 2 5		
15	118.40	1997	2.92	1695	K 0 5 5 2 1 2 5 _ N _ _ _ _ . 5 0 B - -	121.2	56C
12	142.79	2423	2.41	1695	1 4 0		
11	157.35	2670	2.18	1695	1 6 0		
8.3	207.81	3510	1.66	1695	2 0 0		
6.5	263.94	4462	1.31	1695	2 5 0		
5.8	299.85	5072	1.15	1695	2 8 0		
5.5	316.40	5381	1.08	1695	3 2 0		
4.9	350.92	5969	0.98	1695	3 6 0		
4.3	398.66	6784	0.86	1695	4 0 0		
16	106.93	1870	3.91	1798	K 0 6 3 2 1 1 2 _ N _ _ _ _ . 5 0 B - -	108	56C
14	119.92	2093	2.52	1798	1 2 5		
15	116.19	1974	3.70	1798	K 0 6 5 2 1 2 5 _ N _ _ _ _ . 5 0 B - -	138.8	56C
12	140.12	2393	3.06	1798	1 4 0		
11	154.41	2637	2.77	1798	1 6 0		
8.5	203.93	3470	2.11	1798	2 0 0		
6.7	259.02	4409	1.66	1798	2 5 0		
5.9	294.26	5011	1.46	1798	2 8 0		
5.6	310.50	5311	1.38	1798	3 2 0		
5	344.37	5890	1.24	1798	3 6 0		
4.4	391.23	6692	1.09	1798	4 0 0		
3.9	444.50	7594	0.96	1798	4 5 0		
3.5	489.49	8374	0.87	1798	5 0 0		
7.4	233.36	4028	3.69	3372	K 0 7 5 2 2 5 0 _ N _ _ _ _ . 5 0 B - -	178.5	56C
6.5	265.10	4576	3.25	3372	2 8 0		
5.7	304.63	5247	2.83	3372	3 2 0		
4.6	373.86	6439	2.31	3372	3 6 0		
4.2	414.65	7140	2.08	3372	4 0 0		
3.7	465.77	8020	1.85	3372	4 5 0		
3.4	512.91	8841	1.68	3372	5 0 0		
2.9	589.97	10161	1.46	3372	5 6 0		
2.7	641.41	11041	1.35	3372	6 3 0		
2.3	737.04	12667	1.17	3372	7 0 0		
2.1	835.78	14327	1.04	3372	8 0 0		
1.9	924.00	15852	0.94	3372	9 0 0		
1.6	1061.77	18191	0.82	3372	1 0 C		
3.7	462.28	7916	3.03	3523	K 0 8 5 2 4 5 0 _ N _ _ _ _ . 5 0 B - -	328.4	56C
3.4	505.90	8654	2.77	3523	5 0 0		
3.2	537.67	9208	2.61	3523	5 6 0		
2.7	641.16	10980	2.19	3523	6 3 0		
2.3	759.86	13009	1.84	3523	7 0 0		
2.1	811.29	13888	1.73	3523	8 0 0		
1.9	887.84	15188	1.58	3523	9 0 0		
1.7	1006.74	17220	1.39	3523	1 0 C		
1.6	1101.73	18835	1.27	3523	1 1 C		
1.4	1246.44	21263	1.13	3523	1 2 C		
3.1	562.75	9662	3.46	7643	K 0 9 5 1 5 6 0 _ N _ _ _ _ . 5 0 B - -	456.3	56C
2.6	654.52	11237	2.97	7643	6 3 0		
2.4	727.17	12458	2.68	7643	7 0 0		
2.2	788.65	13523	2.76	7643	8 0 0		
1.8	940.44	16124	2.31	7643	9 0 0		
1.7	1027.68	17599	1.90	7643	1 0 C		
1.5	1114.56	19101	1.95	7643	1 1 C		
1.4	1190.00	20389	1.83	7643	1 2 C		
1.2	1476.68	25276	1.48	7643	1 4 C		
1.1	1640.59	28033	1.33	7643	1 6 C		
0.99	1741.31	29772	1.25	7643	1 8 C		
0.89	1934.60	33024	1.13	7643	2 0 C		
0.81	2118.35	36135	1.03	7643	2 2 C		
0.66	2596.10	44193	0.84	7643	2 5 C		
0.63	2732.70	46347	0.80	7643	2 8 C		
1.5	1170.88	20064	3.29	11159	K 1 0 5 1 1 1 C _ N _ _ _ _ . 5 0 B - -	731.9	56C
1.4	1268.32	21753	3.43	11159	1 2 C		
1.2	1470.48	25204	2.96	11159	1 4 C		
1.1	1634.03	27959	2.67	11159	1 6 C		
0.98	1753.89	30032	2.48	11159	1 8 C		
0.88	1948.97	33319	2.24	11159	2 0 C		
0.8	2134.33	36465	2.05	11159	2 2 C		
0.67	2561.20	43675	1.71	11159	2 5 C		
0.62	2779.28	47260	1.58	11159	2 8 C		

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

SERIES K

SELECTION TABLES

GEARED MOTORS

0.50 HP	N2 R/MIN	i	M2 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 of base mount unit	
	0.95 0.84 0.77 0.64 0.59	1811.28 2041.68 2235.86 2683.03 2887.22	31030 34956 38252 45807 49061	3.79 3.37 3.08 2.57 2.40	16198 16198 16198 16198 16198	K 1 2 5 1 1 8 C 2 0 C 2 2 C 2 5 C 2 8 C	1084.6	56C
0.75 HP 4 POLE 1750 rpm nominal input speed	207	8.33	219	5.32	886	K 0 3 3 2 8 . 0 _ N _ _ _ _ . 7 5 B - -	62.5	56C
	153	11.25	296	4.44	952	1 1 .		
	135	12.80	339	4.07	988	1 2 .		
	119	14.50	384	3.77	1023	1 4 .		
	93	18.54	491	3.21	1092	1 8 .		
	86	19.98	528	3.05	1114	2 0 .		
	68	25.23	667	2.57	1183	2 5 .		
	60	28.60	758	2.34	1219	2 8 .		
	53	32.68	863	2.13	1222	3 2 .		
	47	36.35	955	1.97	1223	3 6 .		
	43	40.08	1052	1.83	1224	4 0 .		
	39	44.11	1166	1.70	1223	4 5 .		
	33	51.68	1364	1.46	1281	5 0 .		
	28	62.00	1635	1.22	1294	6 3 .		
	24	72.27	1905	1.05	1348	7 1 .		
	21	80.30	2111	0.94	1348	8 0 .		
	48	35.83	942	3.88	1315	K 0 4 3 2 3 6 . _ N _ _ _ _ . 7 5 B - -	75.7	56C
	44	39.46	1042	3.51	1312	4 0 .		
	38	45.39	1197	3.15	1348	4 5 .		
	35	49.35	1300	2.96	1348	5 0 .		
	29	59.24	1559	2.50	1348	6 3 .		
	24	71.09	1865	2.04	1348	7 1 .		
	22	80.10	2090	1.83	1348	8 0 .		
	19	93.12	2447	1.46	1348	1 0 0		
	16	105.69	2769	1.32	1348	1 1 2		
	14	120.15	3145	1.24	1348	1 2 5		
	13	134.38	3396	1.15	1348	K 0 4 5 2 1 2 5 _ N _ _ _ _ . 7 5 B - -	93.3	56C
	12	147.98	3731	1.05	1348	1 4 0		
	10	170.21	4267	0.92	1348	1 6 0		
	28	61.78	1627	3.58	1663	K 0 5 3 2 6 3 . _ N _ _ _ _ . 7 5 B - -	93.3	56C
	24	72.85	1924	3.03	1714	7 1 .		
	22	79.77	2094	2.78	1709	8 0 .		
	18	97.76	2565	2.27	1691	1 0 0		
	16	108.96	2852	2.04	1772	1 1 2		
	14	122.20	3203	1.68	1719	1 2 5		
	15	118.40	2995	1.95	1695	K 0 5 5 2 1 2 5 _ N _ _ _ _ . 7 5 B - -	124.2	56C
	12	142.79	3634	1.60	1695	1 4 0		
	11	157.35	4006	1.45	1695	1 6 0		
	8.3	207.81	5265	1.11	1695	2 0 0		
	6.5	263.94	6693	0.87	1695	2 5 0		
	24	71.49	1879	3.90	1798	K 0 6 3 2 7 1 . _ N _ _ _ _ . 7 5 B - -	111	56C
	22	78.28	2055	3.56	1798	8 0 .		
	18	95.93	2516	2.91	1798	1 0 0		
	16	106.93	2806	2.61	1798	1 1 2		
	14	119.92	3140	1.68	1798	1 2 5		
15	116.19	2962	2.47	1798	K 0 6 5 2 1 2 5 _ N _ _ _ _ . 7 5 B - -	141.8	56C	
12	140.12	3590	2.04	1798	1 4 0			
11	154.41	3956	1.85	1798	1 6 0			
8.5	203.93	5205	1.41	1798	2 0 0			
6.7	259.02	6614	1.11	1798	2 5 0			
5.9	294.26	7517	0.97	1798	2 8 0			
5.6	310.50	7966	0.92	1798	3 2 0			
5	344.37	8836	0.83	1798	3 6 0			
14	126.11	3284	3.72	3372	K 0 7 3 2 1 2 5 _ N _ _ _ _ . 7 5 B - -	152.9	56C	
12	147.09	3814	3.89	3372	K 0 7 5 2 1 6 0 _ N _ _ _ _ . 7 5 B - -	181.5	56C	
8.2	211.12	5455	2.72	3372	2 0 0			
7.4	233.36	6042	2.46	3372	2 5 0			
6.5	265.10	6864	2.16	3372	2 8 0			
5.7	304.63	7870	1.89	3372	3 2 0			
4.6	373.86	9659	1.54	3372	3 6 0			
4.2	414.65	10711	1.39	3372	4 0 0			
3.7	465.77	12030	1.23	3372	4 5 0			
3.4	512.91	13262	1.12	3372	5 0 0			
2.9	589.97	15242	0.97	3372	5 6 0			
2.7	641.41	16562	0.90	3372	6 3 0			

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

SERIES K

SELECTION TABLES

GEARED MOTORS

0.75 HP	N2 R/MIN	i	M2 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 of base mount unit	
4 POLE 1750 rpm nominal input speed	3.7	462.28	11874	2.02	3523	K 0 8 5 2 4 5 0 _ N _ _ _ _ . 7 5 B - -	331.4	56C
	3.4	505.90	12981	1.85	3523	5 0 0		
	3.2	537.67	13812	1.74	3523	5 6 0		
	2.7	641.16	16470	1.46	3523	6 3 0		
	2.3	759.86	19514	1.23	3523	7 0 0		
	2.1	811.29	20832	1.15	3523	8 0 0		
	1.9	887.84	22782	1.05	3523	9 0 0		
	1.7	1006.74	25830	0.93	3523	1 0 C		
	1.6	1101.73	28253	0.85	3523	1 1 C		
	3.1	562.75	14494	2.31	7643	K 0 9 5 1 5 6 0 _ N _ _ _ _ . 7 5 B - -	459.3	56C
	2.6	654.52	16856	1.98	7643	6 3 0		
	2.4	727.17	18687	1.79	7643	7 0 0		
	2.2	788.65	20284	1.84	7643	8 0 0		
	1.8	940.44	24186	1.54	7643	9 0 0		
	1.7	1027.68	26399	1.27	7643	1 0 C		
	1.5	1114.56	28651	1.30	7643	1 1 C		
	1.4	1190.00	30584	1.22	7643	1 2 C		
	1.2	1476.68	37915	0.98	7643	1 4 C		
	1.1	1640.59	42050	0.89	7643	1 6 C		
	0.99	1741.31	44659	0.83	7643	1 8 C		
2.7	650.62	16769	3.94	11159	K 1 0 5 1 6 3 0 _ N _ _ _ _ . 7 5 B - -	734.9	56C	
2.4	722.98	18596	3.55	11159	7 0 0			
2.2	783.15	20165	3.70	11159	8 0 0			
1.9	904.27	23256	2.84	11159	9 0 0			
1.8	979.53	25217	2.96	11159	1 0 C			
1.5	1170.88	30096	2.19	11159	1 1 C			
1.4	1268.32	32630	2.29	11159	1 2 C			
1.2	1470.48	37806	1.97	11159	1 4 C			
1.1	1634.03	41939	1.78	11159	1 6 C			
0.98	1753.89	45048	1.66	11159	1 8 C			
0.88	1948.97	49979	1.49	11159	2 0 C			
0.8	2134.33	54697	1.36	11159	2 2 C			
0.67	2561.20	65513	1.14	11159	2 5 C			
0.62	2779.28	70891	1.05	11159	2 8 C			
1.4	1225.51	31560	3.39	16198	K 1 2 5 1 1 2 C _ N _ _ _ _ . 7 5 B - -	1087.6	56C	
1.1	1518.59	39071	3.01	16198	1 4 C			
1	1711.76	44009	2.67	16198	1 6 C			
0.95	1811.28	46545	2.53	16198	1 8 C			
0.84	2041.68	52434	2.24	16198	2 0 C			
0.77	2235.86	57378	2.05	16198	2 2 C			
0.64	2683.03	68710	1.71	16198	2 5 C			
0.59	2887.22	73592	1.60	16198	2 8 C			
1.0 HP	207	8.33	292	3.99	876	K 0 3 3 2 8 . 0 _ N _ _ _ _ 1 . 0 B - -	67.5	143TC
	153	11.25	395	3.33	927	1 1 .		
	135	12.80	452	3.05	960	1 2 .		
	119	14.50	513	2.83	991	1 4 .		
	93	18.54	654	2.41	1050	1 8 .		
	86	19.98	704	2.29	1068	2 0 .		
	68	25.23	889	1.93	1126	2 5 .		
	60	28.60	1011	1.76	1154	2 8 .		
	53	32.68	1150	1.60	1158	3 2 .		
	47	36.35	1273	1.48	1161	3 6 .		
	43	40.08	1403	1.37	1162	4 0 .		
	39	44.11	1555	1.27	1161	4 5 .		
	33	51.68	1819	1.09	1247	5 0 .		
	28	62.00	2180	0.91	1267	6 3 .		
	69	25.03	880	3.69	1316	K 0 4 3 2 2 5 . _ N _ _ _ _ 1 . 0 B - -	80.7	143TC
	62	27.76	978	3.41	1318	2 8 .		
	55	31.54	1111	3.11	1318	3 2 .		
	48	35.83	1256	2.91	1298	3 6 .		
	44	39.46	1389	2.63	1293	4 0 .		
	38	45.39	1597	2.37	1348	4 5 .		
35	49.35	1733	2.22	1348	5 0 .			
29	59.24	2079	1.88	1348	6 3 .			
24	71.09	2487	1.53	1348	7 1 .			
22	80.10	2787	1.37	1348	8 0 .			
19	93.12	3263	1.10	1348	1 0 0			
16	105.69	3692	0.99	1348	1 1 2			
14	120.15	4194	0.93	1348	1 2 5			
13	134.38	4528	0.86	1348	K 0 4 5 2 1 2 5 _ N _ _ _ _ 1 . 0 B - -	98.3	143TC	

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

SERIES K

SELECTION TABLES

GEARED MOTORS

1.00 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	
44	39.34	1386	3.90	1527	K 0 5 3 2 4 0 . _ N _ _ _ _ 1 . 0 B - -	98.3	143TC
37	46.63	1644	3.42	1547	4 5 .		
35	49.78	1748	3.27	1536	5 0 .		
28	61.78	2170	2.68	1596	6 3 .		
24	72.85	2565	2.27	1672	7 1 .		
22	79.77	2792	2.09	1665	8 0 .		
18	97.76	3420	1.71	1638	1 0 0		
16	108.96	3803	1.53	1759	1 1 2		
14	122.20	4271	1.26	1679	1 2 5		
15	118.40	3994	1.46	1695	K 0 5 5 2 1 2 5 _ N _ _ _ _ 1 . 0 B - -	129.2	143TC
12	142.79	4846	1.20	1695	1 4 0		
11	157.35	5341	1.09	1695	1 6 0		
8.3	207.81	7021	0.83	1695	2 0 0		
28	60.62	2129	3.44	1788	K 0 6 3 2 6 3 . _ N _ _ _ _ 1 . 0 B - -	116	143TC
24	71.49	2505	2.92	1798	7 1 .		
22	78.28	2741	2.67	1798	8 0 .		
18	95.93	3355	2.18	1798	1 0 0		
16	106.93	3741	1.96	1798	1 1 2		
14	119.92	4187	1.26	1798	1 2 5		
15	116.19	3949	1.85	1798	K 0 6 5 2 1 2 5 _ N _ _ _ _ 1 . 0 B - -	146.8	143TC
12	140.12	4786	1.53	1798	1 4 0		
11	154.41	5275	1.39	1798	1 6 0		
8.5	203.93	6940	1.05	1798	2 0 0		
6.7	259.02	8819	0.83	1798	2 5 0		
15	113.50	3968	3.64	3300	K 0 7 3 2 1 1 2 _ N _ _ _ _ 1 . 0 B - -	157.9	143TC
14	126.11	4379	2.79	3372	1 2 5		
14	120.29	4142	3.59	3372	K 0 7 5 2 1 2 5 _ N _ _ _ _ 1 . 0 B - -	186.5	143TC
13	133.48	4615	3.22	3372	1 4 0		
12	147.09	5086	2.92	3372	1 6 0		
8.2	211.12	7273	2.04	3372	2 0 0		
7.4	233.36	8056	1.84	3372	2 5 0		
6.5	265.10	9152	1.62	3372	2 8 0		
5.7	304.63	10494	1.42	3372	3 2 0		
4.6	373.86	12879	1.15	3372	3 6 0		
4.2	414.65	14281	1.04	3372	4 0 0		
3.7	465.77	16040	0.93	3372	4 5 0		
3.4	512.91	17682	0.84	3372	5 0 0		
3.7	462.28	15833	1.52	3523	K 0 8 5 2 4 5 0 _ N _ _ _ _ 1 . 0 B - -	336.4	143TC
3.4	505.90	17309	1.39	3523	5 0 0		
3.2	537.67	18416	1.30	3523	5 6 0		
2.7	641.16	21961	1.09	3523	6 3 0		
2.3	759.86	26019	0.92	3523	7 0 0		
2.1	811.29	27776	0.86	3523	8 0 0		
3.1	562.75	19325	1.73	7643	K 0 9 5 1 5 6 0 _ N _ _ _ _ 1 . 0 B - -	464.3	143TC
2.6	654.52	22475	1.49	7643	6 3 0		
2.4	727.17	24916	1.34	7643	7 0 0		
2.2	788.65	27046	1.38	7643	8 0 0		
1.8	940.44	32248	1.16	7643	9 0 0		
1.7	1027.68	35199	0.95	7643	1 0 C		
1.5	1114.56	38202	0.98	7643	1 1 C		
1.4	1190.00	40779	0.91	7643	1 2 C		
3.4	514.73	17691	3.73	11159	K 1 0 5 1 5 0 0 _ N _ _ _ _ 1 . 0 B - -	739.9	143TC
3	566.20	19460	3.39	11159	5 6 0		
2.7	650.62	22359	2.95	11159	6 3 0		
2.4	722.98	24794	2.66	11159	7 0 0		
2.2	783.15	26887	2.77	11159	8 0 0		
1.9	904.27	31008	2.13	11159	9 0 0		
1.8	979.53	33622	2.22	11159	1 0 C		
1.5	1170.88	40128	1.65	11159	1 1 C		
1.4	1268.32	43506	1.71	11159	1 2 C		
1.2	1470.48	50408	1.48	11159	1 4 C		
1.1	1634.03	55918	1.33	11159	1 6 C		
0.98	1753.89	60064	1.24	11159	1 8 C		
0.88	1948.97	66639	1.12	11159	2 0 C		
0.8	2134.33	72930	1.02	11159	2 2 C		
0.67	2561.20	87351	0.85	11159	2 5 C		

