

C-FRAME SOLENOID

Two position linear solenoid with C-frame construction.

Features

- Economical construction
- AC solenoids and DC solenoids available
- Encapsulated coils on most models
- UL approval on many models

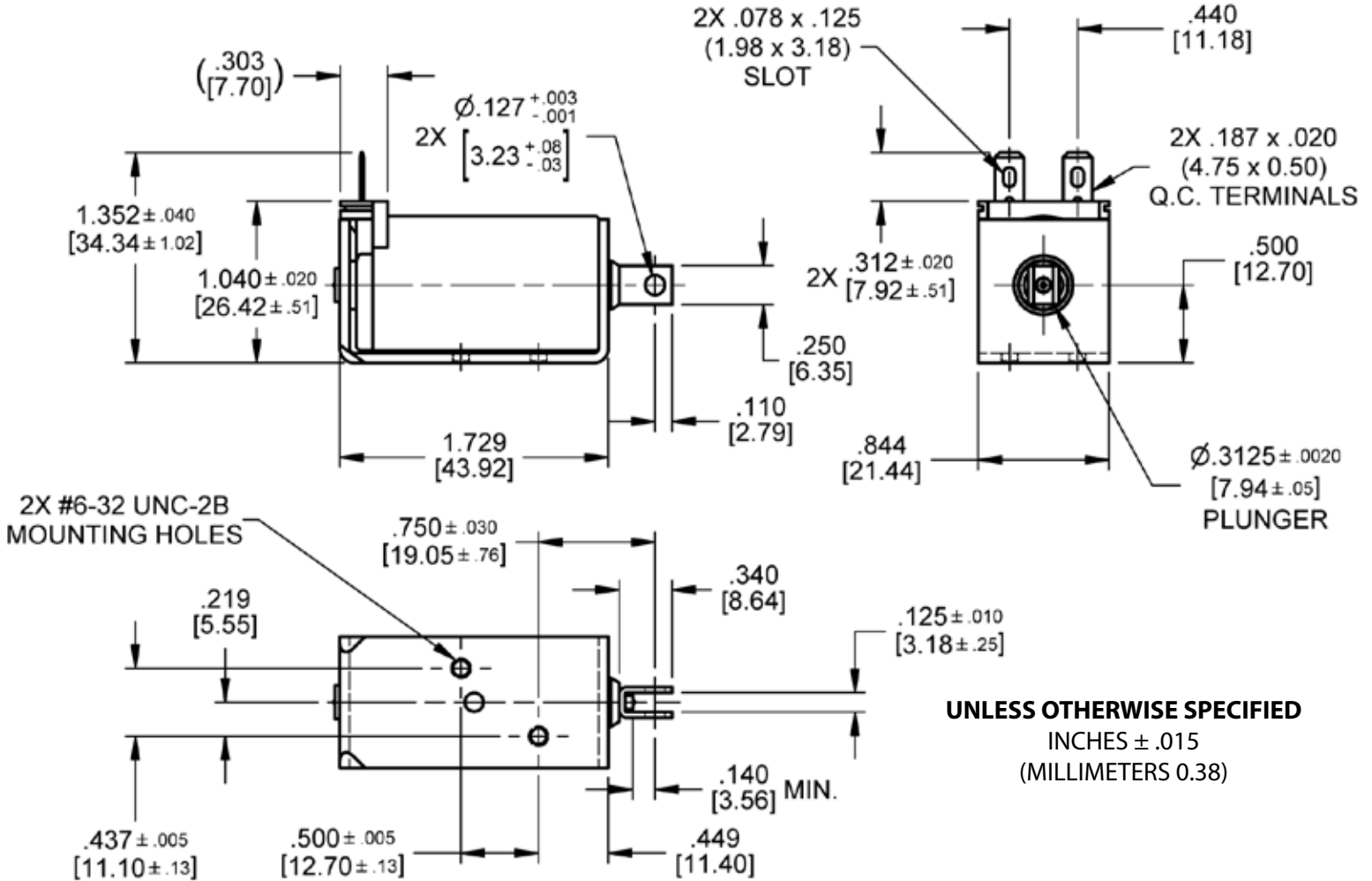


Electrical Specifications	
Coil Voltages	6, 12, 24, 120, 240 VAC 6, 12, 24, 110 VDC
Coil Power	12 VA Continuous, 26 VA Intermittent, 120 VA Pulse 7.4 Watts Continuous, 19 Watts Intermittent, 74 Watts Pulse
Coil Termination	0.187" [4.7] quick connect terminals (standard) Wire leads optional with tape wrapped coil
Duty Cycle	Continuous, intermittent and pulse (see standard part numbers on page 4)
Coil Treatment	Encapsulated (tape wrapped optional)
Insulation Class	Class A Rating - 105°C (221°F) Max. (standard) Class F Rating - 155°C (311°F) Max. (optional)
