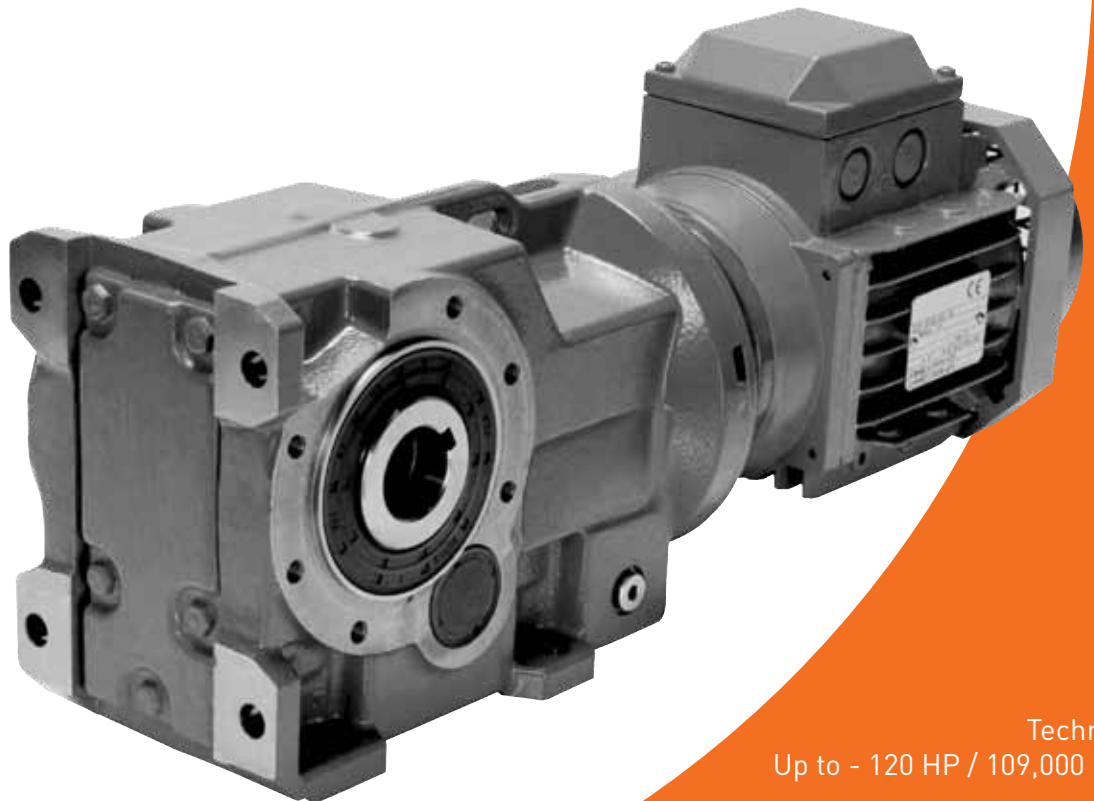


# radicon

with you at every turn

Series K Helical Bevel

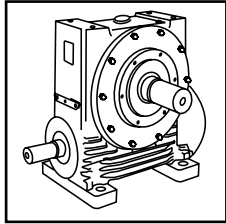


Technical  
Up to - 120 HP / 109,000 lb.in

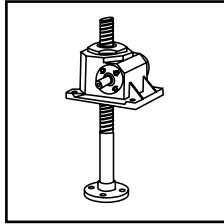
Geared Motors  
CK-2.00US1211

# PRODUCTS IN THE RANGE

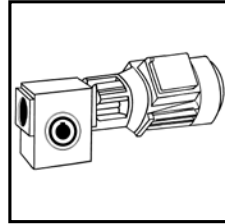
Serving an entire spectrum of mechanical drive applications from food, energy, mining and metal; to automotive, aerospace and marine propulsion, we are here to make a positive difference to the supply of drive solutions.



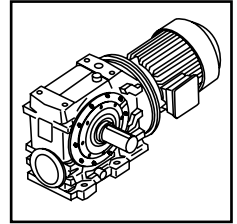
**Series A**  
Worm Gear units  
and geared motors  
in single & double  
reduction types



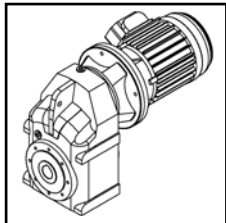
**Series BD**  
Screwjack worm  
gear unit



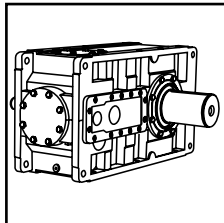
**Series BS**  
Worm gear unit



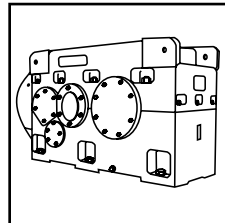
**Series C**  
Right angle drive  
helical worm geared  
motors & reducers



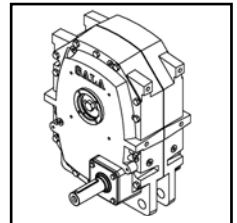
**Series F**  
Parallel angle helical  
bevel helical geared  
motors & reducers



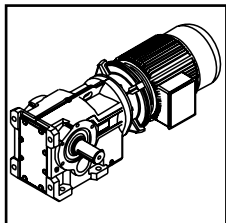
**Series G**  
Helical parallel shaft  
& bevel helical right  
angle drive gear  
units



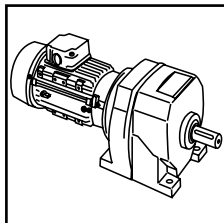
**Series H**  
Large helical parallel  
shaft & bevel helical  
right angle drive units



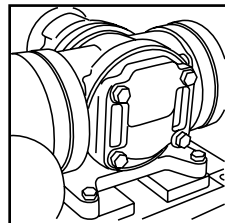
**Series J**  
Shaft mounted  
helical speed  
reducers



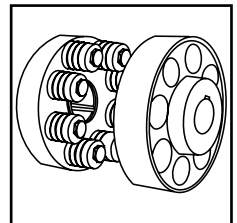
**Series K**  
Right angle helical  
bevel helical geared  
motors & reducers



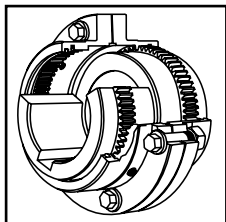
**Series M**  
In-line helical geared  
motors & reducers



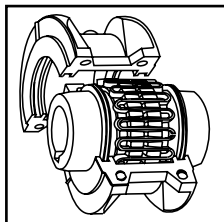
**Roloid Gear Pump**  
Lubrication and fluid  
transportation pump



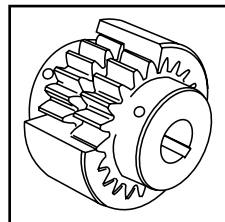
**Series X  
Cone Ring**  
Pin and bush  
elastomer coupling



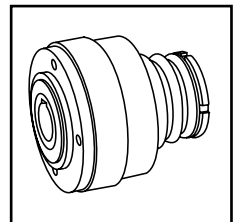
**Series X  
Gear**  
Torsionally rigid,  
high torque coupling



**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.

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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.

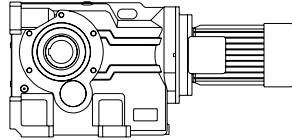
All units are dimensionally interchangeable with other major European manufacturers

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.

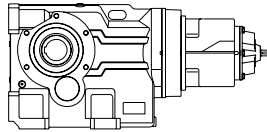
*As improvements in design are being made continually this specification is not to be regarded as binding in detail and drawings and capacities are subject to alteration without notice. Certified drawings will be sent on request.*



Motorized Triple Reduction  
Standard Unit With Feet

\* 

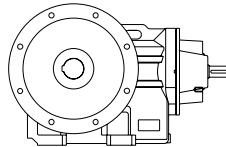
K	0	8	3	2	5	0	.	B	M	C	-	1	B	7	.	5	A	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Quintuple Reduction  
Standard Unit With Feet

\* 

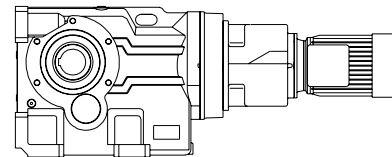
K	0	8	5	2	1	2	C	B	R	C	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Reducer Triple Reduction Standard  
Unit With Output Flange On Left

\* 

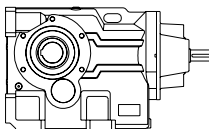
K	0	9	3	1	5	0	.	F	R	H	-	1	-	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



Motorized Quintuple Reduction  
Standard Unit With Feet

\* 

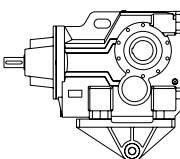
K	0	8	5	2	1	2	C	B	M	C	-	1	B	.	2	5	A	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---



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																				
Example	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

**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

**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 \*\*\*

\* This Page May Be Photocopied Allowing The Customer To Enter Their Order  
 To access the on line configurator please visit [www.radicon.com](http://www.radicon.com)

† Bushings must be ordered seperatly

# 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 $\leq 0.2$	Moderate mass acceleration factor $\leq 3$	Heavy mass acceleration factor $\leq 10$
Electric motor, steam turbine or hydraulic motor	Under 3	0.80	1.00	1.50
	3 to 10	1.00	1.25	1.75
	Over 10	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Under 3	1.00	1.25	1.75
	3 to 10	1.25	1.50	2.00
	Over 10	1.50	1.75	2.25
Single cylinder internal combustion engine	Under 3	1.25	1.50	2.00
	3 to 10	1.50	1.75	2.25
	Over 10	1.75	2.00	2.50

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

\* calculated with reference to the motor speed

**Table 2. Number of Starts Factor (Fs)**

Start / Stops per hour (1)	Up to 1	5	10	40	60	$\geq 200$
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**

**| = Refer to  
Application Engineering**

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

# 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 <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 .		

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:-

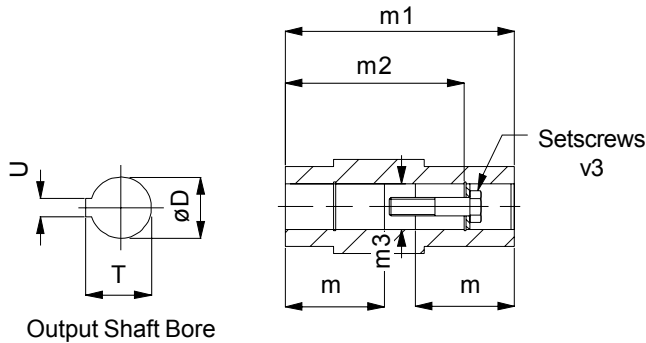
- a) Inertia of the Driven Machine (Referred to motor speed) >10 Inertia of Gear Unit plus Motor
- b) Ambient temperature is above 104°F

# SERIES K

## OUTPUT OPTIONS

### OUTPUTBORE OPTIONS. COLUMN 11 ENTRY

Inch / metric Hollow shaft



### 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\*\*

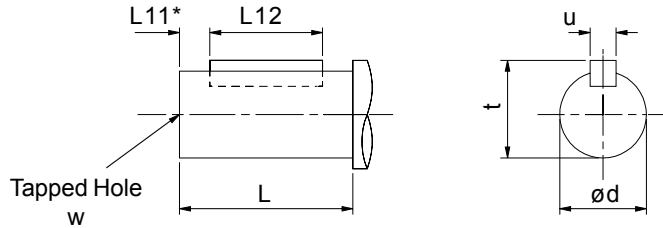
\* See pages 62 - 64 for dimensions of these shaft options  
 \*\* See page 13 for clarification of unit handings

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	-	E	-	E	-	-	
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	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	F	F	F	F	-	F	-	F	-	F	-	V	-	V	-	-	-	-	
71	G	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	H	H	H	H	-	H	-	H	-	H	-	F	-	F	-	-	-	-	
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	F	S	F	S	F	S	F	S	F	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	N	

# 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

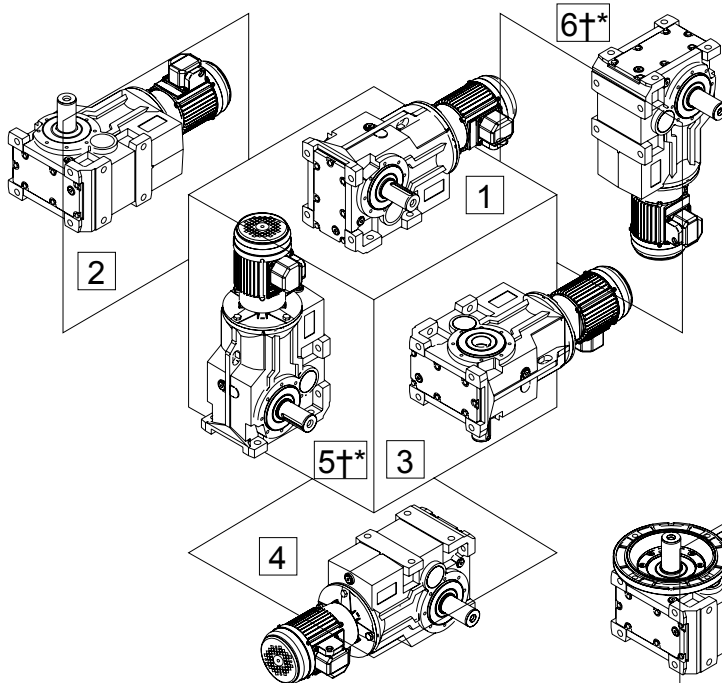
# SERIES K

## MOUNTING POSITIONS

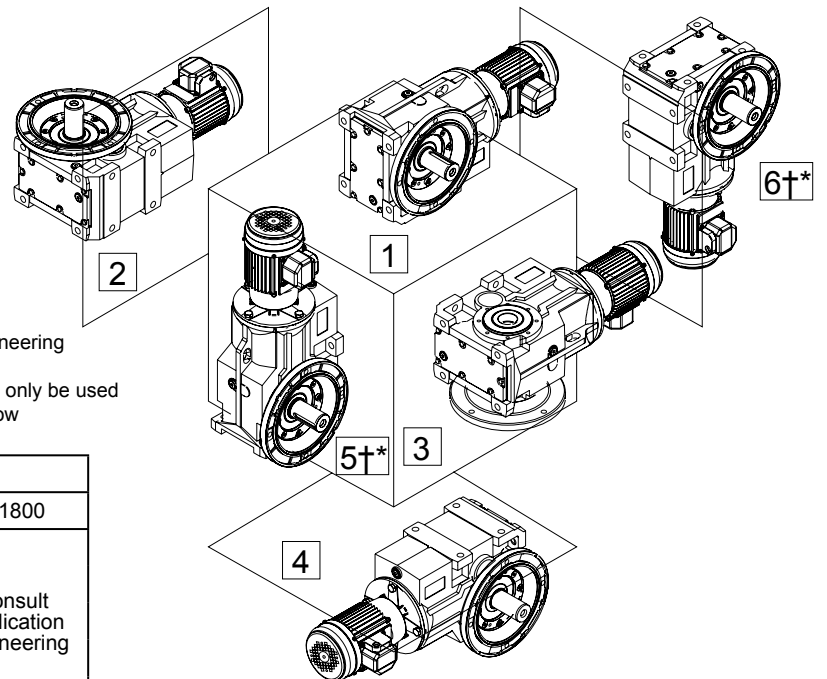
### COLUMN 13 ENTRY

Enter  for units with no oil fill

#### Base Mounted Units



#### Flange Mounted Units



\* Not Recommended for Geared Motors - Consult Application Engineering

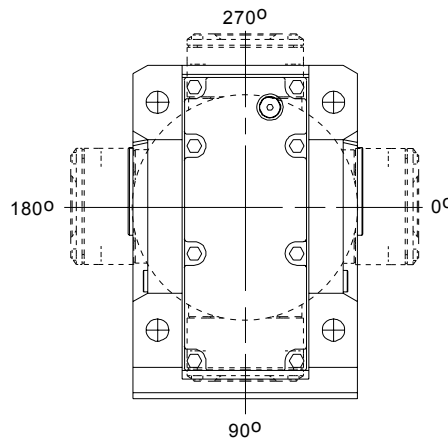
† Gear Units selected for use in mounting positions 5 and 6 should only be used with overall ratios greater or equal to those shown in the table below

Unit Size	Input Speed (rpm)			
	< 1000	< 1500	< 1800	> 1800
K03 - K07	8.0	8.0	8.0	Consult Application Engineering
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

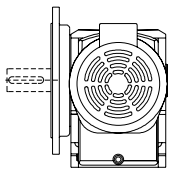
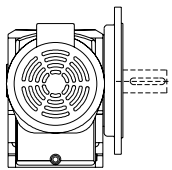
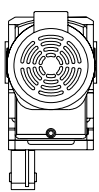
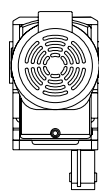
ALL MOTORS

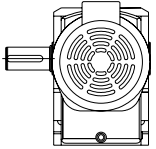
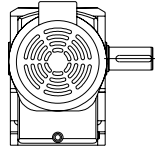
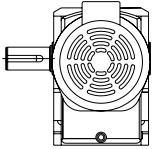
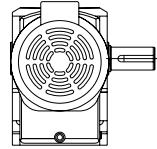
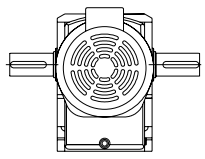
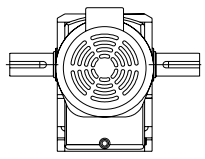
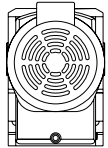
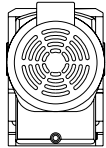
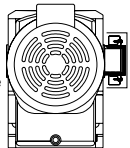
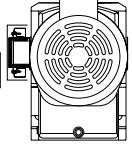
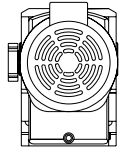



Column 14 Entry	Terminal Box Position
A	0°
B	90°
C	180°
D	270°
-	Reducer or no motor fitted