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
1.00 HP	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	
4 POLE 1750 rpm nominal input speed	1.8	946.46	32530	3.29	16198	K 1 2 5 1 9 0 0 _ N _ _ _ _ 1 . 0 B - -	1092.6	143TC
	1.7	1011.58	34767	3.38	16198	1 0 C		
	1.5	1140.25	39153	3.01	16198	1 1 C		
	1.4	1225.51	42080	2.54	16198	1 2 C		
	1.1	1518.59	52095	2.26	16198	1 4 C		
	1	1711.76	58679	2.01	16198	1 6 C		
	0.95	1811.28	62061	1.90	16198	1 8 C		
	0.84	2041.68	69912	1.68	16198	2 0 C		
	0.77	2235.86	76504	1.54	16198	2 2 C		
	0.64	2683.03	91614	1.28	16198	2 5 C		
0.59	2887.22	98123	1.20	16198	2 8 C			
1.5 HP	207	8.33	438	2.66	854	K 0 3 3 2 8 . 0 _ N _ _ _ _ 1 . 5 B - -	71.5	145TC
	153	11.25	593	2.22	878	1 1 .		
	135	12.80	678	2.04	903	1 2 .		
	119	14.50	769	1.89	926	1 4 .		
	93	18.54	982	1.60	966	1 8 .		
	86	19.98	1056	1.52	978	2 0 .		
	68	25.23	1334	1.29	1012	2 5 .		
	60	28.60	1517	1.17	1025	2 8 .		
	53	32.68	1726	1.07	1032	3 2 .		
	47	36.35	1910	0.99	1036	3 6 .		
	43	40.08	2105	0.92	1039	4 0 .		
	39	44.11	2333	0.85	1036	4 5 .		
	139	12.45	656	3.95	1224	K 0 4 3 2 1 2 . _ N _ _ _ _ 1 . 5 B - -	84.7	145TC
	122	14.14	748	3.63	1260	1 4 .		
	96	17.95	947	3.10	1308	1 8 .		
	85	20.40	1079	2.84	1312	2 0 .		
	69	25.03	1321	2.46	1295	2 5 .		
	62	27.76	1467	2.27	1297	2 8 .		
	55	31.54	1666	2.07	1297	3 2 .		
	48	35.83	1885	1.94	1265	3 6 .		
	44	39.46	2084	1.75	1257	4 0 .		
	38	45.39	2395	1.58	1348	4 5 .		
	35	49.35	2600	1.48	1348	5 0 .		
	29	59.24	3119	1.25	1348	6 3 .		
	24	71.09	3731	1.02	1348	7 1 .		
	22	80.10	4181	0.92	1348	8 0 .		
	61	28.37	1498	3.33	1331	K 0 5 3 2 2 8 . _ N _ _ _ _ 1 . 5 B - -	102.3	145TC
	52	32.99	1746	2.97	1343	3 2 .		
	47	36.91	1948	2.79	1449	3 6 .		
	44	39.34	2080	2.60	1456	4 0 .		
	37	46.63	2466	2.28	1379	4 5 .		
	35	49.78	2622	2.18	1362	5 0 .		
	28	61.78	3255	1.79	1461	6 3 .		
	24	72.85	3848	1.52	1587	7 1 .		
	22	79.77	4189	1.39	1576	8 0 .		
	18	97.76	5130	1.14	1531	1 0 0		
	16	108.96	5705	1.02	1733	1 1 2		
	14	122.20	6407	0.84	1600	1 2 5		
	15	118.40	5991	0.97	1695	K 0 5 5 2 1 2 5 _ N _ _ _ _ 1 . 5 B - -	133.2	145TC
	12	142.79	7269	0.80	1695	1 4 0		
	48	36.22	1911	3.82	1610	K 0 6 3 2 3 6 . _ N _ _ _ _ 1 . 5 B - -	120	145TC
	45	38.61	2038	3.59	1597	4 0 .		
	38	45.76	2414	3.03	1556	4 5 .		
	35	48.86	2579	2.84	1798	5 0 .		
	28	60.62	3194	2.29	1781	6 3 .		
24	71.49	3758	1.95	1798	7 1 .			
22	78.28	4111	1.78	1798	8 0 .			
18	95.93	5033	1.45	1798	1 0 0			
16	106.93	5612	1.30	1798	1 1 2			
14	119.92	6281	0.84	1798	1 2 5			
15	116.19	5924	1.23	1798	K 0 6 5 2 1 2 5 _ N _ _ _ _ 1 . 5 B - -	150.8	145TC	
12	140.12	7180	1.02	1798	1 4 0			
11	154.41	7913	0.92	1798	1 6 0			
23	75.07	3951	3.76	3182	K 0 7 3 2 7 1 . _ N _ _ _ _ 1 . 5 B - -	161.9	145TC	
21	82.21	4315	3.45	3172	8 0 .			
17	98.65	5175	2.87	3142	1 0 0			
15	113.50	5953	2.42	3228	1 1 2			
14	126.11	6568	1.86	3372	1 2 5			

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

1.50 HP	N2 R/MIN	i	M2 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 of base mount unit		
4 POLE 1750 rpm nominal input speed	14	120.29	6213	2.39	3372	K 0 7 5 2 1 2 5 _ N _ _ _ _ 1 . 5 B - -	192.7	145TC	
	13	133.48	6923	2.15	3372	1 4 0			
	12	147.09	7629	1.95	3372	1 6 0			
	8.2	211.12	10910	1.36	3372	2 0 0			
	7.4	233.36	12084	1.23	3372	2 5 0			
	6.5	265.10	13728	1.08	3372	2 8 0			
	5.7	304.63	15741	0.94	3372	3 2 0			
	14	123.33	6439	3.68	4662	K 0 8 3 2 1 2 5 _ N _ _ _ _ 1 . 5 B - -	289.7	145TC	
	3.7	462.28	23749	1.01	3523	K 0 8 5 2 4 5 0 _ N _ _ _ _ 1 . 5 B - -	340.4	145TC	
	3.4	505.90	25963	0.92	3523	5 0 0			
	3.2	537.67	27624	0.87	3523	5 6 0			
	3.1	562.75	28988	1.15	7643	K 0 9 5 1 5 6 0 _ N _ _ _ _ 1 . 5 B - -	468.3	145TC	
	2.6	654.52	33713	0.99	7643	6 3 0			
	2.4	727.17	37375	0.89	7643	7 0 0			
	2.2	788.65	40569	0.92	7643	8 0 0			
	3.4	514.73	26537	2.49	11159	K 1 0 5 1 5 0 0 _ N _ _ _ _ 1 . 5 B - -	743.9	145TC	
	3	566.20	29190	2.26	11159	5 6 0			
	2.7	650.62	33539	1.97	11159	6 3 0			
	2.4	722.98	37192	1.78	11159	7 0 0			
	2.2	783.15	40331	1.85	11159	8 0 0			
	1.9	904.27	46512	1.42	11159	9 0 0			
	1.8	979.53	50434	1.48	11159	1 0 C			
	1.5	1170.88	60192	1.10	11159	1 1 C			
	1.4	1268.32	65260	1.14	11159	1 2 C			
	1.2	1470.48	75612	0.99	11159	1 4 C			
	1.1	1634.03	83878	0.89	11159	1 6 C			
	0.98	1753.89	90096	0.83	11159	1 8 C			
	3.2	531.11	27433	3.90	16198	K 1 2 5 1 5 0 0 _ N _ _ _ _ 1 . 5 B - -	1096.6	145TC	
	3	584.22	30173	3.55	16198	5 6 0			
	2.6	671.32	34660	3.09	16198	6 3 0			
	2.3	756.72	39032	2.74	16198	7 0 0			
	2.1	808.78	41719	2.82	16198	8 0 0			
	1.8	946.46	48795	2.19	16198	9 0 0			
	1.7	1011.58	52151	2.26	16198	1 0 C			
	1.5	1140.25	58730	2.00	16198	1 1 C			
	1.4	1225.51	63120	1.70	16198	1 2 C			
	1.1	1518.59	78142	1.51	16198	1 4 C			
	1	1711.76	88019	1.34	16198	1 6 C			
	0.95	1811.28	93091	1.26	16198	1 8 C			
	0.84	2041.68	104869	1.12	16198	2 0 C			
	0.77	2235.86	114756	1.03	16198	2 2 C			
	0.64	2683.03	137421	0.86	16198	2 5 C			
	2.00 HP 4 POLE 1750 rpm nominal input speed	207	8.33	585	2.00	833	K 0 3 3 2 8 . 0 _ N _ _ _ _ 2 . 0 B - -	78.5	145TC
		153	11.25	791	1.67	828	1 1 .		
		135	12.80	904	1.53	846	1 2 .		
		119	14.50	1026	1.41	862	1 4 .		
		93	18.54	1309	1.20	883	1 8 .		
		86	19.98	1408	1.14	887	2 0 .		
		68	25.23	1779	0.96	898	2 5 .		
		60	28.60	2023	0.88	896	2 8 .		
214		8.05	566	3.86	1076	K 0 4 3 2 8 . 0 _ N _ _ _ _ 2 . 0 B - -	91.7	145TC	
153		11.30	794	3.15	1158	1 1 .			
139		12.45	875	2.96	1210	1 2 .			
122		14.14	997	2.72	1245	1 4 .			
96		17.95	1263	2.33	1291	1 8 .			
85		20.40	1438	2.13	1298	2 0 .			
69		25.03	1761	1.84	1274	2 5 .			
62		27.76	1956	1.71	1277	2 8 .			
55		31.54	2222	1.55	1277	3 2 .			
48		35.83	2513	1.45	1231	3 6 .			
44		39.46	2779	1.32	1220	4 0 .			
38		45.39	3194	1.18	1348	4 5 .			
35		49.35	3467	1.11	1348	5 0 .			
29		59.24	4158	0.94	1348	6 3 .			
NOTE Other output speeds are available using 2 and 6 pole motors - Consult Application Engineering		61	28.37	1998	2.50	1249	K 0 5 3 2 2 8 . _ N _ _ _ _ 2 . 0 B - -	109.3	145TC
		52	32.99	2328	2.23	1248	3 2 .		
		47	36.91	2597	2.10	1382	3 6 .		
	44	39.34	2773	1.95	1385	4 0 .			
	37	46.63	3288	1.71	1212	4 5 .			
	35	49.78	3496	1.63	1188	5 0 .			
	28	61.78	4340	1.34	1326	6 3 .			
	24	72.85	5130	1.14	1503	7 1 .			
	22	79.77	5585	1.04	1487	8 0 .			
	18	97.76	6840	0.85	1424	1 0 0			

SERIES K

SELECTION TABLES

GEARED MOTORS

2.00 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	
62	27.84	1961	3.69	1588	K 0 6 3 2 2 8 . _ _ N _ _ _ _ 2 . 0 B - -	127	145TC
53	32.38	2280	3.21	1560	3 2 .		
48	36.22	2548	2.87	1535	3 6 .		
45	38.61	2717	2.69	1516	4 0 .		
38	45.76	3219	2.27	1459	4 5 .		
35	48.86	3439	2.13	1798	5 0 .		
28	60.62	4259	1.72	1774	6 3 .		
24	71.49	5011	1.46	1798	7 1 .		
22	78.28	5482	1.34	1798	8 0 .		
18	95.93	6711	1.09	1798	1 0 0		
16	106.93	7482	0.98	1798	1 1 2		
15	116.19	7899	0.93	1798	K 0 6 5 2 1 2 5 _ _ N _ _ _ _ 2 . 0 B - -	157.8	145TC
32	54.28	3813	3.90	3090	K 0 7 3 2 5 0 . _ _ N _ _ _ _ 2 . 0 B - -	168.9	145TC
27	62.94	4419	3.36	3064	6 3 .		
23	75.07	5268	2.82	3087	7 1 .		
21	82.21	5753	2.58	3072	8 0 .		
17	98.65	6901	2.15	3027	1 0 0		
15	113.50	7937	1.82	3156	1 1 2		
14	126.11	8758	1.39	3372	1 2 5		
14	120.29	8284	1.79	3372	K 0 7 5 2 1 2 5 _ _ N _ _ _ _ 2 . 0 B - -	199.7	145TC
13	133.48	9231	1.61	3372	1 4 0		
12	147.09	10172	1.46	3372	1 6 0		
8.2	211.12	14546	1.02	3372	2 0 0		
7.4	233.36	16113	0.92	3372	2 5 0		
6.5	265.10	18304	0.81	3372	2 8 0		
18	98.08	6862	3.46	4508	K 0 8 3 2 1 0 0 _ _ N _ _ _ _ 2 . 0 B - -	296.7	145TC
16	107.10	7492	3.17	4490	1 1 2		
14	123.33	8585	2.76	4490	1 2 5		
3.1	562.75	38651	0.86	7643	K 0 9 5 1 5 6 0 _ _ N _ _ _ _ 2 . 0 B - -	475.3	145TC
3.4	514.73	35382	1.87	11159	K 1 0 5 1 5 0 0 _ _ N _ _ _ _ 2 . 0 B - -	750.9	145TC
3	566.20	38921	1.70	11159	5 6 0		
2.7	650.62	44718	1.48	11159	6 3 0		
2.4	722.98	49589	1.33	11159	7 0 0		
2.2	783.15	53775	1.39	11159	8 0 0		
1.9	904.27	62016	1.07	11159	9 0 0		
1.8	979.53	67245	1.11	11159	1 0 C		
1.5	1170.88	80256	0.82	11159	1 1 C		
1.4	1268.32	87013	0.86	11159	1 2 C		
3.2	531.11	36578	2.93	16198	K 1 2 5 1 5 0 0 _ _ N _ _ _ _ 2 . 0 B - -	1103.6	145TC
3	584.22	40231	2.66	16198	5 6 0		
2.6	671.32	46214	2.32	16198	6 3 0		
2.3	756.72	52042	2.06	16198	7 0 0		
2.1	808.78	55626	2.12	16198	8 0 0		
1.8	946.46	65060	1.65	16198	9 0 0		
1.7	1011.58	69535	1.69	16198	1 0 C		
1.5	1140.25	78307	1.50	16198	1 1 C		
1.4	1225.51	84161	1.27	16198	1 2 C		
1.1	1518.59	104190	1.13	16198	1 4 C		
1	1711.76	117359	1.00	16198	1 6 C		
0.95	1811.28	124122	0.95	16198	1 8 C		
0.84	2041.68	139825	0.84	16198	2 0 C		

3.00 HP

4 POLE
1750 rpm
nominal
input speed

NOTE

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

207	8.33	877	1.33	791	K 0 3 3 2 8 . 0 _ _ N _ _ _ _ 3 . 0 B - -	98.5	182TC
153	11.25	1187	1.11	728	1 1 .		
135	12.80	1356	1.02	733	1 2 .		
119	14.50	1539	0.94	733	1 4 .		
214	8.05	849	2.57	1064	K 0 4 3 2 8 . 0 _ _ N _ _ _ _ 3 . 0 B - -	113.9	182TC
153	11.30	1191	2.10	1141	1 1 .		
139	12.45	1313	1.97	1183	1 2 .		
122	14.14	1496	1.82	1214	1 4 .		
96	17.95	1894	1.55	1259	1 8 .		
85	20.40	2158	1.42	1269	2 0 .		
69	25.03	2642	1.23	1232	2 5 .		
62	27.76	2935	1.14	1236	2 8 .		
55	31.54	3333	1.04	1236	3 2 .		

SERIES K

SELECTION TABLES

GEARED MOTORS

3.00 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	Motor Size
213	8.11	854	3.90	1047	K 0 5 3 2 8 . 0 _ N _ _ _ _ 3 . 0 B - -	144.8	182TC
151	11.40	1205	3.17	1108	1 1 .		
135	12.78	1350	2.94	1131	1 2 .		
120	14.35	1517	2.72	1153	1 4 .		
95	18.22	1924	2.31	1191	1 8 .		
84	20.66	2181	2.10	1205	2 0 .		
70	24.64	2607	1.85	1221	2 5 .		
61	28.37	2997	1.67	1084	2 8 .		
52	32.99	3492	1.48	1057	3 2 .		
47	36.91	3896	1.40	1249	3 6 .		
44	39.34	4160	1.30	1242	4 0 .		
37	46.63	4932	1.14	878	4 5 .		
35	49.78	5245	1.09	839	5 0 .		
28	61.78	6510	0.89	1057	6 3 .		
123	14.08	1488	3.98	1630	K 0 6 3 2 1 4 . _ N _ _ _ _ 3 . 0 B - -	162.4	182TC
96	17.88	1893	3.39	1798	1 8 .		
85	20.27	2143	3.09	1798	2 0 .		
71	24.18	2557	2.73	1798	2 5 .		
62	27.84	2942	2.46	1467	2 8 .		
53	32.38	3420	2.14	1425	3 2 .		
48	36.22	3823	1.91	1384	3 6 .		
45	38.61	4076	1.79	1356	4 0 .		
38	45.76	4829	1.52	1266	4 5 .		
35	48.86	5158	1.42	1798	5 0 .		
28	60.62	6389	1.15	1760	6 3 .		
24	71.49	7516	0.97	1798	7 1 .		
22	78.28	8223	0.89	1798	8 0 .		
51	33.52	3544	3.82	2348	K 0 7 3 2 3 2 . _ N _ _ _ _ 3 . 0 B - -	202.1	182TC
45	38.01	3997	3.54	2611	3 6 .		
41	41.92	4405	3.23	2629	4 0 .		
36	48.01	5051	2.93	2794	4 5 .		
32	54.28	5719	2.60	2902	5 0 .		
27	62.94	6629	2.24	2859	6 3 .		
23	75.07	7903	1.88	2897	7 1 .		
21	82.21	8630	1.72	2872	8 0 .		
17	98.65	10351	1.44	2797	1 0 0		
15	113.50	11906	1.21	3012	1 1 2		
14	126.11	13137	0.93	3372	1 2 5		
14	120.29	12427	1.20	3372	K 0 7 5 2 1 2 5 _ N _ _ _ _ 3 . 0 B - -	219.7	182TC
13	133.48	13846	1.07	3372	1 4 0		
12	147.09	15258	0.97	3372	1 6 0		
28	62.47	6565	3.61	3804	K 0 8 3 2 6 3 . _ N _ _ _ _ 3 . 0 B - -	325.6	182TC
24	72.86	7646	3.10	3871	7 1 .		
22	80.03	8398	2.82	3894	8 0 .		
18	98.08	10293	2.30	4182	1 0 0		
16	107.10	11238	2.11	4148	1 1 2		
14	123.33	12878	1.84	4148	1 2 5		
13	132.19	13570	1.77	3523	K 0 8 5 2 1 2 5 _ N _ _ _ _ 3 . 0 B - -	382.9	182TC
12	144.67	14830	1.62	3523	1 4 0		
11	163.67	16719	1.44	3523	1 6 0		
8.5	203.40	20854	1.15	3523	2 0 0		
6.7	255.90	26241	0.91	3523	2 5 0		
18	93.71	9810	3.80	7643	K 0 9 3 1 1 0 0 _ N _ _ _ _ 3 . 0 B - -	449	182TC
16	106.99	11215	2.98	7643	1 1 2		
14	120.31	12591	2.66	7643	1 2 5		
13	128.92	13465	2.77	7643	1 4 0		
12	144.96	15101	2.47	7643	1 6 0		
11	160.93	16573	2.02	7643	K 0 9 5 1 1 6 0 _ N _ _ _ _ 3 . 0 B - -	510.7	182TC
7.6	226.25	23303	1.43	7643	2 0 0		
6.8	253.59	26120	1.28	7643	2 5 0		
6.1	281.74	28944	1.15	7643	2 8 0		
5.5	316.25	32492	1.03	7643	3 2 0		
4.8	361.50	37239	0.90	7643	3 6 0		
4.3	401.62	41270	0.81	7643	4 0 0		
3.4	514.73	53074	1.24	11159	K 1 0 5 1 5 0 0 _ N _ _ _ _ 3 . 0 B - -	784.1	182TC
3	566.20	58381	1.13	11159	5 6 0		
2.7	650.62	67078	0.98	11159	6 3 0		
2.4	722.98	74384	0.89	11159	7 0 0		
2.2	783.15	80663	0.92	11159	8 0 0		

