

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

SPECIFICATIONS

GENERAL

Contact Arrangement..... 2PDT (2 Form C)
Weight..... 1.6 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 2.5 Amps @ 115/208V 60 Hz (Case Grounded)
Motor.....	4 Amps @ 28 VDC or 115/208V 400 Hz 2 Amps @ 115/208V 60 Hz (Case Grounded)
Lamp.....	2 Amps @ 28 VDC or 115/208V 400 Hz 1.5 Amps @ 115/208V 60 Hz (Case Grounded)

Life 100,000 operations minimum @ rated
resistive load, 125°C

Pull In Power.....500 mw approx.

Operate/Release 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	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 Resistance100 megohms
@ 500V 25°C

Dielectric Strength:

Sea Level:

Contact to Case 1,250 VRMS

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

Contact to Coil	2,100 VRMS
Coil to Case	1,000 VRMS

Across Open Contacts 1,250 VRMS

80,000 Feet:

All Points..... 350 VRMS

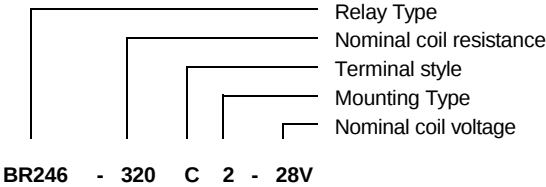
MIL-PRF-83536/9 QUALIFIED to ER level M

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.

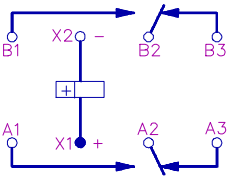
COIL DATA:

MODEL BR246 PART NUMBER	BR246-20(0)-6V	BR246-80(0)-12V	BR246-320(0)-28V	BR246-1000(0)-48V	BR246AC-(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
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC	5 - 30 VAC
COIL RESISTANCE ± 10% @ 25°C	20 OHMS	80 OHMS	320 OHMS	1000 OHMS	I = 0.04 AMPS