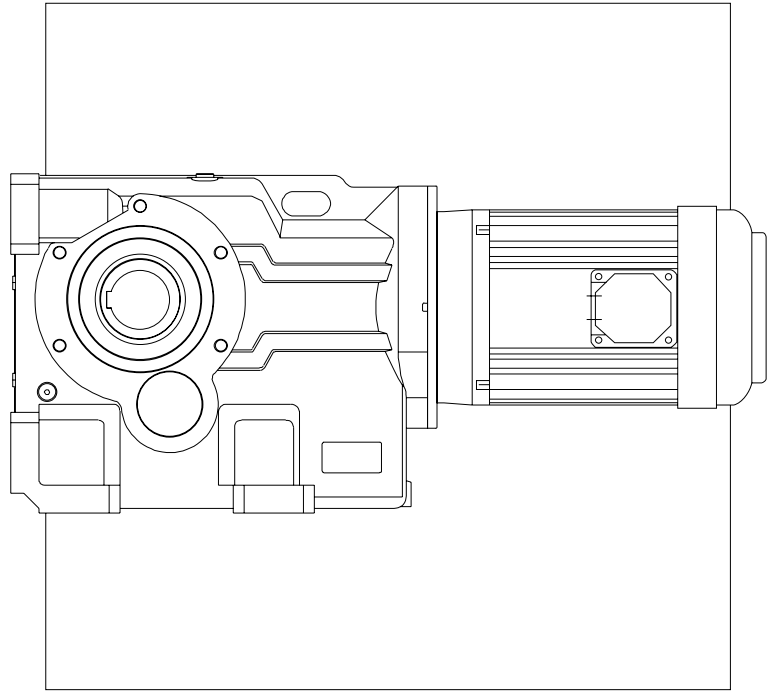
# SERIES K

## 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



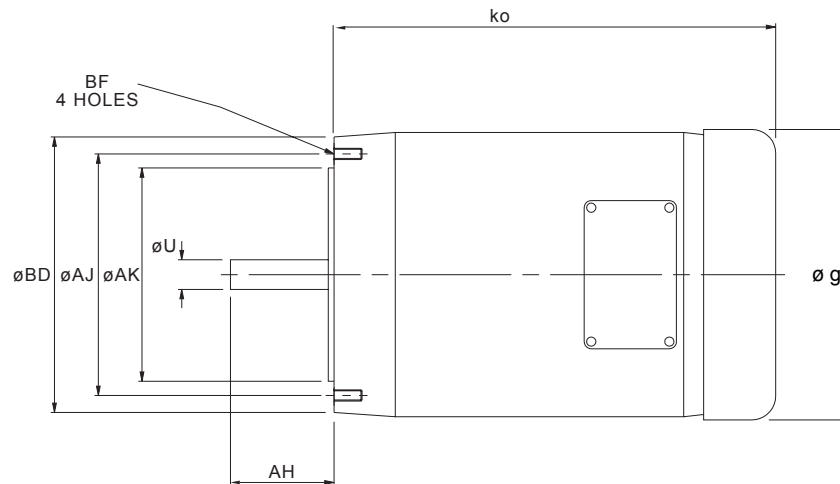


**MOTORIZED**  
**SERIES K**

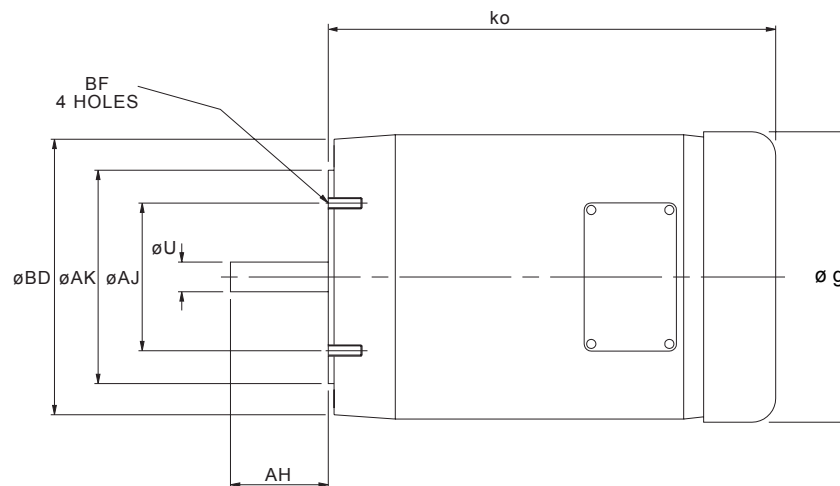
# SERIES K

## MOTOR DETAILS

### NEMA Standard Motors



MOTOR FRAME SIZE	$\varnothing BD$	$\varnothing AJ$	$\varnothing AK$	$\varnothing U$	AH	Ko max	$\varnothing g$	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	$\varnothing BD$	$\varnothing AJ$	$\varnothing AK$	$\varnothing U$	AH	Ko max	$\varnothing g$	BF TAP UNC
182TC/184TC	9.00	7.25	8.5	1.125	2.63	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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size	
<b>0.25 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit		
<b>4 POLE</b> 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			
	<b>0.33 HP</b>  4 POLE 1750 rpm nominal input speed	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
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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size		
<b>0.33 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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					
<b>0.50 HP</b>	207	8.33	146	7.98	897	K 0 3 3 2 8 . 0 _ N _ _ _ _ . 5 0 B - -	59.5			56C
	153	11.25	197	6.66	977	1 1 .				
	135	12.80	226	6.11	1016	1 2 .				
	119	14.50	256	5.66	1055	1 4 .				
	93	18.54	327	4.81	1133	1 8 .				
	86	19.98	352	4.57	1159	2 0 .				
	68	25.23	444	3.86	1240	2 5 .				
	60	28.60	505	3.52	1284	2 8 .				
	53	32.68	575	3.20	1285	3 2 .				
	47	36.35	636	2.96	1286	3 6 .				
	43	40.08	701	2.75	1286	4 0 .				
	39	44.11	777	2.55	1286	4 5 .				
	33	51.68	909	2.19	1315	5 0 .				
	28	62.00	1090	1.83	1321	6 3 .				
	24	72.27	1270	1.57	1348	7 1 .				
	21	80.30	1407	1.41	1348	8 0 .				
	18	96.70	1696	0.97	1348	1 0 0				
	13	127.79	2137	0.93	1348	K 0 3 5 2 1 2 5 _ N _ _ _ _ . 5 0 B - -		79.3	56C	
	12	145.34	2432	0.82	1348	1 4 0				
	29	59.24	1039	3.75	1348	K 0 4 3 2 6 3 . _ N _ _ _ _ . 5 0 B - -		72.7	56C	
24	71.09	1243	3.07	1348	7 1 .					
22	80.10	1393	2.75	1348	8 0 .					
19	93.12	1631	2.19	1348	1 0 0					
16	105.69	1846	1.97	1348	1 1 2					
14	120.15	2097	1.86	1348	1 2 5					
13	134.38	2264	1.73	1348	K 0 4 5 2 1 2 5 _ N _ _ _ _ . 5 0 B - -	90.3	56C			
12	147.98	2487	1.57	1348	1 4 0					
10	170.21	2845	1.37	1348	1 6 0					
8.6	199.90	3363	1.16	1348	2 0 0					
6.7	257.59	4336	0.90	1348	2 5 0					
6.1	284.33	4740	0.82	1348	2 8 0					

**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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
<b>0.50 HP</b>  4 POLE 1750 rpm nominal input speed	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	
	0.95	1811.28	31030	3.79	16198	K 1 2 5 1 1 8 C _ N _ _ _ _ . 5 0 B - -	1084.6	56C
	0.84	2041.68	34956	3.37	16198	2 0 C		
	0.77	2235.86	38252	3.08	16198	2 2 C		
	0.64	2683.03	45807	2.57	16198	2 5 C		
0.59	2887.22	49061	2.40	16198	2 8 C			
<b>0.75 HP</b>  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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size		
<b>0.75 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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				
4 POLE 1750 rpm nominal input speed	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					
4 POLE 1750 rpm nominal input speed	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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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
<b>1.00 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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			
<b>1.5 HP</b>	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 .			
4 POLE 1750 rpm nominal input speed	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 .			
4 POLE 1750 rpm nominal input speed	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			
4 POLE 1750 rpm nominal input speed	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			
4 POLE 1750 rpm nominal input speed	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

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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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 .		
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		

**NOTE**

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

# 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	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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	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	
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
<b>3.00 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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		
<b>5.00 HP</b>	214	8.05	1415	1.54	1040	K 0 4 3 2 8 . 0 _ N _ _ _ _ 5 . 0 B - -	127.9	184TC
4 POLE 1750 rpm nominal input speed	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

<b>5.00 HP</b>	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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	
	11 7.6	160.93 226.25	27622 38839	1.21 0.86	7643 7643	K 0 9 5 1 1 6 0 _ N _ _ _ _ 5 . 0 B - - 2 0 0	524.7	184TC
	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		
<b>7.5 HP</b>	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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
<b>7.50 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> 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			
<b>10.0 HP</b>	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

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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size		
34	50.41	17716	3.62	11205	K 1 0 3 1 5 0 . _ N _ _ _ _ 1 0 . B - -	801.6	215TC		
32	54.61	19111	3.36	11200	5 6 .				
28	60.68	21291	3.01	11200	6 3 .				
24	71.89	25283	2.54	11194	7 1 .				
21	82.83	29067	2.21	11189	8 0 .				
20	86.53	30339	2.11	11189	9 0 .				
17	99.70	34923	1.84	11190	1 0 0				
15	112.03	39147	1.64	11180	1 1 2				
14	120.36	42211	1.52	11178	1 2 5				
13	134.85	47129	1.36	11165	1 4 0				
12	144.88	50461	1.27	11195	1 6 0				
10	166.84	57315	1.15	11159	K 1 0 5 1 1 6 0 _ N _ _ _ _ 1 0 . B - -			861.1	215TC
7.5	231.10	79399	0.83	11159	2 0 0				
21	83.10	29038	3.69	16259	K 1 2 3 1 8 0 . _ N _ _ _ _ 1 0 . B - -	1121.3	215TC		
19	89.89	31314	3.48	16254	9 0 .				
17	100.12	34896	3.12	16241	1 0 0				
15	113.79	39714	2.70	16235	1 1 2				
14	121.06	42417	2.52	16229	1 2 5				
13	137.09	47881	2.27	16247	1 4 0				
12	145.85	50837	2.14	16248	1 6 0				
10	172.15	59296	1.81	16198	K 1 2 5 1 1 6 0 _ N _ _ _ _ 1 0 . B - -			1213.8	215TC
6.4	268.79	92469	1.16	16198	2 0 0				
7.2	238.46	82140	1.30	16198	2 5 0				
5.7	301.94	103874	1.03	16198	2 8 0				
5.2	331.99	114220	0.94	16198	3 2 0				
4.5	384.70	132501	0.81	16198	3 6 0				

#### 15.0 HP

4 POLE  
1750 rpm  
nominal  
input speed

205	8.60	4410	1.42	1813	K 0 7 3 2 8 . 0 _ N _ _ _ _ 1 5 . B - -	392.1	254TC		
148	11.91	6130	1.42	1818	1 1 .				
132	13.37	6915	1.42	1833	1 2 .				
120	14.71	7586	1.41	1845	1 4 .				
92	19.21	9995	1.17	1834	1 8 .				
81	21.84	11345	1.06	1820	2 0 .				
217	8.13	4192	2.85	2072	K 0 8 3 2 8 . 0 _ N _ _ _ _ 1 5 . B - -			515.6	254TC
153	11.52	5938	2.74	2038	1 1 .				
138	12.80	6585	2.61	2047	1 2 .				
124	14.24	7364	2.46	2050	1 4 .				
96	18.41	9501	2.07	2021	1 8 .				
85	20.67	10691	1.88	1993	2 0 .				
69	25.35	13125	1.59	1974	2 5 .				
62	28.56	14735	1.45	1910	2 8 .				
53	33.24	17089	1.29	1873	3 2 .				
48	36.88	18952	1.20	1705	3 6 .				
44	40.36	20868	1.12	1601	4 0 .				
39	45.66	23554	1.01	1456	4 5 .				
34	51.54	26567	0.89	2540	5 0 .				
98	17.93	9243	3.25	7643	K 0 9 3 1 1 8 . _ N _ _ _ _ 1 5 . B - -	639	254TC		
88	20.03	10319	2.98	7643	2 0 .				
81	21.61	11122	3.18	7643	2 2 .				
73	24.14	12426	2.91	7643	2 5 .				
63	27.78	14342	2.30	7643	2 8 .				
56	31.67	16348	2.04	7643	3 2 .				
53	33.47	17195	2.17	7643	3 6 .				
46	38.16	19640	1.90	7643	4 0 .				
39	44.89	23111	1.45	7643	4 5 .				
35	49.87	25661	1.30	7643	5 0 .				
33	54.09	27813	1.34	7643	5 6 .				
29	60.10	30927	1.20	7643	6 3 .				
25	70.45	36125	0.93	7643	7 1 .				
23	77.78	40096	0.83	7643	8 0 .				
21	84.89	43531	0.86	7643	9 0 .				
53	33.10	17114	3.75	11217	K 1 0 3 1 3 2 . _ N _ _ _ _ 1 5 . B - -	914.6	254TC		
50	35.19	18159	3.53	11217	3 6 .				
44	39.84	20566	3.12	11217	4 0 .				
39	45.37	23476	2.73	11034	4 5 .				
35	50.41	26046	2.46	11196	5 0 .				
32	54.61	28097	2.28	11188	5 6 .				
29	60.68	31301	2.05	11187	6 3 .				
24	71.89	37170	1.73	11178	7 1 .				
21	82.83	42734	1.50	11168	8 0 .				
20	86.53	44604	1.44	11168	9 0 .				
18	99.70	51343	1.25	11170	1 0 0				
16	112.03	57554	1.11	11154	1 1 2				
15	120.36	62058	1.03	11150	1 2 5				
13	134.85	69288	0.93	11128	1 4 0				

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

# SERIES K

## SELECTION TABLES

### GEARED MOTORS

#### 15.00 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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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

4 POLE  
1750 rpm  
nominal  
input speed

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	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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

#### 30.00 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 <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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	324TC
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

	N2 R/MIN	i	M2 lb.in	Fm	lb	Unit Designation	lb	Motor Size
<b>50.00 HP</b>	Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	
<b>4 POLE</b> 1750 rpm nominal input speed	219	8.03	13771	1.56	6047	K 0 9 3 1 8 . 0 _ N _ _ _ _ 5 0 . B - -	1073.3	326TC
	182	9.68	16547	1.56	6024	1 0 .		
	159	11.06	19028	1.32	5867	1 1 .		
	142	12.40	21349	1.24	5799	1 2 .		
	132	13.33	22861	1.32	5889	1 4 .		
	118	14.94	25648	1.24	5844	1 6 .		
	98	17.93	30812	0.97	5619	1 8 .		
	88	20.03	34398	0.89	6204	2 0 .		
	81	21.61	37076	0.95	6271	2 2 .		
	73	24.14	41420	0.87	6159	2 5 .		
	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	1 0 .		
	152	11.54	19900	2.50	9239	1 1 .		
	140	12.55	21639	2.38	9262	1 2 .		
	127	13.89	23908	2.50	9374	1 4 .		
	116	15.11	26019	2.38	9486	1 6 .		
	95	18.57	32019	1.90	9621	1 8 .		
	88	20.05	34544	1.79	9688	2 0 .		
	79	22.35	38431	1.67	9846	2 2 .		
	73	24.13	41516	1.55	9891	2 5 .		
	60	29.24	50400	1.27	9801	2 8 .		
	53	33.10	57048	1.12	9733	3 2 .		
	50	35.19	60532	1.06	9846	3 6 .		
	44	39.84	68556	0.94	10723	4 0 .		
	39	45.37	78253	0.82	10498	4 5 .		
	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	1 0 .		
	149	11.80	20384	3.05	14342	1 1 .		
	136	12.96	22417	3.05	14430	1 2 .		
	124	14.21	24507	3.05	14662	1 4 .		
	113	15.61	26946	3.05	14843	1 6 .		
	97	18.20	31360	3.05	14915	1 8 .		
	87	20.17	34845	3.05	14915	2 0 .		
80	21.93	37719	2.89	15044	2 2 .			
72	24.29	41823	2.60	15026	2 5 .			
61	28.99	50003	2.14	14757	2 8 .			
54	32.83	56718	1.89	15276	3 2 .			
50	34.93	60058	1.81	15284	3 6 .			
44	39.55	68059	1.60	16232	4 0 .			
38	46.81	80533	1.33	15953	4 5 .			
33	52.76	90853	1.18	16232	5 0 .			
31	56.39	96785	1.12	16202	5 6 .			
28	63.57	109079	1.00	16183	6 3 .			
24	74.62	127662	0.84	16118	7 1 .			
<b>60.0 HP</b>  4 POLE 1750 rpm nominal input speed	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	1 0 .		
	149	11.80	24461	2.54	14072	1 1 .		
	136	12.96	26900	2.54	14133	1 2 .		
	124	14.21	29409	2.54	14355	1 4 .		
	113	15.61	32336	2.54	14505	1 6 .		
	97	18.20	37632	2.54	14526	1 8 .		
	87	20.17	41814	2.54	14526	2 0 .		
	80	21.93	45262	2.41	14693	2 2 .		
	72	24.29	50187	2.17	14669	2 5 .		
	61	28.99	60004	1.78	14324	2 8 .		
	54	32.83	68062	1.57	14990	3 2 .		
	50	34.93	72070	1.51	15073	3 6 .		
	44	39.55	81671	1.33	16222	4 0 .		
	38	46.81	96640	1.11	15884	4 5 .		
	33	52.76	109024	0.98	16222	5 0 .		
31	56.39	116142	0.94	16186	5 6 .			
28	63.57	130895	0.83	16163	6 3 .			

**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	
Output Speed	Ratio	Output Torque	Service Factor	Overhung Load	Column Entry <span style="border: 1px solid black; padding: 0 2px;">1</span> Through <span style="border: 1px solid black; padding: 0 2px;">20</span> Spaces to be filled when entering order	Weight of base mount unit	Motor Size
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 .		

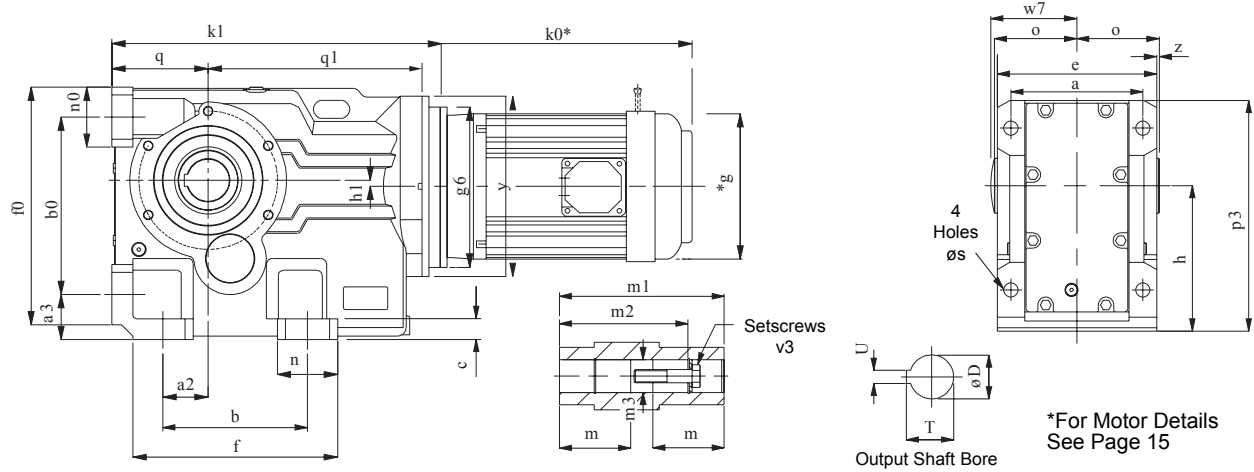
**NOTE**

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

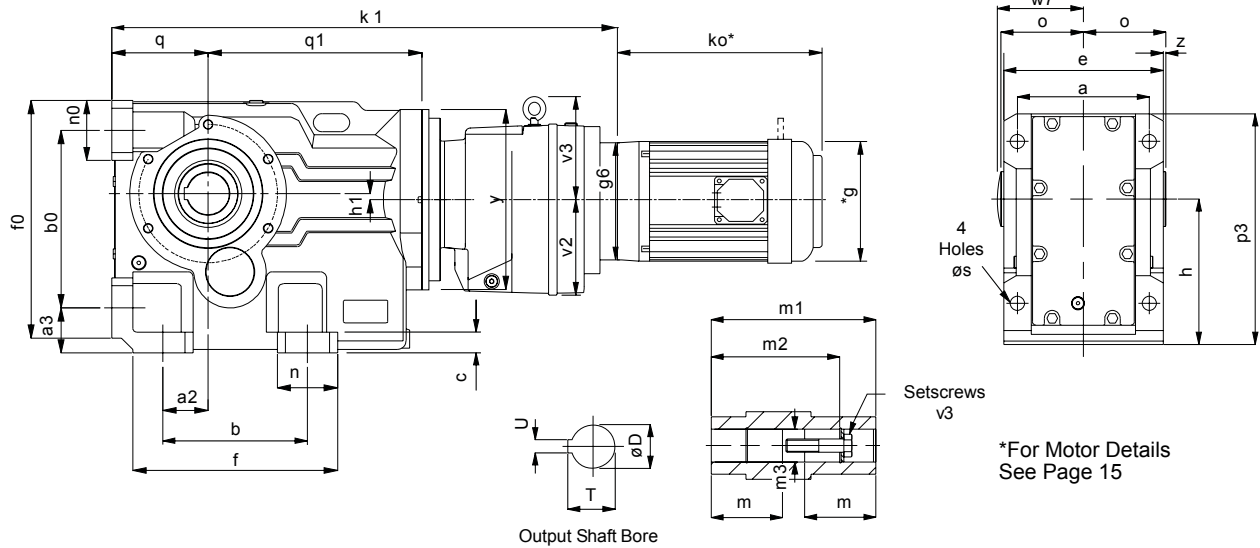
Size	q	q1	s	w7	y	z	Hollow Output Bore								
							D	m	m1	m2	m3	T	U	v3	
K0332	2.48	6.26	0.43	2.48	5.51	0.00	1.25	2.070	4.724	4.130	1.260	1.377	0.250	3/8 UNF x 2	
K0432	2.80	7.05	0.43	3.07	5.51	0.10	1.38	2.600	5.906	5.120	1.380	1.525	0.313	1/2 UNF x 21/4	
K0532	3.15	8.62	0.55	3.43	7.09	0.18	1.50	2.870	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

