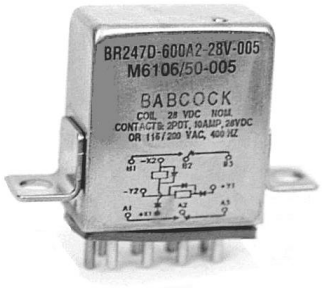

Miniature
10 Amps • 2PDT
Magnetic Latching
To MIL-PRF-83536
DC Suppressed Coils

SPECIFICATIONS

GENERAL

Contact Arrangement..... 2PDT (2 Form C) Magnetic Latching

Weight..... 1.4 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
4 Amps @ 115/208V 60 Hz

Motor..... 4 Amps @ 28 VDC or (Case Grounded)
115/208V 400 Hz
3 Amps @ 115/208V 60 Hz (Case Grounded)

Lamp..... 2 Amps @ 28 VDC or (Case Grounded)
115/208V 400 Hz
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**
10 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 ..... 100 mv max @ 10 Amps and 6 VDC

After Life ..... 125 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-83536/13 QUALIFIED to ER level L

Notes

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

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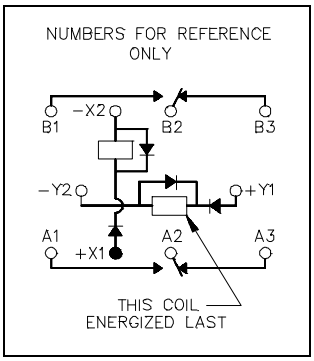
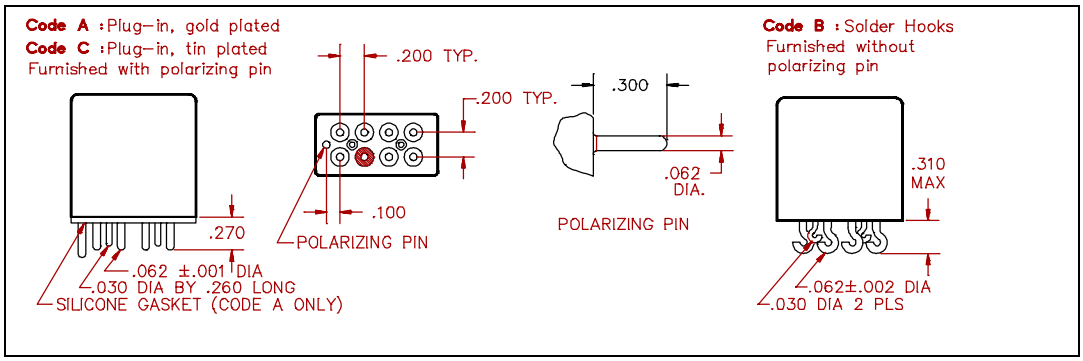
COIL DATA

MODEL BR247D PART NUMBER	BR247D-38()()-6V	BR247D-150()()-12V	BR247D-600()()-28V	BR247D-1550()()-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC
MAXIMUM BACK EMF	3 VDC	3 VDC	3 VDC	3 VDC
COIL RESISTANCE Ñ 10% @ 25°C	38 OHMS	150 OHMS	600 OHMS	1550 OHMS

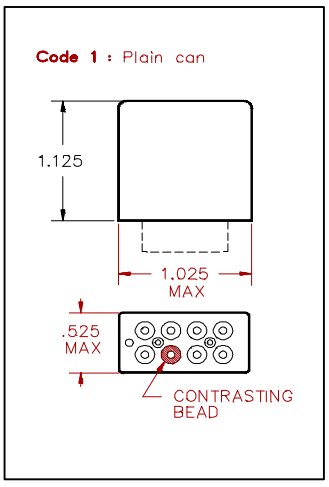
SCHEMATIC
TERMINAL VIEW

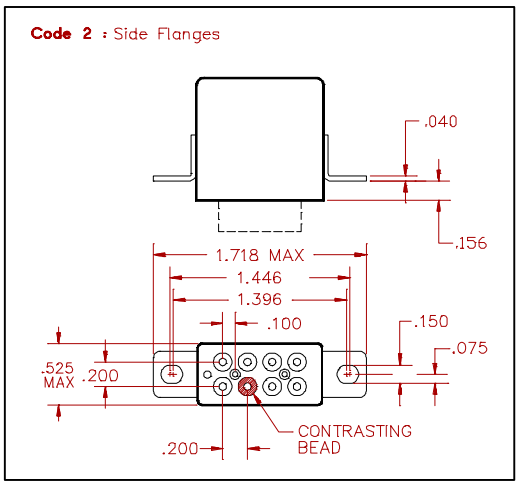


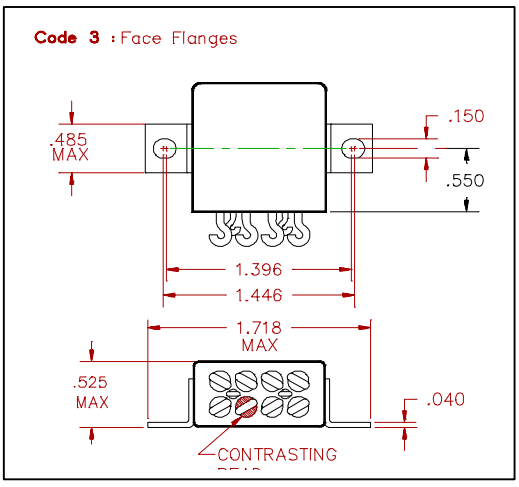
TERMINAL STYLES



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