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

SERIES K

SELECTION TABLES

GEARED MOTORS

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
3.00 HP	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	
4 POLE 1750 rpm nominal input speed	3.2	531.11	54867	1.95	16198	K 1 2 5 1 5 0 0 _ N _ _ _ _ 3 . 0 B - -	1136.8	182TC
	3	584.22	60346	1.77	16198	5 6 0		
	2.6	671.32	69321	1.54	16198	6 3 0		
	2.3	756.72	78064	1.37	16198	7 0 0		
	2.1	808.78	83439	1.41	16198	8 0 0		
	1.8	946.46	97590	1.10	16198	9 0 0		
	1.7	1011.58	104303	1.13	16198	1 0 C		
	1.5	1140.25	117460	1.00	16198	1 1 C		
	1.4	1225.51	126241	0.85	16198	1 2 C		
	5.00 HP 4 POLE 1750 rpm nominal input speed	214	8.05	1415	1.54	1040	K 0 4 3 2 8 . 0 _ N _ _ _ _ 5 . 0 B - -	127.9
153		11.30	1986	1.26	1108	1 1 .		
139		12.45	2189	1.18	1128	1 2 .		
122		14.14	2494	1.09	1153	1 4 .		
96		17.95	3157	0.93	1193	1 8 .		
85		20.40	3597	0.85	1211	2 0 .		
213		8.11	1424	2.34	977	K 0 5 3 2 8 . 0 _ N _ _ _ _ 5 . 0 B - -	158.8	184TC
151		11.40	2008	1.90	1009	1 1 .		
135		12.78	2250	1.77	1020	1 2 .		
120		14.35	2529	1.63	1028	1 4 .		
95		18.22	3207	1.39	945	1 8 .		
84		20.66	3635	1.26	927	2 0 .		
70		24.64	4346	1.11	814	2 5 .		
61		28.37	4995	1.00	755	2 8 .		
52		32.99	5821	0.89	674	3 2 .		
47		36.91	6494	0.84	982	3 6 .		
217		7.96	1399	3.38	1378	K 0 6 3 2 8 . 0 _ N _ _ _ _ 5 . 0 B - -	176.4	184TC
154		11.19	1967	2.78	1487	1 1 .		
138		12.54	2211	2.58	1517	1 2 .		
123		14.08	2481	2.39	1546	1 4 .		
96		17.88	3156	2.03	1665	1 8 .		
85		20.27	3571	1.86	1660	2 0 .		
71		24.18	4261	1.64	1649	2 5 .		
62		27.84	4904	1.48	1227	2 8 .		
53		32.38	5701	1.28	1153	3 2 .		
48		36.22	6371	1.15	1083	3 6 .		
45		38.61	6794	1.08	1034	4 0 .		
38		45.76	8048	0.91	879	4 5 .		
35		48.86	8598	0.85	1798	5 0 .		
65		26.52	4680	2.72	2024	K 0 7 3 2 2 5 . _ N _ _ _ _ 5 . 0 B - -	216.1	184TC
59		29.17	5115	2.54	2003	2 8 .		
51		33.52	5907	2.29	1960	3 2 .		
45		38.01	6662	2.13	2237	3 6 .		
41		41.92	7343	1.94	2214	4 0 .		
36		48.01	8419	1.76	2439	4 5 .		
32		54.28	9532	1.56	2526	5 0 .		
27		62.94	11049	1.35	2449	6 3 .		
23		75.07	13171	1.13	2518	7 1 .		
21		82.21	14384	1.03	2473	8 0 .		
17		98.65	17252	0.86	2338	1 0 0		
52		33.24	5812	3.81	3066	K 0 8 3 2 3 2 . _ N _ _ _ _ 5 . 0 B - -	339.6	184TC
47		36.88	6445	3.54	2880	3 6 .		
43		40.36	7097	3.30	2898	4 0 .		
38		45.66	8010	2.96	3097	4 5 .		
33		51.54	9035	2.63	3471	5 0 .		
28		62.47	10941	2.17	3404	6 3 .		
24		72.86	12744	1.86	3403	7 1 .		
22		80.03	13997	1.69	3383	8 0 .		
18		98.08	17155	1.38	3532	1 0 0		
16		107.10	18731	1.27	3463	1 1 2		
14		123.33	21464	1.11	3462	1 2 5		
13		132.19	22617	1.06	3523	K 0 8 5 2 1 2 5 _ N _ _ _ _ 5 . 0 B - -	396.9	184TC
12	144.67	24716	0.97	3523	1 4 0			
11	163.67	27865	0.86	3523	1 6 0			
35	49.87	8727	3.83	7643	K 0 9 3 1 5 0 . _ N _ _ _ _ 5 . 0 B - -	463	184TC	
32	54.09	9459	3.94	7643	5 6 .			
29	60.10	10518	3.54	7643	6 3 .			
24	70.45	12286	2.72	7643	7 1 .			
22	77.78	13636	2.45	7643	8 0 .			
20	84.89	14804	2.52	7643	9 0 .			
18	93.71	16350	2.28	7643	1 0 0			
16	106.99	18692	1.79	7643	1 1 2			
14	120.31	20986	1.59	7643	1 2 5			
13	128.92	22443	1.66	7643	1 4 0			
12	144.96	25168	1.48	7643	1 6 0			

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

	N2 R/MIN	i	M2 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 of base mount unit	
5.00 HP 4 POLE 1750 rpm nominal input speed	11	160.93	27622	1.21	7643	K 0 9 5 1 1 6 0 _ N _ _ _ _ 5 . 0 B - -	524.7	184TC
	7.6	226.25	38839	0.86	7643	2 0 0		
	17	99.70	17461	3.67	11210	K 1 0 3 1 1 0 0 _ N _ _ _ _ 5 . 0 B - -	738.6	184TC
	15	112.03	19573	3.28	11207	1 1 2		
	14	120.36	21105	3.04	11206	1 2 5		
	13	134.85	23564	2.72	11203	1 4 0		
	12	144.88	25230	2.54	11211	1 6 0		
	3.2	531.11	91446	1.17	16198	K 1 2 5 1 5 0 0 _ N _ _ _ _ 5 . 0 B - -	1150.8	184TC
	3	584.22	100578	1.06	16198	5 6 0		
	2.6	671.32	115536	0.93	16198	6 3 0		
2.3	756.72	130107	0.82	16198	7 0 0			
2.1	808.78	139065	0.85	16198	8 0 0			
7.5 HP 4 POLE 1750 rpm nominal input speed	213	8.11	2136	1.56	890	K 0 5 3 2 8 . 0 _ N _ _ _ _ 7 . 5 B - -	206.8	213TC
	151	11.40	3013	1.27	885	1 1 .		
	135	12.78	3375	1.18	882	1 2 .		
	120	14.35	3794	1.09	872	1 4 .		
	95	18.22	4810	0.92	638	1 8 .		
	84	20.66	5453	0.84	579	2 0 .		
	217	7.96	2098	2.26	1344	K 0 6 3 2 8 . 0 _ N _ _ _ _ 7 . 5 B - -	224.4	213TC
	154	11.19	2950	1.85	1404	1 1 .		
	138	12.54	3316	1.72	1424	1 2 .		
	123	14.08	3721	1.59	1442	1 4 .		
	96	17.88	4734	1.36	1497	1 8 .		
	85	20.27	5357	1.24	1487	2 0 .		
	71	24.18	6392	1.09	1463	2 5 .		
	201	8.60	2250	2.78	2059	K 0 7 3 2 8 . 0 _ N _ _ _ _ 7 . 5 B - -	264.1	213TC
	145	11.91	3127	2.78	2157	1 1 .		
	129	13.37	3527	2.78	2216	1 2 .		
	117	14.71	3870	2.77	2270	1 4 .		
	90	19.21	5099	2.29	2382	1 8 .		
	79	21.84	5787	2.08	2450	2 0 .		
	65	26.52	7020	1.82	1638	2 5 .		
	59	29.17	7673	1.70	1580	2 8 .		
	51	33.52	8861	1.53	1475	3 2 .		
	45	38.01	9993	1.42	1769	3 6 .		
	41	41.92	11014	1.29	1696	4 0 .		
	36	48.01	12629	1.17	1996	4 5 .		
	32	54.28	14299	1.04	2056	5 0 .		
	27	62.94	16574	0.90	1937	6 3 .		
	83	20.67	5454	3.68	2377	K 0 8 3 2 2 0 . _ N _ _ _ _ 7 . 5 B - -	387.6	213TC
	68	25.35	6695	3.12	2553	2 5 .		
	60	28.56	7517	2.84	2571	2 8 .		
	52	33.24	8718	2.54	2768	3 2 .		
	47	36.88	9668	2.36	2586	3 6 .		
	43	40.36	10646	2.20	2573	4 0 .		
	38	45.66	12016	1.97	2687	4 5 .		
	33	51.54	13553	1.75	3238	5 0 .		
	28	62.47	16412	1.45	2904	6 3 .		
	24	72.86	19116	1.24	2818	7 1 .		
	22	80.03	20995	1.13	2743	8 0 .		
	18	98.08	25732	0.92	2718	1 0 0		
	16	107.10	28096	0.84	2606	1 1 2		
	38	44.89	11790	2.84	7643	K 0 9 3 1 4 5 . _ N _ _ _ _ 7 . 5 B - -	511	213TC
	35	49.87	13091	2.56	7643	5 0 .		
	32	54.09	14188	2.63	7643	5 6 .		
	29	60.10	15777	2.36	7643	6 3 .		
	24	70.45	18429	1.82	7643	7 1 .		
22	77.78	20454	1.64	7643	8 0 .			
20	84.89	22207	1.68	7643	9 0 .			
18	93.71	24526	1.52	7643	1 0 0			
16	106.99	28038	1.19	7643	1 1 2			
14	120.31	31479	1.06	7643	1 2 5			
13	128.92	33664	1.11	7643	1 4 0			
12	144.96	37752	0.99	7643	1 6 0			

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

7.50 HP	N2 R/MIN	i	M2 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 of base mount unit	
4 POLE 1750 rpm nominal input speed	24	71.89	18962	3.38	11202	K 1 0 3 1 7 1 . _ _ N _ _ _ _ 7 . 5 B - -	786.6	213TC
	21	82.83	21800	2.94	11199	8 0 .		
	20	86.53	22754	2.82	11199	9 0 .		
	17	99.70	26192	2.45	11200	1 0 0		
	15	112.03	29360	2.19	11194	1 1 2		
	14	120.36	31658	2.03	11192	1 2 5		
	13	134.85	35347	1.82	11184	1 4 0		
	12	144.88	37845	1.70	11203	1 6 0		
	10	166.84	42986	1.54	11159	K 1 0 5 1 1 6 0 _ _ N _ _ _ _ 7 . 5 B - -	846.1	213TC
	7.5	231.10	59549	1.11	11159	2 0 0		
	6.6	259.60	66896	0.99	11159	2 5 0		
	6	285.44	73561	0.90	11159	2 8 0		
	5.4	317.19	81542	0.81	11159	3 2 0		
	15	113.79	29785	3.60	16249	K 1 2 3 1 1 1 2 _ _ N _ _ _ _ 7 . 5 B - -	1106.3	213TC
	14	121.06	31813	3.37	16246	1 2 5		
	13	137.09	35911	3.03	16257	1 4 0		
	12	145.85	38128	2.86	16258	1 6 0		
	10	172.15	44472	2.41	16198	K 1 2 5 1 1 6 0 _ _ N _ _ _ _ 7 . 5 B - -	1198.8	213TC
	6.4	268.79	69352	1.54	16198	2 0 0		
	7.2	238.46	61605	1.74	16198	2 5 0		
	5.7	301.94	77906	1.37	16198	2 8 0		
	5.2	331.99	85665	1.25	16198	3 2 0		
	4.5	384.70	99376	1.08	16198	3 6 0		
	3.9	437.38	112977	0.95	16198	4 0 0		
3.5	493.02	127203	0.84	16198	4 5 0			
10.0 HP	213	8.11	2849	1.17	802	K 0 5 3 2 8 . 0 _ _ N _ _ _ _ 1 0 . B - -	221.8	215TC
	151	11.40	4017	0.95	762	1 1 .		
	135	12.78	4500	0.88	744	1 2 .		
	120	14.35	5059	0.82	717	1 4 .		
	217	7.96	2798	1.69	1310	K 0 6 3 2 8 . 0 _ _ N _ _ _ _ 1 0 . B - -	239.4	215TC
	154	11.19	3934	1.39	1321	1 1 .		
	138	12.54	4422	1.29	1330	1 2 .		
	123	14.08	4962	1.19	1337	1 4 .		
	96	17.88	6312	1.02	1330	1 8 .		
	85	20.27	7143	0.93	1315	2 0 .		
	71	24.18	8523	0.82	1276	2 5 .		
	201	8.60	3000	2.09	1977	K 0 7 3 2 8 . 0 _ _ N _ _ _ _ 1 0 . B - -	279.1	215TC
	145	11.91	4169	2.09	2044	1 1 .		
	129	13.37	4703	2.09	2088	1 2 .		
	117	14.71	5160	2.08	2128	1 4 .		
	90	19.21	6798	1.72	2200	1 8 .		
	79	21.84	7717	1.56	2240	2 0 .		
	65	26.52	9360	1.36	1251	2 5 .		
	59	29.17	10231	1.27	1157	2 8 .		
	51	33.52	11815	1.15	991	3 2 .		
	45	38.01	13324	1.06	1301	3 6 .		
	41	41.92	14686	0.97	1177	4 0 .		
	36	48.01	16839	0.88	1553	4 5 .		
	135	12.80	4479	3.83	2205	K 0 8 3 2 1 2 . _ _ N _ _ _ _ 1 0 . B - -	402.6	215TC
	121	14.24	5009	3.62	2226	1 4 .		
	94	18.41	6462	3.04	2247	1 8 .		
	83	20.67	7272	2.76	2249	2 0 .		
	68	25.35	8927	2.34	2360	2 5 .		
	60	28.56	10022	2.13	2350	2 8 .		
	52	33.24	11624	1.90	2469	3 2 .		
	47	36.88	12891	1.77	2293	3 6 .		
	43	40.36	14194	1.65	2249	4 0 .		
	38	45.66	16021	1.48	2277	4 5 .		
	33	51.54	18070	1.31	3005	5 0 .		
	28	62.47	21883	1.08	2405	6 3 .		
	24	72.86	25489	0.93	2234	7 1 .		
	22	80.03	27994	0.85	2103	8 0 .		
	38	44.89	15720	2.13	7643	K 0 9 3 1 4 5 . _ _ N _ _ _ _ 1 0 . B - -	526	215TC
	35	49.87	17454	1.92	7643	5 0 .		
	32	54.09	18918	1.97	7643	5 6 .		
29	60.10	21036	1.77	7643	6 3 .			
24	70.45	24572	1.36	7643	7 1 .			
22	77.78	27273	1.23	7643	8 0 .			
20	84.89	29609	1.26	7643	9 0 .			
18	93.71	32701	1.14	7643	1 0 0			
16	106.99	37384	0.89	7643	1 1 2			

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

SERIES K

SELECTION TABLES

GEARED MOTORS

10.00 HP	N2 R/MIN	i	M2 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 of base mount unit	
							K 1 0 3 1 5 0 . _ N _ _ _ _ 1 0 . B - -	
4 POLE 1750 rpm nominal input speed	34	50.41	17716	3.62	11205			
	32	54.61	19111	3.36	11200			
	28	60.68	21291	3.01	11200			
	24	71.89	25283	2.54	11194			
	21	82.83	29067	2.21	11189			
	20	86.53	30339	2.11	11189			
	17	99.70	34923	1.84	11190			
	15	112.03	39147	1.64	11180			
	14	120.36	42211	1.52	11178			
	13	134.85	47129	1.36	11165			
	12	144.88	50461	1.27	11195			
	10	166.84	57315	1.15	11159			
	7.5	231.10	79399	0.83	11159			
	21	83.10	29038	3.69	16259			
	19	89.89	31314	3.48	16254			
	17	100.12	34896	3.12	16241			
	15	113.79	39714	2.70	16235			
	14	121.06	42417	2.52	16229			
	13	137.09	47881	2.27	16247			
	12	145.85	50837	2.14	16248			
10	172.15	59296	1.81	16198				
6.4	268.79	92469	1.16	16198				
7.2	238.46	82140	1.30	16198				
5.7	301.94	103874	1.03	16198				
5.2	331.99	114220	0.94	16198				
4.5	384.70	132501	0.81	16198				
15.0 HP	205	8.60	4410	1.42	1813			
	148	11.91	6130	1.42	1818			
	132	13.37	6915	1.42	1833			
	120	14.71	7586	1.41	1845			
	92	19.21	9995	1.17	1834			
	81	21.84	11345	1.06	1820			
	217	8.13	4192	2.85	2072			
	153	11.52	5938	2.74	2038			
	138	12.80	6585	2.61	2047			
	124	14.24	7364	2.46	2050			
	96	18.41	9501	2.07	2021			
	85	20.67	10691	1.88	1993			
	69	25.35	13125	1.59	1974			
	62	28.56	14735	1.45	1910			
	53	33.24	17089	1.29	1873			
	48	36.88	18952	1.20	1705			
	44	40.36	20868	1.12	1601			
	39	45.66	23554	1.01	1456			
	34	51.54	26567	0.89	2540			
	98	17.93	9243	3.25	7643			
	88	20.03	10319	2.98	7643			
	81	21.61	11122	3.18	7643			
	73	24.14	12426	2.91	7643			
	63	27.78	14342	2.30	7643			
	56	31.67	16348	2.04	7643			
	53	33.47	17195	2.17	7643			
	46	38.16	19640	1.90	7643			
	39	44.89	23111	1.45	7643			
	35	49.87	25661	1.30	7643			
	33	54.09	27813	1.34	7643			
	29	60.10	30927	1.20	7643			
	25	70.45	36125	0.93	7643			
	23	77.78	40096	0.83	7643			
	21	84.89	43531	0.86	7643			
	53	33.10	17114	3.75	11217			
	50	35.19	18159	3.53	11217			
	44	39.84	20566	3.12	11217			
	39	45.37	23476	2.73	11034			
	35	50.41	26046	2.46	11196			
	32	54.61	28097	2.28	11188			
29	60.68	31301	2.05	11187				
24	71.89	37170	1.73	11178				
21	82.83	42734	1.50	11168				
20	86.53	44604	1.44	11168				
18	99.70	51343	1.25	11170				
16	112.03	57554	1.11	11154				
15	120.36	62058	1.03	11150				
13	134.85	69288	0.93	11128				

