

Size 6E Rotary Solenoid

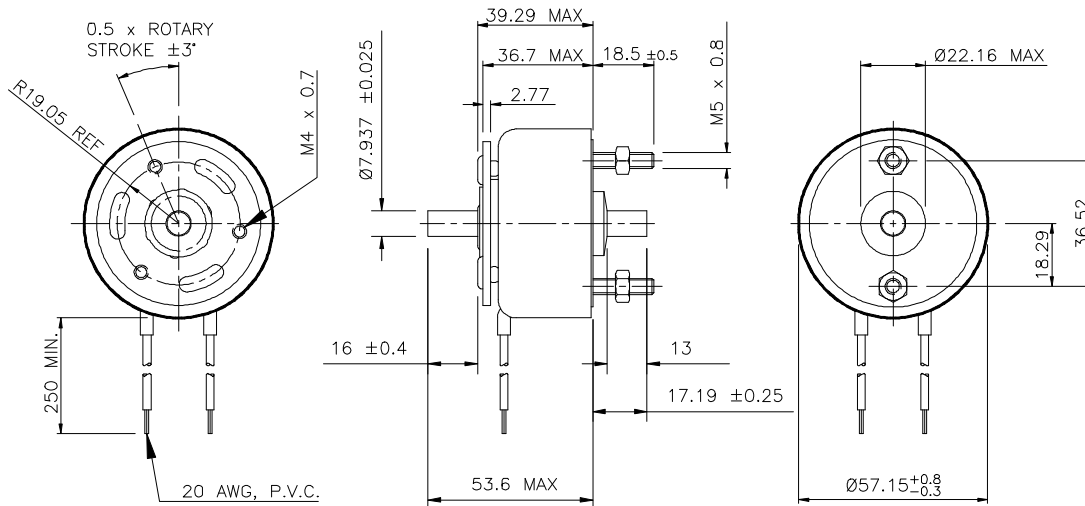


General Specifications:

- **Dielectric Strength:** 20 awg. 1000 VRMS / 21-31 awg. 1200 VRMS / 32-33 awg. 1500 VRMS
- **Recommended Heat Sink:** Maximum watts dissipated by the solenoid are based on an unrestricted flow of air at 20°C mounted on the equivalent of an aluminium plate 323.9 x 323.9 x 3.2mm min.

- **Coil Resistance:** +/- 5% tolerance
- **Starting Torque:** Gross torque values are shown For net starting torque, subtract return spring torque
- **Return Spring Torque:** 56.5 mNm +/- 20%
- **Weight:** 624 g

Solenoid shown in the de-energised position



Notes

1. Continuously pulsed at stated watts and duty cycle
2. Single pulsed at stated watts (with coil at ambient room temperature 20°C)
3. Other coil gauges available, consult factory
4. Reference number of turns
5. Gross starting torques are shown. For net starting torque, subtract return spring torque of 56.5mNm +/-20%
6. Holding torque is shown at the stabilised temperature of 105°C, 100% duty cycle

Performance Specification

Starting Torque (mNm) @ 20° C (5)						
Maximum Duty Cycle	100%	50%	25%	10%	5%	
25°	1017	711.9	1310.8	1977.5	2938.0	3141.4
35°	519.8	960.5	1412.5	1966.2	2101.8	
45°	678.0	271.2	519.8	802.3	1186.5	1209.1
67.5°	248.6	452.0	655.4	937.9	994.4	
95°	339.0	135.6	259.9	384.2	553.7	587.6

How to Order - Please Specify

- Direction and angle of rotation
- Coil awg, or voltage and duty cycle
- Supplementary 'X' features i.e. method of load take off
- Operating temperature range
- Any special features, if complex please submit a drawing of your requirements

Coil Specifications

Maximum Duty Cycle	100%	50%	25%	10%	5%
Maximum ON Time (sec) When pulsed continuously (1)		87	36	13	4.6
Maximum ON Time (sec) for single pulse (2)		140	44	16	5.7
Watts (@20° C)	32	64	128	320	640
Ampere Turns (@ 20° C)	1480	2080	2940	4620	6620

Coil Data							
awg. (3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage				
20	1.34	315	6.5	9.3	13.1	20.7	29.3
21	1.82	350	7.6	10.8	15.3	24.1	34.1
22	3.02	456	9.8	13.9	19.7	31.1	44.0
23	4.69	567	12.3	17.3	24.5	38.7	54.8
24	7.43	710	15.4	21.8	30.8	48.8	69.0
25	12.90	960	20.3	28.7	40.6	64.2	90.9
26	19.70	1170	25.1	35.5	50.2	79.4	112.0
27	32.00	1500	32.0	45.3	64.0	101.0	143.0
28	51.60	1904	40.6	57.5	81.3	129.0	182.0
29	74.40	2232	48.8	69.0	97.6	154.0	218.0
30	126.0	2940	63.5	89.8	127.0	201.0	284.0
31	195.0	3611	79.0	112.0	158.0	250.0	353.0
32	288.0	4350	96.0	136.0	192.0	304.0	429.0
33	427.0	5010	117.0	165.0	234.0	370.0	-
34	627.0	5800	142.0	200.0	283.0	448.0	-
35	1025.0	7600	181.0	256.0	362.0	-	-

Please Note: In line with continued development we reserve the right to amend specification without prior notice (Rev 01/12)