

### Features

- Off the shelf stock ratings
- High Torque Totally Enclosed Integrally Mounted 34 frame PMDC motor
- Gear ratios 7:1 to 61:1 Single Reduction
- Output torque from 46 in-lbs up to 158 in-lbs
- Horsepower 1/8 and 1/4
- Lifetime synthetic semi-fluid gear lubricant
- Vent free design, no breather or vents to leak
- Worm and worm gear fully supported with ball bearings
- Base mounting convertible to face mounting
- Precision die-cast aluminum housings
- Gearmotor provided with solid output shaft, but can convert to hollow bore



**Series 12 SUB-FHP**

### Mechanical Specifications

This worm-type right-angle gearing features hardened, steel worm with bronze worm wheel for long life and quiet operation. Single-piece die cast aluminum alloy housing is vacuum impregnated with Resinol RT for protection and sealing. This gearbox combines light weight with high tensile strength along with being precision machined for alignment of bearings and gearing. For optimum seal life we use high-temperature Nitrile seals. Gearbox provided with solid output shaft, but can be converted to a hollow output shaft mounting by using snap-ring pliers and remove the snap ring and solid output shaft. Also the T-base feet are bolted to the gearbox, but can easily be removed and converted to face mounting.

#### NOTES:

1. For additional information on Leeson's gearmotors, see Bulletin 1830.
2. For solid double output shaft consult factory.

### Electrical Specifications

Both SCR (90 volt) and Low Voltage (12 volt) right angle gearmotors. The 90 volt motors are performance matched for continuous service over a 60:1 speed range. All have constant torque throughout the speed range when powered by a full-wave, unfiltered SCR-type 115 volt input adjustable speed control having a typical form factor of 1.3 to 1.4. The low voltage motors are also performance matched for continuous duty. Motors are designed for battery power or can be used with a low voltage controller with form factor up to 1.05.





### RIGHT-ANGLE DC • SCR 90 VOLT RATED TEFC • 1.0 SERVICE FACTOR

Output RPM	F.L. Torque (In.-Lbs.)	Input HP	Catalog Number	Gearmotor Enclosure	Gearmotor Type & Frame	Ratio to 1	Arm Volts DC	Full Load Amps. DC	DIMENSIONS				
									P	X	XL Inches	XH	PB
28	125	1/8*	M1135292	TENV	12B60-34D	61	90	1.6	3.38	4.23	10.98	6.75	4.00
45	87	1/8*	M1135291	TENV	12B39-34D	39	90	1.6	3.38	4.23	10.98	6.75	4.00
58	158	1/4	M1135290	TEFC	12B30-34G	30	90	2.8	3.88	4.23	13.07	8.84	3.76
90	100	1/4	M1135289	TEFC	12B19-34G	19	90	2.6	3.88	4.23	13.07	8.84	3.76
115	85	1/4	M1135288	TEFC	12B15-34G	15	90	2.6	3.88	4.23	13.07	8.84	3.76
167	61	1/4	M1135287	TEFC	12B11-34G	10.6	90	2.6	3.88	4.23	13.07	8.84	3.76
250	46	1/4	M1135286	TEFC	12B7-34G	7	90	2.6	3.88	4.23	13.07	8.84	3.76

\* Supplied with TENV motor enclosure

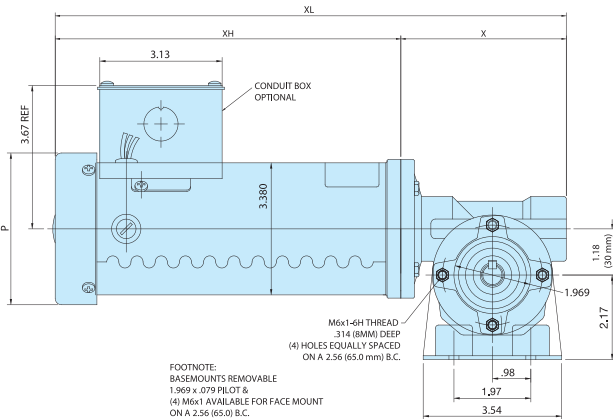


### RIGHT-ANGLE DC • LOW VOLTAGE (12V) TENV • 1.0 SERVICE FACTOR

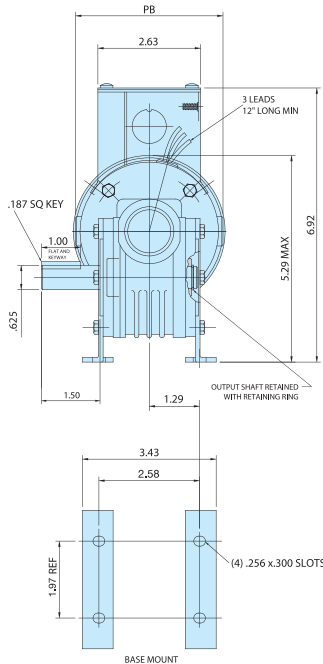
Output RPM	F.L. Torque (In.-Lbs.)	Input HP	Catalog Number	Gearmotor Enclosure	Gearmotor Type & Frame	Ratio to 1	Arm Volts DC	Full Load Amps. DC	DIMENSIONS				
									P	X	XL Inches	XH	PB
27	134	1/8	M1135285	TENV	12B60-34C	61	12	14	3.38	4.23	10.48	6.25	4.21
45	94	1/8	M1135284	TENV	12B39-34C	39	12	15	3.38	4.23	10.48	6.25	4.21
58	158	1/4	M1135297	TENV	12B30-34F	30	12	24	3.38	4.23	11.73	7.5	4.21
90	100	1/4	M1135296	TENV	12B19-34F	19	12	24	3.38	4.23	11.73	7.5	4.21
115	85	1/4	M1135295	TENV	12B15-34F	15	12	23	3.38	4.23	11.73	7.5	4.21
167	61	1/4	M1135294	TENV	12B11-34F	10.6	12	21	3.38	4.23	11.73	7.5	4.21
250	46	1/4	M1135293	TENV	12B7-34F	7	12	23	3.38	4.23	11.73	7.5	4.21

**NOTE:**

- Conduit box not supplied with the gearmotor. Mounting provisions are provided and can use conduit box kit catalog number M1760007 found on page 156 in Leeson's 1050 stock catalog.



FOOTNOTE:  
BASEMOUNTS REMOVABLE  
1.909 x .079 PILOT &  
(4) M6x1 AVAILABLE FOR FACE MOUNT  
ON A 2.56 (65.0) B.C.



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