

**Miniature
10 Amps • 2PDT
Magnetic Latching
To MIL-PRF-83536**

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
Inductive.....8 Amps @ 28 VDC or
115/208V 400 Hz
2.5 Amps @ 115/208V 60 Hz
Motor.....4 Amps @ 28 VDC or
115/208V 400 Hz
2 Amps @ 115/208V 60 Hz
Lamp.....2 Amps @ 28 VDC or
115/208V 400 Hz
1.5 Amps @ 115/208V 60 Hz

Life100,000 operations minimum @ rated
resistive load, 125°C

Latch/Reset Power500 mw approx.

Latch/Reset Time: **DC Coil** **AC Coil**
10 ms max 20 ms max
Excluding bounce time at nominal coil voltage

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

Contact Voltage Drop:
Before Life100 mv max @ 10 Amps
and 6 VDC
After Life125 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 Resistance100 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 Points.....350 VRMS

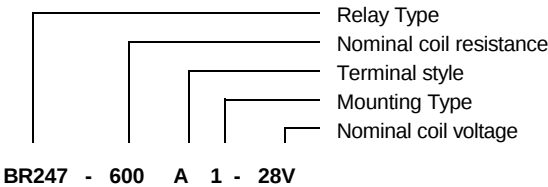
MIL-PRF-83536/12 QUALIFIED to ER level L

Notes:

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

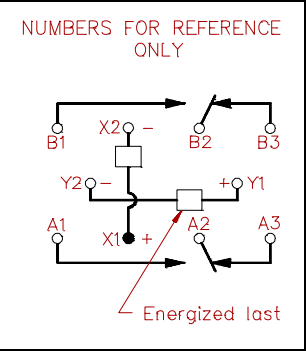
COIL DATA:

MODEL BR247 PART NUMBER	BR247-380()0-6V	BR247-150()0-12V	BR247-600()0-28V	BR247-1550()0-48V	BR247AC-()0-115V (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	38 OHMS	150 OHMS	600 OHMS	1550 OHMS	I = 0.04 AMPS

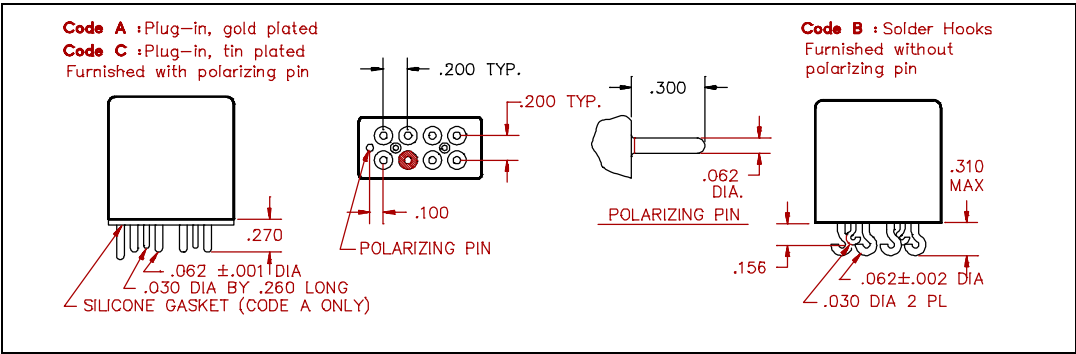


SCHEMATIC

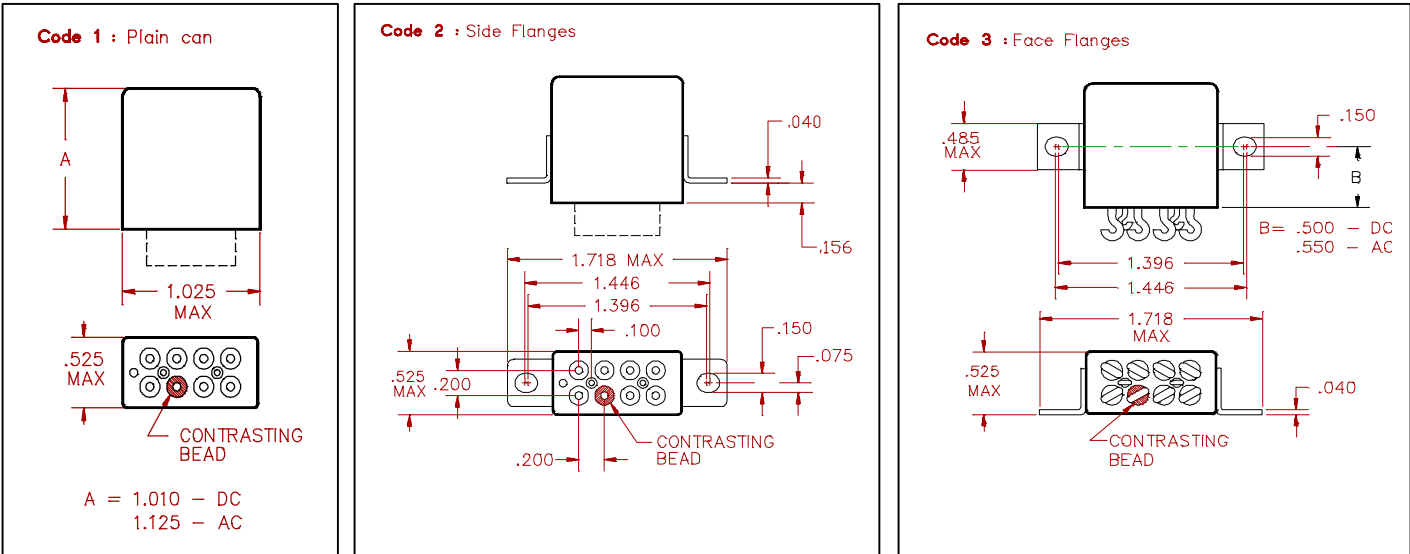
TERMINAL VIEW



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