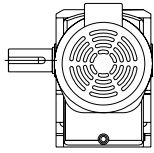
Size	q1	s	v2	v3	w7	y	z	Hollow Output Bore								
								D	m	m1	m2	m3	T	U	v3	
K0332	6.26	0.43	2.99	-	2.48	5.51	0.00	1.25	2.07	4.724	4.13	1.26	1.377	0.25	3/8 UNF x 2	
K0432	7.05	0.43	2.99	-	3.07	5.51	0.10	1.375	2.6	5.906	5.12	1.38	1.525	0.313	1/2 UNF x 21/4	
K0532	8.62	0.53	3.58	-	3.43	7.09	0.18	1.5	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

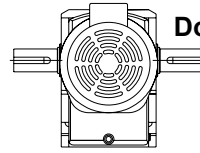
# SERIES K

## DIMENSIONS

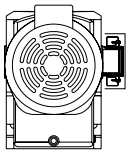
### OUTPUT OPTIONS



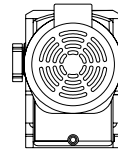
**Single Extended Outputshaft**



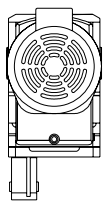
**Double Extended Outputshaft**



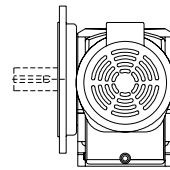
**Shrink Disc**



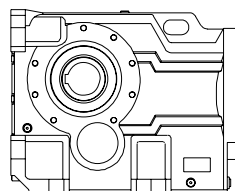
**Taper Release Bushing**



**Torque Bracket**



**B5 (D) Flange Mounting**



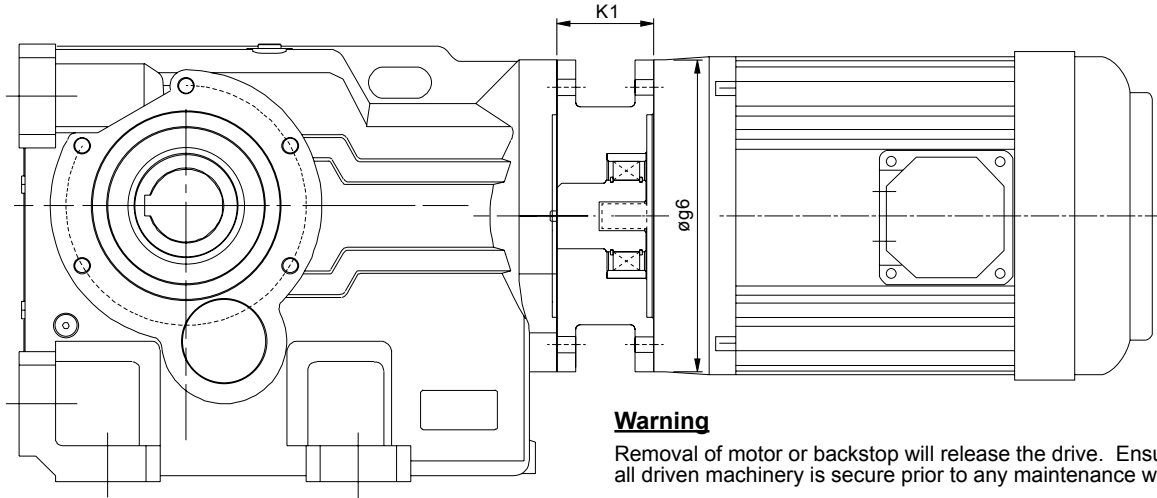
**B14 (C) Flange Mounting**

# 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

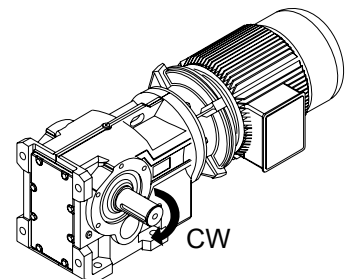
### NEMA C FLANGE

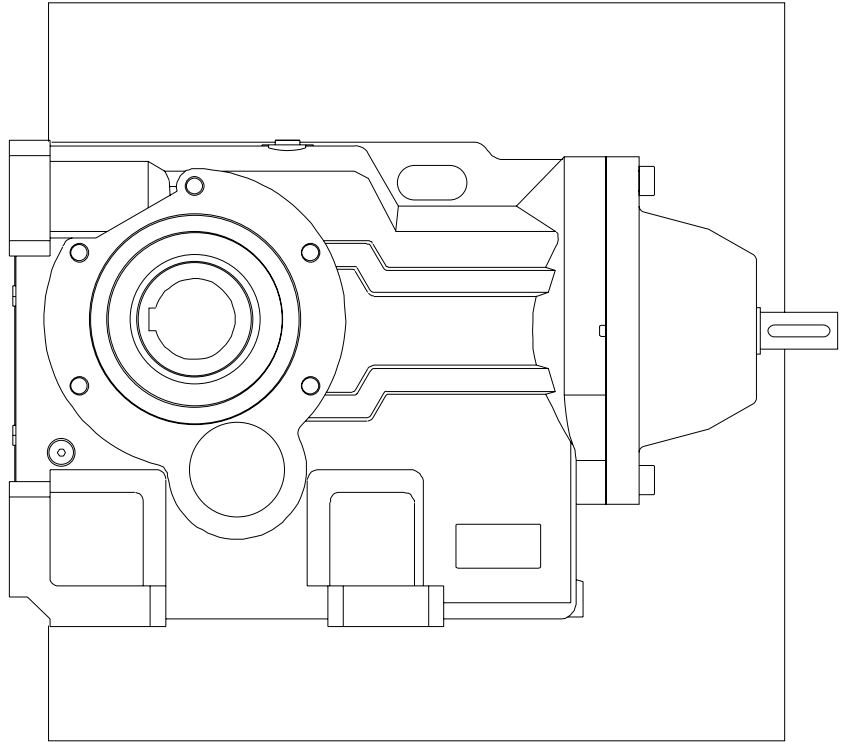
Motor Frame Size	Lift off Speed ('n' min) (rev/min)	Rated Locking Torque ('T max') (at motor) (Nm)	øg6	K1
182TC / 184TC	670	2655	8.98	3.75
213TC / 215TC	670	2655	8.98	3.75
254TC / 256TC	620	8319	8.98	4.75
284TC / 286TC	620	8319	11.02	5.37
324TC / 326TC	550	11151	12.99	6.00

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.

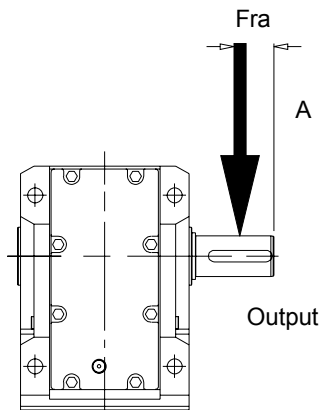
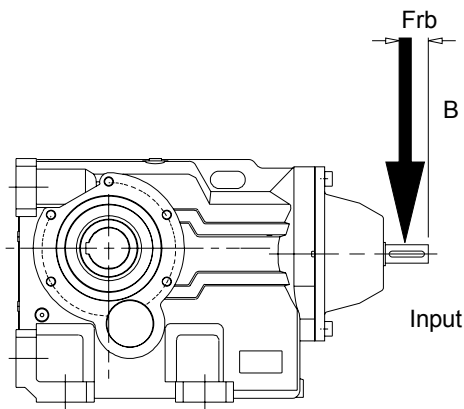
### Overhung load (lbf)

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

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, F<sub>rb</sub> (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  $F_{ra}$  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

## TRIPLE REDUCTION RATINGS

### SIZES K03 - K05

*P*<sub>m</sub> - Input Power (HP)      *N*<sub>2</sub> - Output Speed (rpm)  
*M*<sub>2</sub> - Output Torque (lb.in)    *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### TRIPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0332				K0432				K0532						
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
8   .   0	3500	420	8.328	986	6.88	627	434	8.054	1800	13	685	431	8.112	2700	19.5	517
	1750	210		1170	4.05	631	217		2180	7.83	773	215		3340	11.9	557
	1160	139		1270	2.91	741	144		2380	5.63	903	143		3650	8.59	659
1   1   .	875	105	11.25	1360	2.34	780	108	11.3	2510	4.49	950	107	11.4	3870	6.85	680
	3500	311		1150	5.91	630	309		2140	11	705	306		3180	16.2	525
	1750	155		1320	3.38	691	154		2510	6.4	844	153		3820	9.66	593
1   2   .	1160	103	12.8	1450	2.45	809	102	12.45	2730	4.6	997	101	12.78	4150	6.94	726
	875	77		1530	1.95	860	77		2880	3.67	1070	76		4360	5.49	780
	3500	273		1200	5.42	630	281		2240	10.4	730	273		3350	15.2	530
1   4   .	1750	136	14.5	1380	3.1	721	140	14.14	2600	6.01	870	136	14.35	3970	8.96	615
	1160	90		1510	2.25	845	93		2830	4.33	1030	90		4300	6.41	757
	875	68		1600	1.79	912	70		2980	3.44	1100	68		4530	5.09	795
1   8   .	3500	241	18.54	1260	5.01	630	247	17.95	2360	9.66	745	243	18.22	3520	14.3	540
	1750	120		1450	2.87	749	123		2710	5.53	907	121		4130	8.29	639
	1160	80		1580	2.08	879	82		2950	3.98	1070	80		4460	5.92	788
2   0   .	875	60	19.98	1670	1.65	950	61	20.4	3110	3.16	1150	60	20.66	4700	4.71	840
	3500	188		1360	4.23	650	194		2550	8.22	780	192		3870	12.3	550
	1750	94		1580	2.44	813	97		2940	4.72	982	96		4440	7.02	698
2   5   .	1160	62	25.23	1700	1.75	957	64	25.03	3180	3.38	1160	63	24.64	4790	5.01	861
	875	47		1800	1.39	1040	48		3360	2.69	1250	48		5050	3.98	970
	3500	175		1390	4.02	660	171		2660	7.53	800	169		4010	11.3	575
2   8   .	1750	87	28.6	1610	2.32	834	85	27.76	3060	4.32	1030	84	28.37	4590	6.4	737
	1160	58		1740	1.66	983	56		3310	3.09	1220	56		4960	4.58	904
	875	43		1840	1.32	1080	42		3490	2.46	1350	42		5230	3.64	1030
3   2   .	3500	138	32.68	1490	3.4	721	139	31.54	2830	6.53	870	142	32.99	4220	9.91	605
	1750	69		1720	1.96	907	69		3250	3.74	1100	71		4810	5.62	792
	1160	45		1860	1.4	1070	46		3510	2.67	1310	47		5200	4.02	971
3   6   .	875	34	36.35	1990	1.13	1200	34	35.83	3700	2.13	1350	35	36.91	5490	3.2	1100
	3500	122		1540	3.11	750	126		2910	6.06	910	123		4380	8.94	640
	1750	61		1780	1.79	950	63		3340	3.46	1150	61		4990	5.07	840
4   0   .	1160	40	40.08	1920	1.28	1120	41	39.46	3610	2.48	1350	40	39.34	5400	3.63	1030
	875	30		1990	0.999	1280	31		3800	1.97	1350	30		5690	2.88	1180
	3500	107		1610	2.84	775	110		3010	5.52	940	106		4560	7.99	665
4   5   .	1750	53	44.11	1840	1.62	997	55	45.39	3450	3.15	1200	53	46.63	5180	4.52	897
	1160	35		1990	1.16	1170	36		3730	2.26	1350	35		5610	3.24	1100
	875	26		1990	0.874	1350	27		3850	1.76	1350	26		5830	2.54	1280
5   0   .	3500	96	49.35	1650	2.64	800	97	49.78	3210	5.18	982	94	49.78	4790	7.51	700
	1750	48		1890	1.5	1040	48		3660	2.95	1250	47		5450	4.25	918
	1160	31		1990	1.05	1230	32		3910	2.08	1350	31		5830	3.01	1140
6   3   .	875	24	51.68	1990	0.788	1350	24	59.24	3910	1.57	1350	23	61.78	5830	2.27	1340
	3500	87		1690	2.44	855	88		3200	4.69	1030	88		4740	6.97	730
	1750	43		1930	1.39	1080	44		3650	2.67	1310	44		5410	3.96	968
7   1   .	1160	28	72.27	1990	0.947	1290	29	71.09	3910	1.89	1350	29	72.85	5830	2.82	1180
	875	21		1990	0.714	1350	22		3910	1.43	1350	22		5830	2.13	1360
	3500	79		1730	2.27	860	77		3310	4.22	1070	75		4930	6.12	770
8   0   .	1750	39	80.3	1980	1.29	1120	38	80.1	3780	2.4	1350	37	79.77	5630	3.48	1040
	1160	26		1990	0.861	1350	25		3910	1.64	1350	24		5830	2.39	1320
	875	19		1990	0.649	1350	19		3910	1.24	1350	18		5830	1.8	1580
1   0   0	3500	67	96.7	1800	2.01	910	70	93.12	3380	3.96	1100	70	97.76	5010	5.82	790
	1750	33		1990	1.11	1200	35		3850	2.25	1350	35		5710	3.31	1070
	1160	22		1990	0.735	1350	23		3910	1.51	1350	23		5830	2.24	1380
1   1   2	875	16	110.8	1990	0.555	1350	17	105.7	3910	1.14	1350	17	109	5830	1.69	1600
	3500	56		1870	1.75	990	59		3520	3.44	1180	56		5260	4.92	875
	1750	28		1990	0.927	1310	29		3910	1.91	1350	28		5830	2.72	1220
1   2   5	1160	18	126	1990	0.614	1350	19	120.2	3910	1.26	1350	18	122.2	5830	1.8	1560
	875	14		1990	0.463	1350	14		3910	0.952	1350	14		5830	1.36	1700
	3500	48		1940	1.56	1040	49		3660	2.99	1250	48		5450	4.33	910
1   2   5	1750	24	93.12	1990	0.796	1350	24	71.09	3820	1.56	1350	24	72.85	5830	2.31	1350
	1160	16		1990	0.527	1350	16		3820	1.03	1350	15		5830	1.53	1700
	875	12		1990	0.398	1350	12		3820	0.777	1350	12		5830	1.15	1700
1   2   5	3500	43	80.3	1980	1.43	1080	43	80.1	3760	2.73	1320	43	79.77	5560	4.04	970
	1750	21		1990	0.717	1350	21		3840	1.39	1350	21		5830	2.11	1430
	1160	14		1990	0.475	1350	14		3840	0.92	1350	14		5830	1.4	1700
1   0   0	875	10	96.7	1990	0.358	1350	10	93.12	3840	0.694	1350	10	97.76	5830	1.06	1700
	3500	36		1640	0.983	1150	37		3570	2.22	1350	35		5800	3.44	1050
	1750	18		1640	0.492	1350	18		3570	1.11	1350	17		5830	1.73	1610
1   1   2	1160	11	110.8	1640	0.326	1350	12	105.7	3700	0.762	1350	11	109	5830	1.14	1700
	875	9		1640	0.246	1350	9		3790	0.589	1350	8		5830	0.863	1700
	3500	31		1410	0.737	1250	33		3640	2	1350	32		5830	3.11	1070
1   2   5	1750	15	126	1410	0.369	1350	16	120.2	3650	1	1350	16	122.2	5830	1.55	1700
	1160	10		1410	0.244	1350	10		3780	0.687	1350	10		5830	1.03	1700
	875	7		1410	0.184	1350	8		3870	0.531	1350	8		5830	0.775	1700
1   2   5	3500	27	93.12	1380	0.639	1350	29	71.09	3910	1.89	1350	28	79.77	5370	2.56	1220
	1750	13		1390	0.32	1350	14		3910	0.944	1350	14		5380	1.28	1780
	1160	9		1390	0.212	1350	9		3910	0.626	1350	9		5380	0.847	1780
1   2   5	875	6	96.7	1390	0.16	1350	7	93.12	3910	0.472	1350	7	97.76	5380	0.639	1780

# SERIES K

## TRIPLE REDUCTION RATINGS

### SIZES K06 - K08

*Pm* - Input Power (HP)      *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

