

# Size 7SFM Low Profile Solenoid



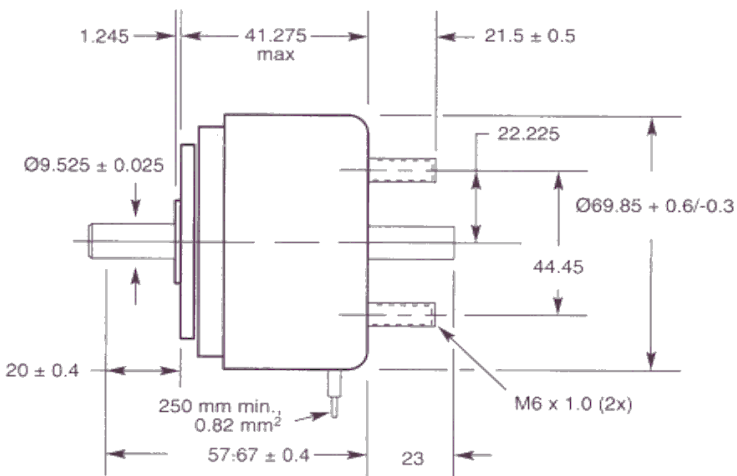
## Push and Pull Linear

### Short Stroke, Flat Face

#### Part No: 282353-0XX

- **Dielectric Strength:** 23-29 awg. 1200 VRMS / 30-33 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 384x384x3.2mm min

Solenoid shown in energised position



### General Specifications:

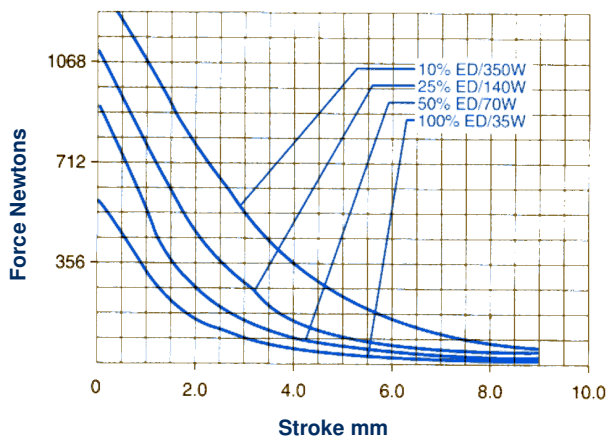
- **Coil Resistance:** 23-30 awg. +/- 5% tolerance / 31-33 awg. +/- 10% tolerance
- **Holding Force:** 845.1 N @ 105°C
- **Weight:** 1020 Kg
- **Typical Performance Details for 7S Series:**
  - Up to 1250 N force at 0.5 mm stroke
  - Under 6 milliseconds response time for 1mm stroke under no load conditions
  - 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)	∞	80	38	16
Maximum ON Time (seconds) for single pulse (2)	∞	138	50	18
Watts (@20°C)	35	70	140	350
Ampere Turns (@ 20°C)	1570	2230	3150	5000

### Coil Data

awg. (0XX) (3)	Resistance (@ 20°C)	# Turns (4)	Nominal DC Voltage			
23	8.09	780	16.3	23.0	33.0	52.0
24	12.34	949	21.0	29.0	41.0	65.0
25	18.62	1148	26.0	37.0	52.0	83.0
26	30.84	1472	33.0	47.0	66.0	105.0
27	48.77	1854	41.0	59.0	83.0	132.0
28	81.14	2436	52.0	74.0	105.0	167.0
29	121.00	2944	65.0	92.0	130.0	206.0
30	190.00	3650	82.0	116.0	164.0	261.0
31	275.00	4175	103.0	147.0	208.0	329.0
32	440.00	5292	130.0	169.0	239.0	380.0
33	735.00	7000	165.0	234.0	331.0	525.0

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