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

15.00 HP	N2 R/MIN	i	M2 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 of base mount unit		
4 POLE 1750 rpm nominal input speed	33	52.76	27256	3.93	16264	K 1 2 3 1 5 0 . . N 1 5 . B - -	1234.3	254TC	
	31	56.39	29035	3.75	16257	5 6 .			
	28	63.57	32723	3.33	16252	6 3 .			
	24	74.62	38298	2.80	16235	7 1 .			
	21	83.10	42691	2.51	16247	8 0 .			
	20	89.89	46037	2.36	16239	9 0 .			
	18	100.12	51304	2.12	16216	1 0 0			
	15	113.79	58386	1.83	16206	1 1 2			
	15	121.06	62360	1.72	16196	1 2 5			
	13	137.09	70394	1.55	16227	1 4 0			
	12	145.85	74739	1.46	16228	1 6 0			
	10	172.15	87175	1.23	16198	K 1 2 5 1 1 6 0 _ N _ _ _ _ 1 5 . B - -	1326.8	254TC	
	7.4	238.46	120760	0.89	16198	2 5 0			
	20.0 HP	205	8.60	5881	1.07	1649	K 0 7 3 2 8 . 0 _ N _ _ _ _ 2 0 . B - -	419.1	256TC
		148	11.91	8174	1.07	1591	1 1 .		
132		13.37	9220	1.07	1577	1 2 .			
120		14.71	10115	1.06	1562	1 4 .			
92		19.21	13326	0.88	1469	1 8 .			
217		8.13	5589	2.14	1971	K 0 8 3 2 8 . 0 _ N _ _ _ _ 2 0 . B - -	542.6	256TC	
153		11.52	7918	2.06	1894	1 1 .			
138		12.80	8780	1.96	1888	1 2 .			
124		14.24	9819	1.85	1874	1 4 .			
96		18.41	12668	1.55	1795	1 8 .			
85		20.67	14255	1.41	1737	2 0 .			
69		25.35	17500	1.19	1588	2 5 .			
62		28.56	19646	1.09	1469	2 8 .			
53		33.24	22786	0.97	1276	3 2 .			
48		36.88	25270	0.90	1118	3 6 .			
44		40.36	27825	0.84	952	4 0 .			
219		8.03	5508	3.90	7010	K 0 9 3 1 8 . 0 _ N _ _ _ _ 2 0 . B - -	666	256TC	
182		9.68	6619	3.90	7161	1 0 .			
159		11.06	7611	3.29	7216	1 1 .			
142		12.40	8539	3.09	7303	1 2 .			
132		13.33	9144	3.29	7392	1 4 .			
118		14.94	10259	3.09	7386	1 6 .			
98		17.93	12325	2.43	7354	1 8 .			
88		20.03	13759	2.23	7437	2 0 .			
81		21.61	14830	2.39	7447	2 2 .			
73		24.14	16568	2.18	7431	2 5 .			
63		27.78	19123	1.73	7477	2 8 .			
56		31.67	21797	1.53	7643	3 2 .			
53		33.47	22927	1.63	7643	3 6 .			
46		38.16	26187	1.42	7643	4 0 .			
39		44.89	30815	1.09	7643	4 5 .			
35		49.87	34215	0.98	7643	5 0 .			
33		54.09	37084	1.00	7643	5 6 .			
29		60.10	41236	0.90	7643	6 3 .			
73		24.13	16606	3.86	11028	K 1 0 3 1 2 5 . _ N _ _ _ _ 2 0 . B - -	941.6	256TC	
60		29.24	20160	3.18	11015	2 8 .			
53		33.10	22819	2.81	11005	3 2 .			
50		35.19	24212	2.65	11022	3 6 .			
44		39.84	27422	2.34	11147	4 0 .			
39		45.37	31301	2.05	10957	4 5 .			
35		50.41	34728	1.85	11186	5 0 .			
32		54.61	37463	1.71	11176	5 6 .			
29		60.68	41735	1.54	11175	6 3 .			
24		71.89	49560	1.29	11161	7 1 .			
21		82.83	56979	1.13	11148	8 0 .			
20	86.53	59472	1.08	11148	9 0 .				
18	99.70	68457	0.94	11150	1 0 0				
16	112.03	76738	0.84	11128	1 1 2				
44	39.55	27223	4.00	16260	K 1 2 3 1 4 0 . _ N _ _ _ _ 2 0 . B - -	1261.3	256TC		
38	46.81	32213	3.32	16159	4 5 .				
33	52.76	36341	2.95	16260	5 0 .				
31	56.39	38714	2.81	16249	5 6 .				
28	63.57	43631	2.50	16242	6 3 .				
24	74.62	51065	2.10	16219	7 1 .				
21	83.10	56922	1.88	16234	8 0 .				
20	89.89	61383	1.77	16224	9 0 .				
18	100.12	68405	1.59	16191	1 0 0				
15	113.79	77849	1.38	16177	1 1 2				
15	121.06	83147	1.29	16162	1 2 5				
13	137.09	93859	1.16	16206	1 4 0				
12	145.85	99652	1.09	16208	1 6 0				
10	172.15	116233	0.92	16198	K 1 2 5 1 1 6 0 _ N _ _ _ _ 2 0 . B - -	1353.8	256TC		

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

SERIES K

SELECTION TABLES

GEARED MOTORS

25.00 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <input type="text" value="1"/> Through <input type="text" value="20"/> Spaces to be filled when entering order	Weight of base mount unit	
219	8.03	6885	3.12	6850	K 0 9 3 1 8 . 0 _ N _ _ _ _ 2 5 . B _ _	815.3	284TC
182	9.68	8273	3.12	6972	1 0 .		
159	11.06	9514	2.63	6991	1 1 .		
142	12.40	10674	2.47	7052	1 2 .		
132	13.33	11430	2.63	7142	1 4 .		
118	14.94	12824	2.47	7129	1 6 .		
98	17.93	15406	1.95	7065	1 8 .		
88	20.03	17199	1.79	7232	2 0 .		
81	21.61	18538	1.91	7251	2 2 .		
73	24.14	20710	1.75	7219	2 5 .		
63	27.78	23904	1.38	7310	2 8 .		
56	31.67	27247	1.22	7643	3 2 .		
53	33.47	28659	1.30	7643	3 6 .		
46	38.16	32734	1.14	7643	4 0 .		
39	44.89	38519	0.87	7643	4 5 .		
95	18.57	16009	3.79	10649	K 1 0 3 1 1 8 . _ N _ _ _ _ 2 5 . B _ _	1090.9	284TC
88	20.05	17272	3.58	10781	2 0 .		
79	22.35	19215	3.34	10826	2 2 .		
73	24.13	20758	3.09	10838	2 5 .		
60	29.24	25200	2.55	10813	2 8 .		
53	33.10	28524	2.25	10793	3 2 .		
50	35.19	30266	2.12	10826	3 6 .		
44	39.84	34278	1.87	11076	4 0 .		
39	45.37	39126	1.64	10881	4 5 .		
35	50.41	43410	1.48	11177	5 0 .		
32	54.61	46828	1.37	11164	5 6 .		
29	60.68	52169	1.23	11163	6 3 .		
24	71.89	61950	1.04	11144	7 1 .		
21	82.83	71224	0.90	11128	8 0 .		
20	86.53	74340	0.86	11128	9 0 .		
54	32.83	28359	3.78	15990	K 1 2 3 1 3 2 . _ N _ _ _ _ 2 5 . B _ _	1375.3	284TC
50	34.93	30029	3.63	15812	3 6 .		
44	39.55	34029	3.20	16255	4 0 .		
38	46.81	40266	2.66	16125	4 5 .		
33	52.76	45426	2.36	16255	5 0 .		
31	56.39	48392	2.25	16241	5 6 .		
28	63.57	54539	2.00	16232	6 3 .		
24	74.62	63831	1.68	16202	7 1 .		
21	83.10	71152	1.51	16222	8 0 .		
20	89.89	76728	1.42	16209	9 0 .		
18	100.12	85507	1.27	16166	1 0 0		
15	113.79	97311	1.10	16147	1 1 2		
15	121.06	103934	1.03	16129	1 2 5		
13	137.09	117323	0.93	16186	1 4 0		

30.0 HP

4 POLE
1750 rpm
nominal
input speed

219	8.03	8262	2.60	6689	K 0 9 3 1 8 . 0 _ N _ _ _ _ 3 0 . B _ _	809.3	286TC
182	9.68	9928	2.60	6782	1 0 .		
159	11.06	11417	2.19	6766	1 1 .		
142	12.40	12809	2.06	6801	1 2 .		
132	13.33	13716	2.19	6891	1 4 .		
118	14.94	15388	2.06	6872	1 6 .		
98	17.93	18487	1.62	6776	1 8 .		
88	20.03	20639	1.49	7026	2 0 .		
81	21.61	22245	1.59	7055	2 2 .		
73	24.14	24852	1.46	7007	2 5 .		
63	27.78	28685	1.15	7144	2 8 .		
56	31.67	32696	1.02	7643	3 2 .		
53	33.47	34391	1.08	7643	3 6 .		
46	38.16	39281	0.95	7643	4 0 .		
140	12.55	12983	3.97	9634	K 1 0 3 1 1 2 . _ N _ _ _ _ 3 0 . B _ _	1084.9	286TC
116	15.11	15611	3.97	10141	1 6 .		
95	18.57	19211	3.16	10443	1 8 .		
88	20.05	20726	2.98	10562	2 0 .		
79	22.35	23058	2.78	10630	2 2 .		
73	24.13	24910	2.58	10649	2 5 .		
60	29.24	30240	2.12	10610	2 8 .		
53	33.10	34228	1.87	10581	3 2 .		
50	35.19	36319	1.77	10630	3 6 .		
44	39.84	41133	1.56	11005	4 0 .		
39	45.37	46952	1.37	10804	4 5 .		
35	50.41	52092	1.23	11168	5 0 .		
32	54.61	56194	1.14	11152	5 6 .		
29	60.68	62602	1.03	11150	6 3 .		
24	71.89	74340	0.86	11128	7 1 .		

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
30.00 HP	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry 1 Through 20 Spaces to be filled when entering order	Weight of base mount unit	
4 POLE 1750 rpm nominal input speed	61	28.99	30002	3.57	15625	K 1 2 3 1 2 8 . 0 _ N _ _ _ _ 3 0 . B - -	1369.3	286TC
	54	32.83	34031	3.15	15847	3 2 .		
	50	34.93	36035	3.02	15706	3 6 .		
	44	39.55	40835	2.67	16250	4 0 .		
	38	46.81	48320	2.22	16090	4 5 .		
	33	52.76	54512	1.96	16250	5 0 .		
	31	56.39	58071	1.87	16233	5 6 .		
	28	63.57	65447	1.66	16222	6 3 .		
	24	74.62	76597	1.40	16185	7 1 .		
	21	83.10	85383	1.25	16210	8 0 .		
	20	89.89	92074	1.18	16194	9 0 .		
	18	100.12	102608	1.06	16141	1 0 0		
	15	113.79	116773	0.92	16118	1 1 2		
	15	121.06	124721	0.86	16096	1 2 5		
	40.0 HP 4 POLE 1750 rpm nominal input speed	219	8.03	11016	1.95	6368	K 0 9 3 1 8 . 0 _ N _ _ _ _ 4 0 . B - -	920.3
182		9.68	13238	1.95	6403	1 0 .		
159		11.06	15222	1.65	6316	1 1 .		
142		12.40	17079	1.54	6300	1 2 .		
132		13.33	18288	1.65	6390	1 4 .		
118		14.94	20518	1.54	6358	1 6 .		
98		17.93	24650	1.22	6198	1 8 .		
88		20.03	27518	1.12	6615	2 0 .		
81		21.61	29661	1.19	6663	2 2 .		
73		24.14	33136	1.09	6583	2 5 .		
63		27.78	38247	0.86	6811	2 8 .		
213		8.26	11373	3.18	9181	K 1 0 3 1 8 . 0 _ N _ _ _ _ 4 0 . B - -	1195.9	324TC
177		9.95	13653	3.18	9358	1 0 .		
152		11.54	15920	3.12	9406	1 1 .		
140		12.55	17311	2.98	9448	1 2 .		
127		13.89	19127	3.12	9573	1 4 .		
116		15.11	20815	2.98	9814	1 6 .		
95		18.57	25615	2.37	10032	1 8 .		
88		20.05	27635	2.24	10125	2 0 .		
79		22.35	30745	2.09	10238	2 2 .		
73		24.13	33213	1.93	10270	2 5 .		
60		29.24	40320	1.59	10206	2 8 .		
53		33.10	45638	1.41	10157	3 2 .		
50		35.19	48425	1.33	10238	3 6 .		
44		39.84	54845	1.17	10864	4 0 .		
39		45.37	62602	1.03	10651	4 5 .		
35		50.41	69457	0.92	11150	5 0 .		
32		54.61	74926	0.86	11128	5 6 .		
207		8.51	11731	3.81	14145	K 1 2 3 1 8 . 0 _ N _ _ _ _ 4 0 . B - -	1493.5	324TC
172		10.26	14123	3.81	14513	1 0 .		
149		11.80	16307	3.81	14612	1 1 .		
136		12.96	17933	3.81	14726	1 2 .		
124		14.21	19606	3.81	14969	1 4 .		
113	15.61	21557	3.81	15182	1 6 .			
97	18.20	25088	3.81	15304	1 8 .			
87	20.17	27876	3.81	15304	2 0 .			
80	21.93	30175	3.61	15396	2 2 .			
72	24.29	33458	3.25	15383	2 5 .			
61	28.99	40003	2.68	15191	2 8 .			
54	32.83	45375	2.36	15562	3 2 .			
50	34.93	48046	2.27	15495	3 6 .			
44	39.55	54447	2.00	16241	4 0 .			
38	46.81	64427	1.66	16022	4 5 .			
33	52.76	72683	1.47	16241	5 0 .			
31	56.39	77428	1.41	16217	5 6 .			
28	63.57	87263	1.25	16203	6 3 .			
24	74.62	102130	1.05	16152	7 1 .			
21	83.10	113844	0.94	16186	8 0 .			
20	89.89	122766	0.89	16163	9 0 .			

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

SERIES K

SELECTION TABLES

GEARED MOTORS

50.00 HP	N2 R/MIN	i	M2 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 of base mount unit	
							K 0 9 3 1 8 . 0 _ N _ _ _ _ 5 0 . B - -	
4 POLE 1750 rpm nominal input speed	219	8.03	13771	1.56	6047		1073.3	326TC
	182	9.68	16547	1.56	6024			
	159	11.06	19028	1.32	5867			
	142	12.40	21349	1.24	5799			
	132	13.33	22861	1.32	5889			
	118	14.94	25648	1.24	5844			
	98	17.93	30812	0.97	5619			
	88	20.03	34398	0.89	6204			
	81	21.61	37076	0.95	6271			
	73	24.14	41420	0.87	6159			
	213	8.26	14216	2.55	9059	K 1 0 3 1 8 . 0 _ N _ _ _ _ 5 0 . B - -	1348.9	326TC
	177	9.95	17066	2.55	9217			
	152	11.54	19900	2.50	9239			
	140	12.55	21639	2.38	9262			
	127	13.89	23908	2.50	9374			
	116	15.11	26019	2.38	9486			
	95	18.57	32019	1.90	9621			
	88	20.05	34544	1.79	9688			
	79	22.35	38431	1.67	9846			
	73	24.13	41516	1.55	9891			
60	29.24	50400	1.27	9801				
53	33.10	57048	1.12	9733				
50	35.19	60532	1.06	9846				
44	39.84	68556	0.94	10723				
39	45.37	78253	0.82	10498				
207	8.51	14664	3.05	13950	K 1 2 3 1 8 . 0 _ N _ _ _ _ 5 0 . B - -	1646.5	326TC	
172	10.26	17654	3.05	14293				
149	11.80	20384	3.05	14342				
136	12.96	22417	3.05	14430				
124	14.21	24507	3.05	14662				
113	15.61	26946	3.05	14843				
97	18.20	31360	3.05	14915				
87	20.17	34845	3.05	14915				
80	21.93	37719	2.89	15044				
72	24.29	41823	2.60	15026				
61	28.99	50003	2.14	14757				
54	32.83	56718	1.89	15276				
50	34.93	60058	1.81	15284				
44	39.55	68059	1.60	16232				
38	46.81	80533	1.33	15953				
33	52.76	90853	1.18	16232				
31	56.39	96785	1.12	16202				
28	63.57	109079	1.00	16183				
24	74.62	127662	0.84	16118				
60.0 HP	207	8.51	17596	2.54	13754	K 1 2 3 1 8 . 0 _ N _ _ _ _ 6 0 . B - -	1646.5	364TC
	172	10.26	21185	2.54	14074			
	149	11.80	24461	2.54	14072			
	136	12.96	26900	2.54	14133			
	124	14.21	29409	2.54	14355			
	113	15.61	32336	2.54	14505			
	97	18.20	37632	2.54	14526			
	87	20.17	41814	2.54	14526			
	80	21.93	45262	2.41	14693			
	72	24.29	50187	2.17	14669			
	61	28.99	60004	1.78	14324			
	54	32.83	68062	1.57	14990			
	50	34.93	72070	1.51	15073			
	44	39.55	81671	1.33	16222			
	38	46.81	96640	1.11	15884			
	33	52.76	109024	0.98	16222			
31	56.39	116142	0.94	16186				
28	63.57	130895	0.83	16163				

NOTE

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

SERIES K

SELECTION TABLES

GEARED MOTORS

75.00 HP

4 POLE
1750 rpm
nominal
input speed

N2 R/MIN	i	M2 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 of base mount unit	
207	8.51	21996	2.03	13460	K 1 2 3 1 8 . 0 _ N _ _ _ _ 7 5 . B _ _	1743.5	365TC
172	10.26	26482	2.03	13745	1 0 .		
149	11.80	30576	2.03	13668	1 1 .		
136	12.96	33625	2.03	13689	1 2 .		
124	14.21	36761	2.03	13895	1 4 .		
113	15.61	40420	2.03	13997	1 6 .		
97	18.20	47040	2.03	13943	1 8 .		
87	20.17	52267	2.03	13943	2 0 .		
80	21.93	56578	1.92	14165	2 2 .		
72	24.29	62734	1.74	14133	2 5 .		
61	28.99	75005	1.43	13673	2 8 .		
54	32.83	85078	1.26	14562	3 2 .		
50	34.93	90087	1.21	14757	3 6 .		
44	39.55	102089	1.07	16208	4 0 .		
38	46.81	120800	0.89	15781	4 5 .		

100.0 HP

4 POLE
1750 rpm
nominal
input speed

207	8.51	29328	1.52	12971	K 1 2 3 1 8 . 0 _ N _ _ _ _ 1 0 0 B _ _	2227.4	405TC
172	10.26	35309	1.52	13196	1 0 .		
149	11.80	40768	1.52	12993	1 1 .		
136	12.96	44834	1.52	12948	1 2 .		
124	14.21	49015	1.52	13128	1 4 .		
113	15.61	53893	1.52	13151	1 6 .		
97	18.20	62721	1.52	12971	1 8 .		
87	20.17	69690	1.52	12971	2 0 .		
80	21.93	75438	1.44	13286	2 2 .		
72	24.29	83646	1.30	13241	2 5 .		
61	28.99	100007	1.07	12589	2 8 .		
54	32.83	113437	0.94	13848	3 2 .		
50	34.93	120117	0.91	14230	3 6 .		

