



### Design Features

- Single-piece construction utilized throughout
- IP65 sealed with Viton® seals at each joint
- High torque design with optimized gear geometry
- Advanced materials and heat treatments
- High torsional stiffness design
- Mounting in any direction
- Captive, bearing supported input pinion
- Simplified quick installation
- NEMA and Metric configurations standard

### Performance Specifications

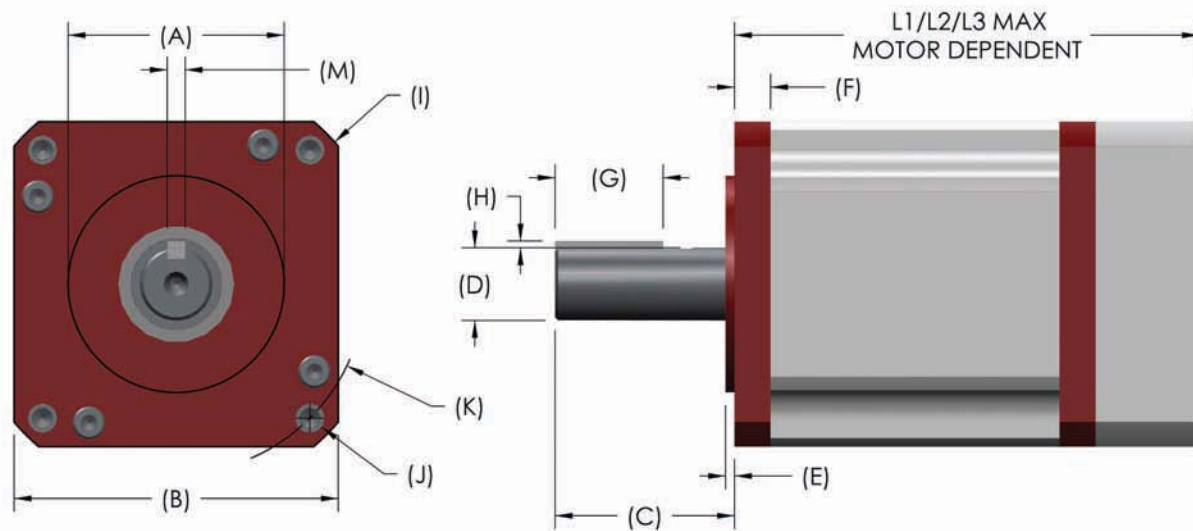
023PRX (NEMA) / 060PRX (METRIC)				034PRX (NEMA) / 090PRX (METRIC)			
Ratio	T <sub>NOM</sub> (1) In-lbs (Nm)	T <sub>MAX ACCEL</sub> In-lbs (Nm)	T <sub>E-STOP</sub> (2) In-lbs (Nm)	T <sub>NOM</sub> (1) In-lbs (Nm)	T <sub>MAX ACCEL</sub> In-lbs (Nm)	T <sub>E-STOP</sub> (2) In-lbs (Nm)	
<b>1 STAGE</b>	4:1	420 (48)	530 (60)	1069 (121)	1487 (168)	1874 (212)	3548 (401)
	5:1	360 (41)	455 (51)	1043 (118)	1328 (150)	1674 (189)	3481 (393)
	7:1	250 (28)	315 (36)	964 (109)	895 (101)	1128 (127)	2954 (334)
	10:1	165 (19)	210 (24)	720 (81)	580 (66)	732 (83)	2564 (290)
<b>2 STAGE</b>	16:1	420 (48)	530 (60)	1069 (121)	1487 (168)	1874 (212)	3548 (401)
	20:1	420 (48)	530 (60)	1069 (121)	1487 (168)	1874 (212)	3548 (401)
	25:1	360 (41)	455 (51)	1043 (118)	1328 (150)	1674 (189)	3481 (393)
	28:1	420 (48)	530 (60)	1069 (121)	1487 (168)	1874 (212)	3548 (401)
	35:1	360 (41)	455 (51)	1043 (118)	1328 (150)	1674 (189)	3481 (393)
	40:1	420 (48)	530 (60)	1069 (121)	1487 (168)	1874 (212)	3548 (401)
	50:1	360 (41)	455 (51)	1043 (118)	1328 (150)	1674 (189)	3481 (393)
	70:1	286 (32)	360 (41)	964 (109)	1029 (116)	1297 (146)	2954 (334)
100:1	192 (22)	241 (27)	720 (81)	674 (76)	849 (96)	2564 (290)	
Gearbox Weight (lbs)		1 stage 2.8 lbs / 2 stage 3.8 lbs		1 stage 9.1 lbs / 2 stage 12.7 lbs			
Torsional Stiffness (3)		20 in-lbs/arc-min		80 in-lbs/arc-min			
Input Speed			6500 RPM Maximum				
Backlash (arc-min)			4 (1 stage), 6 (2 stage)				
IP Rating			IP65				
Service Life			>20,000 HOURS				
Efficiency (4)			1 stage >95% 2 stage >90%				
Operating Temperature			-40°F to +250°F				
Shaft Loads			See Tables on Page 12				

