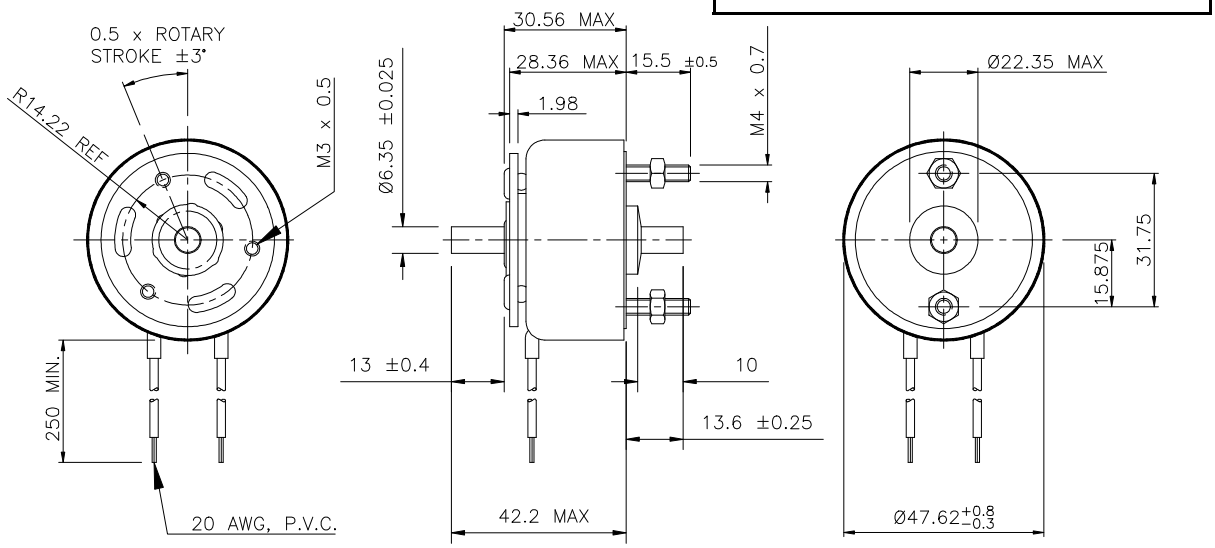
Size 5E Rotary Solenoid

General Specifications:

- **Dielectric Strength:** 22-23 awg, 1000 VRMS / 24-33 awg, 1200 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 190.5x190.5x3.2mm min.
- **Coil Resistance:** +/- 5% tolerance
- **Starting Torque:** Gross torque values are shown. For net starting torque, subtract return spring torque.
- **Return Spring Torque:** 28.2mNm +/- 20%.
- **Weight:** 312 g

Solenoid shown in the de-energised position.



Performance Specification

		Starting Torque (mNm) @ 20° C (5)				
Maximum Duty Cycle		100%	50%	25%	10%	5%
Stroke	Holding Torque (6)					
25°	565	237.3	576.3	915.3	1288.2	1491.6
35°		192.1	361.6	576.3	858.8	971.8
45°	339	135.6	248.6	429.4	666.7	813.6
67.5°		90.4	169.5	282.5	440.7	519.8
95°	226	33.9	79.1	135.6	226.0	293.8

Coil Specifications

Maximum Duty Cycle			100%	50%	25%	10%	5%
Maximum ON Time (sec) When pulsed continuously (1)				100	36	10	3.5
Maximum ON Time (sec) for single pulse (2)				162	44	13	4.6
Watts (@20° C)			21	42	84	210	420
Ampere Turns (@ 20° C)			1015	1440	2030	3210	4650
Coil Data							
awg.(3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage				
22	1.68	301	5.9	8.4	11.9	18.8	26.6
23	2.70	384	7.5	10.6	15.1	23.8	33.7
24	4.30	486	9.5	13.4	19.0	30.0	42.5
25	6.66	590	11.8	16.7	23.7	37.4	52.9
26	10.30	737	14.7	20.8	29.4	46.5	65.8
27	15.70	900	18.2	25.7	36.3	57.4	81.2
28	26.60	1190	23.6	33.4	47.3	74.7	105.7
29	38.00	1380	28.2	39.9	56.5	89.3	126.3
30	62.10	1768	36.1	51.1	72.2	114.0	161.0
31	96.10	2166	44.9	63.5	89.8	142.0	201.0
32	157.00	2816	57.4	81.2	115.0	182.0	257.0
33	241.00	3432	71.1	101.0	142.0	225.0	318.0

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 28.2mNm +/-20%.

How to Order - Please specify:

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

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