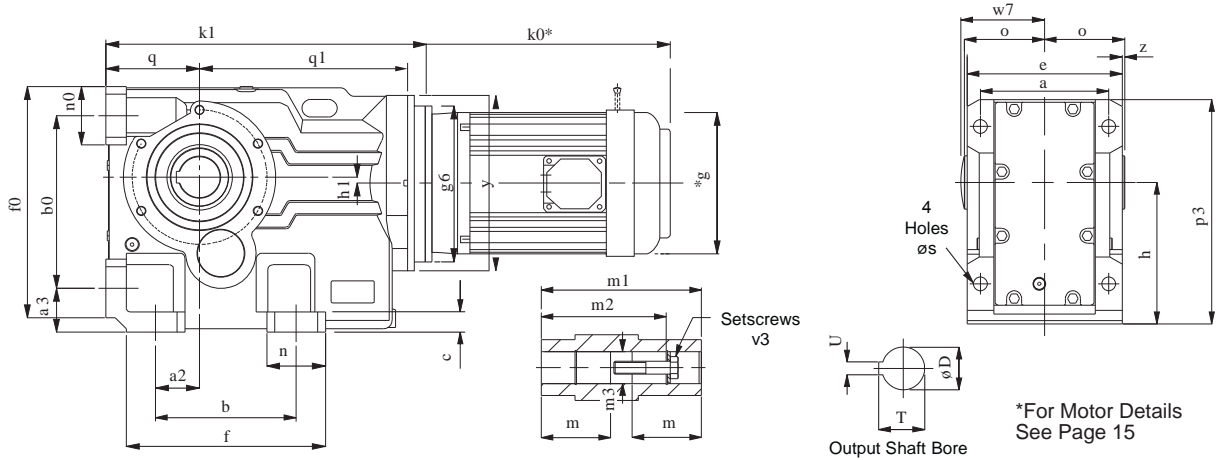
NOTE

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

SERIES K

DIMENSIONS

TRIPLE REDUCTION



Size	a	a2	a3	b	b0	c	e	f	f0	h	h1	n	n0	o	p3
K0332	3.94	1.10	1.26	4.33	4.53	0.43	4.72	5.63	5.98	3.94	0.63	1.50	1.50	2.36	6.57
K0432	4.72	1.38	1.46	5.12	5.12	0.63	5.71	6.61	6.73	4.41	0.51	1.50	1.57	2.95	7.36
K0532	5.12	1.18	1.77	5.12	5.91	0.59	6.18	6.69	7.56	5.20	0.20	1.57	1.57	3.27	8.54
K0632	5.51	1.18	1.77	4.72	6.30	0.79	6.69	6.93	8.19	5.51	0.51	2.17	1.89	3.54	9.17
K0732	6.50	1.57	2.17	5.91	7.87	1.06	7.87	8.27	10.35	7.09	0.98	2.36	2.17	4.13	11.34
K0832	7.09	2.17	2.76	7.09	9.17	1.18	9.06	10.08	12.17	8.35	0.59	2.99	2.99	4.72	13.43
K0931	9.45	2.95	2.95	9.45	11.61	1.38	11.42	13.39	15.55	10.43	0.39	3.94	3.94	5.91	16.54
K1031	10.63	3.74	3.74	11.02	14.17	1.57	13.39	15.35	17.91	12.40	1.61	4.33	4.53	6.89	20.20
K1231	12.99	4.53	4.33	13.78	16.54	1.77	15.75	18.50	21.26	14.76	2.56	4.72	4.72	8.07	23.23

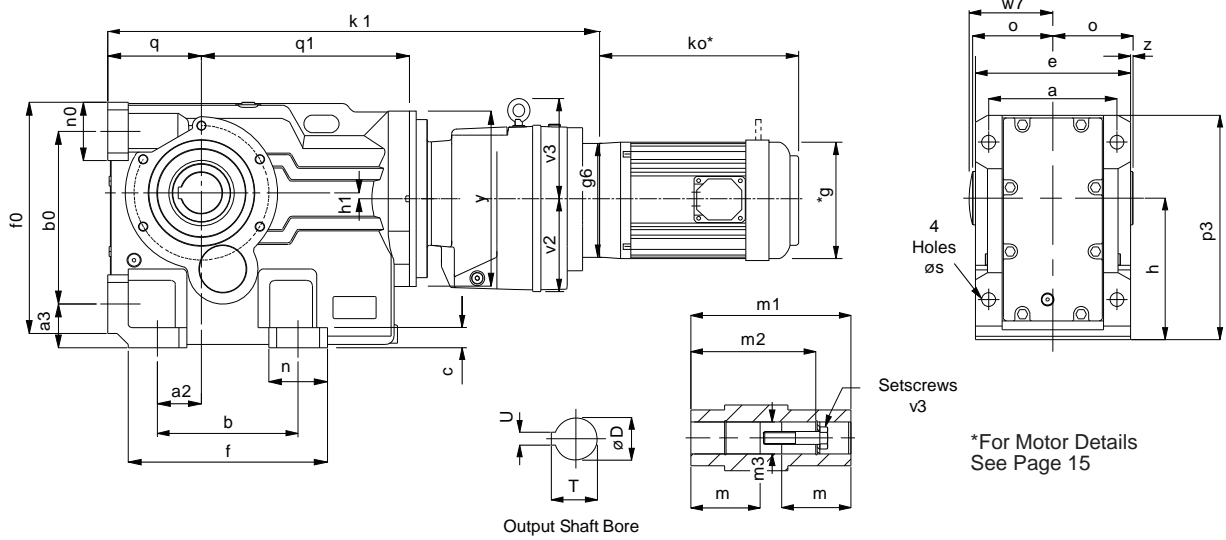
Size	q	q1	s	w7	y	z	Hollow Output Bore							
							D	m	m1	m2	m3	T	U	v3
K0332	2.48	6.26	0.43	2.48	5.51	0.00	1.25	2.070	4.724	4.130	1.260	1.377	0.250	3/8 UNF x 2
K0432	2.80	7.05	0.43	3.07	5.51	0.10	1.38	2.600	5.906	5.120	1.380	1.525	0.313	1/2 UNF x 21/4
K0532	3.15	8.62	0.55	3.43	7.09	0.18	1.50	2.870	6.535	5.590	1.510	1.675	0.375	5/8 UNF x 23/4
K0632	3.54	9.02	0.55	3.70	7.09	0.20	1.50	3.150	7.087	6.140	1.510	1.675	0.375	5/8 UNF x 23/4
K0732	4.41	10.43	0.71	4.29	8.35	0.20	2.00	3.640	8.268	7.200	2.020	2.230	0.500	5/8 UNF x 23/4
K0832	5.20	12.99	0.91	4.88	9.84	0.20	2.38	4.134	9.449	8.268	2.382	2.656	0.625	3/4-16 UNF x 31/4
K0931	6.30	13.98	1.06	6.06	11.81	0.20	2.75	5.217	11.811	10.630	2.772	3.037	0.625	3/4-16 UNF x 31/4
K1031	7.87	16.65	1.34	7.09	14.17	0.20	3.25	6.102	13.780	12.323	3.268	3.591	0.750	3/4-16 UNF x 31/4
K1231	8.86	18.74	1.54	8.27	15.75	0.20	4.00	7.087	16.142	14.685	4.020	4.446	1.000	1-12 UNF x 41/2

MOTOR FRAME SIZE	K0332	K0432	K0532	K0632	K0732	K0832	K0931	K1031	K1231
	K1	K1	K1	K1	K1	K1	K1	K1	K1
56C	11.30	12.40	13.74	14.53	16.89	21.69	-	-	-
143-145TC	11.30	12.40	13.74	14.53	16.89	21.69	-	-	-
182-184TC	10.98	12.09	14.72	15.51	17.24	21.69	22.80	26.89	31.61
213-215TC	-	-	14.72	15.51	17.24	21.69	22.80	26.89	31.61
254-256TC	-	-	-	-	17.17	21.69	24.17	28.07	31.61
284-286TC	-	-	-	-	-	-	24.29	28.19	31.73
324-326TC	-	-	-	-	-	-	24.96	28.82	32.36
364-365TC	-	-	-	-	-	-	-	-	39.06
404-405TC	-	-	-	-	-	-	-	-	40.43

SERIES K

DIMENSIONS

QUINTUPLE REDUCTION



Size	a	a2	a3	b	b0	c	e	f	f0	h	h1	n	n0	o	p3	q
K0532	3.94	1.10	1.26	4.33	4.53	0.43	4.72	5.63	5.98	3.94	0.63	1.50	1.50	2.36	6.57	2.48
K0452	4.72	1.38	1.46	5.12	5.12	0.63	5.71	6.61	6.73	4.41	0.51	1.50	1.57	2.95	7.36	2.80
K0552	5.12	1.18	1.77	5.12	5.91	0.59	6.18	6.69	7.56	5.20	0.20	1.57	1.57	3.27	8.54	3.15
K0652	5.51	1.18	1.77	4.72	6.30	0.79	6.69	6.93	8.19	5.51	0.51	2.17	1.89	3.54	9.17	3.54
K0752	6.50	1.57	2.17	5.91	7.87	1.06	7.87	8.27	10.35	7.09	0.98	2.36	2.17	4.13	11.34	4.41
K0852	7.09	2.17	2.76	7.09	9.17	1.18	9.06	10.08	12.17	8.35	0.59	2.99	2.99	4.72	13.43	5.20
K0951	9.45	2.95	2.95	9.45	11.61	1.38	11.42	13.39	15.55	10.43	0.39	3.94	3.94	5.91	16.54	6.30
K1051	10.63	3.74	3.74	11.02	14.17	1.57	13.39	15.35	17.91	12.40	1.61	4.33	4.53	6.89	20.20	7.87
K1251	12.99	4.53	4.33	13.78	16.54	1.77	15.75	18.50	21.26	14.76	2.56	4.72	4.72	8.07	23.23	8.86

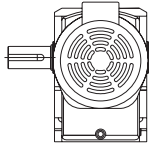
Size	q1	s	v2	v3	w7	y	z	Hollow Output Bore								
								D	m	m1	m2	m3	T	U	v3	
K0332	6.26	0.43	2.99	-	2.48	5.51	0.00	1.25	2.07	4.724	4.13	1.26	1.377	0.25	3/8 UNF x 2	
K0432	7.05	0.43	2.99	-	3.07	5.51	0.10	1.375	2.6	5.906	5.12	1.38	1.525	0.313	1/2 UNF x 21/4	
K0532	8.62	0.53	3.58	-	3.43	7.09	0.18	1.5	2.87	6.535	5.59	1.51	1.675	0.375	5/8 UNF x 23/4	
K0632	9.02	0.55	3.58	-	3.70	7.09	0.20	1.5	3.15	7.087	6.14	1.51	1.675	0.375	5/8 UNF x 23/4	
K0732	10.43	0.71	3.58	-	4.29	8.35	0.20	2	3.64	8.268	7.2	2.02	2.23	0.5	5/8 UNF x 23/4	
K0832	12.99	0.91	4.53	-	4.88	9.84	0.20	2.375	4.134	9.449	8.268	2.382	2.656	0.625	3/4-16 UNF x 31/4	
K0931	13.98	1.06	4.53	-	6.06	11.81	0.20	2.75	5.217	11.811	10.63	2.772	3.037	0.625	3/4-16 UNF x 31/4	
K1031	16.65	1.34	5.51	6.10	7.09	14.17	0.20	3.25	6.102	13.78	12.323	3.268	3.591	0.75	3/4-16 UNF x 31/4	
K1231	18.74	1.54	5.51	6.10	8.27	15.75	0.20	4	7.087	16.142	14.685	4.02	4.446	1	1-12 UNF x 41/2	

MOTOR FRAME SIZE	K0352	K0452	K0552	K0652	K0752	K0852	K0951	K1051	K1251
	K1	K1	K1	K1	K1	K1	K1	K1	K1
56C	18.62	19.72	22.28	23.07	25.39	29.80	32.32	38.07	43.07
143-145TC	18.62	31.72	22.28	23.07	25.39	29.80	32.32	38.07	43.07
182-184TC	18.31	34.91	21.97	22.76	25.08	30.79	33.31	38.43	43.43
213-215TC	-	-	-	-	-	30.79	33.31	38.43	43.43
254-256TC	-	-	-	-	-	-	-	38.35	43.35

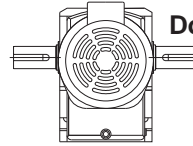
SERIES K

DIMENSIONS

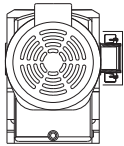
OUTPUT OPTIONS



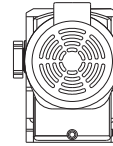
Single Extended Outputshaft



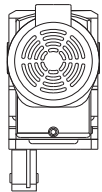
Double Extended Outputshaft



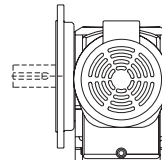
Shrink Disc



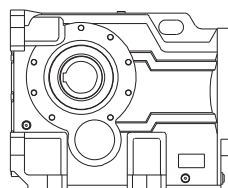
Taper Release Bushing



Torque Bracket



B5 (D) Flange Mounting



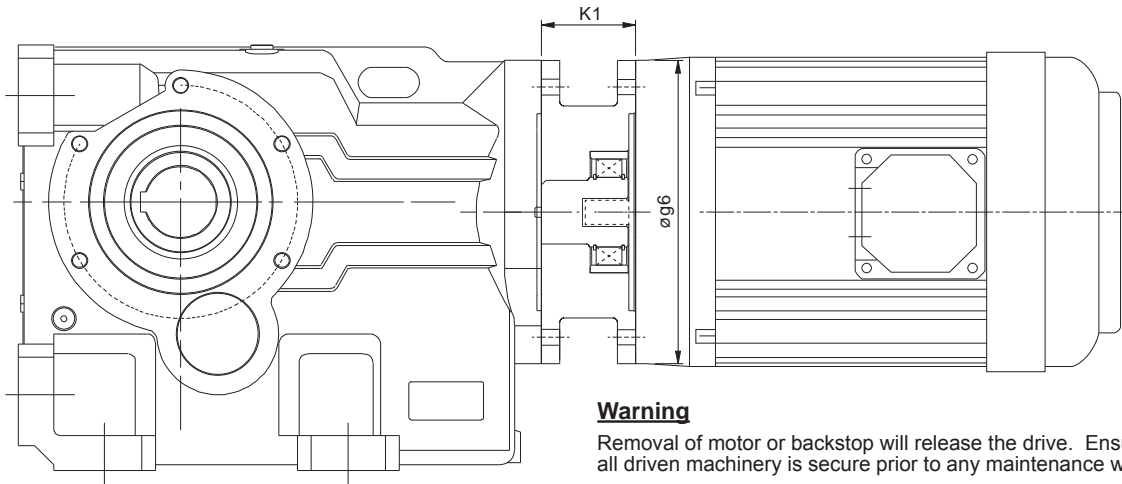
B14 (C) Flange Mounting

SERIES K 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 (n min).

To ensure correct operation motor speed must exceed lift off speed.

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



Warning

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

IEC B5 FLANGE

Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (lb.in)	øg6	K1
100	670	1505	9.84	2.76
112	670	1505	9.84	2.76
132	620	8319	11.81	3.74
160	620	8319	13.78	5.12
180	620	8319	13.78	5.12
200	550	11151	15.75	5.12

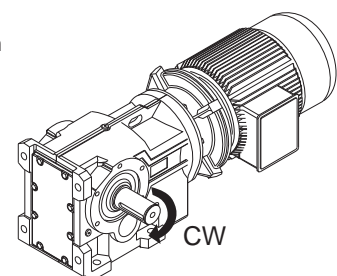
NEMA C FLANGE

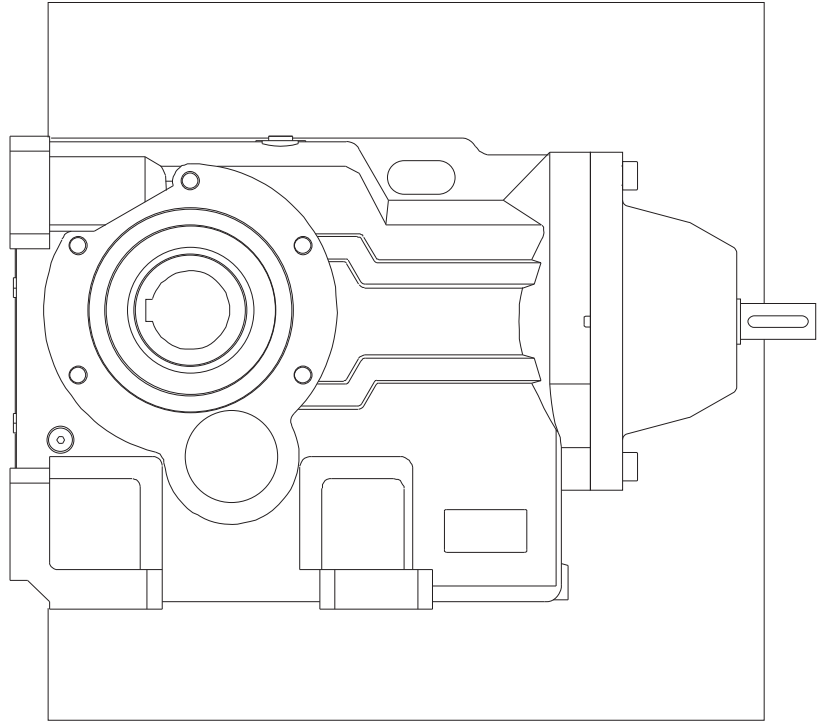
Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	øg6	K1
182TC / 184TC	670	2655	8.98	3.75
213TC / 215TC	670	2655	8.98	3.75
254TC / 256TC	620	8319	8.98	4.75
284TC / 286TC	620	8319	11.02	5.37
324TC / 326TC	550	11151	12.99	6.00

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

Rotation of outputshaft must be specified when ordering as viewed from the outputshaft end (as shown in the diagram) see page 28 for column 20 entry

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





REDUCER
SERIES K

SERIES K

OVERHUNG & AXIAL LOADS (lbf) 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 Application Engineering 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.

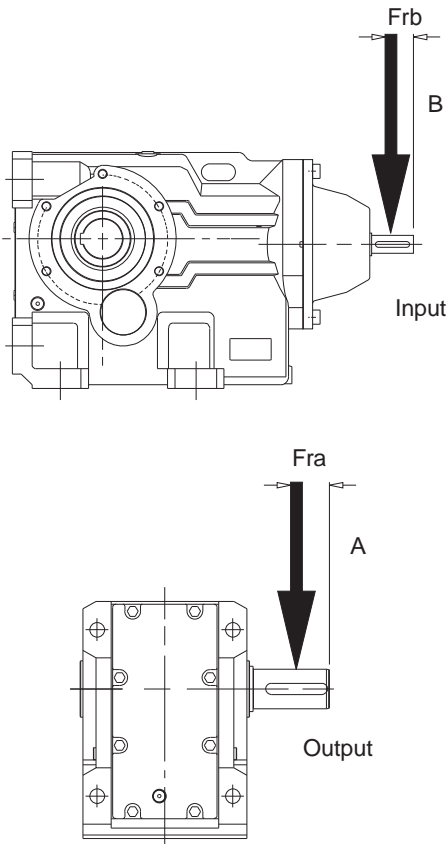
Overhung load (lbf)

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

Where

- P = equivalent overhung load (lbf)
- HP = power transmitted by the shaft (Horse Power)
- N = speed of shaft (rev/min)
- R = pitch radius of sprocket, etc. (inches)
- K = factor

Note: 1 lbf = 4.4484 Newtons.



Axial Thrust Capacities (Newtons)

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

Overhung member K (factor)

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

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

Distance Midway Along The Shaft Extension

Size of unit	NO of Reductions	Dimension A (inches)	Dimension B (inches)
K03	3	0.93	0.79
	5	0.93	0.79
K04	3	1.10	0.79
	5	1.10	0.79
K05	3	1.30	0.79
	5	1.30	0.79
K06	3	1.50	0.79
	5	1.50	0.79
K07	3	1.87	0.98
	5	1.87	0.79
K08	3	1.97	1.18
	5	1.97	0.79
K09	3	2.17	1.57
	5	2.17	0.79
K10	3	2.76	2.17
	5	2.76	0.98
K12	3	3.54	2.17
	5	3.54	0.98

Inputshaft Overhung Loads, Frb (lbf) 1750 rpm Two, Three and Five Stage Units

	K03	K04	K05	K06	K07	K08	K09	K10	K12
3 Stage	338	338	281	236	473	698	788	1013	2700
5 Stage	338	338	338	338	338	338	338	405	405

For output overhung load Fra consult ratings tables pages 31 to 60

SERIES K

THERMAL POWER RATINGS

Thermal Ratings HP 60 Hz Speeds

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.

Thermal ratings are based on an ambient temperature of 68°F (20°C), where units are to operate in other ambient temperatures thermal ratings must be adjusted by the following factors.