1. All torque ratings are based upon 3,000 RPM nominal input speed, and 20,000 hours minimum service life.

2. E-STOP torque rating is limited to 1,000 occurrences.

3. Torsional Stiffness rating varies by type and ratio. Specified rating based on Metric, 5:1 ratio.

4. Efficiency rated at 3,000 RPM input speed, at Nominal Rated Torque.



## Gearhead Dimensions

Dimension	Code	023PRX	060PRX	034PRX	090PRX
		Inch (mm)	Metric (in)	Inch (mm)	Metric (in)
Pilot Diameter (+.000/-0.002 in)	A	1.500 (38)	50 (1.969)	2.875 (73)	80 (3.150)
Square Flange	B	2.25 (57)	60 (2.36)	3.45 (87)	90 (3.540)
Shaft Length	C	1.25 (32)	30 (1.18)	1.50 (38)	40 (1.57)
Shaft Diameter (+.0000/-0.0005 in)	D	0.500 (13)	16 (0.6299)	0.75 (19)	22 (0.8661)
Pilot Length	E	0.062 (2)	3 (0.118)	0.062 (2)	3 (0.118)
Flange Thickness	F	0.250 (6.4)	6.4 (0.250)	0.375 (10)	9 (0.375)
Key Length	G	0.75 (19)	20 (0.79)	0.98 (25)	25 (0.98)
Key Width (3)	M	0.125 (3.18)	5 (0.1969)	0.188 (5)	6 (0.2362)
Key Height	H	0.047 (1)	2 (0.079)	0.081 (2)	2.5 (0.098)
Housing Diameter	I	2.95 (75)	80 (3.15)	4.58 (116)	116 (4.58)
Bolt Hole Diameter	J	0.205 (5)	5.6 (0.220)	0.220 (5.6)	6.6 (0.260)
Bolt Circle Diameter	K	2.625 (67)	70 (2.756)	3.875 (98)	100 (3.937)
Gearhead Length (1)	L1	3.23 (82)	82 (3.230)	4.73 (120)	120 (4.730)
	L2	4.38 (111)	111 (4.380)	6.50 (165)	165 (6.500)

## Moment of Inertia Table (2) (oz-in-sec<sup>2</sup>)

Ratio	023PRX	060PRX	034PRX	090PRX
4:1	2.190E-03	2.206E-03	1.554E-02	1.557E-02
5:1	1.887E-03	1.896E-03	1.310E-02	1.312E-02
7:1	1.661E-03	1.666E-03	1.117E-02	1.118E-02
10:1	1.547E-03	1.550E-03	1.018E-02	1.019E-02
16:1	1.852E-03	1.853E-03	1.303E-02	1.303E-02
20:1	1.670E-03	1.671E-03	1.149E-02	1.149E-02
25:1	1.659E-03	1.659E-03	1.139E-02	1.139E-02
28:1	1.551E-03	1.551E-03	1.036E-02	1.035E-02
35:1	1.545E-03	1.545E-03	1.030E-02	1.030E-02
40:1	1.493E-03	1.493E-03	9.778E-03	9.778E-03
50:1	1.490E-03	1.490E-03	9.753E-03	9.753E-03
70:1	1.488E-03	1.488E-03	9.734E-03	9.734E-03
100:1	1.487E-03	1.487E-03	9.724E-03	9.724E-03

(1) Gearhead Length based on NEMA motor mounting.

(2) Gearhead inertia values shown include pinion, clamp and sleeve, and are for standard NEMA mounting.

(3) Key Width tolerance for English keys is: +.001 / -.000 in.  
Key Width tolerance for Metric keys is: +.000 / -.0012 in.

• All specifications are subject to change without prior notice.



Quality at Every Turn