**TRIPLE REDUCTION**

Column Entry	Input Speed N1 (rpm)	K0632					K0732					K0832				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
6   7   8	3500	439	7.961	3840	28	785	407	8.595	6220	42.3	1080	430	8.128	9100	65.7	1160
	1750	219		4740	17.2	856	203		6270	21.2	1390	215		9180	32.9	1530
	1160	145		5180	12.4	978	134		6290	14	1640	142		9210	21.8	1800
1   1   .	875	109	11.19	5480	9.89	990	101	11.91	6300	10.6	1640	107	11.52	9230	16.4	2000
	3500	312		4550	23.6	795	293		8090	39.5	1070	303		13000	65.7	960
	1750	156		5460	14.1	887	146		8710	21.2	1220	151		13100	32.9	1270
1   2   .	1160	103	12.54	5940	10.1	1070	97	13.37	8730	14	1590	100	12.8	13100	21.8	1690
	875	78		6240	8	1160	73		8740	10.6	1600	75		13100	16.4	1950
	3500	279		4800	22.2	815	261		8550	37.1	1070	273		14500	65.7	940
1   4   .	1750	139	14.08	5700	13.1	918	130	14.71	9800	21.2	1170	136	14.24	14500	32.9	1200
	1160	92		6160	9.35	1120	86		9810	14	1540	90		14600	21.8	1630
	875	69		6500	7.43	1250	65		9820	10.6	1610	68		14600	16.4	1950
1   8   .	3500	248	17.88	5060	20.8	835	238	19.21	8950	35.4	1080	245	20.67	15400	62.9	925
	1750	124		5930	12.1	952	119		10700	21	1120	122		16200	32.9	1100
	1160	82		6400	8.66	1160	78		10800	14	1500	81		16200	21.8	1550
2   0   .	875	62	20.27	6760	6.89	1320	59	21.84	10800	10.6	1660	61	25.35	16200	16.4	1960
	3500	195		5580	18	860	182		10000	30.3	1070	190		17100	54	910
	1750	97		6410	10.3	1030	91		11600	17.5	1230	95		19600	30.8	963
2   5   .	1160	64	24.18	6910	7.36	1260	60	26.52	12500	12.4	1540	63	28.56	21000	21.8	1290
	875	48		7290	5.85	1450	45		13200	9.87	1710	47		21000	16.4	1440
	3500	172		5800	16.5	880	160		10600	28	1070	169		17600	49.4	920
2   8   .	1750	86	27.84	6630	9.41	1090	80	29.17	12000	15.9	1300	84	33.24	20000	28	1040
	1160	57		7170	6.74	1320	53		13000	11.3	1610	56		21700	20.1	1350
	875	43		7320	5.18	1550	40		13700	9.02	1750	42		23600	16.4	1500
3   2   .	3500	144	32.38	6110	14.6	910	131	33.52	11200	24.5	1070	138	36.88	18300	41.8	930
	1750	72		6980	8.3	1160	65		12700	13.8	1410	69		20800	23.7	1190
	1160	47		7310	5.76	1450	43		13700	9.9	1730	45		23100	17.4	1470
3   6   .	875	36	36.22	7320	4.34	1720	32	38.01	14500	7.87	1920	34	40.36	23900	13.6	1810
	3500	125		6360	13.2	950	119		11500	22.9	1120	122		18700	38	930
	1750	62		7250	7.49	1230	59		13000	12.9	1460	61		21300	21.6	1280
4   0   .	1160	41	38.61	7320	5.01	1580	39	41.92	14100	9.24	1800	40	45.66	23900	16	1540
	875	31		7320	3.77	1800	29		14900	7.33	2100	30		23900	12.1	1950
	3500	108		6630	11.8	990	104		11900	20.6	1160	105		19200	33.6	940
4   5   .	1750	54	45.76	7310	6.5	1340	52	48.01	13500	11.6	1560	52	51.54	22100	19.2	1390
	1160	35		7320	4.31	1720	34		14600	8.32	1910	34		23900	13.7	1770
	875	27		7320	3.25	1800	26		14900	6.38	2180	26		23900	10.4	2350
5   0   .	3500	96	48.86	6890	11	1060	92	54.28	12500	19.1	1230	94	62.47	19600	30.9	965
	1750	48		7310	5.82	1440	46		14200	10.8	1610	47		22800	17.9	1440
	1160	32		7320	3.85	1800	30		14900	7.48	2050	31		23900	12.4	1930
6   3   .	875	24	54.86	7320	2.91	1800	23	62.94	14900	5.64	2440	23	72.86	23900	9.36	2400
	3500	90		6930	10.4	1090	83		12600	17.4	1300	86		19900	28.7	1040
	1750	45		7320	5.46	1500	41		14300	9.84	1710	43		23400	16.8	1500
7   1   .	1160	30	58.86	7320	3.61	1800	27	75.07	14900	6.78	2190	28	80.03	23900	11.3	2080
	875	22		7320	2.72	1800	20		14900	5.11	2600	21		23900	8.55	2550
	3500	76		7200	9.09	1120	72		13000	15.7	1360	76		20400	26	1160
8   0   .	1750	38	60.62	7320	4.61	1660	36	82.21	14800	8.91	1820	38	88.08	23900	15.1	1620
	1160	25		7320	3.05	1800	24		14900	5.92	2390	25		23900	10	2290
	875	19		7320	2.3	1800	18		14900	4.46	2900	19		23900	7.56	2750
1   0   0	3500	71	71.49	7310	8.65	1160	64	98.65	13300	14.2	1410	67	107.1	20900	23.5	1210
	1750	35		7320	4.32	1720	32		14900	7.91	1970	33		23900	13.4	1810
	1160	23		7320	2.86	1800	21		14900	5.24	2580	22		23900	8.89	2500
1   1   2	875	17	78.28	7320	2.16	1800	16	113.5	14900	3.95	3070	16	123.3	23900	6.7	3110
	3500	57		7310	6.98	1320	55		13800	12.7	1520	56		21700	20.2	1320
	1750	28		7320	3.48	1800	27		14900	6.83	2180	28		23900	11.1	2120
1   2   5	1160	19	82.21	7320	2.31	1800	18	98.08	14900	4.52	2810	18	107.1	23900	7.34	2860
	875	14		7320	1.74	1800	13		14900	3.41	3370	14		23900	5.53	3350
	3500	48		7310	5.92	1440	46		14400	11.1	1610	48		22700	18.1	1440
1   2   5	1750	24	88.08	7320	2.96	1800	23	113.5	14900	5.73	2440	24	123.3	23900	9.51	2380
	1160	16		7320	1.96	1800	15		14900	3.8	3110	15		23900	6.3	3160
	875	12		7320	1.48	1800	11		14900	2.86	3370	12		23900	4.75	3520
1   2   5	3500	44	95.93	7320	5.41	1500	42	126.1	14700	10.4	1710	43	123.3	23400	17	1500
	1750	22		7320	2.7	1800	21		14900	5.24	2580	21		23900	8.66	2550
	1160	14		7320	1.79	1800	14		14900	3.47	3280	14		23900	5.74	3350
1   2   5	875	11	106.9	7320	1.35	1800	10	98.65	14900	2.62	3370	10	123.3	23900	4.33	3520
	3500	36		7320	4.43	1720	35		14900	8.76	1820	35		23900	14.2	1770
	1750	18		7320	2.21	1800	17		14900	4.37	2880	17		23900	7.07	2930
1   2   5	1160	12	113.5	7320	1.46	1800	11	113.5	14900	2.9	3370	11	123.3	23900	4.68	3520
	875	9		7320	1.1	1800	8		14900	2.19	3370	8		23900	3.53	3520
	3500	32		7320	3.97	1760	30		14400	7.37	1990	32		23900	13	1810
1   2   5	1750	16	126.1	7320	1.98	1800	15	126.1	14400	3.69	3180	16	123.3	23900	6.48	3110
	1160	10		7320	1.31	1800	10		14400	2.44	3370	10		23900	4.29	3520
	875	8		7320	0.991	1800	7		14400	1.84	3370	8		23900	3.24	3520
1   2   5	3500	29	126.1	5260	2.56	1800	27	126.1	12200	5.65	2180	28	123.3	23900	11.3	2120
	1750	14		5270	1.28	1800	13		12200	2.83	3370	14		23900	5.65	3390
	1160	9		5280	0.847	1800	9		12200	1.87	3370	9		23900	3.74	3520
1   2   5	875	7	126.1	5280	0.639	1800	6	126.1	12200	1.41	3370	7	123.3	23900	2.82	3520

# SERIES K

## TRIPLE REDUCTION RATINGS

### SIZES K09 - K12

*Pm* - Input Power (HP)      *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### TRIPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0931					K1031					K1231				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
6 7 8	3500	435	8.035	17400	127	5000	423	8.263	34000	239	6610	411	8.513	44600	304	10500
	1750	217		21500	77.6	5540	211		36200	127	7710	205		44700	152	12300
	1160	144		24400	58.1	5890	140		36200	83.9	8550	136		44800	101	13600
8 . 0	875	108	9.681	26200	47.1	5800	105	9.946	36300	63.3	8700	102	10.26	44800	75.9	15200
	3500	361		21000	127	4800	351		40900	239	6580	341		53600	304	10500
	1750	180		25900	77.6	5450	175		43500	127	7620	170		53800	152	12400
1 0 .	1160	119	11.06	29300	58.1	5950	116	11.54	43500	83.9	8640	113	11.8	53800	101	13800
	875	90		31500	47.1	6400	87		43600	63.3	8900	85		53900	75.9	15600
	3500	316		20300	107	5100	303		40300	202	6200	296		62000	304	10300
1 1 .	1750	158	12.4	25000	65.5	5660	151	12.55	49600	124	7390	148	12.96	62100	152	12100
	1160	104		27900	48.2	6370	100		50700	83.9	8560	98		62200	101	13800
	875	79		29100	37.9	6650	75		50700	63.3	8700	74		62200	75.9	15600
1 2 .	3500	282	13.33	21400	100	5300	278	13.89	41900	193	6350	270	14.21	68000	303	10100
	1750	141		26300	61.5	5750	139		51600	119	7420	135		68300	152	12000
	1160	93		28900	44.6	6590	92		55200	83.9	8550	89		68300	101	13900
1 4 .	875	70	14.94	30000	34.9	6900	69	15.11	55200	63.3	8960	67	15.61	68300	75.9	15700
	3500	262		24400	107	5200	251		48400	202	6100	246		74600	304	10200
	1750	131		30100	65.5	5640	125		59700	124	7200	123		74700	152	12100
1 6 .	1160	87	17.93	33500	48.2	6430	83	18.57	60900	83.9	8630	81	18.2	74700	101	14200
	875	65		34900	37.9	7410	62		61000	63.3	9460	61		74800	75.9	15900
	3500	234		25700	100	5300	231		50300	193	6180	224		81800	303	10100
1 8 .	1750	117	20.03	31700	61.5	5780	115	20.05	62000	119	7330	112	20.17	82100	152	12000
	1160	77		34700	44.6	6650	76		64200	81.3	8720	74		82100	101	14300
	875	58		36100	34.9	7640	57		64200	61.3	9790	56		82100	75.9	15900
2 0 .	3500	195	21.61	24900	80.9	5450	188	22.35	49500	154	7100	192	21.93	78700	249	10000
	1750	97		30000	48.4	6360	94		60700	94.3	8060	96		96000	152	11600
	1160	64		31800	33.9	7410	62		64200	66	9460	63		96000	101	14000
2 2 .	875	48	24.14	33400	26.9	7410	47	24.13	64200	49.7	10700	48	24.29	96000	75.9	15800
	3500	174		26000	75.6	5450	174		51000	147	7200	173		82000	235	10000
	1750	87		30700	44.4	6600	87		61800	88.9	8270	86		100999	144	11800
2 5 .	1160	57	27.78	32800	31.3	7640	57	29.24	64200	61.1	9790	57	28.99	105999	101	13900
	875	43		33400	24	7640	43		64200	46.1	11200	43		105999	75.9	16000
	3500	161		30000	80.9	5600	156		59500	154	7390	159		94600	249	10100
2 8 .	1750	80	31.67	35400	47.5	6450	78	33.1	64200	83	8650	79	32.83	108999	143	12100
	1160	53		37300	33.1	7580	51		64200	54.9	10400	52		108999	94.9	14700
	875	40		37300	24.9	7580	39		64200	41.4	11200	39		108999	71.6	16200
3 2 .	3500	144	33.47	31300	75.6	5750	145	35.19	61300	147	7420	144	34.93	98600	235	10600
	1750	72		36200	43.4	6720	72		64200	76.9	8950	72		108999	129	12700
	1160	48		37300	29.6	7640	48		64200	50.9	10700	47		108999	85.7	15300
3 6 .	875	36	8.035	37300	22.3	7640	36	9.946	64200	38.4	11200	36	10.26	108999	64.6	16200
	3500	126		29400	61.4	5700	119		58900	116	7330	120		95400	190	10800
	1750	63		33000	34.3	7380	59		64200	63.3	9640	60		106999	106	13500
3 8 .	1160	41	9.681	33400	23	7640	39	11.54	64200	41.9	11200	40	11.8	106999	70.5	16200
	875	31		33400	17.3	7640	29		64200	31.6	11200	30		106999	53.2	16200
	3500	110		30500	55.8	5780	105		61700	108	7800	106		97500	171	10900
4 2 .	1750	55	11.06	33400	30.5	7640	52	11.54	64200	55.9	10200	53	11.8	106999	93.9	14300
	1160	36		33400	20.2	7640	35		64200	37	11200	35		106999	62.2	16200
	875	27		33400	15.2	7640	26		64200	27.9	11200	26		106999	46.9	16200
4 6 .	3500	104	12.4	33700	58.7	6500	99	12.55	64200	106	8150	100	12.96	108999	180	11000
	1750	52		37300	32.3	7640	49		64200	52.7	10600	50		108999	90.1	15000
	1160	34		37300	21.4	7640	32		64200	34.9	11200	33		108999	59.7	16200
4 8 .	875	26	13.33	37300	16.1	7640	24	13.89	64200	26.3	11200	25	14.21	108999	45	16200

# SERIES K

## TRIPLE REDUCTION RATINGS

### SIZES K09 - K12

*P<sub>m</sub>* - Input Power (HP)      *N<sub>2</sub>* - Output Speed (rpm)  
*M<sub>2</sub>* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### TRIPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0931					K1031					K1231				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
4   0   .	3500	91	38.16	34600	52.7	6600	87	39.84	64200	93.4	8270	88	39.55	108999	159	11800
	1750	45		37300	28.3	7640	43		64200	46.6	11200	44		108999	79.6	15900
	1160	30		37300	18.7	7640	29		64200	30.8	11200	29		108999	52.7	16200
4   5   .	875	22	44.89	37300	14.1	7640	21	45.37	64200	23.2	11200	22	46.81	108999	39.7	16200
	3500	77		32600	42.2	6800	77		64200	81.8	8650	74		106999	132	12000
	1750	38		33400	21.5	7640	38		64200	40.8	11200	37		106999	66.1	16200
5   0   .	1160	25	49.87	33400	14.3	7640	25	50.41	64200	27	11200	24	52.76	106999	43.8	16200
	875	19		33400	10.7	7640	19		64200	20.4	11200	18		106999	33	16200
	3500	70		33300	38.7	6900	69		64200	73.7	8950	66		106999	117	13000
5   6   .	1750	35	54.09	33400	19.4	7640	34	54.61	64200	36.8	11200	33	56.39	106999	58.6	16200
	1160	23		33400	12.8	7640	23		64200	24.3	11200	21		106999	38.9	16200
	875	17		33400	9.68	7640	17		64200	18.4	11200	16		106999	29.3	16200
6   3   .	3500	64	60.1	37000	39.7	7400	64	60.68	64200	68.2	9440	62	63.57	108999	112	13500
	1750	32		37300	20	7640	32		64200	34	11200	31		108999	56	16200
	1160	21		37300	13.2	7640	21		64200	22.5	11200	20		108999	37.1	16200
7   1   .	875	16	70.45	37300	9.98	7640	16	71.89	64200	17	11200	15	74.62	108999	28	16200
	3500	58		37300	36.1	7600	57		64200	61.4	9700	55		108999	99.5	14200
	1750	29		37300	18	7640	28		64200	30.6	11200	27		108999	49.6	16200
8   0   .	1160	19	77.78	37300	11.9	7640	19	82.83	64200	20.3	11200	18	83.1	108999	32.9	16200
	875	14		37300	8.98	7640	14		64200	15.3	11200	13		108999	24.8	16200
	3500	49		33400	27.6	7640	48		64200	51.7	10600	46		106999	83.4	15300
9   0   .	1750	24	84.89	33400	13.8	7640	24	86.53	64200	25.8	11200	23	89.89	106999	41.7	16200
	1160	16		33400	9.11	7640	16		64200	17.1	11200	15		106999	27.6	16200
	875	12		33400	6.87	7640	12		64200	12.9	11200	11		106999	20.8	16200
1   0   0	3500	45	93.71	33400	24.9	7640	42	99.7	64200	44.9	11200	42	100.1	106999	75	16200
	1750	22		33400	12.4	7640	21		64200	22.4	11200	21		106999	37.5	16200
	1160	14		33400	8.25	7640	14		64200	14.8	11200	13		106999	24.8	16200
1   1   2	875	11	107	33400	6.22	7640	10	112	64200	11.2	11200	10	113.8	106999	18.7	16200
	3500	41		37300	25.6	7640	40		64200	43	11200	38		108999	70.6	16200
	1750	20		37300	12.8	7640	20		64200	21.5	11200	19		108999	35.3	16200
1   2   5	1160	13	120.3	37300	8.45	7640	13	120.4	64200	14.2	11200	12	121.1	108999	23.4	16200
	875	10		37300	6.37	7640	10		64200	10.7	11200	9		108999	17.6	16200
	3500	37		37300	23.2	7640	35		64200	37.4	11200	34		108999	63.5	16200
1   4   0	1750	18	128.9	37300	11.6	7640	17	134.8	64200	18.7	11200	17	137.1	108999	31.7	16200
	1160	12		37300	7.65	7640	11		64200	12.4	11200	11		108999	21	16200
	875	9		37300	5.77	7640	8		64200	9.32	11200	8		108999	15.8	16200
1   6   0	3500	32	145	33400	18.2	7640	31	144.9	64200	33.3	11200	30	145.9	106999	54.6	16200
	1750	16		33400	9.07	7640	15		64200	16.6	11200	15		106999	27.3	16200
	1160	10		33400	6.01	7640	10		64200	11	11200	10		106999	18.1	16200
	875	8	120.3	33400	4.53	7640	7	120.4	64200	8.3	11200	7	121.1	106999	13.6	16200
	3500	29		33400	16.2	7640	29		64200	31	11200	28		106999	51.3	16200
	1750	14		33400	8.09	7640	14		64200	15.5	11200	14		106999	25.6	16200
	1160	9	128.9	33400	5.36	7640	9	134.8	64200	10.3	11200	9	137.1	106999	17	16200
	875	7		33400	4.04	7640	7		64200	7.74	11200	7		106999	12.8	16200
	3500	27		37300	16.9	7640	25		64200	27.7	11200	25		108999	46.3	16200
	1750	13	145	37300	8.42	7640	12	144.9	64200	13.8	11200	12	145.9	108999	23.1	16200
	1160	8		37300	5.58	7640	8		64200	9.16	11200	8		108999	15.3	16200
	875	6		37300	4.21	7640	6		64200	6.91	11200	6		108999	11.5	16200
	3500	24	145	37300	15	7640	24	144.9	64200	25.8	11200	23	145.9	108999	43.5	16200
	1750	12		37300	7.51	7640	12		64200	12.9	11200	11		108999	21.7	16200
	1160	8		37300	4.97	7640	8		64200	8.54	11200	7		108999	14.4	16200
	875	6	37300	3.75	7640	6	64200	6.44	11200	5	108999	10.8	16200			

