

Miniature 10 Amps • 4PDT Magnetic Latching To MIL-PRF-83536

SPECIFICATIONS

GENERAL

Contact Arrangement4PDT (4 Form C)
Magnetic Latching
Weight.....2.2 oz approx.
Designed to meet the requirements of MIL-PRF-83536

PERFORMANCE

Contact Rating (Note 1)

Resistive	10 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
Inductive	8 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
	2.5 Amps @ 115/208V 60 Hz (Case Grounded)
Motor.....	4 Amps 28 VDC or 115/208V 400 Hz (Case Grounded)
	2 Amps @ 115/208V 60 Hz (Case Grounded)
Lamp	2 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
	1.5 Amps @ 115/208V 60 Hz (Case Grounded)

Life100,000 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 @ 10 Amps
	and 6 VDC
After Life	175 mv max @ 10 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 Case1,250 VRMS

Contact to Coil1,250 VRMS

Coil to Case1,000 VRMS

Across Open Contacts1,250 VRMS

80,000 Feet:

All Points350 VRMS

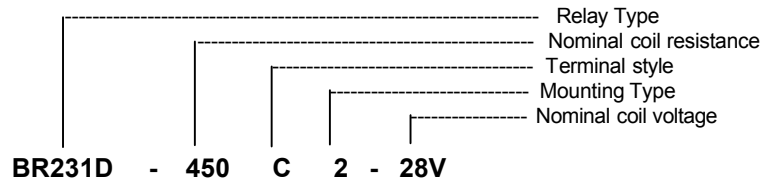
MIL-PRF-83536/18 QUALIFIED to ER level L

Notes

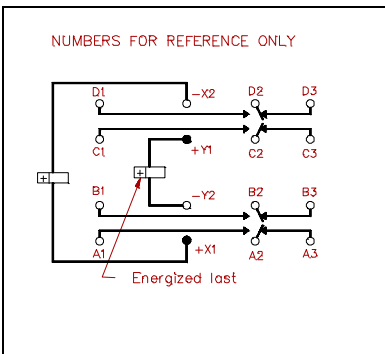
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

COIL DATA

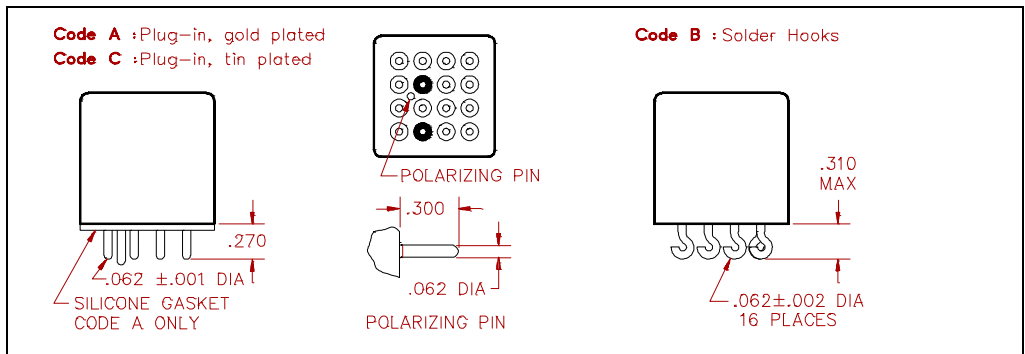
MODEL BR231 PART NUMBER	BR231-28()-6V	BR231-112()-12V	BR231-450()-28V	BR231-1500()-48V	BR231AC-()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC	72 VAC
COIL RESISTANCE $\pm 10\%$ @ 25°C	28 OHMS	112 OHMS	450 OHMS	1500 OHMS	I = 0.04 AMPS



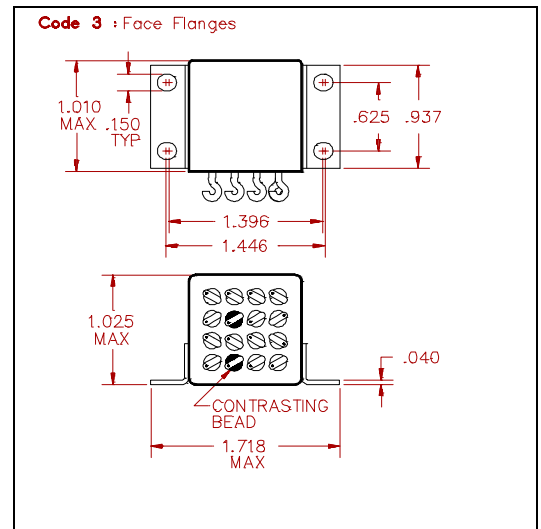
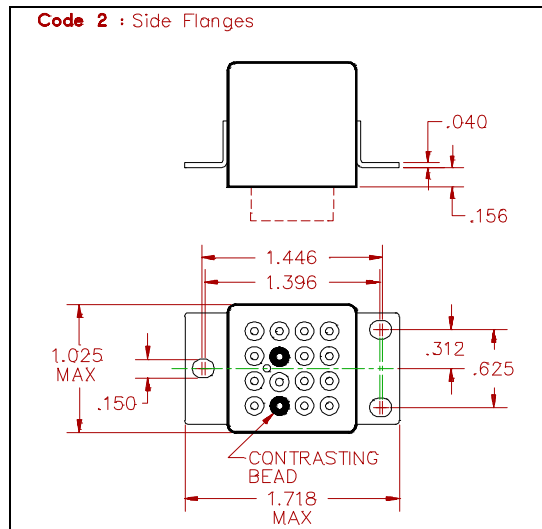
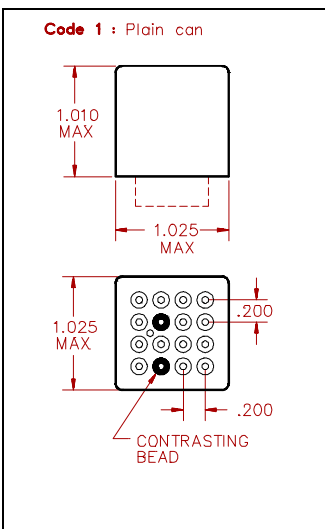
SCHEMATIC TERMINAL VIEWS



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.



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