D30-ML



Deltrol CONTROLS MAGNETIC LATCHING SOLENOID

D-frame, pull type solenoid with an internal permanent magnet for keeping the plunger in the retracted position without power.

Features

- Innovative design provides more pull and hold force than other solenoids of similar size.
- Low power consumption

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Electrical Specifications						
Coil Voltages	6, 12, 24 VDC Standard - Other voltages available on request					
Coil Power	21 Watts Intermittent and 85 Watts Pulse- Other options available on request					
Coil Termination	Wire leads 18 AWG (standard)					
Duty Cycle	Intermittent and pulse duty available (see standard part numbers on page 3)					
Coil Treatment	Encapsulated					
Insulation Class	Class F Rating - (155° C)					
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute					
Mechanical Specificications						
Size	2.011" [51.1] (L) x 1.000" x [25.4] (W) x 1.218 " [30.9] (H) See page 2 for dimensional drawing					
Forces	See force curves on page 2					
Plunger Diameter	Ø 0.4375″[11.1]					
Plunger Guide Material	Plastic					
Mounting	2X #8-32 UNC-2B Mounting Holes					
Weight	Plunger - 1.2 oz [34 gms], Total - 6.3 oz [178.6 gms]					
Life Expectancy	250,000 Cycles (Dependent on load conditions)					
Agency Approvals	UL File No. E74443 For Insulation Systems S105, S130, S130D, S130D1, S155D					

Dimensions: inches [mm]

1 of 3

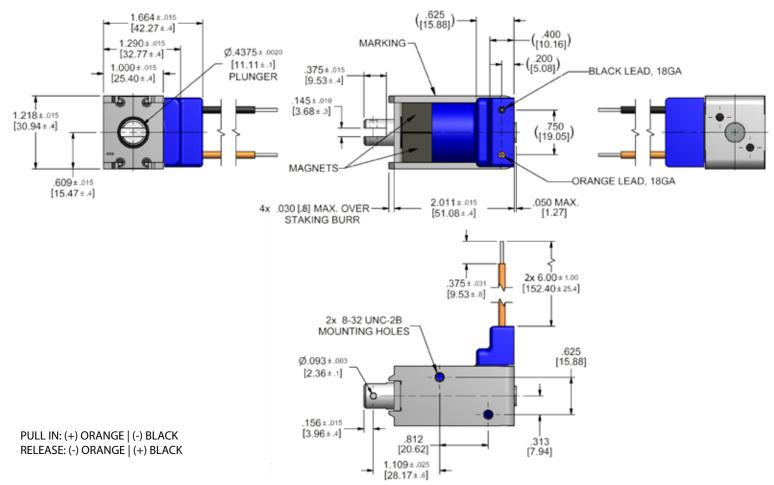
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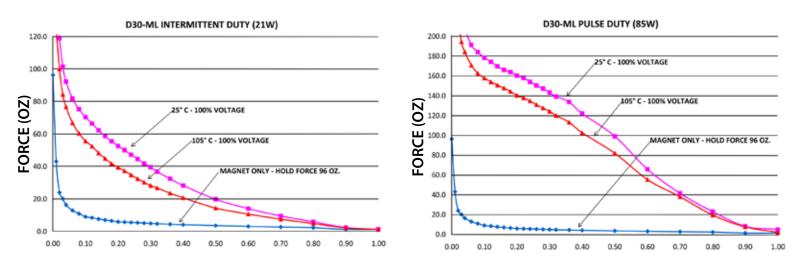


Dimensional View

Units: Inches [mm]



Force Curves



Standard intermittent duty cycle at nominal voltage is 25%, with three (3) minutes maximum "ON" and nine "9" minutes minimum "OFF" in a repetitive cycle. Standard Pulse duty cycle is 10% with 100 milliseconds "ON" and 900 milliseconds "OFF". NOTE: Approx. 36 sq. in Heat Sink Required.

Specifications subject to change without notice

2 of 3

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Standard Part Numbers

Parts No.	Voltage	Duty Cycle	Power	Resistance (Ohms)	Operation -	Typical Force oz [N] 100% Voltage, 77°F [25°C], Stroke @				
						0.000″	0.125″	0.250″	0.500″	0.750″
53803-86*	6 VDC	Intermittent	21 Watts	1.7	Pull -					
53803-87*	12 VDC			6.8		96 [26.7]	65 [18.1]	46 [12.8]	19.7 [5.5]	7.7 [2.1]
53803-88*	24 VDC			27.2		[20.7]	[10.1]	[12.0]	[3.3]	[2,1]
53803-92	6 VDC	Pulse	85 Watts	0.42		96 [26.7]	172 [47.8]	152 [42.3]	99 [27.5]	31 [8.6]
53803-93	12 VDC			1.7						
53803-94	24 VDC			6.8						

(*) Normally Stocked

Non stocked items require a minimum order