# SERIES K

## QUINTUPLE REDUCTION RATINGS

### SIZES K03 - K05

*P<sub>m</sub>* - Input Power (HP)      *N<sub>2</sub>* - Output Speed (rpm)  
*M<sub>2</sub>* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0352					K0452					K0552				
		N2 (rpm)	<i>i</i> (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	<i>i</i> (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	<i>i</i> (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
6   7   8	3500	27.39	128	1991	0.911	1350	26.05	134	3894	1.694	1350	29.56	118	5841	2.88	1688
	1750	13.69		1991	0.455	1350	13.02		3894	0.847	1350	14.78		5841	1.44	1688
	1160	9.08		1991	0.302	1350	8.63		3894	0.561	1350	9.80		5841	0.96	1688
	875	6.85		1991	0.228	1350	6.51		3894	0.423	1350	7.39		5841	0.72	1688
1   4   0	3500	24.08	145	1991	0.801	1350	23.65	148	3894	1.538	1350	24.51	143	5841	2.39	1688
	1750	12.04		1991	0.400	1350	11.83		3894	0.769	1350	12.26		5841	1.20	1688
	1160	7.98		1991	0.265	1350	7.84		3894	0.510	1350	8.12		5841	0.79	1688
	875	6.02		1991	0.200	1350	5.91		3894	0.385	1350	6.13		5841	0.60	1688
1   6   0	3500	21.26	165	1991	0.707	1350	20.56	170	3894	1.337	1350	22.24	157	5841	2.17	1688
	1750	10.63		1991	0.353	1350	10.28		3894	0.669	1350	11.12		5841	1.09	1688
	1160	7.04		1991	0.234	1350	6.82		3894	0.443	1350	7.37		5841	0.72	1688
	875	5.31		1991	0.177	1350	5.14		3894	0.334	1350	5.56		5841	0.54	1688
2   0   0	3500	16.62	211	1991	0.553	1350	17.51	200	3894	1.139	1350	16.84	208	5841	1.64	1688
	1750	8.31		1991	0.276	1350	8.75		3894	0.569	1350	8.42		5841	0.82	1688
	1160	5.51		1991	0.183	1350	5.80		3894	0.377	1350	5.58		5841	0.54	1688
	875	4.16		1991	0.138	1350	4.38		3894	0.285	1350	4.21		5841	0.41	1688
2   5   0	3500	15.42	227	1991	0.513	1350	13.59	258	3894	0.884	1350	13.26	264	5841	1.29	1688
	1750	7.71		1991	0.256	1350	6.79		3894	0.442	1350	6.63		5841	0.65	1688
	1160	5.11		1991	0.170	1350	4.50		3894	0.293	1350	4.39		5841	0.43	1688
	875	3.86		1991	0.128	1350	3.40		3894	0.221	1350	3.32		5841	0.32	1688
2   8   0	3500	12.22	287	1991	0.406	1350	12.31	284	3894	0.801	1350	11.67	300	5841	1.14	1688
	1750	6.11		1991	0.203	1350	6.15		3894	0.400	1350	5.84		5841	0.57	1688
	1160	4.05		1991	0.135	1350	4.08		3894	0.265	1350	3.87		5841	0.38	1688
	875	3.05		1991	0.102	1350	3.08		3894	0.200	1350	2.92		5841	0.28	1688
3   2   0	3500	10.78	325	1991	0.358	1350	10.86	322	3894	0.706	1350	11.06	316	5841	1.08	1688
	1750	5.39		1991	0.179	1350	5.43		3894	0.353	1350	5.53		5841	0.54	1688
	1160	3.57		1991	0.119	1350	3.60		3894	0.234	1350	3.67		5841	0.36	1688
	875	2.69		1991	0.090	1350	2.71		3894	0.177	1350	2.77		5841	0.27	1688
3   6   0	3500	9.43	371	1991	0.314	1350	9.86	355	3894	0.641	1350	9.97	351	5841	0.97	1688
	1750	4.71		1991	0.157	1350	4.93		3894	0.321	1350	4.99		5841	0.49	1688
	1160	3.13		1991	0.104	1350	3.27		3894	0.212	1350	3.31		5841	0.32	1688
	875	2.36		1991	0.078	1350	2.46		3894	0.160	1350	2.49		5841	0.24	1688
4   0   0	3500	8.48	413	1991	0.282	1350	8.60	407	3894	0.559	1350	8.78	399	5841	0.86	1688
	1750	4.24		1991	0.141	1350	4.30		3894	0.280	1350	4.39		5841	0.43	1688
	1160	2.81		1991	0.093	1350	2.85		3894	0.185	1350	2.91		5841	0.28	1688
	875	2.12		1991	0.070	1350	2.15		3894	0.140	1350	2.19		5841	0.21	1688
4   5   0	3500	7.69	455	1991	0.256	1350	7.81	448	3894	0.508	1350	7.73	453	5841	0.75	1688
	1750	3.84		1991	0.128	1350	3.90		3894	0.254	1350	3.86		5841	0.38	1688
	1160	2.55		1991	0.085	1350	2.59		3894	0.168	1350	2.56		5841	0.25	1688
	875	1.92		1991	0.064	1350	1.95		3894	0.127	1350	1.93		5841	0.19	1688
5   0   0	3500	6.78	516	1991	0.226	1350	6.89	508	3894	0.448	1350	7.02	499	5841	0.68	1688
	1750	3.39		1991	0.113	1350	3.44		3894	0.224	1350	3.51		5841	0.34	1688
	1160	2.25		1991	0.075	1350	2.28		3894	0.148	1350	2.33		5841	0.23	1688
	875	1.70		1991	0.056	1350	1.72		3894	0.112	1350	1.75		5841	0.17	1688
5   6   0	3500	6.16	568	1991	0.205	1350	6.03	581	3894	0.392	1350	6.10	574	5841	0.60	1688
	1750	3.08		1991	0.102	1350	3.01		3894	0.196	1350	3.05		5841	0.30	1688
	1160	2.04		1991	0.068	1350	2.00		3894	0.130	1350	2.02		5841	0.20	1688
	875	1.54		1991	0.051	1350	1.51		3894	0.098	1350	1.53		5841	0.15	1688
6   3   0	3500	5.39	649	1991	0.179	1350	5.42	646	3894	0.352	1350	5.61	624	5841	0.55	1688
	1750	2.70		1991	0.090	1350	2.71		3894	0.176	1350	2.81		5841	0.27	1688
	1160	1.79		1991	0.059	1350	1.80		3894	0.117	1350	1.86		5841	0.18	1688
	875	1.35		1991	0.045	1350	1.35		3894	0.088	1350	1.40		5841	0.137	1688
7   0   0	3500	4.97	704	1991	0.165	1350	4.91	712	3894	0.320	1350	4.82	725	5841	0.47	1688
	1750	2.49		1991	0.083	1350	2.46		3894	0.160	1350	2.41		5841	0.24	1688
	1160	1.65		1991	0.055	1350	1.63		3894	0.106	1350	1.60		5841	0.156	1688
	875	1.24		1991	0.041	1350	1.23		3894	0.080	1350	1.21		5841	0.118	1688
8   0   0	3500	4.38	798	1991	0.146	1350	4.33	808	3894	0.282	1350	4.31	812	5841	0.42	1688
	1750	2.19		1991	0.073	1350	2.17		3894	0.141	1350	2.16		5841	0.21	1688
	1160	1.45		1991	0.048	1350	1.44		3894	0.093	1350	1.43		5841	0.139	1688
	875	1.096		1991	0.036	1350	1.083		3894	0.070	1350	1.078		5841	0.105	1688
9   0   0	3500	3.84	912	1991	0.128	1350	3.93	891	3894	0.256	1350	3.90	899	5841	0.38	1688
	1750	1.92		1991	0.064	1350	1.97		3894	0.128	1350	1.95		5841	0.19	1688
	1160	1.27		1991	0.042	1350	1.30		3894	0.085	1350	1.29		5841	0.126	1688
	875	0.959		1991	0.032	1350	0.983		3894	0.064	1350	0.974		5841	0.095	1688
1   0   c	3500	3.45	1015	1991	0.115	1350	3.50	1000	3894	0.228	1350	3.35	1045	5841	0.33	1688
	1750	1.72		1991	0.057	1350	1.75		3894	0.114	1350	1.67		5841	0.16	1688
	1160	1.143		1991	0.038	1350	1.160		3894	0.075	1350	1.110		5841	0.108	1688
	875	0.862		1991	0.029	1350	0.875		3894	0.057	1350	0.837		5841	0.082	1688

# SERIES K

## QUINTUPLE REDUCTION RATINGS

### SIZES K03 - K05

*Pm* - Input Power (HP)          *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0352					K0452					K0552				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
1   1   c	3500	3.13	1119	1991	0.104	1350	3.18	1102	3894	0.207	1350	2.99	1169	5841	0.29	1688
	1750	1.56		1991	0.052	1350	1.59		3894	0.103	1350	1.50		5841	0.146	1688
	1160	1.037		1991	0.034	1350	1.053		3894	0.068	1350	0.992		5841	0.097	1688
	875	0.782		1991	0.026	1350	0.794		3894	0.052	1350	0.748		5841	0.073	1688
1   2   c	3500	2.96	1183	1991	0.098	1350	2.76	1267	3894	0.180	1350	2.84	1231	5841	0.28	1688
	1750	1.48		1991	0.049	1350	1.38		3894	0.090	1350	1.42		5841	0.139	1688
	1160	0.981		1991	0.033	1350	0.915		3894	0.060	1350	0.942		5841	0.092	1688
	875	0.740		1991	0.025	1350	0.691		3894	0.045	1350	0.711		5841	0.069	1688
1   4   c	3500	2.46	1423	1991	0.082	1350	2.45	1427	3894	0.160	1350	2.37	1477	5841	0.23	1688
	1750	1.23		1991	0.041	1350	1.23		3894	0.080	1350	1.18		5841	0.116	1688
	1160	0.815		1991	0.027	1350	0.813		3894	0.053	1350	0.785		5841	0.077	1688
	875	0.615		1991	0.020	1350	0.613		3894	0.040	1350	0.592		5841	0.058	1688
1   6   c	3500	2.21	1583	1991	0.074	1350	2.18	1606	3894	0.142	1350	2.22	1577	5841	0.22	1688
	1750	1.106		1991	0.037	1350	1.090		3894	0.071	1350	1.110		5841	0.108	1688
	1160	0.733		1991	0.024	1350	0.722		3894	0.047	1350	0.736		5841	0.072	1688
	875	0.553		1991	0.018	1350	0.545		3894	0.035	1350	0.555		5841	0.054	1688
1   8   c	3500	1.94	1800	1991	0.065	1350	1.96	1784	3894	0.128	1350	1.97	1777	5841	0.19	1688
	1750	0.972		1991	0.032	1350	0.981		3894	0.064	1350	0.985		5841	0.096	1688
	1160	0.644		1991	0.021	1350	0.650		3894	0.042	1350	0.653		5841	0.064	1688
	875	0.486		1991	0.016	1350	0.490		3894	0.032	1350	0.492		5841	0.048	1688
2   0   c	3500	1.75	2000	1991	0.058	1350	1.56	2250	3894	0.115	1350	1.79	1957	5841	0.17	1688
	1750	0.875		1991	0.029	1350	0.778		3894	0.058	1350	0.894		5841	0.087	1688
	1160	0.580		1991	0.019	1350	0.516		3894	0.038	1350	0.593		5841	0.058	1688
	875	0.437		1991	0.015	1350	0.389		3894	0.029	1350	0.447		5841	0.044	1688
2   2   c	3500	1.56	2250	1991	0.052	1350	1.55	2265	3894	0.100	1350	1.59	2205	5841	0.155	1688
	1750	0.778		1991	0.026	1350	0.773		3894	0.050	1350	0.794		5841	0.077	1688
	1160	0.516		1991	0.017	1350	0.512		3894	0.033	1350	0.526		5841	0.051	1688
	875	0.389		1991	0.013	1350	0.386		3894	0.025	1350	0.397		5841	0.039	1688
2   5   c	3500	1.36	2579	1991	0.045	1350	1.42	2463	3894	0.092	1350	1.37	2563	5841	0.133	1688
	1750	0.679		1991	0.023	1350	0.711		3894	0.046	1350	0.683		5841	0.067	1688
	1160	0.450		1991	0.015	1350	0.471		3894	0.031	1350	0.453		5841	0.044	1688
	875	0.339		1991	0.011	1350	0.355		3894	0.023	1350	0.341		5841	0.033	1688
2   8   c	3500	1.30	2699	1991	0.043	1350	1.25	2799	3894	0.081	1350	1.23	2847	5841	0.120	1688
	1750	0.648		1991	0.022	1350	0.625		3894	0.041	1350	0.615		5841	0.060	1688
	1160	0.430		1991	0.014	1350	0.414		3894	0.027	1350	0.407		5841	0.040	1688
	875	0.324		1991	0.011	1350	0.313		3894	0.020	1350	0.307		5841	0.030	1688
3   2   c	3500	1.131	3094	1991	0.038	1350	1.042	3360	3894	0.068	1350	1.057	3310	5841	0.103	1688
	1750	0.566		1991	0.019	1350	0.521		3894	0.034	1350	0.529		5841	0.052	1688
	1160	0.375		1991	0.012	1350	0.345		3894	0.022	1350	0.350		5841	0.034	1688
	875	0.283		1991	0.009	1350	0.260		3894	0.017	1350	0.264		5841	0.026	1688
3   6   c	3500	0.995	3516	1991	0.033	1350	0.987	3548	3894	0.064	1350	0.932	3757	5841	0.091	1688
	1750	0.498		1991	0.017	1350	0.493		3894	0.032	1350	0.466		5841	0.045	1688
	1160	0.330		1991	0.011	1350	0.327		3894	0.021	1350	0.309		5841	0.030	1688
	875	0.249		1991	0.008	1350	0.247		3894	0.016	1350	0.233		5841	0.023	1688
4   0   c	3500	0.873	4007	1991	0.029	1350	0.876	3998	3894	0.057	1350	0.863	4056	5841	0.084	1688
	1750	0.437		1991	0.015	1350	0.438		3894	0.028	1350	0.431		5841	0.042	1688
	1160	0.289		1991	0.010	1350	0.290		3894	0.019	1350	0.286		5841	0.028	1688
	875	0.218		1991	0.007	1350	0.219		3894	0.014	1350	0.216		5841	0.021	1688
4   5   c	3500	0.768	4554	1991	0.026	1350	0.770	4543	3894	0.050	1350	0.760	4604	5841	0.074	1688
	1750	0.384		1991	0.013	1350	0.385		3894	0.025	1350	0.380		5841	0.037	1688
	1160	0.255		1991	0.008	1350	0.255		3894	0.017	1350	0.252		5841	0.025	1688
	875	0.192		1991	0.006	1350	0.193		3894	0.013	1350	0.190		5841	0.019	1688
5   0   c	3500	0.725	4826	1655	0.020	1350	0.753	4647	3894	0.049	1350	0.682	5131	5841	0.067	1688
	1750	0.363		1655	0.010	1350	0.377		3894	0.024	1350	0.341		5841	0.033	1688
	1160	0.240		1655	0.007	1350	0.250		3894	0.016	1350	0.226		5841	0.022	1688
	875	0.181		1655	0.005	1350	0.188		3894	0.012	1350	0.171		5841	0.017	1688
5   6   c	3500	0.638	5485	1655	0.018	1350	0.663	5281	3894	0.043	1350	0.669	5234	5841	0.065	1688
	1750	0.319		1655	0.009	1350	0.331		3894	0.022	1350	0.334		5841	0.033	1688
	1160	0.212		1655	0.006	1350	0.220		3894	0.014	1350	0.222		5841	0.022	1688
	875	0.160		1655	0.004	1350	0.166		3894	0.011	1350	0.167		5841	0.016	1688
6   3   c	3500	0.557	6286	1416	0.013	1350	0.584	5994	3894	0.038	1350	0.600	5833	5841	0.059	1688
	1750	0.278		1416	0.007	1350	0.292		3894	0.019	1350	0.300		5841	0.029	1688
	1160	0.185		1416	0.004	1350	0.194		3894	0.013	1350	0.199		5841	0.019	1688
	875	0.139		1416	0.003	1350	0.146		3894	0.009	1350	0.150		5841	0.015	1688
7   1   c	3500	0.490	7144	1398	0.011	1350	0.514	6815	3894	0.033	1350	0.535	6542	5354	0.048	1688
	1750	0.245		1398	0.006	1350	0.257		3894	0.017	1350	0.267		5354	0.024	1688
	1160	0.162		1398	0.004	1350	0.170		3894	0.011	1350	0.177		5354	0.016	1688
	875	0.122		1398	0.003	1350	0.128		3894	0.008	1350	0.134		5354	0.012	1688

# SERIES K QUINTUPLE REDUCTION RATINGS SIZES K06 - K08

*Pm* - Input Power (HP)          *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)      *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)                (:1)

## QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0652					K0752					K0852				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
1   2   5	3500	30.12	116	7301	3.67	1800	29.10	120	14160	6.88	3375	26.48	132	23984	10.61	3533
	1750	15.06		7301	1.84	1800	14.55		14160	3.44	3375	13.24		23984	5.30	3533
	1160	9.98		7301	1.22	1800	9.64		14160	2.28	3375	8.77		23984	3.51	3533
	875	7.53		7301	0.92	1800	7.27		14160	1.72	3375	6.62		23984	2.65	3533
1   4   0	3500	24.98	140	7301	3.05	1800	26.22	133	14160	6.20	3375	24.19	145	23984	9.69	3533
	1750	12.49		7301	1.52	1800	13.11		14160	3.10	3375	12.10		23984	4.85	3533
	1160	8.28		7301	1.01	1800	8.69		14160	2.06	3375	8.02		23984	3.21	3533
	875	6.24		7301	0.76	1800	6.56		14160	1.55	3375	6.05		23984	2.42	3533
1   6   0	3500	22.67	154	7301	2.76	1800	23.80	147	14160	5.63	3375	21.38	164	23984	8.57	3533
	1750	11.33		7301	1.38	1800	11.90		14160	2.81	3375	10.69		23984	4.28	3533
	1160	7.51		7301	0.92	1800	7.89		14160	1.87	3375	7.09		23984	2.84	3533
	875	5.67		7301	0.69	1800	5.95		14160	1.41	3375	5.35		23984	2.14	3533
2   0   0	3500	17.16	204	7301	2.09	1800	16.58	211	14160	3.92	3375	17.21	203	21417	6.16	3533
	1750	8.58		7301	1.05	1800	8.29		14160	1.96	3375	8.60		21417	3.08	3533
	1160	5.69		7301	0.69	1800	5.49		14160	1.30	3375	5.70		21417	2.04	3533
	875	4.29		7301	0.52	1800	4.14		14160	0.98	3375	4.30		21417	1.54	3533
2   5   0	3500	13.51	259	7301	1.65	1800	15.00	233	14160	3.55	3375	13.68	256	23984	5.48	3533
	1750	6.76		7301	0.82	1800	7.50		14160	1.77	3375	6.84		23984	2.74	3533
	1160	4.48		7301	0.55	1800	4.97		14160	1.18	3375	4.53		23984	1.82	3533
	875	3.38		7301	0.41	1800	3.75		14160	0.89	3375	3.42		23984	1.37	3533
2   8   0	3500	11.89	294	7301	1.45	1800	13.20	265	14160	3.12	3375	11.79	297	23984	4.72	3533
	1750	5.95		7301	0.73	1800	6.60		14160	1.56	3375	5.89		23984	2.36	3533
	1160	3.94		7301	0.48	1800	4.38		14160	1.03	3375	3.91		23984	1.56	3533
	875	2.97		7301	0.36	1800	3.30		14160	0.78	3375	2.95		23984	1.18	3533
3   2   0	3500	11.27	310	7301	1.37	1800	11.49	305	14160	2.72	3375	10.77	325	23984	4.31	3533
	1750	5.64		7301	0.69	1800	5.74		14160	1.36	3375	5.39		23984	2.16	3533
	1160	3.74		7301	0.46	1800	3.81		14160	0.90	3375	3.57		23984	1.43	3533
	875	2.82		7301	0.34	1800	2.87		14160	0.68	3375	2.69		23984	1.08	3533
3   6   0	3500	10.16	344	7301	1.24	1800	9.36	374	14160	2.21	3375	9.50	368	23984	3.81	3533
	1750	5.08		7301	0.62	1800	4.68		14160	1.11	3375	4.75		23984	1.90	3533
	1160	3.37		7301	0.41	1800	3.10		14160	0.73	3375	3.15		23984	1.26	3533
	875	2.54		7301	0.31	1800	2.34		14160	0.55	3375	2.38		23984	0.95	3533
4   0   0	3500	8.95	391	7301	1.09	1800	8.44	415	14603	2.06	3375	8.72	401	23984	3.49	3533
	1750	4.47		7301	0.55	1800	4.22		14603	1.03	3375	4.36		23984	1.75	3533
	1160	2.97		7301	0.36	1800	2.80		14603	0.68	3375	2.89		23984	1.16	3533
	875	2.24		7301	0.27	1800	2.11		14603	0.51	3375	2.18		23984	0.87	3533
4   5   0	3500	7.87	445	7301	0.96	1800	7.51	466	14603	1.83	3375	7.57	462	23984	3.03	3533
	1750	3.94		7301	0.48	1800	3.76		14603	0.92	3375	3.79		23984	1.52	3533
	1160	2.61		7301	0.32	1800	2.49		14603	0.61	3375	2.51		23984	1.01	3533
	875	1.93		7301	0.24	1800	1.88		14603	0.46	3375	1.89		23984	0.76	3533
5   0   0	3500	7.15	489	7301	0.87	1800	6.82	513	14603	1.66	3375	6.92	506	23984	2.77	3533
	1750	3.58		7301	0.44	1800	3.41		14603	0.83	3375	3.46		23984	1.39	3533
	1160	2.37		7301	0.29	1800	2.26		14603	0.55	3375	2.29		23984	0.92	3533
	875	1.79		7301	0.22	1800	1.71		14603	0.42	3375	1.73		23984	0.69	3533
5   6   0	3500	6.22	563	7301	0.76	1800	5.93	590	14603	1.45	3375	6.51	538	23984	2.61	3533
	1750	3.11		7301	0.38	1800	2.97		14603	0.72	3375	3.25		23984	1.30	3533
	1160	2.06		7301	0.25	1800	1.97		14603	0.48	3375	2.16		23984	0.86	3533
	875	1.55		7301	0.19	1800	1.48		14603	0.36	3375	1.63		23984	0.65	3533
6   3   0	3500	5.72	612	7301	0.70	1800	5.46	641	14603	1.33	3375	5.46	641	23984	2.19	3533
	1750	2.86		7301	0.35	1800	2.73		14603	0.67	3375	2.73		23984	1.09	3533
	1160	1.90		7301	0.23	1800	1.81		14603	0.44	3375	1.81		23984	0.72	3533
	875	1.43		7301	0.17	1800	1.36		14603	0.33	3375	1.36		23984	0.55	3533
7   0   0	3500	4.92	712	7301	0.60	1800	4.75	737	14603	1.16	3375	4.61	760	23984	1.85	3533
	1750	2.46		7301	0.30	1800	2.37		14603	0.58	3375	2.30		23984	0.92	3533
	1160	1.63		7301	0.20	1800	1.57		14603	0.38	3375	1.53		23984	0.61	3533
	875	1.23		7301	0.150	1800	1.19		14603	0.29	3375	1.15		23984	0.46	3533
8   0   0	3500	4.39	797	7301	0.54	1800	4.19	836	14603	1.02	3375	4.31	811	23984	1.73	3533
	1750	2.20		7301	0.27	1800	2.09		14603	0.51	3375	2.16		23984	0.86	3533
	1160	1.46		7301	0.18	1800	1.39		14603	0.34	3375	1.43		23984	0.57	3533
	875	1.098		7301	0.134	1800	1.047		14603	0.26	3375	1.079		23984	0.43	3533
9   0   0	3500	3.97	882	7301	0.48	1800	3.79	924	14603	0.92	3375	3.94	888	23984	1.58	3533
	1750	1.98		7301	0.24	1800	1.89		14603	0.46	3375	1.97		23984	0.79	3533
	1160	1.32		7301	0.160	1800	1.26		14603	0.31	3375	1.31		23984	0.52	3533
	875	0.992		7301	0.121	1800	0.947		14603	0.23	3375	0.986		23984	0.39	3533
1   0   c	3500	3.41	1026	7301	0.42	1800	3.30	1062	14603	0.80	3375	3.48	1007	23984	1.39	3533
	1750	1.71		7301	0.21	1800	1.65		14603	0.40	3375	1.74		23984	0.70	3533
	1160	1.131		7301	0.138	1800	1.093		14603	0.27	3375	1.152		23984	0.46	3533
	875	0.853		7301	0.104	1800	0.824		14603	0.20	3375	0.869		23984	0.35	3533



