

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

- **UNIVERSAL CONTACTS**...permit operation from dry circuit to rated load with the same contact set.
- **UNIQUE HEAT SINK/MAGNETIC FLUX CONDUCTOR**...improves heat dissipation characteristics— insures lower temperature rise.
- **SPECIALLY-DESIGNED MAGNETIC CIRCUIT**...locates armature inside coil for more efficient switching action.

**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 115V 400 Hz  
 (Case Ungrounded)  
 Low Level ..... 10-50  $\mu$ A @ 10-50 mv DC  
 or peak AC (Note 4)  
**Life** .....100,000 operations minimum  
 @ rated load, 125°C  
**Pull In Power** ..... 175 mw approx.  
**Operate/Release Time** ..... 4 ms max  
 excluding bounce time at nominal coil voltage  
**Contact Bounce Time**..... 2 ms max @ 2 Amps 28 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 - 38 Hz,  
 20 G's 38 - 2,000 Hz  
**Shock (Operating)** (Note 2) ..... 50 G's 11 ms

**ELECTRICAL CHARACTERISTICS**

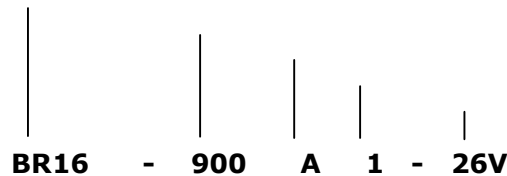
**Duty Cycle**.....Continuous  
**Insulation Resistance**  
 10,000 megohms @ 500V 25°C  
 1,000 megohms @ 500V 125°C  
**Dielectric Strength:**  
 Sea Level:  
 Contact to Case ..... 1,000 VRMS  
 Contact to Coil ..... 1,000 VRMS  
 Coil to Case ..... 500 VRMS  
 Across Open Contacts ..... 500 VRMS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

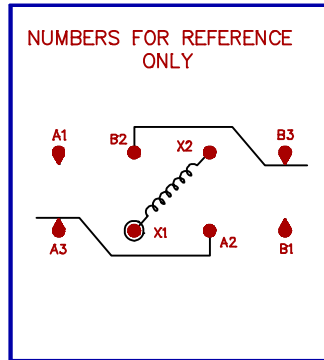
## COIL DATA:

MODEL BR16 PART NUMBER	BR16-50() <sup>( )</sup> -6V	BR16-190() <sup>( )</sup> -12V	BR16-900() <sup>( )</sup> -26V	BR16-2.8K() <sup>( )</sup> -48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	26 VDC	48 VDC
MAXIMUM COIL VOLTAGE	7.3 VDC	14.8 VDC	32 VDC	59 VDC
PULL IN VOLTAGE (MAX @ +125°C)	4.4 VDC	8.4 VDC	18 VDC	33 VDC
PULL IN VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC
DROP OUT VOLTAGE (MIN)	0.3 VDC	0.6 VDC	1.3 VDC	2.4 VDC
COIL RESISTANCE ± 10% @ 25°C	50 OHMS	190 OHMS	900 OHMS	2.8K OHMS

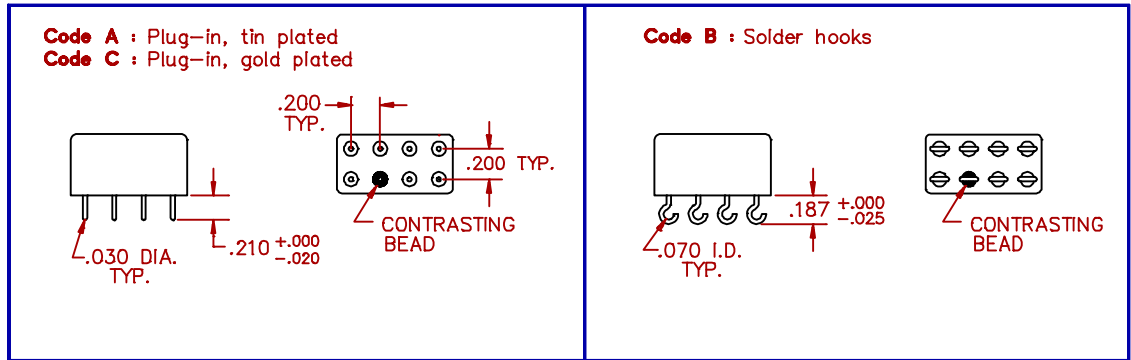


- Relay Type
- Nominal coil resistance
- Terminal style
- Mounting Type
- Nominal coil voltage

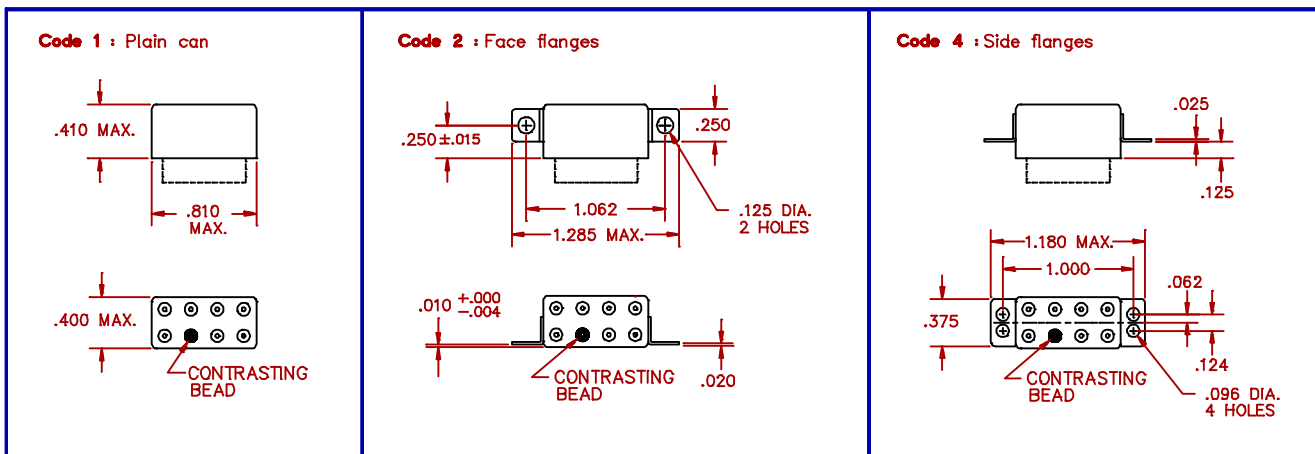
## SCHEMATIC TERMINAL VIEW



## 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.