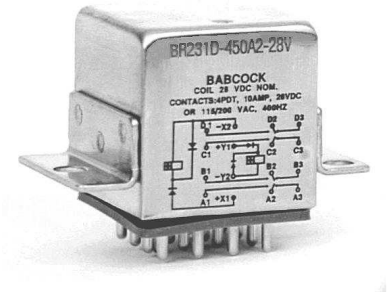


Miniature
10 Amps • 4PDT
Magnetic Latching
To MIL-PRF-83536

SPECIFICATIONS

GENERAL

Contact Arrangement .....4PDT (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)

Life .....100,000 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 Case .....1,250 VRMS

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

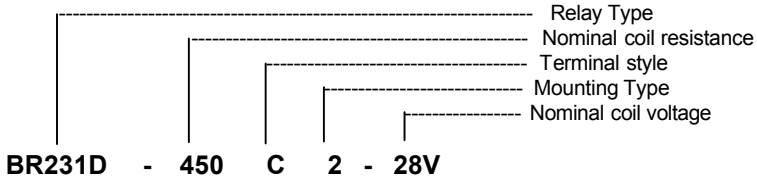
MIL-PRF-83536/18 QUALIFIED to ER level L

Notes

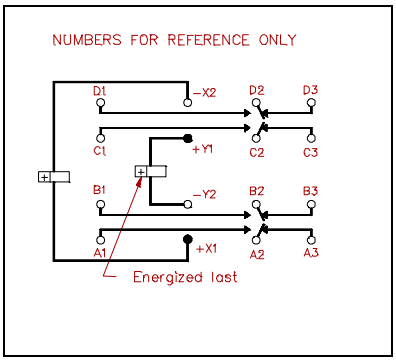
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

COIL DATA

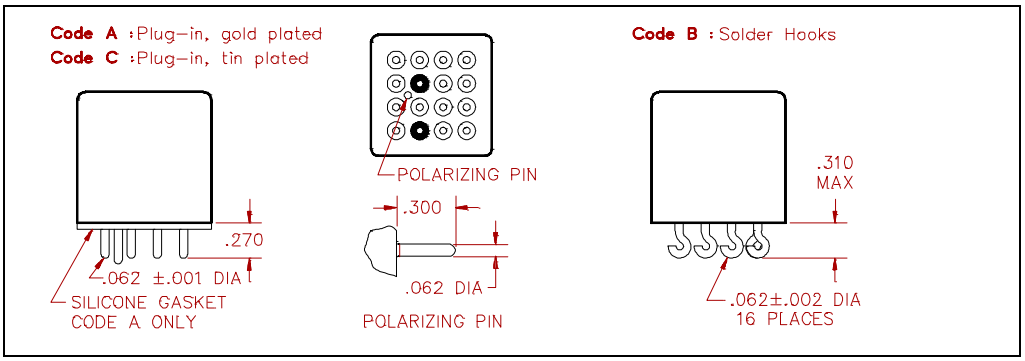
MODEL BR231 PART NUMBER	BR231-28()()-6V	BR231-112()()-12V	BR231-450()()-28V	BR231-1500()()-48V	BR231AC-()()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC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



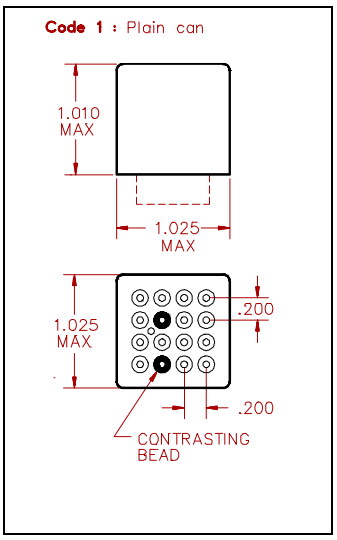
SCHEMATIC TERMINAL VIEWS

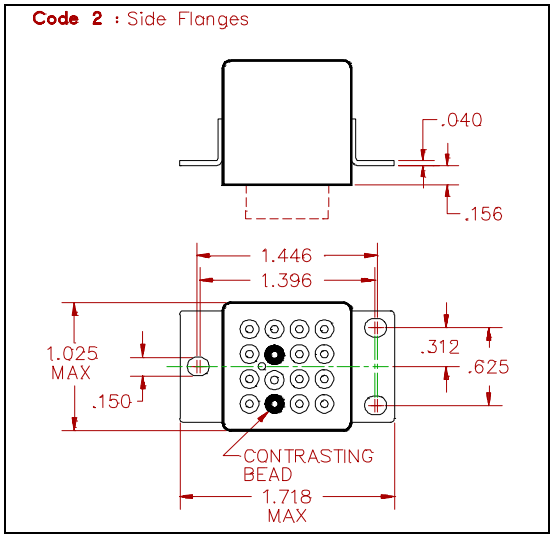


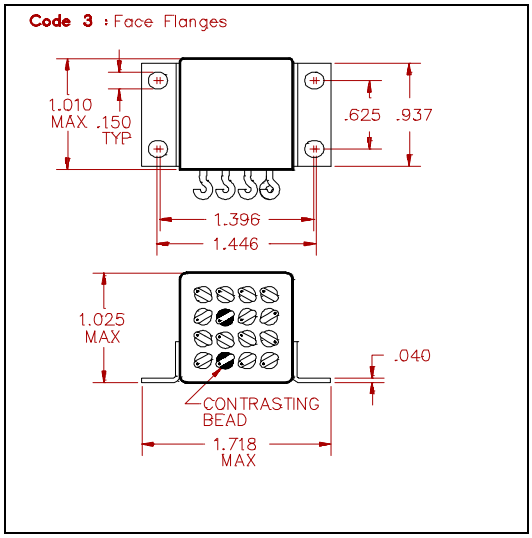
TERMINAL STYLES



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 ± .010".
- Specifications contained herein are subject to change without notice.

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BR231-08/04.15