

Size 6SFM Low Profile Solenoid



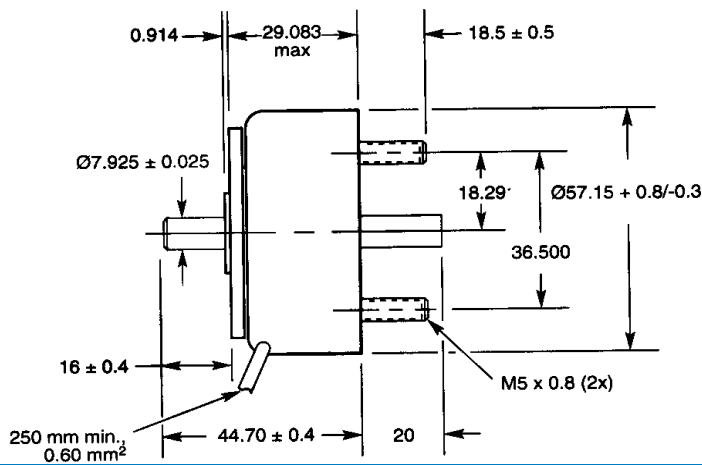
Push and Pull Linear

Short Stroke, Flat Face

Part No: 282351-0XX

- **Dielectric Strength:** 23-31 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 314x314x3.2mm min

Solenoid shown in energised position



General Specifications:

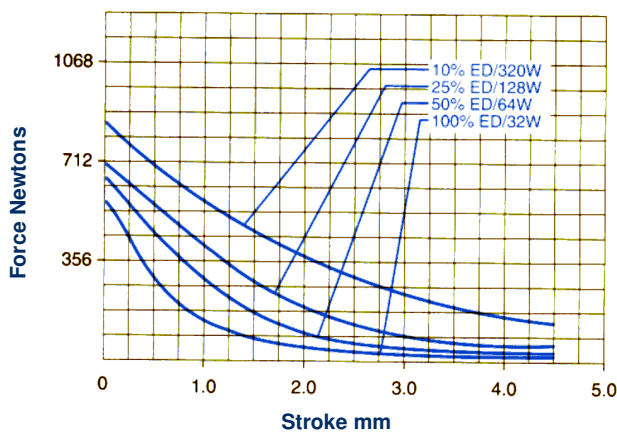
- **Coil Resistance:** 23-33 awg. +/- 5% tolerance
- **Holding Force:** 391.4 N @ 105 °C
- **Weight:** 510.3 g
- **Typical Performance Details for 6S Series:**
 - Up to 712 N force at 0.5 mm stroke
 - Under 6 milliseconds response time for 1 mm stroke under no load conditions
 - Conical pole face allows 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) | ∞ | 87 | 36 | 13 |
| Maximum ON Time (seconds) for single pulse (2) | ∞ | 140 | 44 | 16 |
| Watts (@20°C) | 32 | 64 | 128 | 320 |
| Ampere Turns (@ 20°C) | 1240 | 1760 | 2490 | 3920 |

Coil Data

| awg. (0XX) (3) | Resistance (@ 20°C) | # Turns (4) | Nominal DC Voltage | | | |
|----------------|---------------------|-------------|--------------------|-------|-------|-------|
| 23 | 3.59 | 432 | 10.3 | 14.6 | 21.0 | 33.0 |
| 24 | 5.24 | 500 | 13.0 | 18.4 | 26.0 | 41.0 |
| 25 | 9.51 | 708 | 16.7 | 24.0 | 33.0 | 53.0 |
| 26 | 14.44 | 858 | 21.0 | 30.0 | 42.0 | 66.0 |
| 27 | 23.69 | 1110 | 27.0 | 38.0 | 53.0 | 84.0 |
| 28 | 38.27 | 1411 | 34.0 | 48.0 | 68.0 | 106.0 |
| 29 | 54.62 | 1638 | 41.0 | 59.0 | 83.0 | 131.0 |
| 30 | 93.67 | 2184 | 53.0 | 76.0 | 107.0 | 168.0 |
| 31 | 143.00 | 2645 | 67.0 | 95.0 | 134.0 | 211.0 |
| 32 | 223.00 | 3328 | 83.0 | 118.0 | 167.0 | 262.0 |
| 33 | 338.00 | 4004 | 105.0 | 149.0 | 210.0 | 331.0 |

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

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