

# Size 2E Rotary Solenoid

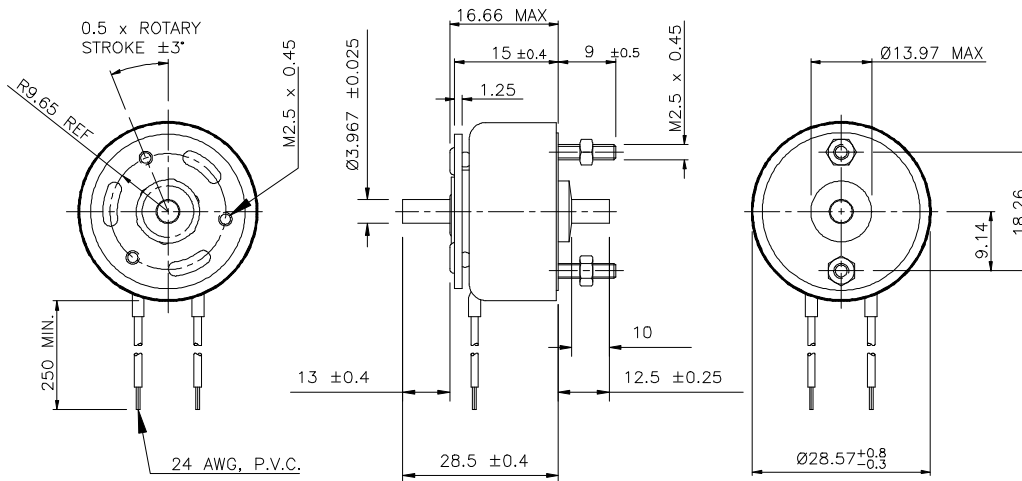


## General Specifications:

- **Dielectric Strength:** 1000 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 84.7 x 84.7 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:** 6.8 mNm +/- 20%
- **Weight:** 56.7 g

## 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 6.8mNm +/-20%
6. Holding torque is shown at the stabilised temperature of 105°C, 100% duty cycle



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°	56.5	22.6	45.2	79.1	192.1	192.1
35°	22.6	33.9	56.5	124.3	146.9	
45°	33.9	11.3	22.6	45.2	79.1	101.7

## 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)		100	36	7	2.5		
Maximum ON Time (sec) for single pulse (2)		162	44	8	2.8		
Watts (@20° C)	7	14	28	70	140		
Ampere Turns (@ 20° C)	425	602	849	1350	1904		
Coil Data							
avg. (3)	Resistance (@20°C)	# Turns (4)	Nominal DC Voltage				
24	0.68	130	2.2	3.2	4.5	7.1	10.0
25	1.16	174	2.8	4.0	5.7	9.0	12.7
26	1.96	231	3.6	5.1	7.2	11.5	16.2
27	3.16	296	4.5	6.4	9.0	14.4	20.0
28	5.10	378	5.7	8.1	11.5	18.2	26.0
29	6.94	423	7.0	9.9	13.9	22.0	31.0
30	11.03	530	8.8	12.5	17.7	28.0	40.0
31	16.85	649	11.0	15.6	22.0	35.0	49.0
32	28.15	858	13.9	19.8	28.0	44.0	63.0
33	42.75	1036	17.5	25.0	35.0	56.0	79.0
34	69.56	1312	23.0	32.0	45.0	72.0	101.0
35	112.00	1674	29.0	40.0	57.0	91.0	128.0

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

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