# SERIES K

## QUINTUPLE REDUCTION RATINGS

### SIZES K06 - K08

*Pm* - Input Power (HP)      *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)    *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0652					K0752					K0852				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
1   1   c	3500	3.05	1147	7301	0.37	1800	2.91	1204	14603	0.71	3375	3.18	1102	23984	1.27	3533
	1750	1.53		7301	0.19	1800	1.45		14603	0.35	3375	1.59		23984	0.64	3533
	1160	1.011		7301	0.123	1800	0.963		14603	0.23	3375	1.053		23984	0.42	3533
	875	0.763		7301	0.093	1800	0.727		14603	0.18	3375	0.794		23984	0.32	3533
1   2   c	3500	2.90	1208	7301	0.35	1800	2.76	1267	14603	0.67	3375	2.81	1246	23984	1.12	3533
	1750	1.45		7301	0.18	1800	1.38		14603	0.34	3375	1.40		23984	0.56	3533
	1160	0.960		7301	0.117	1800	0.915		14603	0.22	3375	0.931		23984	0.37	3533
	875	0.724		7301	0.088	1800	0.690		14603	0.17	3375	0.702		23984	0.28	3533
1   4   c	3500	2.41	1449	7301	0.29	1800	2.30	1521	14603	0.56	3375	2.38	1470	23984	0.95	3533
	1750	1.21		7301	0.147	1800	1.15		14603	0.28	3375	1.19		23984	0.48	3533
	1160	0.800		7301	0.098	1800	0.763		14603	0.19	3375	0.789		23984	0.32	3533
	875	0.604		7301	0.074	1800	0.575		14603	0.140	3375	0.595		23984	0.24	3533
1   6   c	3500	2.26	1548	7301	0.28	1800	2.04	1720	14603	0.50	3375	2.11	1659	23984	0.85	3533
	1750	1.131		7301	0.138	1800	1.018		14603	0.25	3375	1.055		23984	0.42	3533
	1160	0.750		7301	0.091	1800	0.675		14603	0.16	3375	0.699		23984	0.28	3533
	875	0.565		7301	0.069	1800	0.509		14603	0.124	3375	0.527		23984	0.21	3533
1   8   c	3500	2.01	1744	7301	0.24	1800	1.81	1938	14603	0.44	3375	1.93	1817	23984	0.77	3533
	1750	1.004		7301	0.122	1800	0.903		14603	0.22	3375	0.963		23984	0.39	3533
	1160	0.665		7301	0.081	1800	0.599		14603	0.146	3375	0.639		23984	0.26	3533
	875	0.502		7301	0.061	1800	0.452		14603	0.110	3375	0.482		23984	0.19	3533
2   0   c	3500	1.82	1920	7301	0.22	1800	1.76	1994	14603	0.43	3375	1.74	2011	23984	0.70	3533
	1750	0.911		7301	0.111	1800	0.878		14603	0.21	3375	0.870		23984	0.35	3533
	1160	0.604		7301	0.074	1800	0.582		14603	0.142	3375	0.577		23984	0.23	3533
	875	0.456		7301	0.056	1800	0.439		14603	0.107	3375	0.435		23984	0.17	3533
2   2   c	3500	1.62	2164	7301	0.20	1800	1.56	2246	14603	0.38	3375	1.59	2202	23984	0.64	3533
	1750	0.809		7301	0.099	1800	0.779		14603	0.19	3375	0.795		23984	0.32	3533
	1160	0.536		7301	0.065	1800	0.516		14603	0.126	3375	0.527		23984	0.21	3533
	875	0.404		7301	0.049	1800	0.390		14603	0.095	3375	0.397		23984	0.159	3533
2   5   c	3500	1.39	2515	7301	0.17	1800	1.34	2611	14603	0.33	3375	1.30	2699	23984	0.52	3533
	1750	0.696		7301	0.085	1800	0.670		14603	0.16	3375	0.648		23984	0.26	3533
	1160	0.461		7301	0.056	1800	0.444		14603	0.108	3375	0.430		23984	0.17	3533
	875	0.348		7301	0.042	1800	0.335		14603	0.082	3375	0.324		23984	0.130	3533
2   8   c	3500	1.25	2794	7301	0.153	1800	1.19	2934	14603	0.29	3375	1.24	2821	23984	0.50	3533
	1750	0.626		7301	0.076	1800	0.596		14603	0.145	3375	0.620		23984	0.25	3533
	1160	0.415		7301	0.051	1800	0.395		14603	0.096	3375	0.411		23984	0.16	3533
	875	0.313		7301	0.038	1800	0.298		14603	0.073	3375	0.310		23984	0.124	3533
3   2   c	3500	1.078	3248	7301	0.131	1800	1.026	3411	14603	0.25	3375	1.112	3147	23984	0.45	3533
	1750	0.539		7301	0.066	1800	0.513		14603	0.125	3375	0.556		23984	0.22	3533
	1160	0.357		7301	0.044	1800	0.340		14603	0.083	3375	0.369		23984	0.148	3533
	875	0.269		7301	0.033	1800	0.257		14603	0.063	3375	0.278		23984	0.111	3533
3   6   c	3500	0.949	3686	7301	0.116	1800	0.904	3871	14603	0.22	3375	0.908	3853	23984	0.36	3533
	1750	0.475		7301	0.058	1800	0.452		14603	0.110	3375	0.454		23984	0.18	3533
	1160	0.315		7301	0.038	1800	0.300		14603	0.073	3375	0.301		23984	0.121	3533
	875	0.237		7301	0.029	1800	0.226		14603	0.055	3375	0.227		23984	0.091	3533
4   0   c	3500	0.879	3981	7301	0.107	1800	0.855	4093	14603	0.21	3375	0.826	4237	23984	0.33	3533
	1750	0.440		7301	0.054	1800	0.428		14603	0.104	3375	0.413		23984	0.17	3533
	1160	0.291		7301	0.036	1800	0.283		14603	0.069	3375	0.274		23984	0.110	3533
	875	0.220		7301	0.027	1800	0.214		14603	0.052	3375	0.207		23984	0.083	3533
4   5   c	3500	0.775	4518	7301	0.094	1800	0.753	4646	14603	0.18	3375	0.741	4722	23984	0.30	3533
	1750	0.387		7301	0.047	1800	0.377		14603	0.092	3375	0.371		23984	0.148	3533
	1160	0.257		7301	0.031	1800	0.250		14603	0.061	3375	0.246		23984	0.098	3533
	875	0.194		7301	0.024	1800	0.188		14603	0.046	3375	0.185		23984	0.074	3533
5   0   c	3500	0.695	5036	7301	0.085	1800	0.663	5281	14603	0.16	3375	0.679	5157	23984	0.27	3533
	1750	0.348		7301	0.042	1800	0.331		14603	0.081	3375	0.339		23984	0.136	3533
	1160	0.230		7301	0.028	1800	0.220		14603	0.054	3375	0.225		23984	0.090	3533
	875	0.174		7301	0.021	1800	0.166		14603	0.040	3375	0.170		23984	0.068	3533
5   6   c	3500	0.681	5136	7301	0.083	1800	0.655	5345	14603	0.16	3375	0.661	5296	23984	0.26	3533
	1750	0.341		7301	0.042	1800	0.327		14603	0.080	3375	0.330		23984	0.132	3533
	1160	0.226		7301	0.028	1800	0.217		14603	0.053	3375	0.219		23984	0.088	3533
	875	0.170		7301	0.021	1800	0.164		14603	0.040	3375	0.165		23984	0.066	3533
6   3   c	3500	0.611	5725	7301	0.075	1800	0.576	6076	14603	0.140	3375	0.605	5783	23984	0.24	3533
	1750	0.306		7301	0.037	1800	0.288		14603	0.070	3375	0.303		23984	0.121	3533
	1160	0.203		7301	0.025	1800	0.191		14603	0.047	3375	0.201		23984	0.080	3533
	875	0.153		7301	0.019	1800	0.144		14603	0.035	3375	0.151		23984	0.061	3533
7   1   c	3500	0.545	6420	5354	0.049	1800	0.518	6752	12036	0.104	3375	0.526	6660	23984	0.21	3533
	1750	0.273		5354	0.024	1800	0.259		12036	0.052	3375	0.263		23984	0.105	3533
	1160	0.181		5354	0.016	1800	0.172		12036	0.035	3375	0.174		23984	0.070	3533
	875	0.136		5354	0.012	1800	0.130		12036	0.026	3375	0.131		23984	0.053	3533

# SERIES K

## QUINTUPLE REDUCTION RATINGS

### SIZES K09 - K12

*P<sub>m</sub>* - Input Power (HP)      *N<sub>2</sub>* - Output Speed (rpm)  
*M<sub>2</sub>* - Output Torque (lb.in)    *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

#### QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0951					K1051					K1251					
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	
6 7 8	3500																
1 2 5	1750																
	1160																
	875																
1 4 0	3500																
	1750																
	1160																
	875																
1 6 0	3500	21.75	161	36374	13.21	7650	20.98	167	64163	22.48	9698	20.33	172	107085	36.36	13793	
	1750	10.87		36374	6.61	7650	10.49		64163	11.24	9698	10.17		107085	18.18	13793	
	1160	7.21		36374	4.38	7650	6.95		64163	7.45	9698	6.74		107085	12.05	13793	
	875	5.44		36374	3.30	7650	5.24		64163	5.62	9698	5.08		107085	9.09	13793	
2 0 0	3500	15.47	226	36374	9.40	7650	15.47	226	64163	16.23	9698	13.02	269	107085	23.29	13793	
	1750	7.73		36374	4.70	7650	7.73		64163	8.11	9698	6.51		107085	11.64	13793	
	1160	5.13		36374	3.11	7650	5.13		64163	5.38	9698	4.32		107085	7.72	13793	
	875	3.87		36374	2.35	7650	3.87		64163	4.06	9698	3.26		107085	5.82	13793	
2 5 0	3500	13.80	254	36374	8.38	7650	13.48	260	64163	14.45	9698	14.68	238	107085	26.25	13793	
	1750	6.90		36374	4.19	7650	6.74		64163	7.22	9698	7.34		107085	13.13	13793	
	1160	4.57		36374	2.78	7650	4.47		64163	4.79	9698	4.86		107085	8.70	13793	
	875	3.45		36374	2.10	7650	3.37		64163	3.61	9698	3.67		107085	6.56	13793	
2 8 0	3500	12.42	282	36374	7.55	7650	12.26	285	64163	13.14	9698	11.59	302	107085	20.73	13793	
	1750	6.21		36374	3.77	7650	6.13		64163	6.57	9698	5.80		107085	10.37	13793	
	1160	4.12		36374	2.50	7650	4.06		64163	4.35	9698	3.84		107085	6.87	13793	
	875	3.11		36374	1.89	7650	3.07		64163	3.28	9698	2.90		107085	5.18	13793	
3 2 0	3500	11.07	316	36374	6.72	7650	11.03	317	64163	11.82	9698	10.54	332	107085	18.86	13793	
	1750	5.53		36374	3.36	7650	5.52		64163	5.91	9698	5.27		107085	9.43	13793	
	1160	3.67		36374	2.23	7650	3.66		64163	3.92	9698	3.49		107085	6.25	13793	
	875	2.77		36374	1.68	7650	2.76		64163	2.96	9698	2.64		107085	4.71	13793	
3 6 0	3500	9.68	361	36374	5.88	7650	9.39	373	64163	10.06	9698	9.10	385	107085	16.27	13793	
	1750	4.84		36374	2.94	7650	4.69		64163	5.03	9698	4.55		107085	8.14	13793	
	1160	3.21		36374	1.95	7650	3.11		64163	3.33	9698	3.02		107085	5.39	13793	
	875	2.42		36374	1.47	7650	2.35		64163	2.51	9698	2.27		107085	4.07	13793	
4 0 0	3500	8.71	402	36374	5.29	7650	8.45	414	64163	9.05	9698	8.00	437	107085	14.31	13793	
	1750	4.36		36374	2.65	7650	4.22		64163	4.53	9698	4.00		107085	7.16	13793	
	1160	2.89		36374	1.75	7650	2.80		64163	3.00	9698	2.65		107085	4.74	13793	
	875	2.18		36374	1.32	7650	2.11		64163	2.26	9698	2.00		107085	3.58	13793	
4 5 0	3500	7.69	455	36374	4.67	7650	7.43	471	64163	7.96	9698	7.10	493	107085	12.70	13793	
	1750	3.84		36374	2.34	7650	3.72		64163	3.98	9698	3.55		107085	6.35	13793	
	1160	2.55		36374	1.55	7650	2.46		64163	2.64	9698	2.35		107085	4.21	13793	
	875	1.92		36374	1.17	7650	1.86		64163	1.99	9698	1.77		107085	3.17	13793	
5 0 0	3500	7.16	489	36374	4.35	7650	6.80	515	64163	7.29	9698	6.59	531	107085	11.79	13793	
	1750	3.58		36374	2.18	7650	3.40		64163	3.64	9698	3.29		107085	5.89	13793	
	1160	2.37		36374	1.44	7650	2.25		64163	2.42	9698	2.18		107085	3.91	13793	
	875	1.79		36374	1.09	7650	1.70		64163	1.82	9698	1.65		107085	2.95	13793	
5 6 0	3500	6.22	563	36374	3.78	7650	6.18	566	64163	6.62	9698	5.99	584	107085	10.71	13793	
	1750	3.11		36374	1.89	7650	3.09		64163	3.31	9698	3.00		107085	5.36	13793	
	1160	2.06		36374	1.25	7650	2.05		64163	2.20	9698	1.99		107085	3.55	13793	
	875	1.55		36374	0.94	7650	1.55		64163	1.66	9698	1.50		107085	2.68	13793	
6 3 0	3500	5.35	655	36374	3.25	7650	5.38	651	64163	5.76	9698	5.21	671	107085	9.32	13793	
	1750	2.67		36374	1.62	7650	2.69		64163	2.88	9698	2.61		107085	4.66	13793	
	1160	1.77		36374	1.08	7650	1.78		64163	1.91	9698	1.73		107085	3.09	13793	
	875	1.34		36374	0.81	7650	1.34		64163	1.44	9698	1.30		107085	2.33	13793	
7 0 0	3500	4.81	727	36374	2.92	7650	4.84	723	64163	5.19	9698	4.63	757	107085	8.27	13793	
	1750	2.41		36374	1.46	7650	2.42		64163	2.59	9698	2.31		107085	4.14	13793	
	1160	1.60		36374	0.97	7650	1.60		64163	1.72	9698	1.53		107085	2.74	13793	
	875	1.20		36374	0.73	7650	1.21		64163	1.30	9698	1.16		107085	2.07	13793	
8 0 0	3500	4.44	789	38055	2.82	7650	4.47	783	64163	4.79	9698	4.33	809	108855	7.87	13793	
	1750	2.22		38055	1.41	7650	2.23		64163	2.39	9698	2.16		108855	3.93	13793	
	1160	1.47		38055	0.93	7650	1.48		64163	1.59	9698	1.43		108855	2.61	13793	
	875	1.109		38055	0.71	7650	1.117		64163	1.20	9698	1.082		108855	1.97	13793	
9 0 0	3500	3.72	940	38055	2.37	7650	3.87	904	64163	4.15	9698	3.70	946	107085	6.61	13793	
	1750	1.86		38055	1.18	7650	1.94		64163	2.07	9698	1.85		107085	3.31	13793	
	1160	1.23		38055	0.78	7650	1.28		64163	1.37	9698	1.23		107085	2.19	13793	
	875	0.930		38055	0.59	7650	0.968		64163	1.04	9698	0.924		107085	1.65	13793	
1 0 c	3500	3.41	1028	36374	2.07	7650	3.57	980	64163	3.83	9698	3.46	1012	108855	6.29	13793	
	1750	1.70		36374	1.03	7650	1.79		64163	1.91	9698	1.73		108855	3.15	13793	
	1160	1.129		36374	0.69	7650	1.184		64163	1.27	9698	1.147		108855	2.08	13793	
	875	0.851		36374	0.52	7650	0.893		64163	0.96	9698	0.865		108855	1.57	13793	

# SERIES K

## QUINTUPLE REDUCTION RATINGS

### SIZES K09 - K12

*Pm* - Input Power (HP)      *N2* - Output Speed (rpm)  
*M2* - Output Torque (lb.in)    *fra* - Overhung Load (lbf)  
*i* - Exact Ratio (:1)

