

Characteristics:

door closure assistant motor with optional EMI suppression

Specifications:

Dimensions	: Ø 1.40945 X 2.24409 in
Shaft Diameter	: Ø 0.125 in
Input Voltage	: 12.0 V DC
No Load Speed	: 4646 rpm
Stall Torque	: 2.37 lb.in
Maximum Output Power	: 0.04
Maximum Efficiency	: 67%
Weight	: 9 oz
Operating Temperature Range	: -40 to 185 °F
Storage Temperature Range	: -40 to 185 °F



Performance Data:

	No Load	Stall	Maximum Efficiency	Maximum Power
Current (A)	0.30	12.26	1.92	6.28
Efficiency (%)	-	-	67	-
Output Power (hp)	-	-	0.02	0.04
Speed (rpm)	4646	-	4017	2323
Torque (Lb.in)	-	2.37	0.32	1.18

Application Examples:

Door Closure Assist

Technical drawing of the 1000 Series Motor showing three views: front, side, and top.

Front View (Left): Shows the motor's end cap. Dimensions include a total width of 27.6, a central shaft diameter of $\phi 13.0 \pm 0.10$, and a multi-line knurling diameter of $\phi 3.33 \pm 0.08$. A red dot is added to the left side. The motor is labeled "RED DOT ADDED" and "MULTI-LINE KNURLING $\phi 3.33 \pm 0.08$ ".

Side View (Middle): Shows the motor's profile. Dimensions include a total length of 57.0, a central shaft diameter of $\phi 13.0 \pm 0.10$, and a multi-line knurling diameter of $\phi 3.175 \pm 0.005$. The motor is labeled "KEEPER RING" and "7.0 ± 0.3 (TO END CAP SURFACE)".

Top View (Right): Shows the motor's base. Dimensions include a total width of 35.8, a central shaft diameter of $\phi 13.0 \pm 0.10$, and a multi-line knurling diameter of $\phi 3.175 \pm 0.005$. The motor is labeled "2XM3.0 TAPPED HOLES" and "ROTATION".

A graph showing the performance characteristics of a motor. The x-axis represents Torque (m-Nm) from 0 to 300. The left y-axis represents Speed (Rpm) from 0 to 5000. The right y-axis represents Efficiency (%) from 0 to 100, Current (Amp) from 0 to 20, and Power (Watt) from 0 to 50. The graph includes five curves: N (No-load speed, blue line), P (Power, green curve), Eff (Efficiency, red curve), I (Current, black line), and a vertical line at 270 m-Nm representing the motor's maximum torque.

Torque (m-Nm)	Speed (Rpm) (N)	Efficiency (%) (Eff)	Power (Watt) (P)	Current (Amp) (I)
0	4600	0	0	0
50	3800	65	15	4
100	3000	85	30	8
150	2200	95	45	12
200	1400	85	30	16
250	600	35	5	20
270	0	0	0	21

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