Sensitive
Half-Size Crystal Can
Welded • DPDT
Dry Circuit to 2 Amps

SPECIFICATIONS

GENERAL

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

Weight.....0.25 oz approx.

Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)

Resistive .....2 Amps @ 28 VDC or 115 V 400 Hz (Case Ungrounded)

Low Level .....10-50 µA @ 10-50 mv DC or peak AC (Note 4)

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

Pull In Power.....100 mw approx.

Operate/Release Time .....4 ms max, excluding bounce time at nominal coil voltage

Contact Bounce Time.....2 ms max @ 2 Amps and 6 VDC

Contact Resistance

Before Life.....0.050 Ohms max @ 2 Amps and 6 VDC

After Life.....0.100 Ohms max @ 2 Amps and 6 VDC

ENVIRONMENTAL

Temperature Range.....-65°C to +125°C

Vibration (Note 2).....0.4" DA 10 - 31 Hz, 20 G's 31 - 2,000 Hz

Shock (Operating) (Note 2) .....50 G's 11 ms

ELECTRICAL CHARACTERISTICS

Duty Cycle.....Continuous

Insulation Resistance

10,000 megohms @ 500V 25°C

1,000 megohms @ 500V 125°C

Dielectric Strength:

Sea Level:

Contact to Case .....1,000 VRMS

Contact to Coil .....1,000 VRMS

Coil to Case .....500 VRMS

Across Open Contacts .....500 VRMS

70,000 Feet

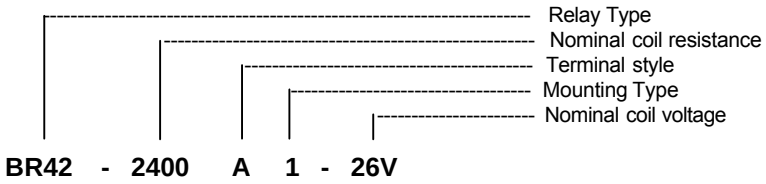
All points.....350 VRMS

Notes

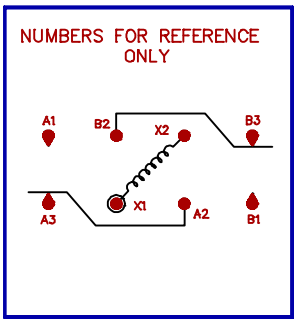
1. For case grounded loads and other ratings, consult the factory.
2. For applications requiring other shock and vibration levels, consult the factory.
3. For other ratings consult the factory.
4. Relay contacts which have switched high level currents are no longer suitable for switching low level loads.

COIL DATA

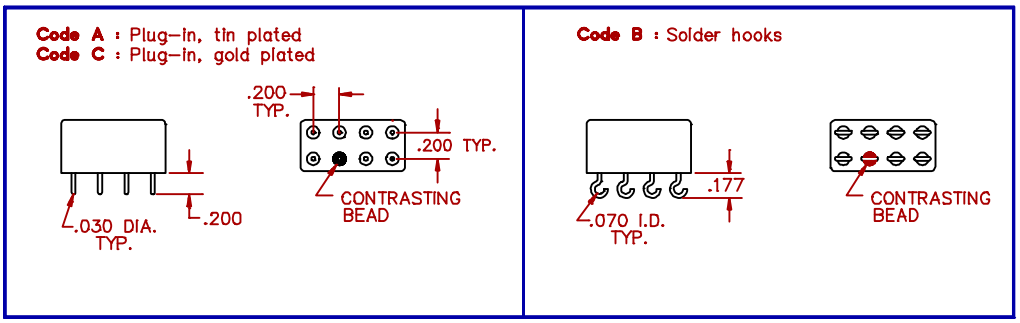
MODEL BR42 PART NUMBER	BR42-90()()-6V	BR42-600()()-12V	BR42-2400()()-26V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	26 VDC
MAXIMUM COIL VOLTAGE	7.3 VDC	14.8 VDC	32 VDC
PULL IN VOLTAGE (MAX @ +125°C)	4.4 VDC	10 VDC	20 VDC
PULL IN VOLTAGE (MAX)	3 VDC	7.7 VDC	15.5 VDC
DROP OUT VOLTAGE (MIN)	0.3 VDC	0.6 VDC	1.3 VDC
COIL RESISTANCE ± 10% @ 25°C	90 OHMS	600 OHMS	2400 OHMS



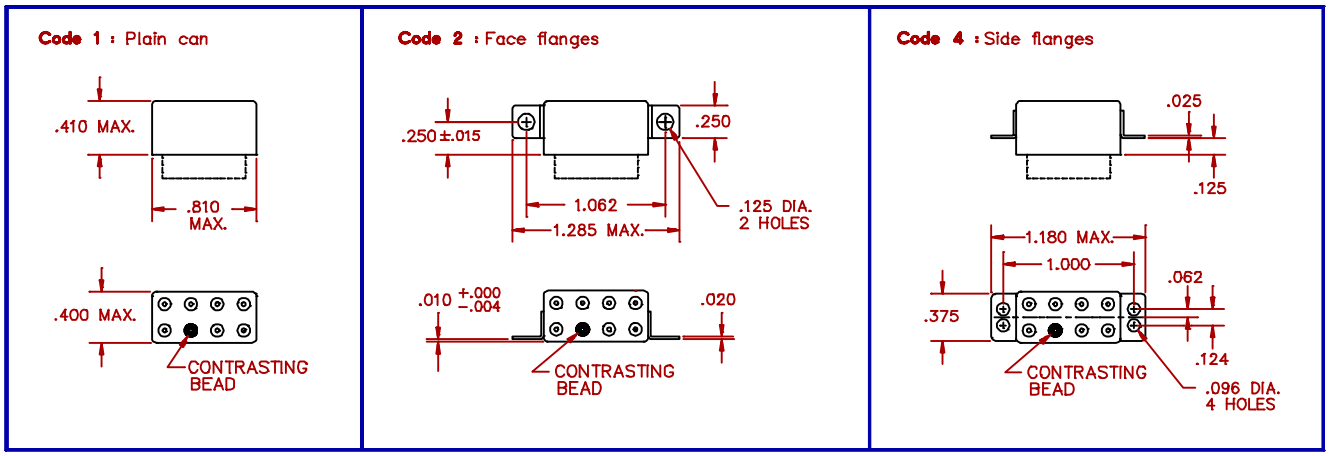
TERMINAL VIEW



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.

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