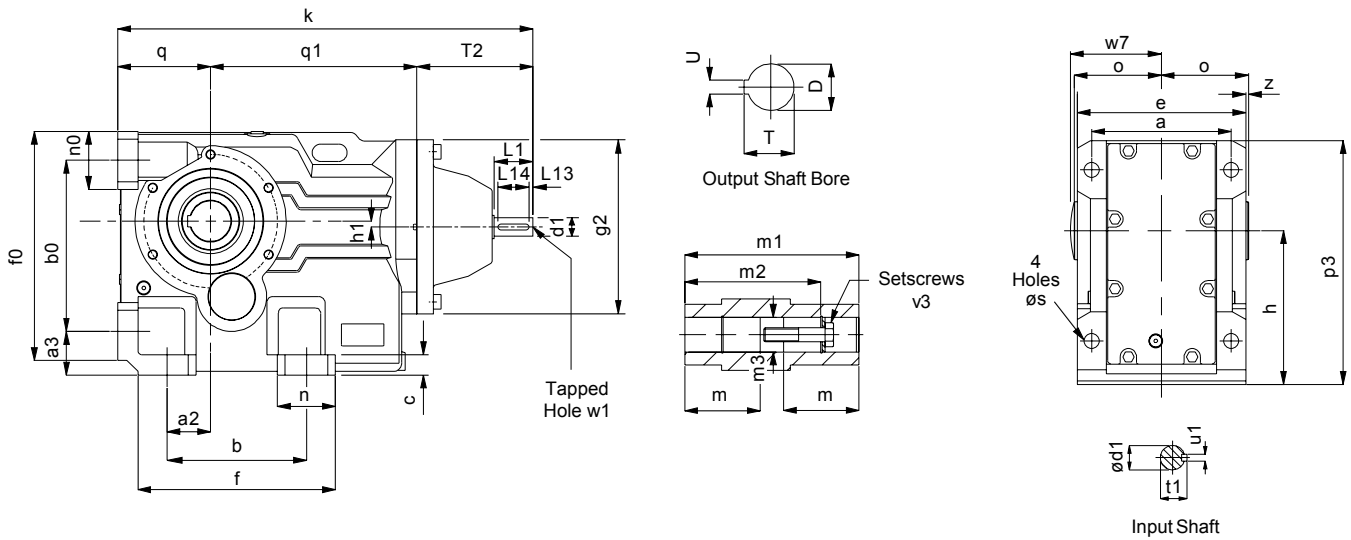
#### QUINTUPLE REDUCTION

Column Entry	Input Speed N1 (rpm)	K0951					K1051					K1251				
		N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)	N2 (rpm)	i (:1)	M2 (lb.in)	Pm (HP)	fra (lbf)
1   1   c	3500	3.14	1115	38055	2.00	7650	2.99	1171	64163	3.20	9698	3.07	1140	108855	5.58	13793
	1750	1.57		38055	1.00	7650	1.49		64163	1.60	9698	1.53		108855	2.79	13793
	1160	1.041		38055	0.66	7650	0.991		64163	1.06	9698	1.017		108855	1.85	13793
	875	0.785		38055	0.50	7650	0.747		64163	0.80	9698	0.767		108855	1.40	13793
1   2   c	3500	2.94	1190	38055	1.87	7650	2.76	1268	64163	2.96	9698	2.86	1226	107085	5.11	13793
	1750	1.47		38055	0.93	7650	1.38		64163	1.48	9698	1.43		107085	2.55	13793
	1160	0.975		38055	0.62	7650	0.915		64163	0.98	9698	0.947		107085	1.69	13793
	875	0.735		38055	0.47	7650	0.690		64163	0.74	9698	0.714		107085	1.28	13793
1   4   c	3500	2.37	1477	38055	1.51	7650	2.38	1470	64163	2.55	9698	2.30	1519	108855	4.19	13793
	1750	1.19		38055	0.75	7650	1.19		64163	1.28	9698	1.15		108855	2.10	13793
	1160	0.786		38055	0.50	7650	0.789		64163	0.85	9698	0.764		108855	1.39	13793
	875	0.593		38055	0.38	7650	0.595		64163	0.64	9698	0.576		108855	1.05	13793
1   6   c	3500	2.13	1641	38055	1.36	7650	2.14	1634	64163	2.30	9698	2.04	1712	108855	3.72	13793
	1750	1.067		38055	0.68	7650	1.071		64163	1.15	9698	1.022		108855	1.86	13793
	1160	0.707		38055	0.45	7650	0.710		64163	0.76	9698	0.678		108855	1.23	13793
	875	0.533		38055	0.34	7650	0.535		64163	0.57	9698	0.511		108855	0.93	13793
1   8   c	3500	2.01	1741	38055	1.28	7650	2.00	1754	64163	2.14	9698	1.93	1811	108855	3.51	13793
	1750	1.005		38055	0.64	7650	0.998		64163	1.07	9698	0.966		108855	1.76	13793
	1160	0.666		38055	0.42	7650	0.661		64163	0.71	9698	0.640		108855	1.16	13793
	875	0.502		38055	0.32	7650	0.499		64163	0.53	9698	0.483		108855	0.88	13793
2   0   c	3500	1.81	1935	38055	1.15	7650	1.80	1949	64163	1.92	9698	1.71	2042	108855	3.12	13793
	1750	0.905		38055	0.57	7650	0.898		64163	0.96	9698	0.857		108855	1.56	13793
	1160	0.600		38055	0.38	7650	0.595		64163	0.64	9698	0.568		108855	1.03	13793
	875	0.452		38055	0.29	7650	0.449		64163	0.48	9698	0.429		108855	0.78	13793
2   2   c	3500	1.65	2118	38055	1.05	7650	1.64	2134	64163	1.76	9698	1.57	2236	108855	2.85	13793
	1750	0.826		38055	0.53	7650	0.820		64163	0.88	9698	0.783		108855	1.42	13793
	1160	0.548		38055	0.35	7650	0.543		64163	0.58	9698	0.519		108855	0.94	13793
	875	0.413		38055	0.26	7650	0.410		64163	0.44	9698	0.391		108855	0.71	13793
2   5   c	3500	1.35	2596	38055	0.86	7650	1.37	2561	64163	1.46	9698	1.30	2683	108855	2.37	13793
	1750	0.674		38055	0.43	7650	0.683		64163	0.73	9698	0.652		108855	1.19	13793
	1160	0.447		38055	0.28	7650	0.453		64163	0.49	9698	0.432		108855	0.79	13793
	875	0.337		38055	0.21	7650	0.342		64163	0.37	9698	0.326		108855	0.59	13793
2   8   c	3500	1.28	2733	38055	0.81	7650	1.26	2779	64163	1.35	9698	1.21	2887	108855	2.20	13793
	1750	0.640		38055	0.41	7650	0.630		64163	0.67	9698	0.606		108855	1.10	13793
	1160	0.424		38055	0.27	7650	0.417		64163	0.45	9698	0.402		108855	0.73	13793
	875	0.320		38055	0.20	7650	0.315		64163	0.34	9698	0.303		108855	0.55	13793
3   2   c	3500	1.170	2992	38055	0.74	7650	1.150	3044	64163	1.23	9698	1.107	3162	108855	2.01	13793
	1750	0.585		38055	0.37	7650	0.575		64163	0.62	9698	0.553		108855	1.01	13793
	1160	0.388		38055	0.25	7650	0.381		64163	0.41	9698	0.367		108855	0.67	13793
	875	0.292		38055	0.19	7650	0.287		64163	0.31	9698	0.277		108855	0.50	13793
3   6   c	3500	0.954	3667	38055	0.61	7650	0.958	3652	64163	1.03	9698	0.922	3794	108855	1.68	13793
	1750	0.477		38055	0.30	7650	0.479		64163	0.51	9698	0.461		108855	0.84	13793
	1160	0.316		38055	0.20	7650	0.318		64163	0.34	9698	0.306		108855	0.56	13793
	875	0.239		38055	0.15	7650	0.240		64163	0.26	9698	0.231		108855	0.42	13793
4   0   c	3500	0.865	4048	38055	0.55	7650	0.832	4208	64163	0.89	9698	0.828	4226	108855	1.51	13793
	1750	0.432		38055	0.27	7650	0.416		64163	0.45	9698	0.414		108855	0.75	13793
	1160	0.287		38055	0.18	7650	0.276		64163	0.30	9698	0.275		108855	0.50	13793
	875	0.216		38055	0.14	7650	0.208		64163	0.22	9698	0.207		108855	0.38	13793
4   5   c	3500	0.776	4512	38055	0.49	7650	0.723	4842	64163	0.77	9698	0.720	4862	108855	1.31	13793
	1750	0.388		38055	0.25	7650	0.361		64163	0.39	9698	0.360		108855	0.65	13793
	1160	0.257		38055	0.16	7650	0.240		64163	0.26	9698	0.239		108855	0.43	13793
	875	0.194		38055	0.123	7650	0.181		64163	0.19	9698	0.180		108855	0.33	13793
5   0   c	3500	0.692	5060	38055	0.44	7650	0.651	5380	64163	0.70	9698	0.685	5110	107085	1.23	13793
	1750	0.346		38055	0.22	7650	0.325		64163	0.35	9698	0.342		107085	0.61	13793
	1160	0.229		38055	0.146	7650	0.216		64163	0.23	9698	0.227		107085	0.41	13793
	875	0.173		38055	0.110	7650	0.163		64163	0.17	9698	0.171		107085	0.31	13793
5   6   c	3500	0.604	5793	36374	0.37	7650	0.599	5845	64163	0.64	9698	0.595	5879	107085	1.06	13793
	1750	0.302		36374	0.18	7650	0.299		64163	0.32	9698	0.298		107085	0.53	13793
	1160	0.200		36374	0.122	7650	0.198		64163	0.21	9698	0.197		107085	0.35	13793
	875	0.151		36374	0.092	7650	0.150		64163	0.16	9698	0.149		107085	0.27	13793
6   3   c	3500	0.564	6207	38055	0.36	7650	0.534	6548	64163	0.57	9698	0.526	6657	108855	0.96	13793
	1750	0.282		38055	0.18	7650	0.267		64163	0.29	9698	0.263		108855	0.48	13793
	1160	0.187		38055	0.119	7650	0.177		64163	0.19	9698	0.174		108855	0.32	13793
	875	0.141		38055	0.090	7650	0.134		64163	0.143	9698	0.131		108855	0.24	13793
7   1   c	3500	0.501	6980	38055	0.32	7650	0.481	7276	64163	0.52	9698	0.494	7083	108855	0.90	13793
	1750	0.251		38055	0.16	7650	0.241		64163	0.26	9698	0.247		108855	0.45	13793
	1160	0.166		38055	0.106	7650	0.159		64163	0.17	9698	0.164		108855	0.30	13793
	875	0.125		38055	0.080	7650	0.120		64163	0.129	9698	0.124		108855	0.22	13793

# SERIES K

## DIMENSIONS

### TRIPLE REDUCTION

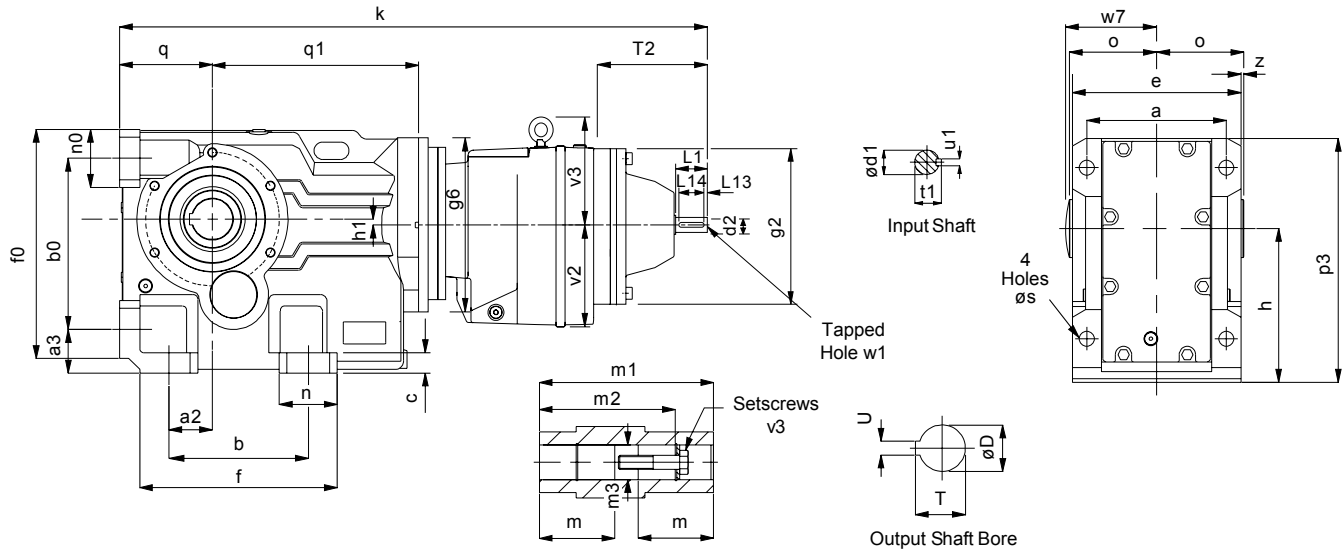


SIZE	a	a2	a3	b	b0	c	e	f	f0	g2	h	h1
K0332	3.94	1.10	1.26	4.33	4.53	0.43	4.72	5.63	5.98	5.51	3.94	0.63
K0432	4.72	1.38	1.46	5.12	5.12	0.63	5.71	6.61	6.73	5.51	4.41	0.51
K0532	5.12	1.18	1.77	5.12	5.91	0.59	6.18	6.69	7.56	7.09	5.20	0.20
K0632	5.51	1.18	1.77	4.72	6.30	0.79	6.69	6.93	8.19	7.09	5.51	0.51
K0732	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 2 1/4	
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 2 3/4	
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 2 3/4	
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 2 3/4	
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 3 1/4	
K0931	1.3750 1.3745	3.15	2 13/32	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 3 1/4	
K1031	1.6250 1.6240	4.33	3 11/16	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 3 1/4	
K1231	2.1250 2.1240	4.33	3 13/16	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 4 1/2	

# 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

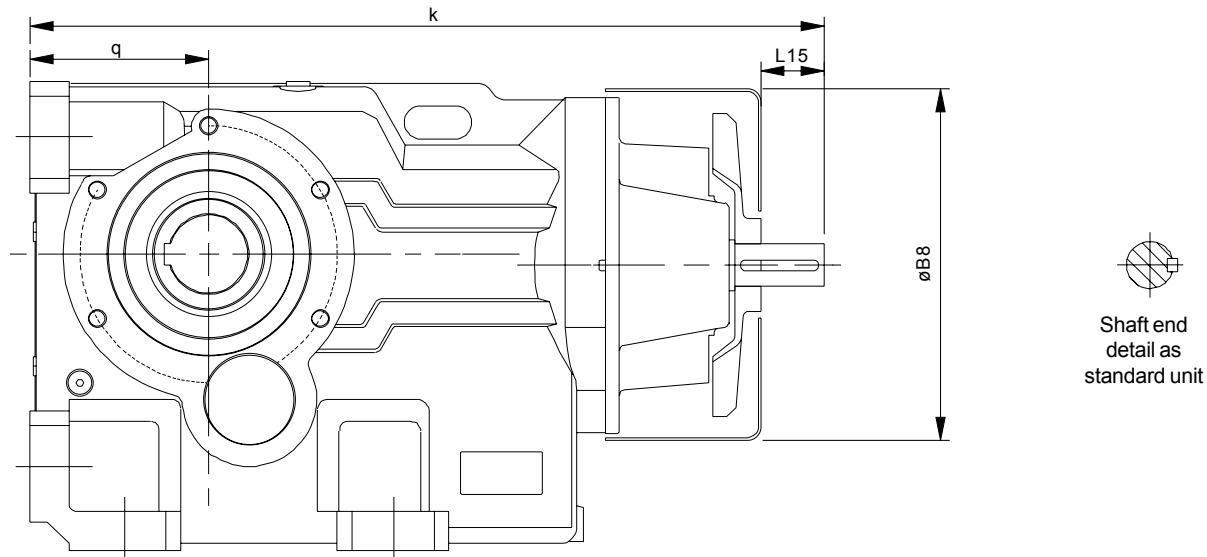
### Column 10 Entry

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

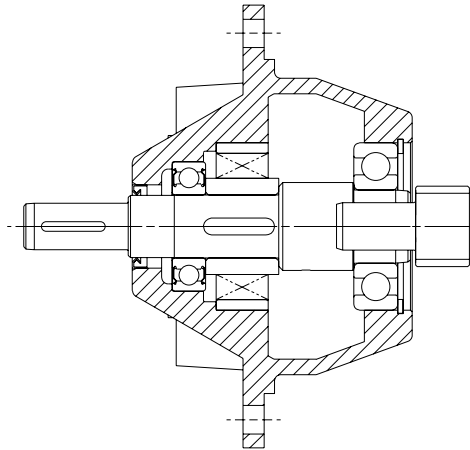
# SERIES K REDUCER BACKSTOP MODULE

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

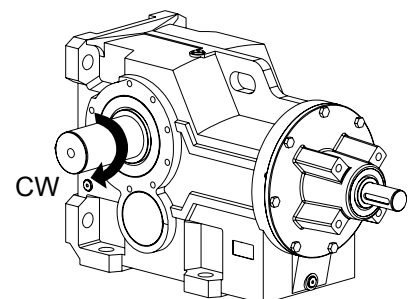
For reducer backstop modules enter **W** for CCW rotation (or **Z** if used in conjunction with a fan kit)  
**X** for CW rotation (or **Y** if used in conjunction with a fan kit)



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

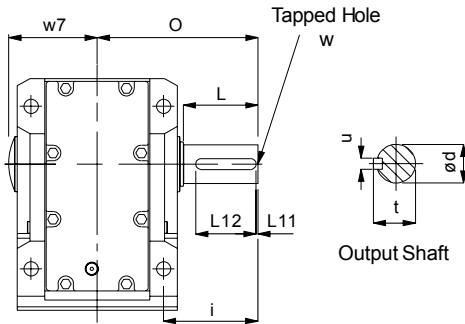


# SERIES K

## DIMENSIONS

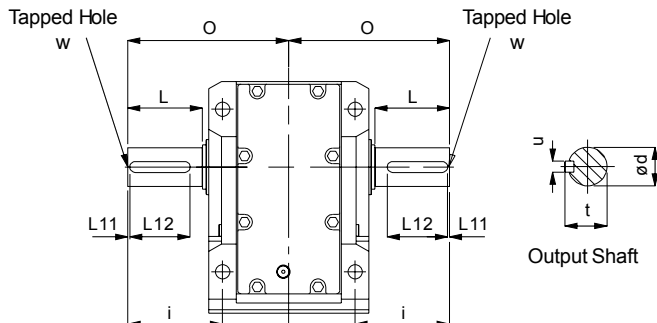
### OUTPUTSHAFT OPTIONS

#### 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

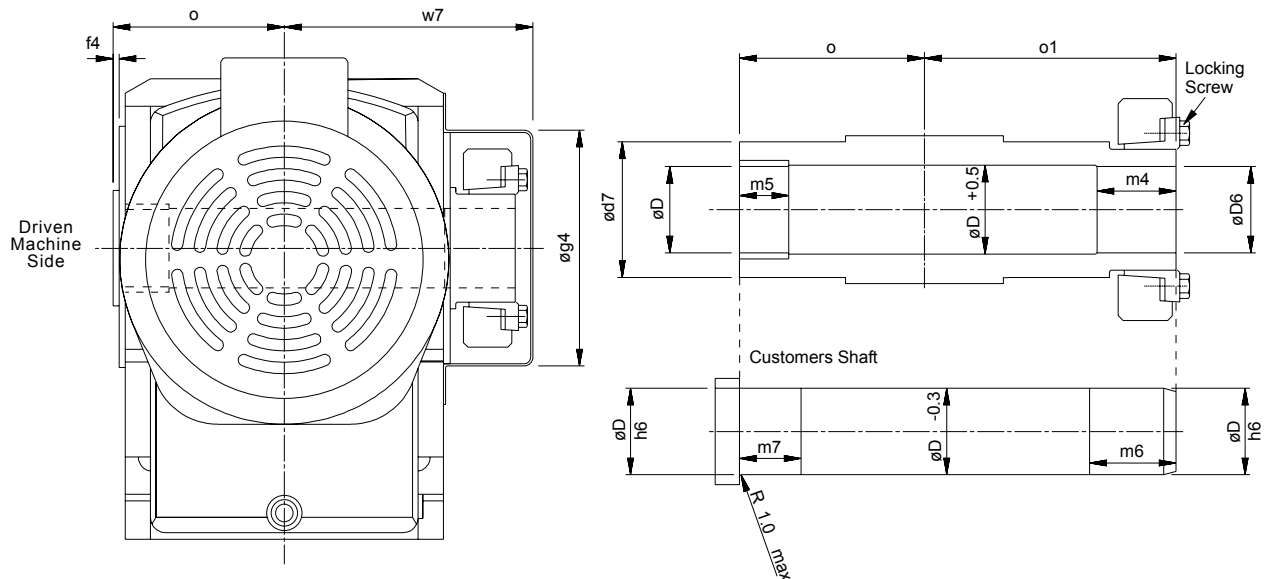
The gear unit is fitted with a 'shrink disc' device located on the hollow output shaft to provide a positive outer locking connection between gear unit and driven shaft. The 'shrink disc' is a friction device, without keys, which exerts an external clamping force on the hollow output shaft, thus establishing 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.



