Size 50–STA°-Mini Pull Magnetic Latching Solenoid — 1/2" Dia. x 1/2"

Part Number: 151082 - X XX Coil AWG Number (from performance chart below)

All products are RoHS Compliant

Plunger Configurations and anti-rotation flat on mounting

- 1 Flat Face plunger without anti-rotation flat on mounting
- 2 60° plunger without anti-rotation flat on mounting
- 5 Flat Face plunger with anti-rotation flat on mounting
- 6 60° plunger with anti-rotation flat on mounting

Specifications













Performance

Maximum Duty Cycle	Unlatched Voltage	•	25%	10%
Maximum ON Time (sec) when pulsed continuously ¹	n/a	50	5	2
Watts (@ 20°C)	3	6	12	30
Ampere Turns (@ 20°C)	268	379	536	847

ata

awg (0XX) ²	Resistance (@20°C)	# Turns³	Unlatche VDC	ed VDC (Nom)	VDC (Nom)	VDC (Nom)
27	0.48	108	1.2	1.7	2.4	3.8
28	0.67	123	1.5	2.1	2.9	4.6
29	1.33	184	1.9	2.7	4.0	6.1
30	1.80	204	2.4	3.3	4.7	7.5
31	3.33	290	3.1	4.4	6.2	9.7
32	4.57	325	3.8	5.3	7.5	11.9
33	7.80	432	4.8	6.8	9.7	15.3
34	13.10	567	6.2	8.8	12.4	20.0
35	17.80	630	7.6	11.0	15.0	24.0
36	29.05	808	9.6	14.0	19.0	30.0
37	45.70	1008	12.2	17.0	24.0	38.0

- Continuously pulsed at stated watts and duty cycle
- ² Other coil awg sizes available please consult factory
- ³ Reference number of turns

Operation	Pull
Dielectric Strength	500 VRMS
Recommended	Maximum watts dissipated by solenoid
Minimum Heat Sink	are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminum plate measuring 2" square by 1/8" thick
Unlatch Voltage	See schematic and coil data
Magnet Hold Force	7.5 oz (with return spring)
Spring Force	35.2 oz/in; 4.47 oz latched position
Weight	0.52 oz (14.7 g)
Plunger Weight	0.093 oz (2.6 g)

How to Order

Add the plunger configuration, anti-rotation flat number, and the coil awg number to the part number (for example: to order a 60° plunger unit without an antirotation flat, rated for 4.7 VDC at 25% duty cycle, specify 151082-230.

Please see www.johnsonelectric.com for our list of stock products available through distribution.

Coil Polarity

Latch:

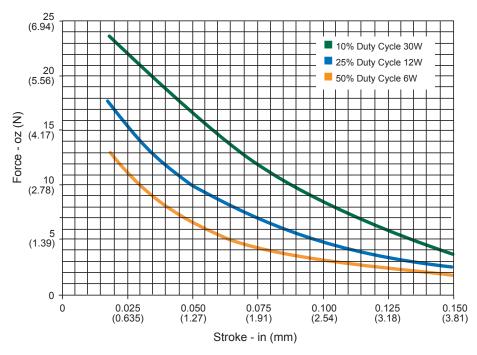
Unlatch: A- B+



All specifications subject to change without notice.

Size 50–STA®-Mini Pull Magnetic Latching Solenoid — 1/2" Dia. x 1/2"

Typical Force @ 20°C (Net, with Spring)

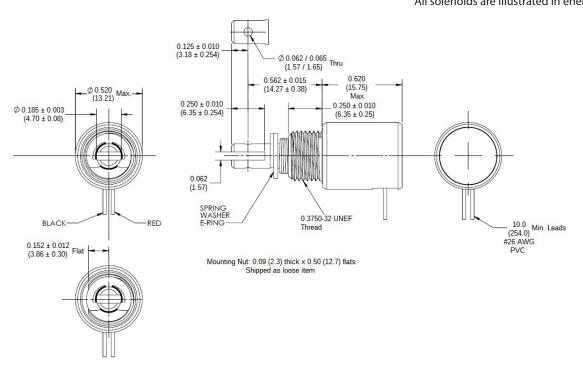


Force values for reference only.

Dimensions

Inches (mm)

All solenoids are illustrated in energized state



Ledex Solenoids www.johnsonelectric.com 1.937.454.2345 Fax: 1.937.898.8624