Dielectric Strength	30 Volts and Under: 500 VRMS Over 30 Volts: 1000 VRMS plus 2X rated voltage for 1 minute
Mechanical Specifications	
Size	1.729" [43.9] (L) x 0.844" [21.4] (W) x 0.942" [23.9] (H)
Forces	See force curves on page 3
Plunger Diameter	Ø 0.313" [8.0]
Plunger Guide Material	Plastic
Mounting	2X #6-32 UNC-2B Mounting Holes
Weight	Plunger - 0.5 oz [14.2 gms], Total - 3.3 oz [93.6 gms]
Life Expectancy	250,000 Cycles (Dependent on load conditions)
Agency Approval	
UL File No. E57982 For Continuous Duty UL File No. E74443 For Insulation Systems S105, S130, S130D, S130D1, S155D	

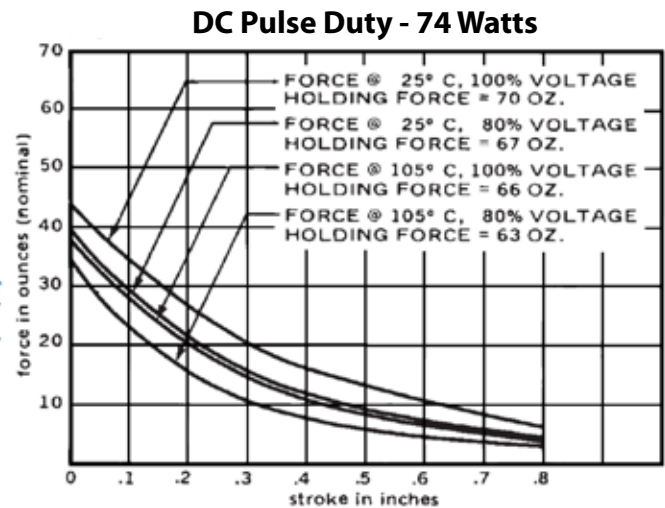
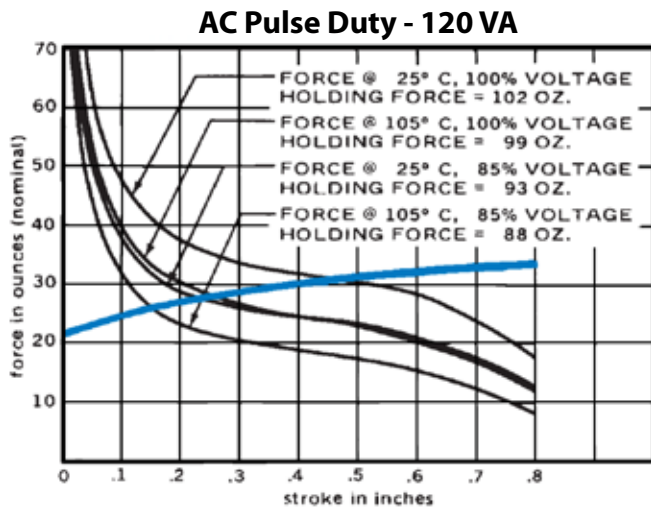
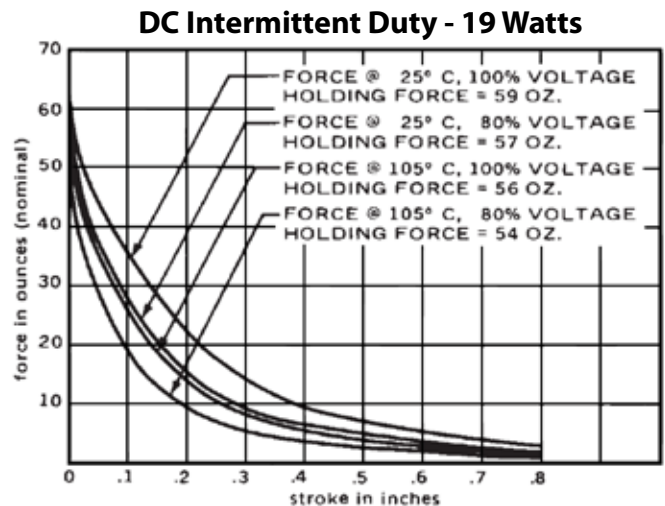
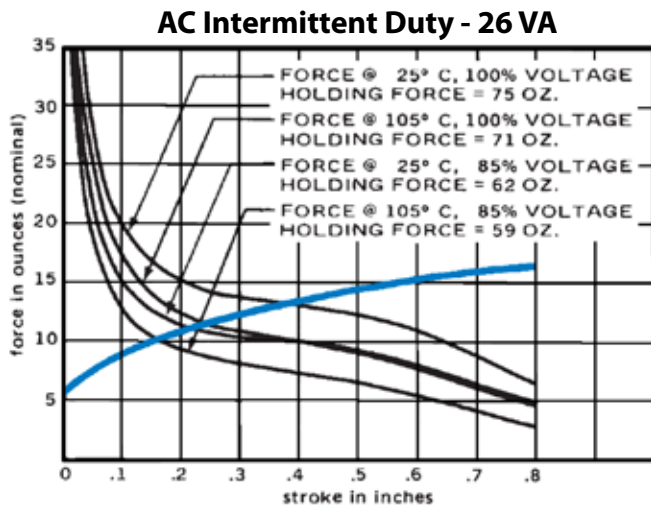
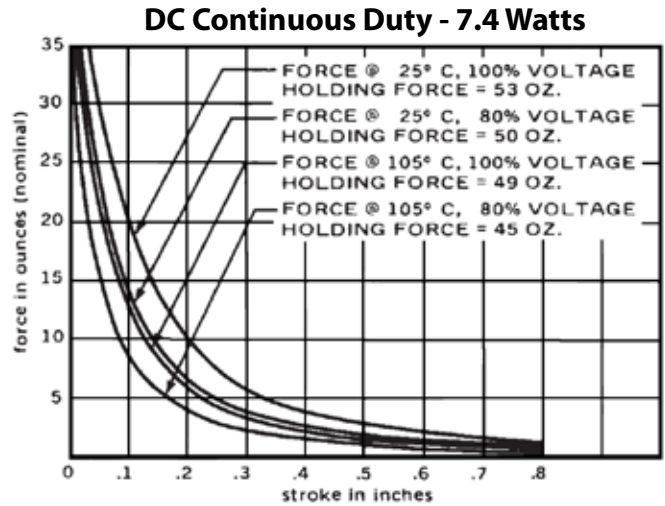
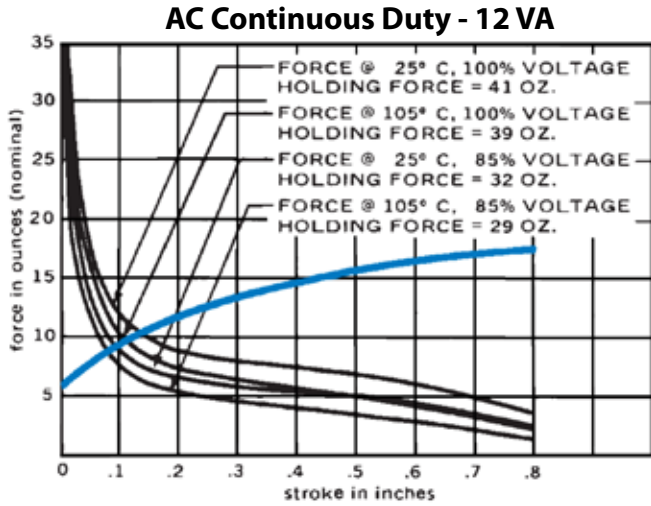
Dimensions: inches [mm]