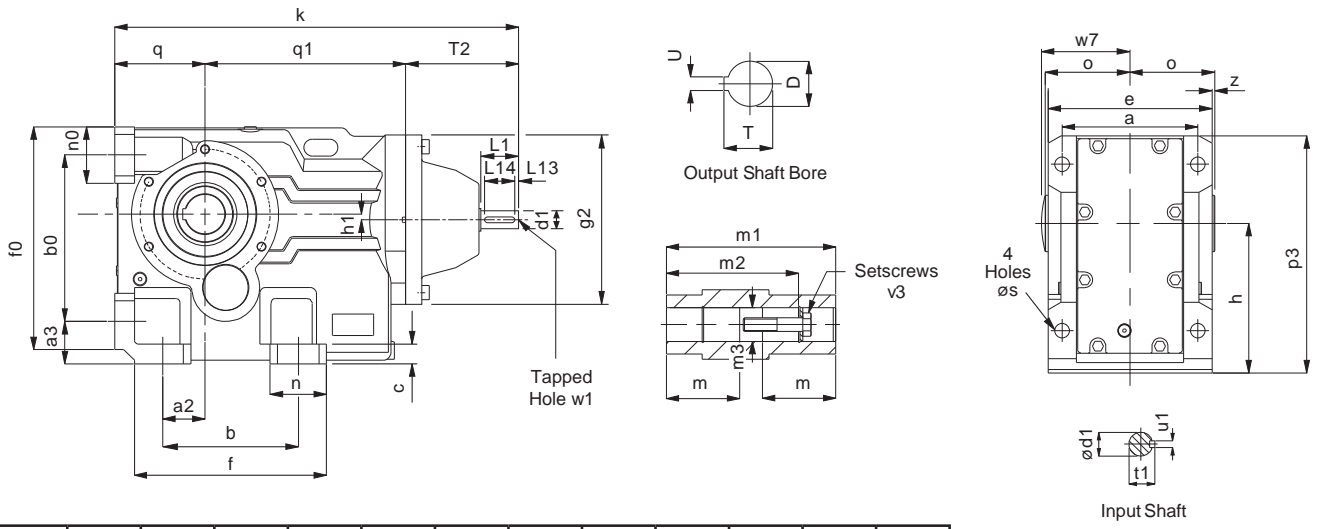
Ratios		input rpm	K03	K04	K05	K06	K07	K08	K09	K10	K12
8 to 20	Units with no additional cooling	3500	Consult Application Engineers								
		1750	8.7	10.6	15.4	16.4	24.1	32.2	42.9	61.7	70.7
		1175	9.1	11.1	16.1	17.2	25.3	33.7	44.9	65	74
		875	8.1	9.8	14.2	15.2	22.3	29.8	39.7	57	65
22 to 40	Units with no additional cooling	3500	5.4	6.5	9.4	10.1	14.9	19.9	26.5	38.1	50.2
		1750	7.4	8.9	12.9	14.0	20.6	27.4	36.6	52.6	69.3
		1175	7.1	8.5	12.3	13.4	19.7	26.2	35.0	50	66
		875	6.8	8.2	12.0	12.9	19.0	25.4	33.9	49	64
45 & over	Units with no additional cooling	3500	4.8	5.7	8.3	9.6	14.2	18.9	41.6	36.2	49.2
		1750	6.6	7.9	11.4	13.3	19.5	26.1	57.3	49.9	67.9
		1175	6.3	7.5	10.9	12.7	18.7	24.9	54.8	47.7	64.8
		875	6.8	8.2	12.0	12.9	19.0	25.4	33.9	49	64
8 to 20	Units with no additional cooling	3500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1750	-	-	-	-	54	72	97	139	159
		1175	-	-	-	-	45	60	79	114	131
		875	-	-	-	-	40	53	71	102	117
22 to 40	Units with no additional cooling	3500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1750	-	-	-	-	46	62	82	118	156
		1175	-	-	-	-	38	51	68	97	128
		875	-	-	-	-	34	45	60	87	114
45 & over	Units with no additional cooling	3500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1750	-	-	-	-	44	59	129	112	153
		1175	-	-	-	-	36	48	106	92	126
		875	-	-	-	-	32	43	95	82	112

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

SERIES K

DIMENSIONS

TRIPLE REDUCTION



SIZE	a	a2	a3	b	b0	c	e	f	f0	g2	h	h1
K0332	3.94	1.10	1.26	4.33	4.53	0.43	4.72	5.63	5.98	5.51	3.94	0.63
K0432	4.72	1.38	1.46	5.12	5.12	0.63	5.71	6.61	6.73	5.51	4.41	0.51
K0532	5.12	1.18	1.77	5.12	5.91	0.59	6.18	6.69	7.56	7.09	5.20	0.20
K0632	5.51	1.18	1.77	4.72	6.30	0.79	6.69	6.93	8.19	7.09	5.51	0.51
K0732	6.50	1.57	2.17	5.91	7.87	1.06	7.87	8.27	10.35	8.35	7.09	0.98
K0832	7.09	2.17	2.76	7.09	9.17	1.18	9.06	10.08	12.17	9.84	8.35	0.59
K0931	9.45	2.95	2.95	9.45	11.61	1.38	11.42	13.39	15.55	11.81	10.43	0.39
K1031	10.63	3.74	3.74	11.02	14.17	1.57	13.39	15.35	17.91	14.17	12.40	1.61
K1231	12.99	4.53	4.33	13.78	16.54	1.77	15.75	18.50	21.26	15.75	14.76	2.56

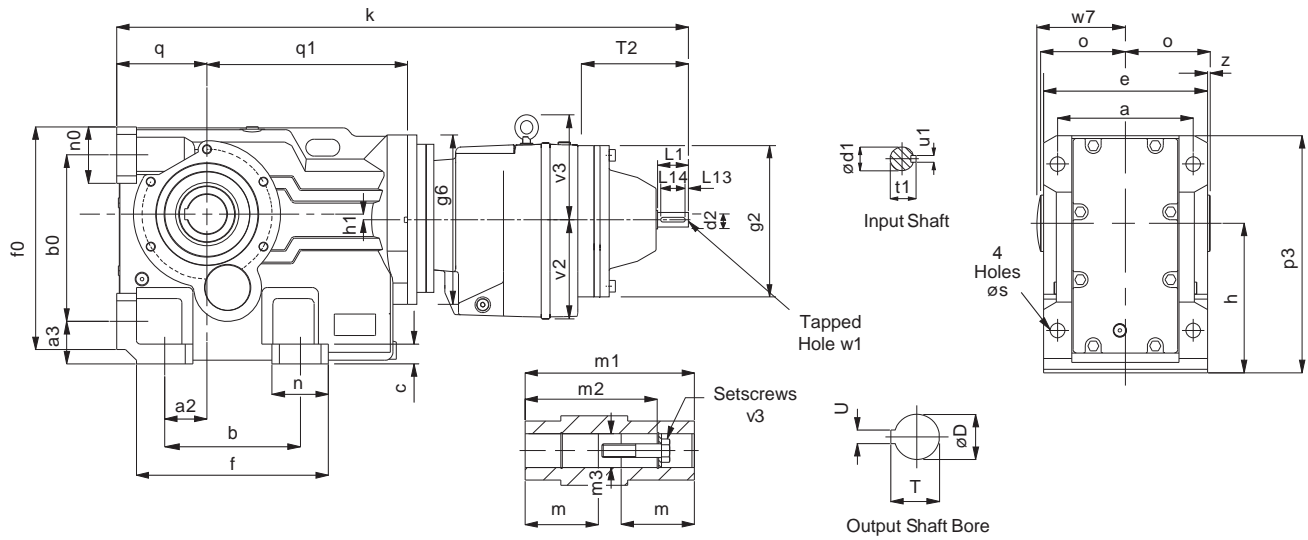
SIZE	k	n	n0	o	p3	q	q1	T2	s	w7	z
K0332	13.11	1.50	1.50	2.36	6.57	2.48	6.26	4.37	0.43	2.48	0.00
K0432	14.21	1.50	1.57	2.95	7.36	2.80	7.05	4.37	0.43	3.07	0.10
K0532	16.14	1.57	1.57	3.27	8.54	3.15	8.62	4.37	0.55	3.43	0.18
K0632	16.93	2.17	1.89	3.54	9.17	3.54	9.02	4.37	0.55	3.70	0.20
K0732	19.37	2.36	2.17	4.13	11.34	4.41	10.43	4.53	0.71	4.29	0.20
K0832	24.49	2.99	2.99	4.72	13.43	5.20	12.99	6.30	0.91	4.88	0.20
K0931	27.95	3.94	3.94	5.91	16.54	6.30	13.98	7.68	1.06	6.06	0.20
K1031	33.70	4.33	4.53	6.89	20.20	7.87	16.65	9.17	1.34	7.09	0.20
K1231	38.86	4.72	4.72	8.07	23.23	8.86	18.74	11.26	1.54	8.27	0.20

SIZE	Input Shaft						Hollow Output Bore								
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	v3	
K0332	0.6250 0.6245	1.57	19/32	0.70	3/16	1/4 UNF x .63 deep	1.25	2.070	4.724	4.130	1.260	1.377	0.250	3/8 UNF x 2	
K0432	0.6250 0.6245	1.57	19/32	0.70	3/16	1/4 UNF x .63 deep	1.38	2.600	5.906	5.120	1.380	1.525	0.313	1/2 UNF x 21/4	
K0532	0.7500 0.7495	1.57	19/32	0.83	3/16	1/4 UNF x .63 deep	1.50	2.870	6.535	5.590	1.510	1.675	0.375	5/8 UNF x 23/4	
K0632	0.7500 0.7495	1.57	19/32	0.83	3/16	1/4 UNF x .63 deep	1.50	3.150	7.087	6.140	1.510	1.675	0.375	5/8 UNF x 23/4	
K0732	0.8750 0.8745	1.97	19/32	0.96	3/16	5/16 UNF x .63 deep	2.00	3.640	8.268	7.200	2.020	2.230	0.500	5/8 UNF x 23/4	
K0832	1.1250 1.1245	2.36	2	1.23	1/4	3/8 UNF x .87 deep	2.38	4.134	9.449	8.268	2.382	2.656	0.625	3/4-16 UNF x 31/4	
K0931	1.3750 1.3745	3.15	213/32	1.51	5/16	1/2 UNF x 1.10 deep	2.75	5.217	11.811	10.630	2.772	3.037	0.625	3/4-16 UNF x 31/4	
K1031	1.6250 1.6240	4.33	311/16	1.79	3/8	5/8 UNF x 1.42 deep	3.25	6.102	13.780	12.323	3.268	3.591	0.750	3/4-16 UNF x 31/4	
K1231	2.1250 2.1240	4.33	313/16	2.35	1/2	3/4 UNF x 1.65 deep	4.00	7.087	16.142	14.685	4.020	4.446	1.000	1-12 UNF x 41/2	

SERIES K

DIMENSIONS

QUINTUPLE REDUCTION



SIZE	a	a2	a3	b	b0	c	e	f	f0	g2	g6	h	h1
K0352	3.94	1.10	1.26	4.33	4.53	0.43	4.72	5.63	5.98	5.51	5.51	3.94	0.63
K0452	4.72	1.38	1.46	5.12	5.12	0.63	5.71	6.61	6.73	5.51	5.51	4.41	0.51
K0552	5.12	1.18	1.77	5.12	5.91	0.59	6.18	6.69	7.56	5.51	7.09	5.20	0.20
K0652	5.51	1.18	1.77	4.72	6.30	0.79	6.69	6.93	8.19	5.51	7.09	5.51	0.51
K0752	6.50	1.57	2.17	5.91	7.87	1.06	7.87	8.27	10.35	5.51	7.09	7.09	0.98
K0852	7.09	2.17	2.76	7.09	9.17	1.18	9.06	10.08	12.17	7.09	9.84	8.35	0.59
K0951	9.45	2.95	2.95	9.45	11.61	1.38	11.42	13.39	15.55	7.09	11.81	10.43	0.39
K1051	10.63	3.74	3.74	11.02	14.17	1.57	13.39	15.35	17.91	8.35	14.17	12.40	1.61
K1251	12.99	4.53	4.33	13.78	16.54	1.77	15.75	18.50	21.26	8.35	15.75	14.76	2.56

SIZE	k	n	n0	o	p3	q	q1	T2	s	w7	z	v2	v3
K0352	20.43	1.50	1.50	2.36	6.57	2.48	6.26	4.37	0.43	2.48	0.00	2.99	-
K0452	21.54	1.50	1.57	2.95	7.36	2.80	7.05	4.37	0.43	3.07	0.10	2.99	-
K0552	24.09	1.57	1.57	3.27	8.54	3.15	8.62	4.37	0.55	3.43	0.18	3.58	-
K0652	24.88	2.17	1.89	3.54	9.17	3.54	9.02	4.37	0.55	3.70	0.20	3.58	-
K0752	27.20	2.36	2.17	4.13	11.34	4.41	10.43	4.37	0.71	4.29	0.20	3.58	-
K0852	32.20	2.99	2.99	4.72	13.43	5.20	12.99	4.37	0.91	4.88	0.20	4.53	-
K0951	34.72	3.94	3.94	5.91	16.54	6.30	13.98	4.37	1.06	6.06	0.20	4.53	-
K1051	40.55	4.53	4.33	6.89	20.20	7.87	16.65	4.53	1.34	7.09	0.20	5.51	6.10
K1251	45.55	4.72	4.72	8.07	23.23	8.86	18.74	4.53	1.54	8.27	0.20	5.51	6.10

SIZE	Input Shaft						Hollow Output Bore								
	d1	L1	L14	t1	u1	w1	D	m	m1	m2	m3	T	U	v3	
K0352	0.625 0.6245	1.57	19/32	0.7	3/16	1/4 UNF x .63 deep	1.25	2.07	4.724	4.13	1.26	1.377	0.25	3/8 UNF x 2	
K0452	0.625 0.6245	1.57	19/32	0.7	3/16	1/4 UNF x .63 deep	1.375	2.6	5.906	5.12	1.38	1.525	0.313	1/2 UNF x 21/4	
K0552	0.625 0.6245	1.57	19/32	0.7	3/16	1/4 UNF x .63 deep	1.5	2.87	6.535	5.59	1.51	1.675	0.375	5/8 UNF x 23/4	
K0652	0.625 0.6245	1.57	19/32	0.7	3/16	1/4 UNF x .63 deep	1.5	3.15	7.087	6.14	1.51	1.675	0.375	5/8 UNF x 23/4	
K0752	0.625 0.6245	1.57	19/32	0.7	Mar-16	1/4 UNF x .63 deep	2	3.64	8.268	7.2	2.02	2.23	0.5	5/8 UNF x 23/4	
K0852	0.75 0.7495	1.57	19/32	0.83	3/16	1/4 UNF x .63 deep	2.375	4.134	9.449	8.268	2.382	2.656	0.625	3/4-16 UNF x 31/4	
K0951	0.75 0.7495	1.57	19/32	0.83	3/16	1/4 UNF x .63 deep	2.75	5.217	11.811	10.63	2.772	3.037	0.625	3/4-16 UNF x 31/4	
K1051	0.875 0.8745	1.97	19/32	0.96	3/16	5/16 UNF x .63 deep	3.25	6.102	13.78	12.323	3.268	3.591	0.75	3/4-16 UNF x 31/4	
K1251	0.875 0.8745	1.97	19/32	0.96	3/16	5/16 UNF x .63 deep	4	7.087	16.142	14.685	4.02	4.446	1	1-12 UNF x 41/2	

SERIES K

FAN COOLED UNITS

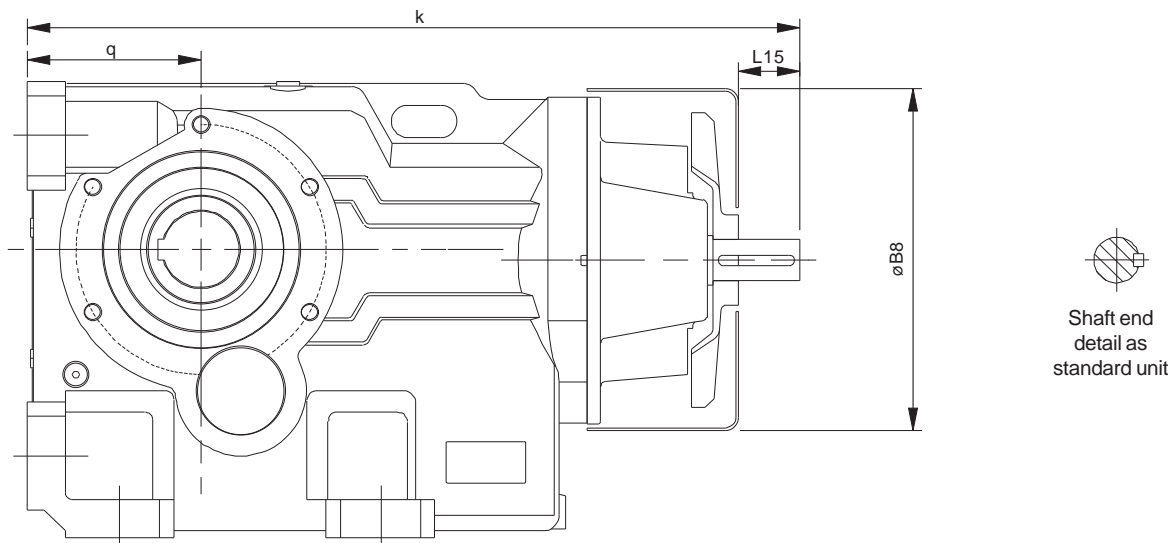
Column 10 Entry

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
K0732	8.86	19.37	1.38	4.41
K0832	10.43	24.49	1.77	5.20
K0931	12.60	27.95	2.56	6.30
K1031	14.96	33.70	3.74	7.87
K1231	16.54	38.86	3.35	8.86

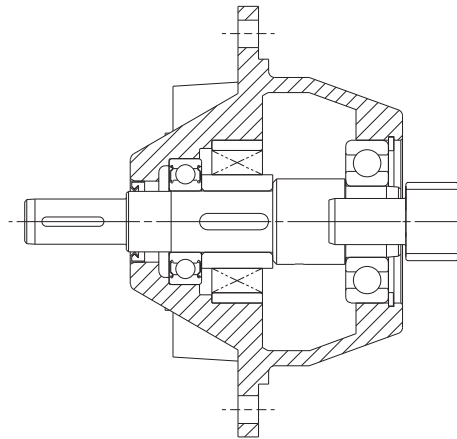
SERIES K REDUCER BACKSTOP MODULE

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

Suitable for ambient temperature -22°F to + 122°F

Column 10 Entry

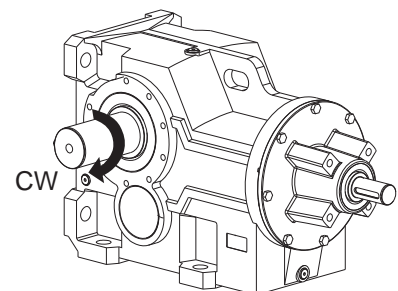
For reducer backstop modules enter W for CCW rotation (or Z if used in conjunction with a fan kit)
 X for CW rotation (or Y if used in conjunction with a fan kit)



Unit Size	Lift off Speed ('n' min) (at inputshaft) (rev/min)	Rated Locking Torque ('T max') (at inputshaft) (lb.in)
K0532	800	885
K0632	800	885
K0732	670	1505
K0832	670	1505
K0931	670	2655
K1031	670	2655
K1231	550	21240

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

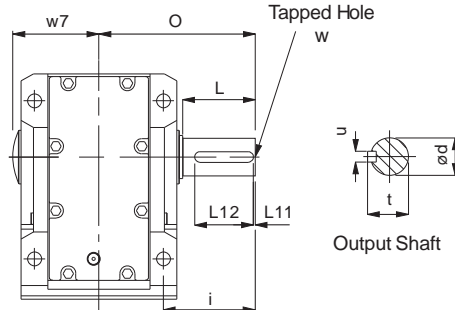


SERIES K

DIMENSIONS

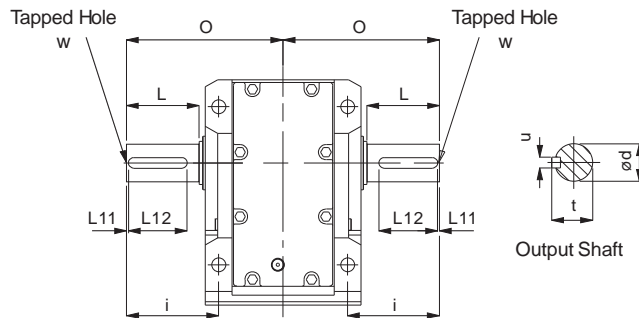
OUTPUTSHAFT OPTIONS

STANDARD OUTPUTSHAFT OPTION



Size	ød	i	L	L12	O	t	u	w	w7
K0332	1.0000 / 0.9995	2.36	1.85	1.44	4.33	1.106	0.250	3/8 UNF x 0.75" Deep	2.48
K0432	1.2500 / 1.2495	2.95	2.20	2.00	5.31	1.359	0.250	1/2 UNF x 1.13" Deep	3.07
K0532	1.3750 / 1.3745	3.46	2.60	2.38	6.02	1.507	0.313	5/8 UNF x 1.5" Deep	3.43
K0632	1.625 / 1.624	3.98	3.00	2.38	6.73	1.784	0.375	5/8 UNF x 1.5" Deep	3.70
K0732	2.000 / 1.999	4.86	3.74	2.75	8.11	2.228	0.500	5/8 UNF x 1.5" Deep	4.29
K0832	2.375 / 2.374	5.91	4.49	3.69	9.45	2.650	0.625	3/4" 16 UNF x 1.65 Deep	4.88
K0931	2.875 / 2.874	6.73	5.32	4.63	11.46	3.200	0.750	3/4" 16 UNF x 1.65 Deep	6.06
K1031	3.625 / 3.624	8.35	6.77	5.94	13.66	4.010	0.875	3/4" 16 UNF x 1.65 Deep	7.09
K1231	4.375 / 4.374	9.96	8.39	6.50	16.46	4.810	1.000	1" 12 UNF x 2.17 Deep	8.27

