

Push and Pull Linear

General:

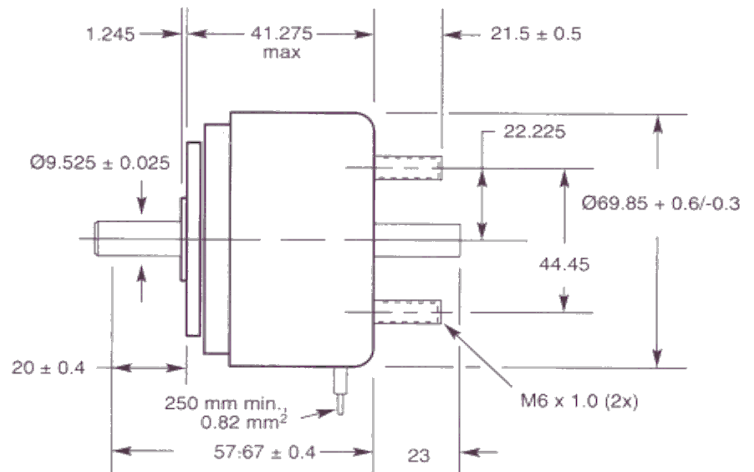
Short Stroke, Flat Face

Part number: 282353-0XX

Low profile Linear solenoids offer a compact and efficient package for short stroke, high force applications.

Typical performance details for the 7S series are:

- Up to 1250 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.



Solenoid shown in energised position.

Specifications:

- **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.
- **Coil Resistance:** 23-30awg. +/- 5% tolerance / 31-31-33 awg. +/- 10% tolerance
- **Weight:** 1020 Kg
- **Holding Force:** 845.1 N @ 105° C

Coil Specifications

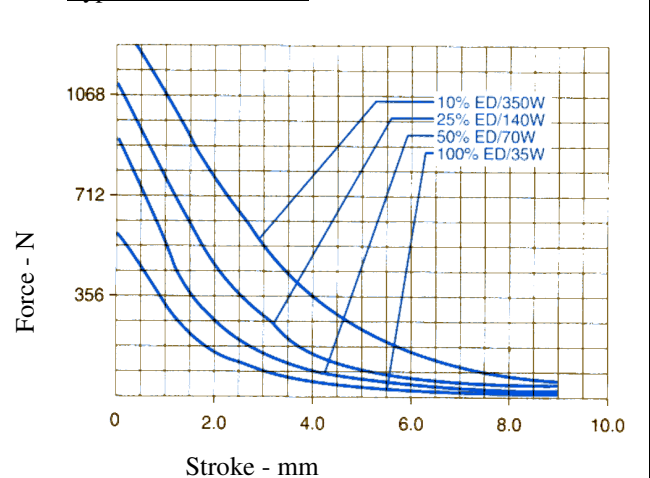
Maximum Duty Cycle	100%	50%	25%	10%
Maximum ON Time (seconds) When pulsed continuously ¹	∞	80	38	16
Maximum ON Time (seconds) for single pulse ²	∞	138	50	18
Watts (@20° C)	35	70	140	350
Ampere Turns (@ 20° C)	1570	2230	3150	5000

Coil Data

awg. (0xx) ³	Resistance (@ 20° C)	# Turns ⁴	Nominal DC Voltage			
			16.3	23.0	33.0	52.0
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

Performance:

Typical Force @ 20° C



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.

How to Order:

Add the coil awg number to the part number alternatively please specify; the Voltage, Duty cycle, Starting Force, Stroke required and any special requirements.