

Size 5ECM Low Profile Solenoid



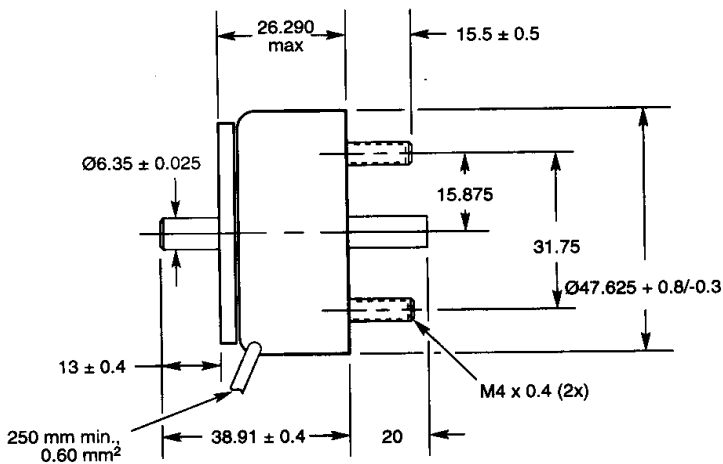
Push and Pull Linear

Medium Stroke, Conical Face

Part No: 282350-0XX

- **Dielectric Strength:** 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 118x118x3.2mm min

Solenoid shown in energised position



General Specifications:

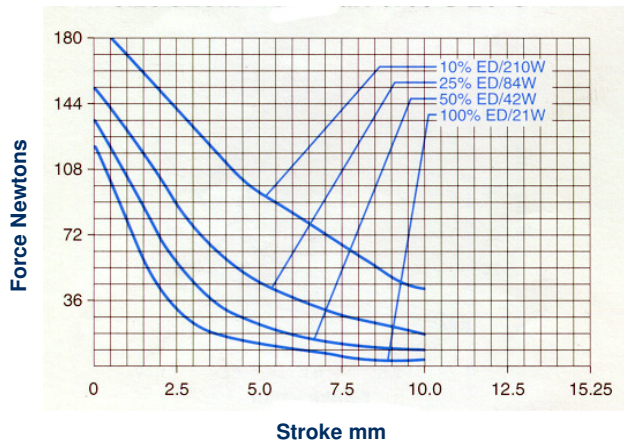
- **Coil Resistance:** 23-33 awg. +/- 5% tolerance
- **Holding Force:** 120.1 N @ 105°C
- **Weight:** 326 g
- **Typical Performance Details for 5E Series:**
 - Up to 180 N force at 0.5 mm stroke
 - Under 6 milliseconds response time for 1 mm stroke under no load conditions
 - Conical pole face allows 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)	∞	100	36	10
Maximum ON Time (seconds) for single pulse (2)	∞	160	44	13
Watts (@20°C)	21	42	84	210
Ampere Turns (@ 20°C)	1015	1440	2030	3210

Coil Data

avg. (0XX) (3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage			
23	2.70	384	7.2	10.1	14.3	23.0
24	4.30	486	9.0	12.7	18.0	28.0
25	6.66	590	11.5	16.2	23.0	36.0
26	10.30	737	14.0	20.0	28.0	44.0
27	15.70	900	17.7	25.0	35.0	56.0
28	26.60	1190	23.0	32.0	45.0	72.0
29	38.00	1380	28.0	40.0	56.0	89.0
30	62.10	1768	36.0	51.0	71.0	113.0
31	96.10	2166	45.0	64.0	90.0	143.0
32	157.00	2816	57.0	80.0	113.0	179.0
33	241.00	3432	71.0	101.0	143.0	226.0

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

NSF Controls Ltd | Ingrow Bridge Works | Keighley | West Yorkshire | BD21 5EF | UK | Registered in England No. 3378269

T: +44 (0) 1535 661 144 | F: +44 (0) 1535 661 474 | E: info@nsfcontrols.co.uk | www.nsfcontrols.co.uk