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

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"
53679-80	6 VAC	Continuous	12 VA	0.71	Pull	41 [11.4]	11 [3.1]	8 [2.2]	7 [1.9]	4 [1.1]
53679-81	12 VAC			2.9						
53679-83	24 VAC			12						
53679-94*	120 VAC			302						
53679-97	240 VAC			1210						
53680-80	6 VAC	Intermittent	26 VA	0.4	Pull	75 [20.9]	17 [4.7]	14 [3.9]	12.5 [3.5]	7.5 [2.1]
53680-81	12 VAC			1.6						
53680-83	24 VAC			6.5						
53680-94	120 VAC			166						
53680-97	240 VAC			670						
53681-80	6 VAC	Pulse	120 VA	0.16	Pull	102 [28.4]	44 [12.2]	35 [9.7]	30 [8.3]	21 [5.8]
53681-81	12 VAC			0.64						
53681-83	24 VAC			2.54						
53681-94	120 VAC			65						
53681-97	240 VAC			264						
53682-80	6 VDC	Continuous	7.4 Watts	4.75	Pull	53 [14.7]	16 [4.4]	7.5 [2.1]	3 [0.8]	1.5 [0.4]
53682-81	12 VDC			19.2						
53682-83*	24 VDC			77.3						
53682-93	110 VDC			1690						
53683-80	6 VDC	Intermittent	19 Watts	1.83	Pull	59 [16.4]	32 [8.9]	17 [4.7]	7 [1.9]	3 [0.8]
53683-81	12 VDC			7.5						
53683-83*	24 VDC			30.6						
53683-93	110 VDC			638						
53684-80	6 VDC	Pulse	74 Watts	0.47	Pull	70 [19.5]	33 [9.2]	23 [6.4]	13 [3.6]	7 [1.9]
53684-81	12 VDC			1.83						
53684-83	24 VDC			7.5						
53684-93	110 VDC			161						

(*) Normally Stocked
Non stocked items require a minimum order