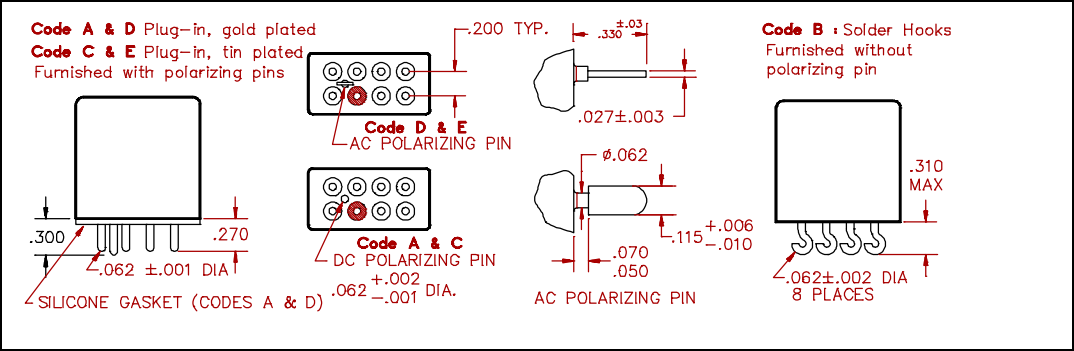
SCHEMATIC
TERMINAL VIEW

NUMBERS FOR REFERENCE
ONLY

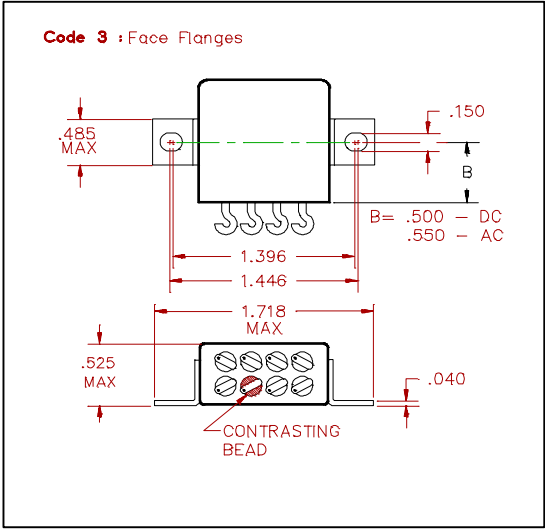
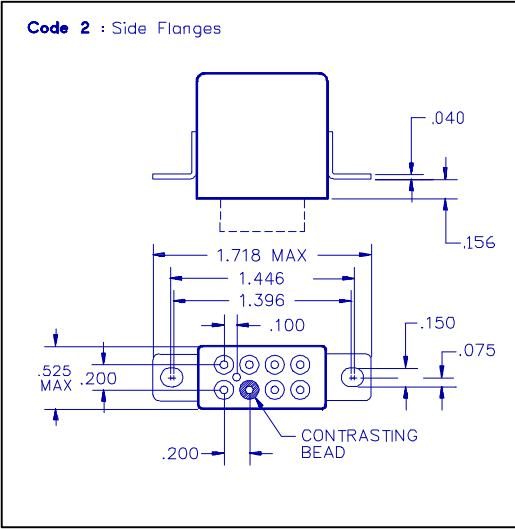
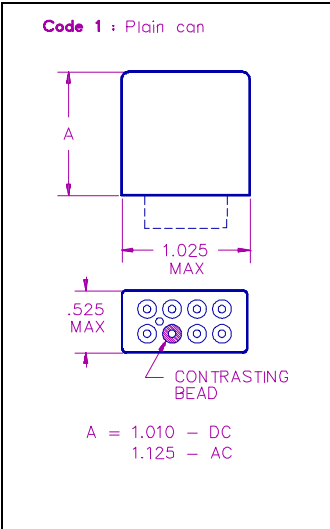


CIRCUIT

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip:

[BR246-1000A1-48V-032L](#) [BR246-1000A1-48V-032M](#) [BR246-1000A2-48V-035L](#) [BR246-1000A2-48V-035M](#) [BR246-1000B1-48V-031L](#) [BR246-1000B1-48V-031M](#) [BR246-1000B2-48V-034L](#) [BR246-1000B2-48V-034M](#) [BR246-1000B3-48V-037L](#) [BR246-1000B3-48V-037M](#) [BR246-1000C1-48V-030L](#) [BR246-1000C1-48V-030M](#) [BR246-1000C2-48V-033L](#) [BR246-1000C2-48V-033M](#) [BR246-1000C3-48V-036L](#) [BR246-1000C3-48V-036M](#) [BR246-1000G3-48V-038L](#) [BR246-1000G3-48V-038M](#) [BR246-20A1-6V-003L](#) [BR246-20A1-6V-003M](#) [BR246-20A2-6V-006L](#) [BR246-20A2-6V-006M](#) [BR246-20B1-6V-002L](#) [BR246-20B1-6V-002M](#) [BR246-20B2-6V-005L](#) [BR246-20B2-6V-005M](#) [BR246-20B3-6V-008L](#) [BR246-20B3-6V-008M](#) [BR246-20C1-6V-001L](#) [BR246-20C1-6V-001M](#) [BR246-20C2-6V-004L](#) [BR246-20C2-6V-004M](#) [BR246-20C3-6V-007L](#) [BR246-320C2-28V-022L](#) [BR246-320C2-28V-022M](#) [BR246-320C3-28V-025L](#) [BR246-320C3-28V-025M](#) [BR246-320G3-28V-027L](#) [BR246-320G3-28V-027M](#) [BR246-80A1-12V-012L](#) [BR246-80A1-12V-012M](#) [BR246-80A2-12V-015L](#) [BR246-80A2-12V-015M](#) [BR246-80B1-12V-011L](#) [BR246-80B1-12V-011M](#) [BR246-80B2-12V-014L](#) [BR246-80B2-12V-014M](#) [BR246-80B3-12V-017L](#) [BR246-80B3-12V-017M](#) [BR246-80C1-12V-010L](#) [BR246-80C1-12V-010M](#) [BR246-80C2-12V-013L](#) [BR246-80C2-12V-013M](#) [BR246-80C3-12V-016L](#) [BR246-80C3-12V-016M](#) [BR246-80G3-12V-018L](#) [BR246-80G3-12V-018M](#)