

# Size 3ECM Low Profile Solenoid



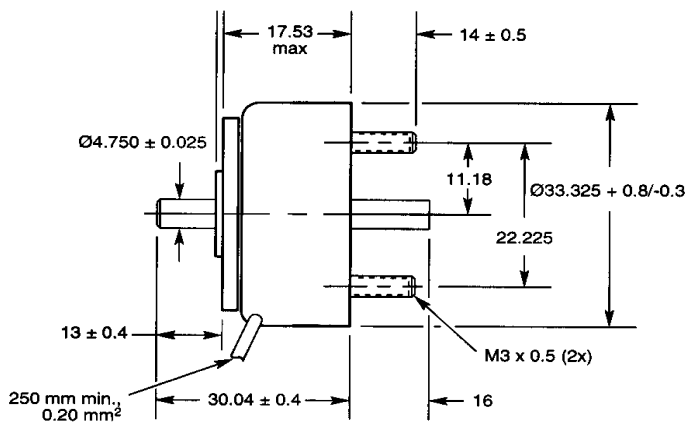
## Push and Pull Linear

### Medium Stroke, Conical Face

#### Part No: 282346-0XX

- **Dielectric Strength:** 23-27 awg. 1000 VRMS / 28-33 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 118x118x3.2mm min

Solenoid shown in energised position



### General Specifications:

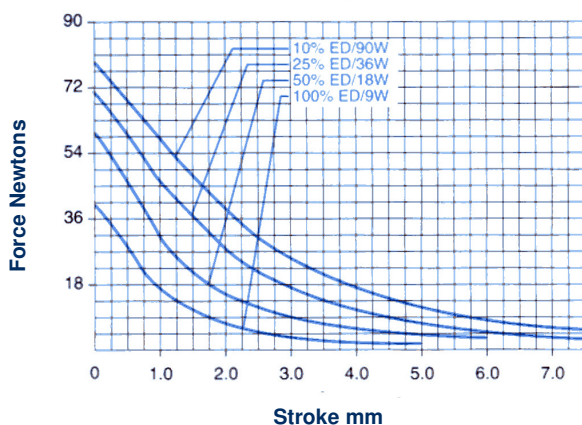
- **Coil Resistance:** 28-33 awg. +/- 5% tolerance
- **Holding Force:** 53.4 N @ 105°C
- **Weight:** 106.3 g
- **Typical Performance Details for 3E Series:**
  - Up to 68 N force at 0.5 mm stroke
  - Under 4 milliseconds response time for 1 mm stroke under no load conditions
  - Conical pole face allows increased stroke with minimal reduction in performance
  - Pull or push design

### 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. Anti rotational mounting bushes available on request

## Performance Specification

### Typical Starting Force @ 20°C



### How to Order

Add the coil awg. number to the part number, alternatively please specify:

- Voltage
- Duty Cycle
- Starting Force
- Stroke Required
- Any Special Requirements

## Coil Specifications

Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (seconds) When pulsed continuously (1)	∞	100	36	8
Maximum ON Time (seconds) for single pulse (2)	∞	162	44	9
Watts (@20°C)	9	18	36	90
Ampere Turns (@ 20°C)	535	756	1070	1690

### Coil Data

awg. (0XX) (3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage			
23	0.70	145	2.6	3.7	5.2	8.2
24	1.18	192	3.3	4.6	6.6	10.4
25	1.97	252	4.2	5.9	8.4	13.2
26	3.26	328	5.3	7.5	10.6	16.8
27	5.04	405	6.7	9.4	13.3	21.0
28	8.02	510	8.4	11.9	16.8	27.0
29	12.21	627	10.4	14.7	21.0	33.0
30	19.20	780	13.2	18.6	26.0	42.0
31	31.84	1008	16.9	24.0	34.0	53.0
32	46.97	1215	21.0	29.0	41.0	65.0
33	75.30	1530	26.0	37.0	53.0	83.0

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

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