STANDARD DOUBLE EXTENDED OUTPUTSHAFT OPTION



all parallel keys are to DIN 6885

Size	d	i	L	L12	O	t	u	w
K0332	1.0000 / 0.9995	2.36	1.85	1.44	4.33	1.106	0.250	3/8 UNF x 0.75" Deep
K0432	1.2500 / 1.2495	2.95	2.20	2.00	5.31	1.359	0.250	1/2 UNF x 1.13" Deep
K0532	1.3750 / 1.3745	3.46	2.60	2.38	6.02	1.507	0.313	5/8 UNF x 1.5" Deep
K0632	1.4996 / 1.4990	3.98	3.00	2.38	6.73	1.664	0.375	5/8 UNF x 1.5" Deep
K0732	2.000 / 1.999	4.86	3.74	2.75	8.11	2.228	0.500	5/8 UNF x 1.5" Deep
K0832	2.3746 / 2.3739	5.91	4.49	3.69	9.45	2.650	0.625	3/4" 16 UNF x 42 Deep
K0931	2.625 / 2.624	6.73	5.32	3.69	11.46	3.030	0.625	3/4" 16 UNF x 42 Deep
K1031	3.125 / 3.124	8.35	6.42	4.63	13.66	3.450	0.750	3/4" 16 UNF x 42 Deep
K1231	3.875 / 3.874	9.96	7.87	6.50	16.46	4.310	1.000	1" 12 UNF x 55 Deep

SERIES K

DIMENSIONS

SHRINK DISC

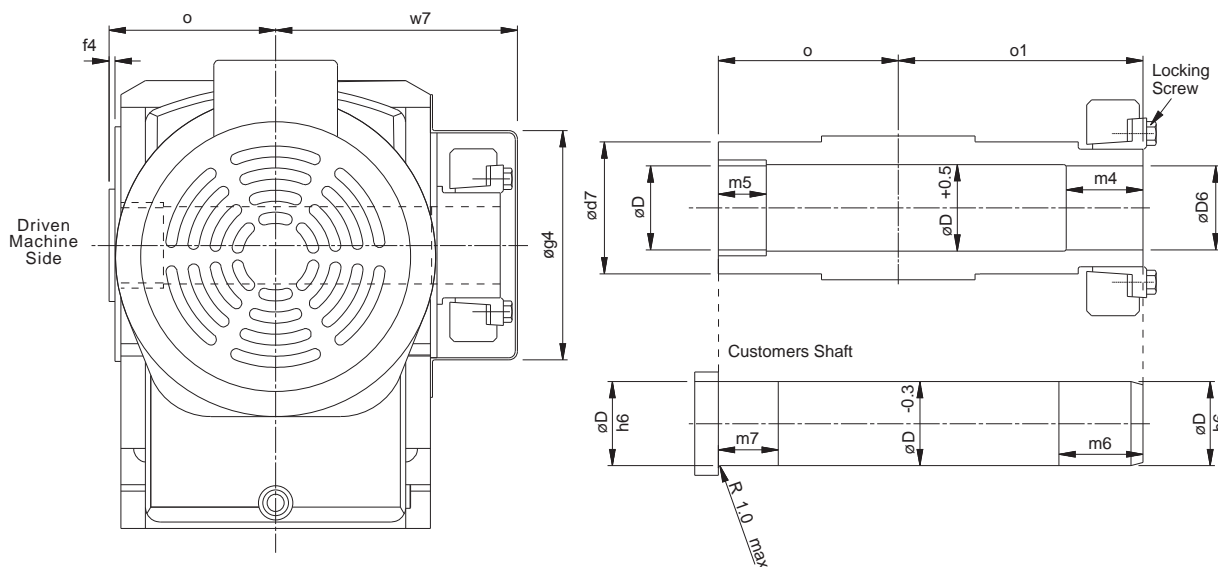
The gear unit is fitted with a 'shrink disc' device located on the hollow output shaft to provide a positive outer locking connection between gear unit and driven shaft. The 'shrink disc' is a friction device, without keys, which exerts an external clamping force on the hollow output shaft, thus establishing a mechanical shrink fit between the gear unit hollow shaft and driven shaft. 'Shrink disc' capacities have ample margins in dealing with transmitted torques and external loading imposed on gear units.

WORKING PRINCIPLE

The 'shrink disc' consists of a locking collar, a tapered inner ring and locking screws. By tightening the locking screws, the locking collar and tapered inner ring are pulled together, exerting radial forces on the inner ring, thus creating a positive friction connection between hollow shaft and driven shaft.

As the tapered surfaces of locking collar and inner ring are lubricated with Molykote 321R or similar and the taper angle is not self locking, locking collar will not seize on the inner ring and can be released easily when removal is necessary.

When the shrink disc is clamped in position the high contact pressures between tapered surfaces and screw heads and their seatings ensure hermetic sealing and eliminate the possibility of fretting corrosion.



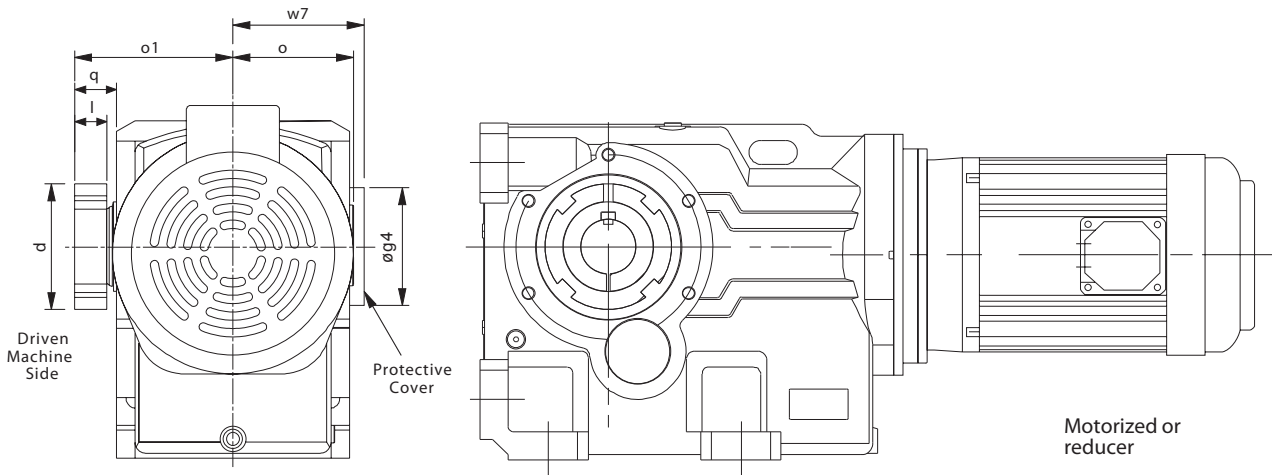
Note: only available as standard in this handing, please contact us for opposite handing

SIZE	D	D6	d7	f4	g4	m4	m5	m6	m7	o	o1	w7	Locking Screws Torque Ta (lbf.in)
K03	1.181	1.181	1.97	0.10	3.48	1.22	0.79	1.42	0.98	2.36	3.39	3.58	257
K04	1.378	1.378	2.17	0.10	4.25	1.26	0.79	1.46	0.98	2.95	4.02	4.45	257
K05	1.575	1.575	2.36	0.12	4.25	1.42	0.79	1.61	0.98	3.27	4.41	4.65	257
K06	1.575	1.575	2.76	0.14	5.24	1.5	0.79	1.69	0.98	3.54	4.65	5.51	257
K07	1.969	1.969	3.15	0.24	5.24	1.42	1.18	1.61	1.38	4.13	5.35	5.98	310
K08	2.559	2.559	3.54	0.20	6.38	1.61	1.57	1.81	1.77	4.72	6.34	6.89	515
K09	2.953	2.953	3.94	0.20	6.89	2.17	1.57	2.36	2.17	5.91	7.68	8.27	515
K10	3.740	3.740	4.720	0.20	7.87	2.56	2.36	2.76	2.56	6.89	9.06	9.65	885
K12	4.134	4.134	5.51	0.20	9.45	3.35	2.36	3.54	2.95	8.07	11.02	11.61	1415

SERIES K

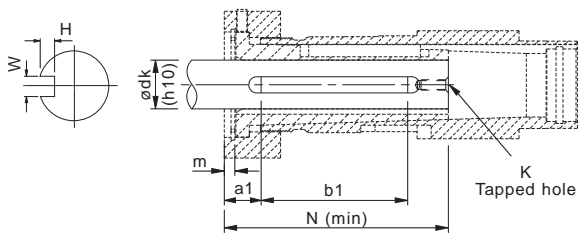
DIMENSIONS (Inches)

TAPER RELEASE BUSHING

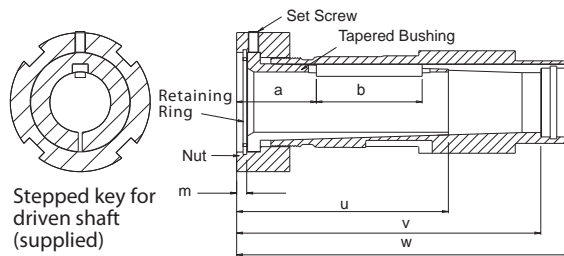


Note: only available as standard in this handing, please contact us for opposite handing

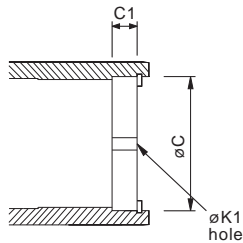
Driven shaft



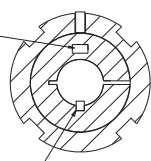
Thin walled



End plate (not supplied)

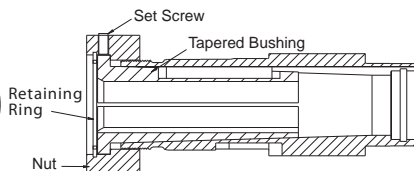


Hollow shaft key (supplied)



Square key for driven shaft (not supplied)

Thick walled



- Consult standard unit selection tables for HP and torque ratings

SIZE	Key		Bush		Hollow Shaft		Nut			Gear Unit			Cover	
	a	b	u	v	w	d	l	m	o	o1	q	g4	w7	
K05 (107)TR	1.90	2.50	5.00	7.50	8.20	3.31	1.26	0.27	4.57	3.27	1.61	4.25	4.65	
K06 (115)TR	2.10	2.75	5.55	8.50	9.88	4.06	1.46	0.30	5.04	3.54	1.77	5.24	5.51	
K07 (203)TR	1.55	3.25	5.55	9.55	11.3	4.31	1.46	0.30	5.35	4.13	1.61	5.24	5.98	
K08 (207)TR	1.24	4.25	6.11	10.0	11.0	4.81	1.46	0.30	6.56	4.72	2.03	6.38	6.89	
K09 (215)TR	2.09	3.50	7.08	12.6	13.5	5.68	1.76	0.38	7.95	5.91	2.24	6.89	8.27	
K10 (307)TR	1.59	5.00	7.39	14.0	15.62	6.06	1.76	0.38	9.10	6.89	2.41	7.87	9.65	
K12 (315)TR	1.88	5.00	7.67	16.4	18.0	6.81	1.8	0.42	10.33	8.07	2.46	9.45	11.61	

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

SERIES K

DIMENSIONS (Inches)

TAPER RELEASE BUSHING

size	Driven shaft diameter* (ødk)	bushing style	driven shaft keyway			driven shaft			end plate			circlip	bushing weight (lbs)	
			width (W)	depth (H)	min length ▲ (b1)	a1	K	N (min)	øC	C1	K1			
K05 (107)TR	1.000 / 0.996	Thick	1/4	1/8	2.75	-	1/2 UNC	5.0	1.64	0.30	5/8 UNC	N1300-0162	2.1	
	1.125 / 1.121	Thick	1/4	1/8	2.75	-	1/2 UNC	5.0	1.64	0.30	5/8 UNC	N1300-0162	1.8	
	1.188 / 1.184	Thick	1/4	1/8	2.75	-	1/2 UNC	5.0	1.64	0.30	5/8 UNC	N1300-0162	1.6	
	1.250 / 1.246	Thin	1/4	1/8	2.50	1.89	1/2 UNC	5.0	1.64	0.30	5/8 UNC	N1300-0162	1.5	
	1.438 / 1.434	Thin	3/8	3/16	2.50	1.89	1/2 UNC	5.0	1.64	0.30	5/8 UNC	N1300-0162	1.0	
K06 (115)TR	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	-	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	4.1	
	1.438 / 1.434	Thick	3/8	3/16	2.50	-	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	3.5	
	1.500 / 1.496	Thick	3/8	3/16	2.50	-	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	3.3	
	1.625 / 1.620	Thin	3/8	3/16	2.75	2.10	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	2.9	
	1.688 / 1.683	Thin	3/8	3/16	2.75	2.10	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	2.7	
	1.750 / 1.745	Thin	3/8	3/16	2.75	2.10	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	2.4	
	1.938 / 1.933	Thin	1/2	1/4	2.75	2.10	1/2 UNC	5.55	2.25	0.37	5/8 UNC	N1300-0225	1.7	
	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	
K07 (203)TR	1.500 / 1.496	Thick	3/8	3/16	2.75	-	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	5.1	
	1.625 / 1.620	Thick	3/8	3/16	2.75	-	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	4.6	
	1.688 / 1.683	Thick	3/8	3/16	2.75	-	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	4.4	
	1.750 / 1.745	Thick	3/8	3/16	2.75	-	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	4.4	
	1.875 / 1.870	Thin	1/2	1/4	3.25	1.56	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	3.6	
	1.938 / 1.933	Thin	1/2	1/4	3.25	1.56	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	3.3	
	2.000 / 1.995	Thin	1/2	1/4	3.25	1.56	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	3.0	
	2.188 / 2.183	Thin	1/2	1/4	3.25	1.56	5/8 UNC	5.55	2.43	0.43	3/4 UNC	N1300-0244	3.0	
	1.375 / 1.371	Thick	3/16	5/32	4.75	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	7.6	
K08 (207)TR	1.438 / 1.434	Thick	3/8	3/16	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	7.3	
	1.500 / 1.496	Thick	3/8	3/16	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	7.1	
	1.625 / 1.620	Thick	3/8	3/16	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	6.7	
	1.688 / 1.683	Thick	3/8	3/16	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	6.4	
	1.750 / 1.745	Thick	3/8	3/16	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	6.1	
	1.875 / 1.870	Thick	1/2	1/4	3.25	-	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	5.6	
	1.938 / 1.933	Thin	1/2	1/4	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	5.3	
	2.000 / 1.995	Thin	1/2	1/4	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	5.0	
	2.188 / 2.183	Thin	1/2	1/4	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	4.4	
	2.250 / 2.245	Thin	1/2	1/4	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	3.7	
	2.438 / 2.433	Thin	3/8	5/16	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	2.6	
	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	
	K09 (215)TR	2.000 / 1.995	Thick	1/2	1/4	5.25	-	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	11.1
		2.188 / 2.183	Thick	1/2	1/4	5.25	-	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	9.9
2.250 / 2.245		Thick	1/2	1/4	5.25	-	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	9.5	
2.438 / 2.433		Thin	5/8	5/16	3.50	2.09	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	8.3	
2.500 / 2.495		Thin	5/8	5/16	3.50	2.09	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	7.8	
2.688 / 2.682		Thin	5/8	5/16	3.50	2.09	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	6.5	
2.938 / 2.932		Thin	3/4	3/8	3.50	2.09	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	4.5	
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	
K10 (307)TR	2.188 / 2.183	Thick	1/2	1/4	5.25	-	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	16.6	
	2.250 / 2.245	Thick	1/2	1/4	5.25	-	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	16.2	
	2.438 / 2.433	Thick	5/8	5/16	5.25	-	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	14.9	
	2.500 / 2.495	Thick	5/8	5/16	5.25	-	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	14.4	
	2.688 / 2.682	Thin	5/8	5/16	5.00	1.59	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	13.0	
	2.938 / 2.932	Thin	3/4	3/8	5.00	1.59	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	10.9	
	3.000 / 2.994	Thin	3/4	3/8	5.00	1.59	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	10.3	
	3.188 / 3.182	Thin	3/4	3/8	5.00	1.59	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	8.6	
	3.438 / 3.432	Thin	7/8	7/16	5.00	1.59	1 UNC	7.39	3.74	0.56	1 1/8 UNC	N1300-0375	6.1	
	2.438 / 2.433	Thick	5/8	5/16	5.25	-	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	23.6	
	K12 (315)TR	2.500 / 2.495	Thick	5/8	5/16	5.25	-	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	23.1
		2.688 / 2.682	Thick	5/8	5/16	5.25	-	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	21.6
		2.938 / 2.932	Thick	3/4	3/8	5.00	-	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	19.4
3.000 / 2.994		Thick	3/4	3/8	5.00	-	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	18.8	
3.438 / 3.432		Thin	7/8	7/16	5.00	1.88	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	14.3	
3.938 / 3.932	Thin	1.0	1/2	5.00	1.88	1 UNC	7.92	4.32	0.75	1 1/8 UNC	N1300-0433	8.4		

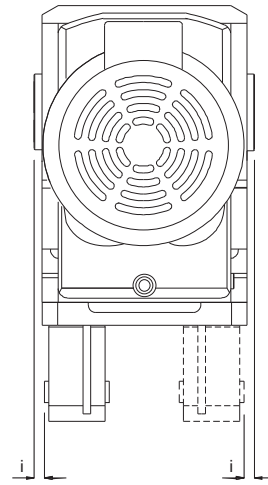
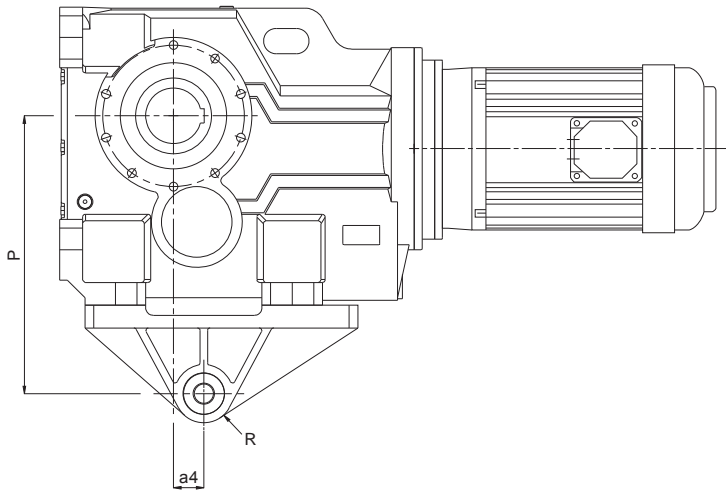
* Check strength of driven shaft

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

SERIES K

DIMENSIONS

TORQUE BRACKET



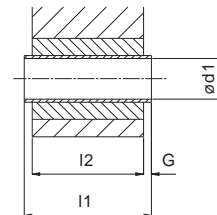
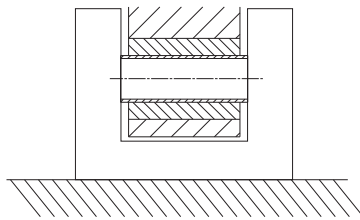
Column 9 Entry

Column 9 Entry

T Torque bracket on left

Q Torque bracket on right

The torque arm requires a Stirrup type anchoring



SIZE	a4	d1	G	i	I1	I2	P	R
K03	0.93	0.413 0.406	0.08	0.79	1.42	1.26	5.51	0.91
K04	1.18	0.413 0.406	0.08	0.79	1.42	1.26	6.3	0.91
K05	1.57	0.650 0.642	0.08	0.71	2.36	2.20	7.56	1.50
K06	1.77	0.650 0.642	0.08	0.98	2.36	2.20	7.87	1.50
K07	2.07	0.650 0.642	0.08	0.98	2.36	2.20	9.84	1.50
K08	2.36	0.994 0.974	0.20	1.18	3.15	2.76	11.81	1.77
K09	2.76	0.994 0.974	0.20	1.57	3.94	3.54	13.78	1.77
K10	2.91	0.994 0.974	0.20	1.77	3.94	3.54	17.72	1.77
K12	2.36	1.506 1.486	0.31	0.39	4.96	4.33	21.65	2.50

NOTES:

It is recommended that the torque arm is fitted on the side of the unit adjacent to the driven machine.
The use of a fitted bolt is recommended.

