

Miniature 25 Amps • 1PDT Magnetic Latching To MIL-PRF-6106

SPECIFICATIONS

GENERAL

Contact Arrangement 1PDT (1 Form C)
Magnetic Latching

Weight.....1.6 oz approx.
Designed to meet the requirements of MIL-PRF-6106

PERFORMANCE

Contact Rating (Note 1):

Resistive 25 Amps @ 28 VDC or
115/208V 400 Hz
(Case Grounded)

Inductive 15 Amps @ 28 VDC or
(Case Grounded)
115/208V 400 Hz
12 Amps @ 28 VDC
(Case Grounded)

Motor..... 10 Amps @ 28 VDC or
115/208V 400 Hz
(Case Grounded)

Lamp 5 Amps @ 28 VDC or
115/208V 400 Hz
(Case Grounded)

Life50,000 operations minimum @ rated
resistive load, 125°C

Latch/Reset Power 500 mw approx.

Latch/Reset Time:

DC Coil	AC Coil
15 ms max	50 ms max

Excluding bounce time at nominal coil voltage

Contact Bounce Time..... 1 ms max
@ rated contact load, 28 VDC

Contact Voltage Drop:

Before Life.....	150 mv max @ 25 Amps and 6 VDC
After Life	175 mv max @ 25 Amps and 6 VDC

ENVIRONMENTAL

Temperature Range.....-70°C to +125°C

Vibration (Note 2)..... 0.12" DA 10 - 70 Hz
30 G's 70 - 3,000 Hz

Shock (Operating)(Note 2) 200 G's 6 ms

ELECTRICAL CHARACTERISTICS

Duty Cycle.....Continuous

Insulation Resistance 100 megohms
@ 500V 25°C

Dielectric Strength:

Sea Level:

Contact to Case	1,250 VRMS
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Contact to Coil 1,250 VRMS

Coil to Case 1,000 VRMS

Across Open Contacts 1,250 VRMS

80,000 Feet:

All Points 350 VRMS

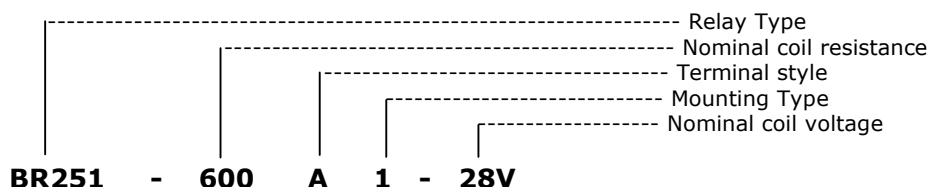
MIL-PRF-6106/20 QUALIFIED

Notes:

1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

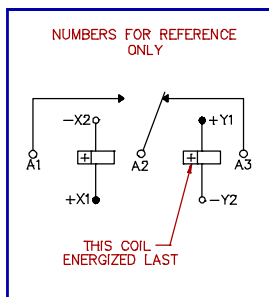
COIL DATA:

MODEL BR251 PART NUMBER	BR251-38()-6V	BR251-150()-12V	BR251-600()-28V	BR251-1550()-48V	BR251AC-()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC	72 VAC
COIL RESISTANCE $\pm 10\%$ @ 25°C	38 OHMS	150 OHMS	600 OHMS	1550 OHMS	I = 0.04 AMPS

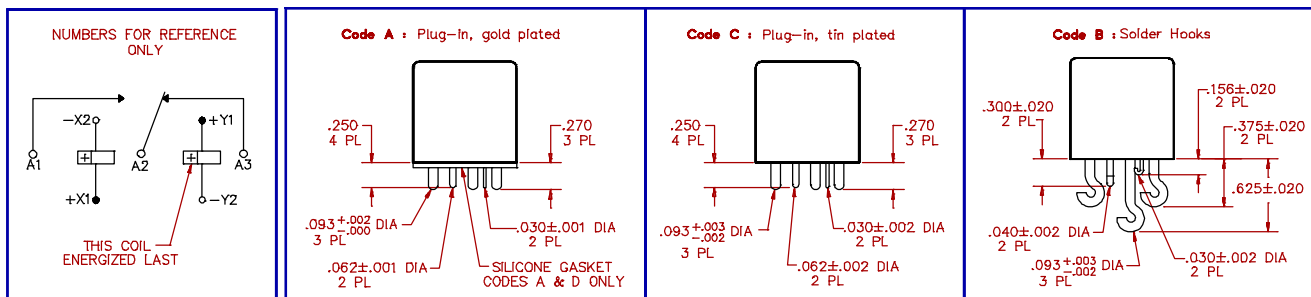


SCHEMATIC

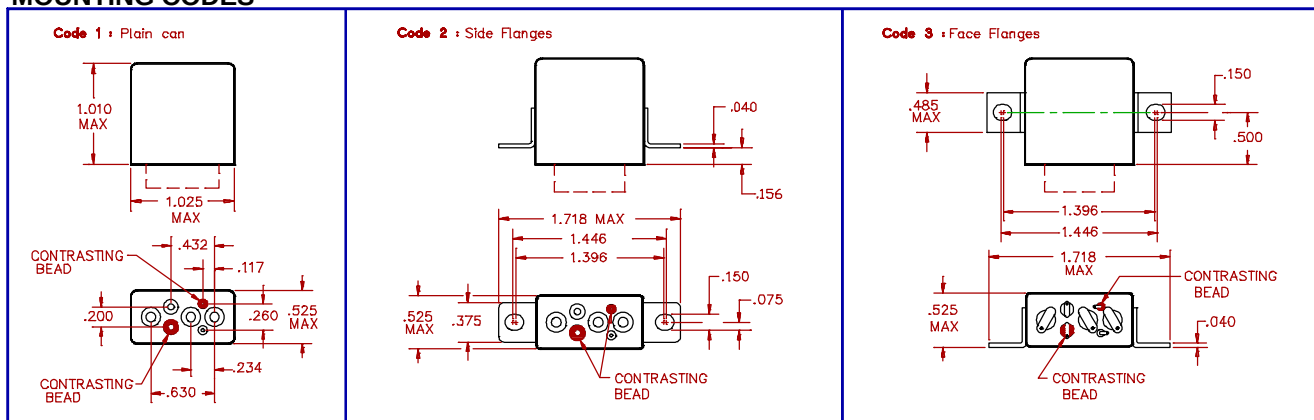
TERMINAL VIEW



TERMINAL STYLES



MOUNTING CODES



GENERAL NOTES

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- For special coil variations, switching configurations, terminals styles and mounting types, consult the factory.
- Unless otherwise specified, tolerances on decimal dimensions are $\pm .010$ ".
- Specifications contained herein are subject to change without notice.