

# Push - Pull Solenoid

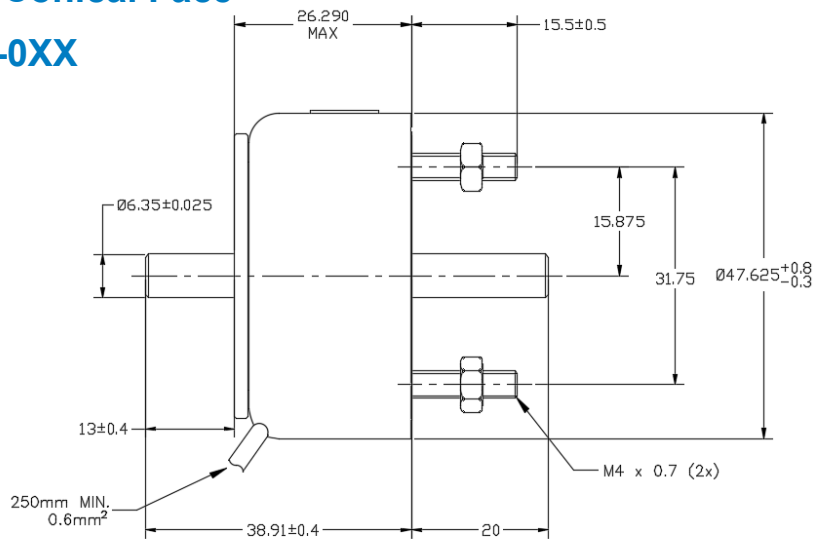
## Linear - Size 5ECM



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### Medium Stroke, Conical Face

Part No: 282350-0XX



Solenoid shown in energised position

### General Specifications

**Dielectric Strength:**

23 awg. 1000 VRMS  
24-33 awg. 1200 VRMS

**Coil Resistance:**

+/- 5% tolerance

**Holding Force:**

120.1 N @ 105° C

**Weight:** 326 g

**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

**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

### Coil Specifications

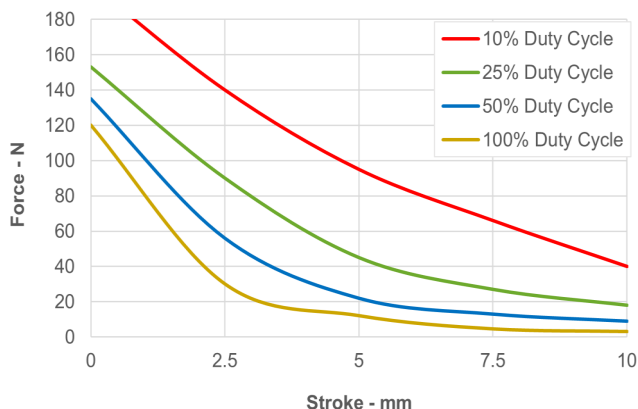
Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (seconds) when pulsed continuously	∞	100	36	10
Maximum ON Time (seconds) for single pulse	∞	160	44	13
Watts (@ 20° C)	21	42	84	210
Ampere Turns (@ 20° C)	1015	1440	2030	3210

**Coil Data**

awg. (0XX)	Resistance (@ 20° C)	# Turns	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

### Performance Specifications

**Typical Starting Force @ 20° C**



NSF Controls reserves the right to amend specification without prior notice. (Rev 07/23) [www.nsfcontrols.co.uk](http://www.nsfcontrols.co.uk)

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