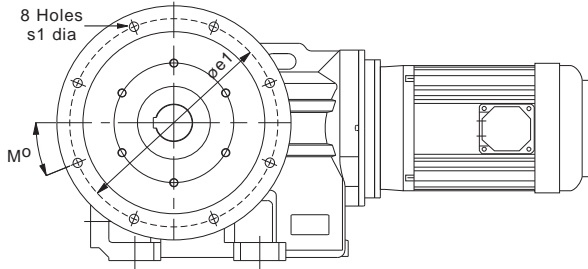
SERIES K

DIMENSIONS

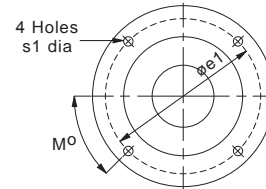
ALL UNITS

STANDARD UNIT WITH B5 (D) FLANGE

Sizes K09 to K12

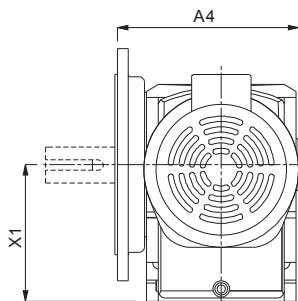


Sizes K03 to K08



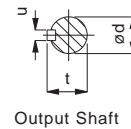
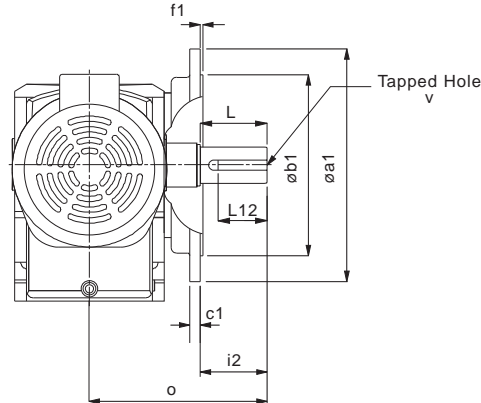
Column 9 Entry

F B5 (D) Output Flange on Left



Column 9 Entry

H B5 (D) Output Flange on Right



SIZE	Øa1	a4	Øb1	c1	Øe1	f1	h	m	Øs1
K03	6.3	5.67	4.33 j6	0.39	5.12	0.14	3.94	45°	0.35
K04	7.87	7.48	5.12 j6	0.47	6.5	0.14	4.41	45°	0.43
K05	9.84	7.44	7.09 j6	0.63	8.46	0.16	5.2	45°	0.55
K06	9.84	8.66	7.09 j6	0.63	8.46	0.16	5.51	45°	0.55
K07	11.81	9.72	9.06 j6	0.71	10.43	0.16	7.09	45°	0.55
K08	13.78	11.22	9.84 h6	0.71	11.81	0.2	8.35	45°	0.71
K09	17.72	13.82	13.78 h6	0.79	15.75	0.2	10.43	22.5°	0.71
K10	17.72	16.16	13.78 h6	0.87	15.75	0.2	12.4	22.5°	0.71
K12	17.72	18.52	13.78 h6	0.87	15.75	0.2	14.76	22.5°	0.71

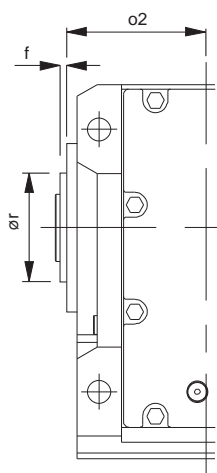
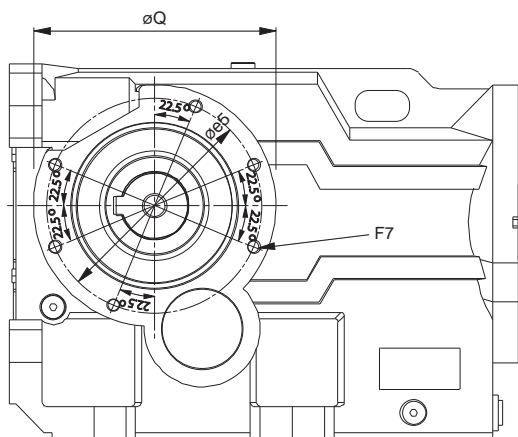
SIZE	Output shaft							
	d	i2	L	L12	o	t	u	v
K0332	1.0000 / 0.9995	1.97	1.97	1.57	5.28	1.106	0.25	3/8 UNF x 0.75" Deep
K0432	1.2500 / 1.2495	2.36	2.36	1.97	6.89	1.359	0.25	1/2 UNF x 1.13" Deep
K0532	1.3750 / 1.3745	2.76	2.76	2.36	6.93	1.507	0.313	5/8 UNF x 1.5" Deep
K0632	1.625 / 1.624	3.15	3.15	2.76	8.27	1.784	0.375	5/8 UNF x 1.5" Deep
K0732	2.000 / 1.999	3.94	3.94	3.15	9.53	2.228	0.5	5/8 UNF x 1.5" Deep
K0832	2.375 / 2.374	4.72	4.72	3.94	11.22	2.65	0.625	3/4" 16 UNF x 1.65 Deep
K0931	2.875 / 2.874	5.51	5.51	4.33	13.43	3.2	0.75	3/4" 16 UNF x 1.65 Deep
K1031	3.625 / 3.624	6.69	6.69	5.51	15.96	4.01	0.875	3/4" 16 UNF x 1.65 Deep
K1231	4.375 / 4.374	8.27	8.27	7.09	18.72	4.81	1	1" 12 UNF x 2.17 Deep

SERIES K

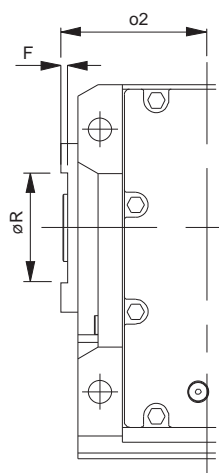
DIMENSIONS

ALL UNITS

K03, K04 & K08

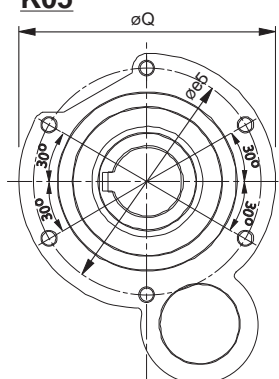


Male spigot
K03 - K07

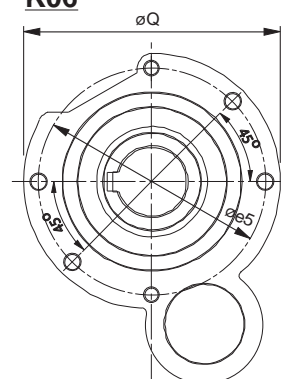


Female recess
K08 - K12

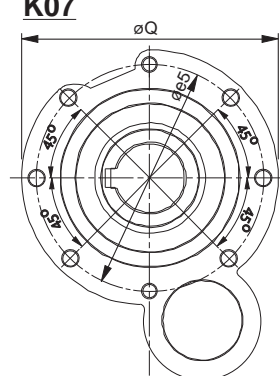
K05



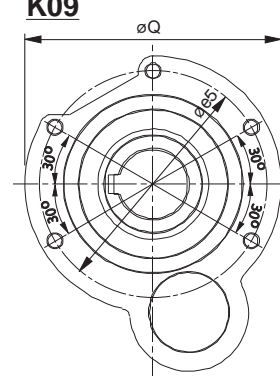
K06



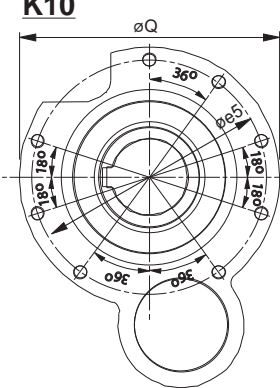
K07



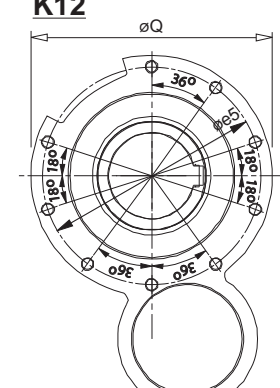
K09



K10



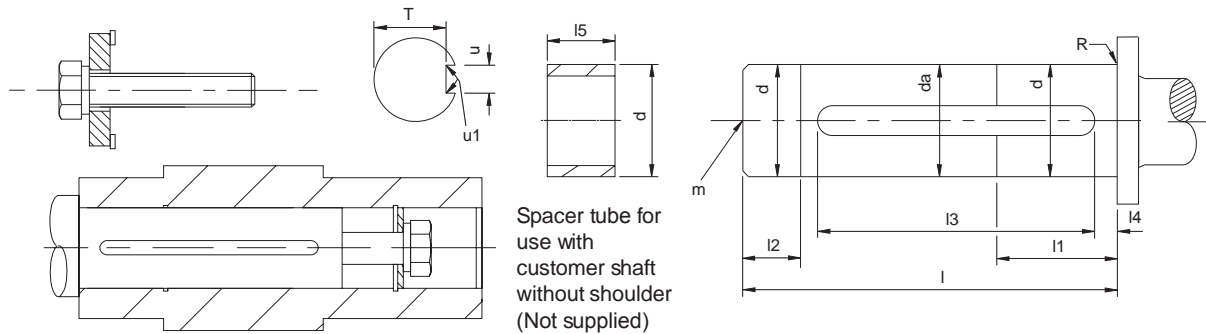
K12



SIZE	øe5	F7	ø2	øQ	Ør (h7) spigot Ø	ØR (H7)	Spigot f	Recess F
K03	4.21	6 Holes M8 x 1.25, 0.47 Deep	2.17	4.8	3.346	-	0.1	-
K04	5.12	6 Holes M8 x 1.25, 0.47 Deep	2.76	5.75	4.134	-	0.1	-
K05	4.92	6 Holes M10 x 1.5, 0.67 Deep	2.95	5.91	4.134	-	0.12	-
K06	5.91	6 Holes M10 x 1.5, 0.67 Deep	3.27	7.09	5.118	-	0.14	-
K07	5.91	8 Holes M10 x 1.5, 0.67 Deep	3.74	7.09	5.118	-	0.24	-
K08	7.68	6 Holes M12 x 1.75, 0.79 Deep	4.53	8.66	-	5.906	-	0.2
K09	9.06	5 Holes M16 x 2.0, 1.06 Deep	5.71	10.24	-	7.087	-	0.24
K10	11.02	8 Holes M16 x 2.0, 1.06 Deep	6.69	12.2	-	8.268	-	0.28
K12	11.02	9 Holes M16 x 2.0, 1.06 Deep	7.87	12.2	-	8.268	-	0.28

SERIES K 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
K03	1.2496 1.2490	1.23	3.23	1.77	0.59	3	0.12	0.91	3/8 x UNF 0.875 deep	12 lb.ft	0.03	1.112 1.106	0.252 0.25	0.01
K04	1.3746 1.3740	1.36	4.29	2.36	0.79	3.56	0.12	0.91	1/2 x UNF 1.25 deep	15 lb.ft	0.03	1.201 1.195	0.3145 0.3125	0.01
K05	1.4996 1.4990	1.48	4.41	2.36	0.79	3.63	0.12	1.18	5/8 x UNF 1.69 deep	35 lb.ft	0.03	1.289 1.283	0.377 0.375	0.01
K06	1.4996 1.4990	1.48	4.96	2.95	0.98	4	0.12	1.18	5/8 x UNF 1.69 deep	35 lb.ft	0.03	1.289 1.283	0.377 0.375	0.01
K07	1.9996 1.9990	1.98	6.02	3.54	1.18	5	0.12	1.18	5/8 x UNF 1.42 deep	35 lb.ft	0.03	1.718 1.712	0.502 0.5	0.02
K08	2.3746 2.3739	2.35	6.81	3.54	1.18	5	0.12	1.45	3/4 x UNF 1.65 deep	60 lb.ft	0.03	2.021 2.006	0.627 0.625	0.02
K09	2.7496 2.7489	2.73	9.13	4.13	1.38	5.35	0.12	1.5	3/4 x UNF 1.65 deep	60 lb.ft	0.03	2.402 2.387	0.627 0.625	0.02
K10	3.2495 3.2486	3.23	10.83	4.72	1.57	6.75	0.2	1.45	3/4 x UNF 1.65 deep	60 lb.ft	0.03	2.831 2.816	0.752 0.75	0.02
K12	3.9995 3.9986	3.98	12.87	5.91	1.97	7.5	0.39	1.81	1 x UNF 2 deep	160 lb.ft	0.03	3.436 3.421	1.002 1.000	0.02

Assembly Instructions

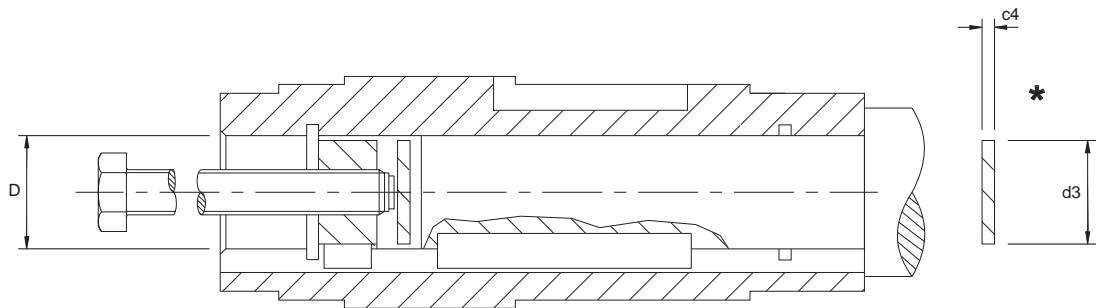
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DF5M or equivalent antiscuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.
5. Secure in place with the washer and bolt. Torque tighten to the values stated in column N of the above table.

SERIES K

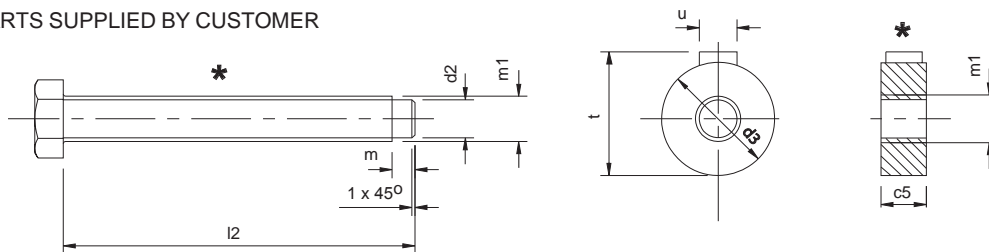
DIMENSIONS

STANDARD BORE DISASSEMBLY

DISASSEMBLY METHOD FROM SHAFT



* PARTS SUPPLIED BY CUSTOMER



SIZE	c4	c5	D	d2	d3	l2	m	m1	t (max)	U (max)
K03	0.2	0.59	1.25	0.5	1.245	6	0.2	5/8 UN	1.35	0.25
K04	0.2	0.59	1.375	0.5	1.37	6	0.2	5/8 UN	1.5	0.313
K05	0.2	0.79	1.5	0.81	1.495	7	0.2	1 UN	1.65	0.375
K06	0.2	0.79	1.5	0.81	1.495	7	0.2	1 UN	1.65	0.375
K07	0.2	0.79	2	0.81	1.995	8.5	0.2	1.0 UN	2.2	0.5
K08	0.31	0.94	2.375	1	2.37	10	0.2	1.25 UN	2.63	0.625
K09	0.31	0.94	2.75	1	2.745	12.5	0.2	1.25 UN	3.01	0.625
K10	0.31	0.94	3.25	1	3.245	14	0.2	1.25 UN	3.57	0.75
K12	0.31	1.15	4	1.23	3.995	16.5	0.2	1.5 UN	4.42	1

SERIES K

SHIPPING SPECIFICATION

SHIPPING WEIGHT (lbs)

UNIT SIZE AND NUMBER OF REDUCTIONS		K0332	K0352	K0432	K0452	K0532	K0552	K0632	K0652	K0732	K0752	K0832	K0852	K0932	K0952	K1032	K1052	K1232	K1252	
REDUCER VERSION		35	53	46	64	71	95	88	112	134	154	249	306	384	434	675	708	1010	1069	
OUTPUT SHAFT		2	2	2	2	3	3	4	4	8	8	13	13	24	24	41	41	76	76	
OUPUT FLANGE		3	3	6	6	9	9	12	12	15	15	33	33	37	37	57	57	57	57	
MOTORIZED	56C	Without Motor	38	57	50	68	69	99	86	117	129	157	257	306	434	771	1063			
		With Motor	63	82	75	93	94	124	111	142	154	182	282	331	459	796	1088			
	143TC	Without Motor	38	57	50	68	69	99	86	117	129	157	257	306	434	771	1063			
		With Motor	68	87	80	98	99	129	116	147	159	187	287	336	464	801	1093			
	145TC	Without Motor	38	57	50	68	69	99	86	117	129	157	257	306	434	771	1063			
		With Motor	78	97	90	108	109	139	126	157	169	197	297	346	474	811	1103			
	182TC	Without Motor	41	60	52	71	84	102	102	120	142	160	264	321	387	449	663	784	971	1077
		With Motor	96	115	107	126	139	157	157	175	197	215	319	376	442	504	718	839	1026	1132
	184TC	Without Motor	41	60	52	71	84	102	102	120	142	160	264	321	387	449	663	784	971	1077
		With Motor	118	137	129	148	161	179	179	197	219	237	341	398	464	526	740	861	1048	1154
	213TC	Without Motor					84		102		142		264	321	387	663	784	984	1077	
		With Motor					200		218		258		380	437	503	779	900	1100	1193	
	215TC	Without Motor					84		102		142		264	321	387	663	784	984	1077	
		With Motor					241		259		299		421	478	544	820	941	1141	1234	
	254TC	Without Motor									142		264	321	387	663	984	1077		
		With Motor									425		547	670	946	1267	1360			
	256TC	Without Motor									142		264	321	387	663	984	1077		
		With Motor									448		570	693	969	1290	1383			
	284TC	Without Motor												422	698	984				
		With Motor												851	1127	1413				
	286TC	Without Motor												422	698	984				
		With Motor												868	1144	1430				
	324TC	Without Motor												422	698	997				
		With Motor												945	1221	1520				
	326TC	Without Motor												422	698	997				
		With Motor												1072	1348	1647				
	364TC	Without Motor																	997	
		With Motor																	1713	
	365TC	Without Motor																	997	
		With Motor																	1836	
404TC	Without Motor																	1028		
	With Motor																	2087		
405TC	Without Motor																	1028		
	With Motor																	2228		

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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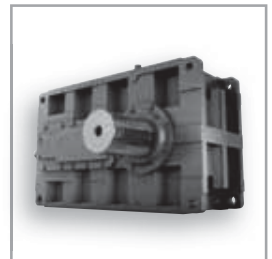
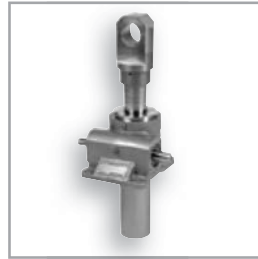
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