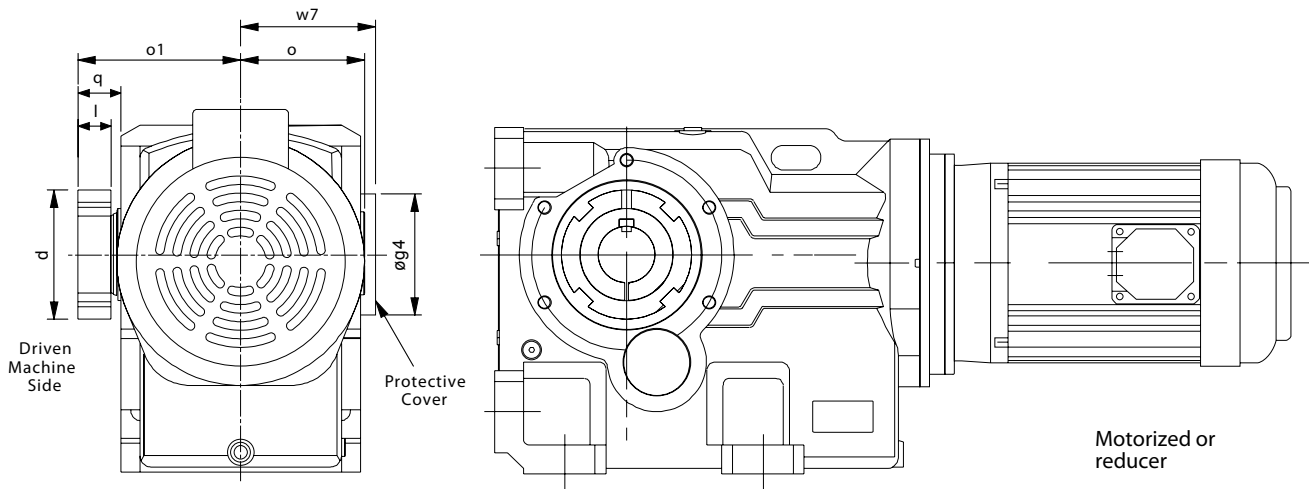
Note: only available as standard in this handing, please contact us for opposite handing

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

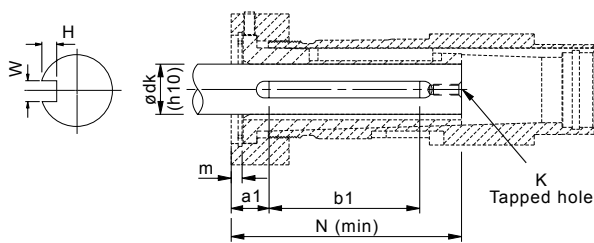
## DIMENSIONS (Inches)

### TAPER RELEASE BUSHING

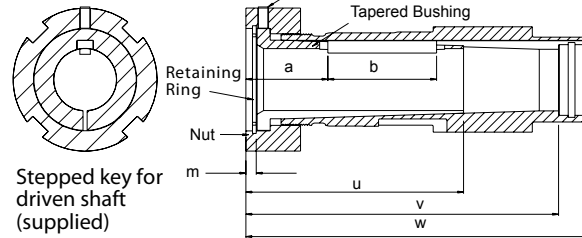


Note: only available as standard in this handing, please contact us for opposite handing

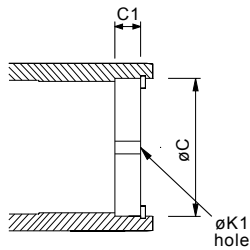
#### Driven shaft



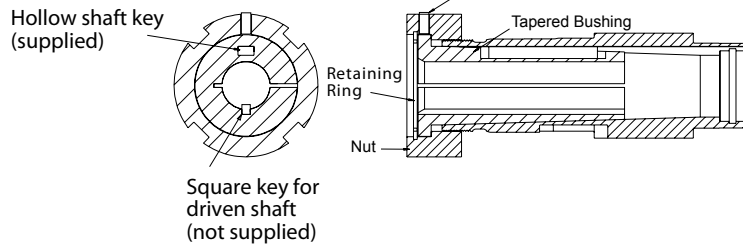
#### Thin walled



#### End plate (not supplied)



#### 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)

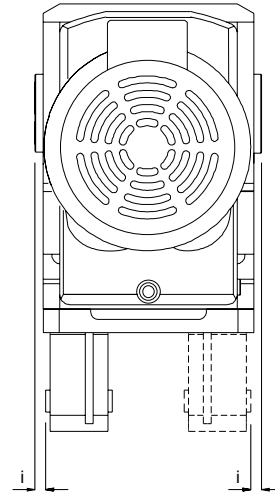
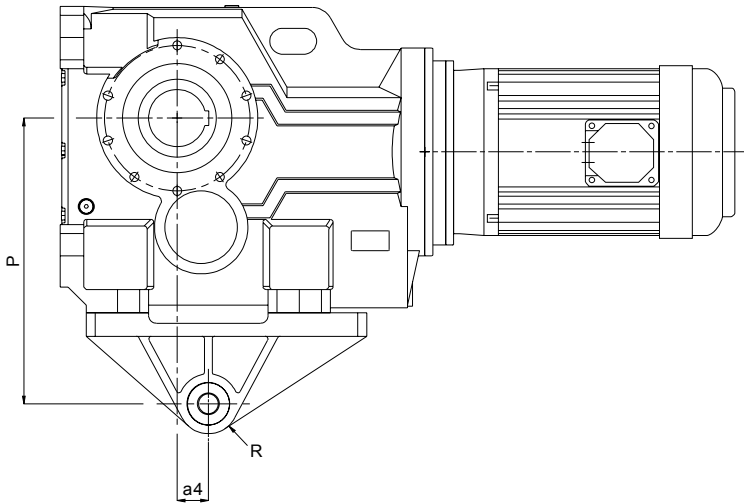
### TAPER RELEASE BUSHING

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
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	
K08 (207)TR	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
	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	5/8	5/16	4.25	1.24	5/8 UNC	6.11	2.83	0.43	3/4 UNC	N1300-0281	2.6	
K09 (215)TR	1.938 / 1.933	Thick	1/2	1/4	5.25	-	7/8 UNC	7.08	3.33	0.50	1 UNC	N1300-0334	11.4
	2.000 / 1.995	Thick	1/2	1/4	5.25	-	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
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	
K12 (315)TR	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
	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



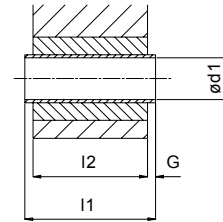
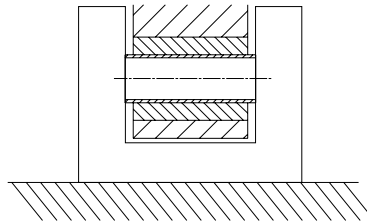
**Column 9 Entry**

**T** Torque bracket  
on left

**Column 9 Entry**

**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.

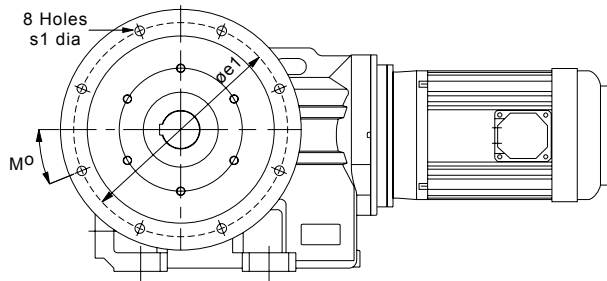
# SERIES K

## DIMENSIONS

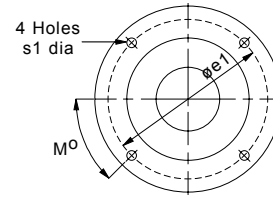
### ALL UNITS

#### STANDARD UNIT WITH B5 (D) FLANGE

Sizes K09 to K12

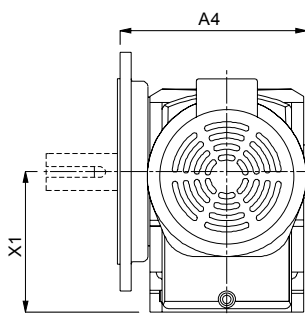


Sizes K03 to K08



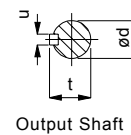
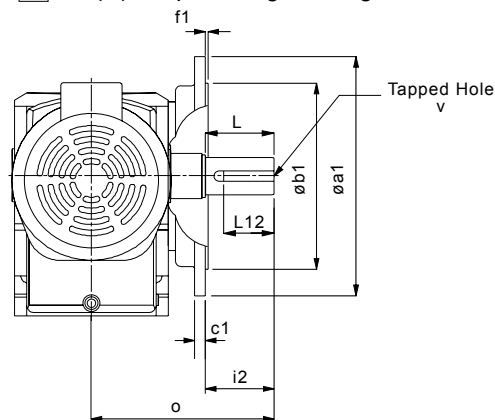
Column 9 Entry

**F** B5 (D) Output Flange on Left



Column 9 Entry

**H** B5 (D) Output Flange on Right



Output Shaft

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

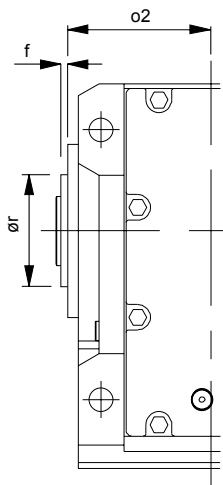
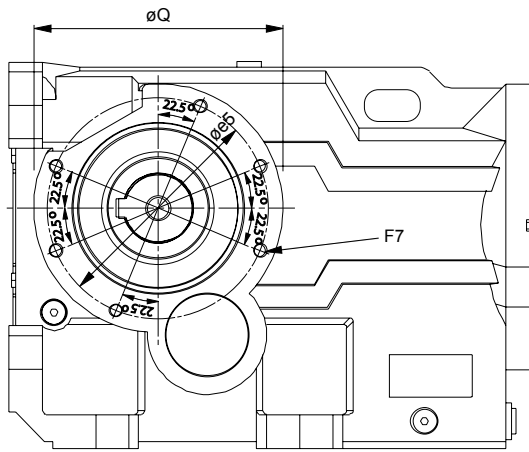
SIZE	Output shaft							
	d	i2	L	L12	o	t	u	v
K0332	1.0000 / 0.9995	1.97	1.97	1.57	5.28	1.106	0.25	3/8 UNF x 0.75" Deep
K0432	1.2500 / 1.2495	2.36	2.36	1.97	6.89	1.359	0.25	1/2 UNF x 1.13" Deep
K0532	1.3750 / 1.3745	2.76	2.76	2.36	6.93	1.507	0.313	5/8 UNF x 1.5" Deep
K0632	1.625 / 1.624	3.15	3.15	2.76	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

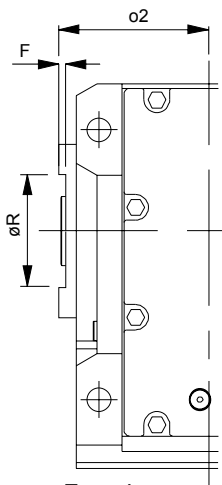
## DIMENSIONS

### ALL UNITS

**K03, K04 & K08**

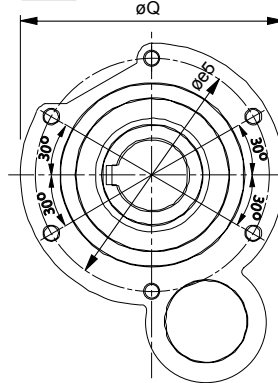


Male spigot  
K03 - K07

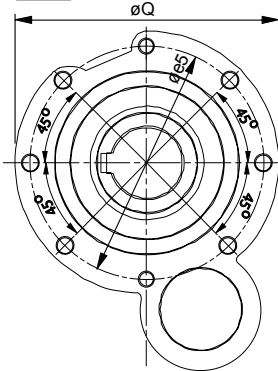


Female recess  
K08 - K12

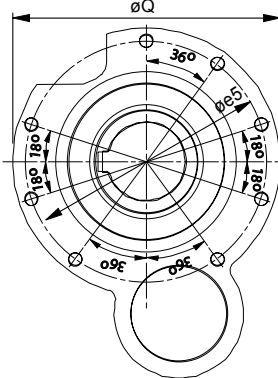
**K05**



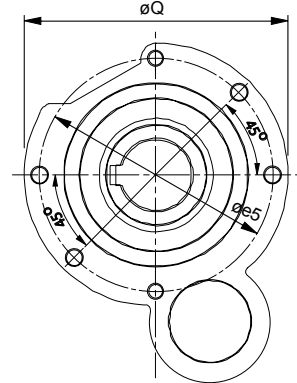
**K07**



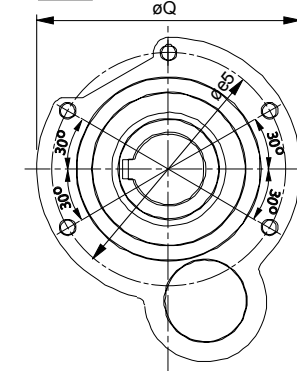
**K10**



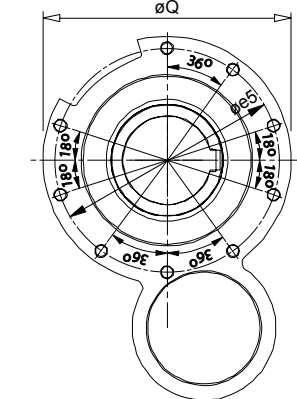
**K06**



**K09**



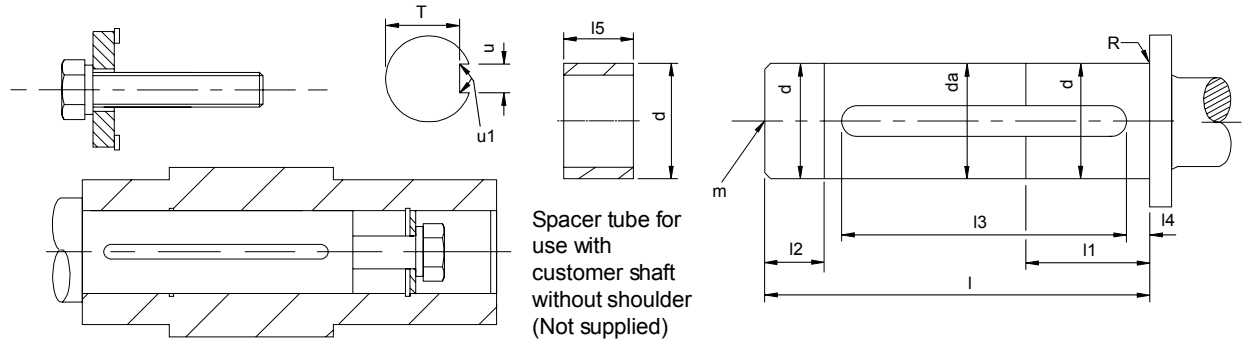
**K12**



SIZE	Øe5	F7	o2	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



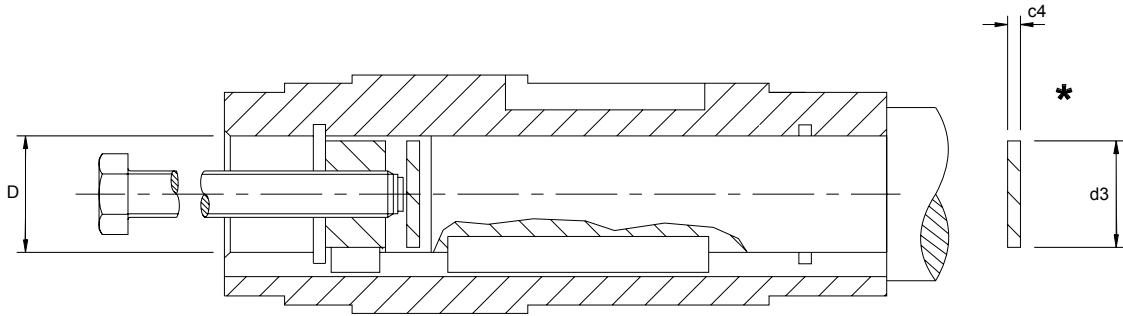
SIZE	d	da	l	l1	l2	l3	l4	l5	m	N	R	T	u	u1
K03	1.2496 1.2490	1.23	3.23	1.77	0.59	3	0.12	0.91	3/8 x UNF 0.875 deep	12 lb.ft	0.03	1.112 1.106	0.252 0.25	0.01
K04	1.3746 1.3740	1.36	4.29	2.36	0.79	3.56	0.12	0.91	1/2 x UNF 1.25 deep	15 lb.ft	0.03	1.201 1.195	0.3145 0.3125	0.01
K05	1.4996 1.4990	1.48	4.41	2.36	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

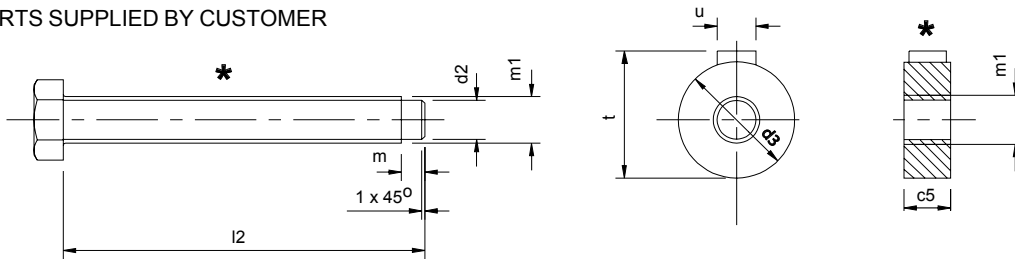
1. Spray the hollow shaft bore and mating diameter of the output shaft with Rocol DFMSM or equivalent anticuffing spray.
2. Fit key into shaft.
3. Fit the circlip into the output sleeve.
4. Fit the spacer tube only if the output shaft has no shoulder, then fit the output shaft into the output sleeve.
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		387		663		984	1077
		With Motor									425		547		670		946		1267	1360
	256TC	Without Motor									142		264		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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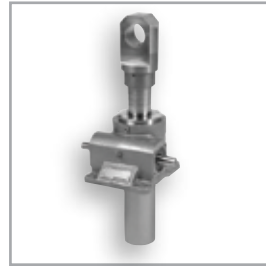
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