

**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)
 Resistive2 Amps @ 28 VDC or 115 V 400 Hz
 (Case Ungrounded)
 Low Level 10-50 μ A @ 10-50 mv DC
 or peak AC (Note 4)
Life100,000 operations minimum
 @ rated load, 125°C
Pull In Power100 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

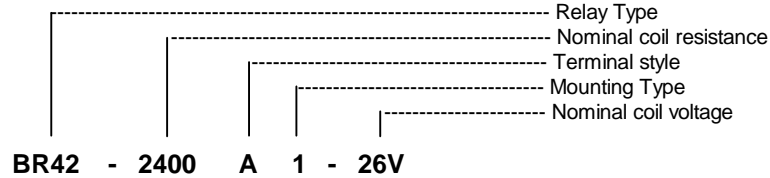
Duty Cycle.....Continuous
Insulation Resistance
 10,000 megohms @ 500V 25°C
 1,000 megohms @ 500V 125°C
Dielectric Strength:
 Sea Level:
 Contact to Case 1,000 VRMS
 Contact to Coil 1,000 VRMS
 Coil to Case 500 VRMS
 Across Open Contacts 500 VRMS
 70,000 Feet
 All points..... 350 VRMS

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.

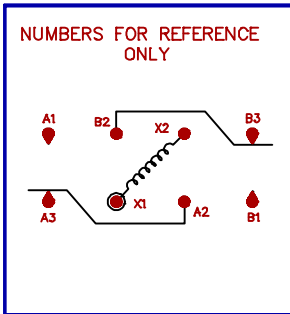
COIL DATA:

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

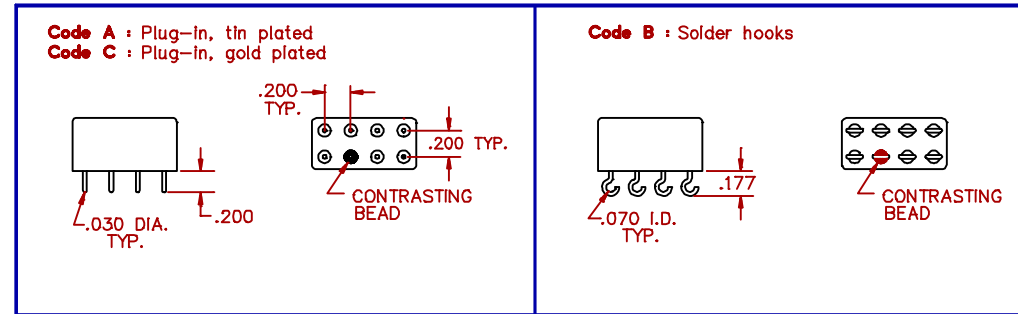


SCHEMATIC

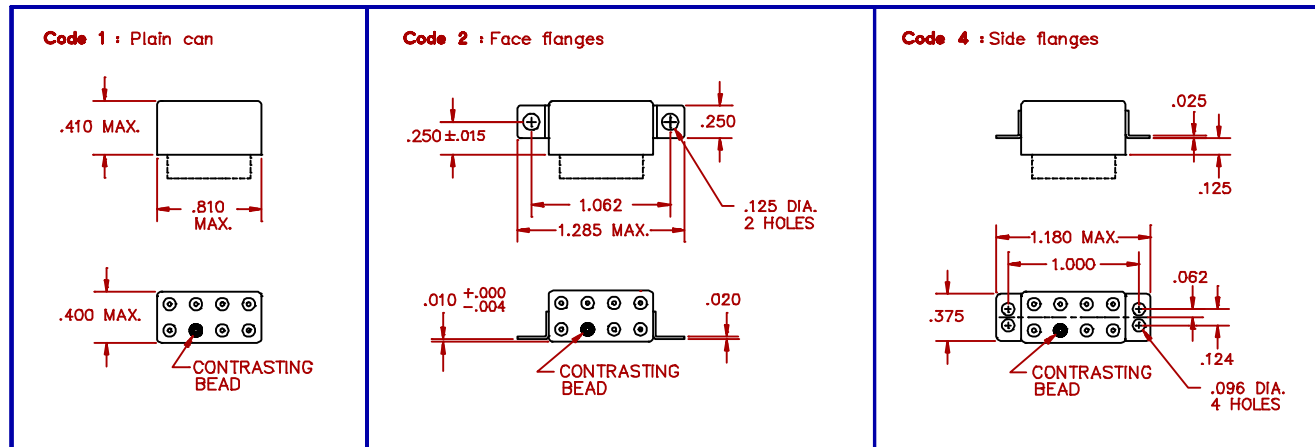
TERMINAL VIEW



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.