

## Crystal Can Welded • DPDT Dry Circuit to 10 Amps DC Suppressed Coils

### SPECIFICATIONS

#### GENERAL

**Contact Arrangement** .....2PDT (2 Form C)  
**Weight** .....1.0 oz approx.  
 Designed to meet the requirements of MIL-PRF-39016.

#### PERFORMANCE

##### Contact Rating (Note 1):

Resistive .....10 Amps @ 28 VDC or 115V 400 Hz  
 (Case Ungrounded)  
 Inductive .....3.5 Amps @ 28 VDC

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

**Pull In Power** .....400 mw approx.  
**Operate/Release Time** .....7 ms max, excluding  
 bounce time at nominal coil voltage

**Contact Bounce Time** .....2 ms max  
 @ 10 amps 28 VDC

##### Contact Voltage Drop:

Before Life .....100 mv max @ rated current  
 6 or 28 VDC  
 After Life .....200 mv max @ rated current  
 6 or 28 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:

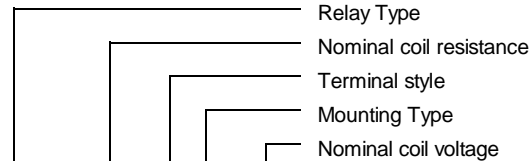
Sea Level:  
 Contact to Case .....1,250 VRMS  
 Contact to Coil .....1,250 VRMS  
 Coil to Case .....1,000 VRMS  
 Across Open Contacts .....1,250 VRMS  
 70,000 Feet:  
 All Points .....500 VRMS

#### Notes

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

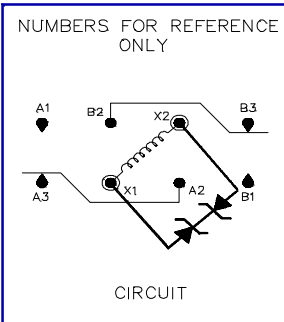
## COIL DATA

MODEL BR24D PART NUMBER	BR24D-85() <sup>(1)</sup> -12V	BR24D-300() <sup>(1)</sup> -26V	BR24D-400() <sup>(1)</sup> -26V
NOMINAL COIL VOLTAGE	12 VDC	26 VDC	26 VDC
MAXIMUM COIL VOLTAGE	14.8 VDC	32 VDC	32 VDC
PULL IN VOLTAGE (MAX @ +125°C)	8.3 VDC	18 VDC	18 VDC
PULL IN VOLTAGE (MAX)	6.4 VDC	14 VDC	14 VDC
DROP OUT VOLTAGE (MIN)	0.6 VDC	1.3 VDC	1.3 VDC
COIL RESISTANCE ± 10% @ 25°C	85 OHMS	300 OHMS	400 OHMS

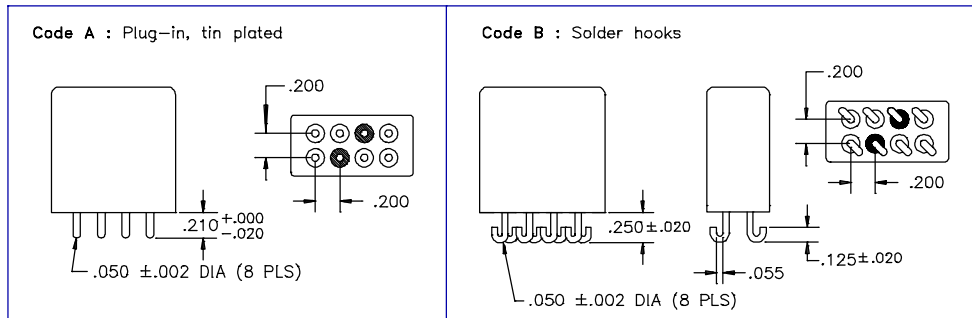


BR24D - 400 A 1 - 26V

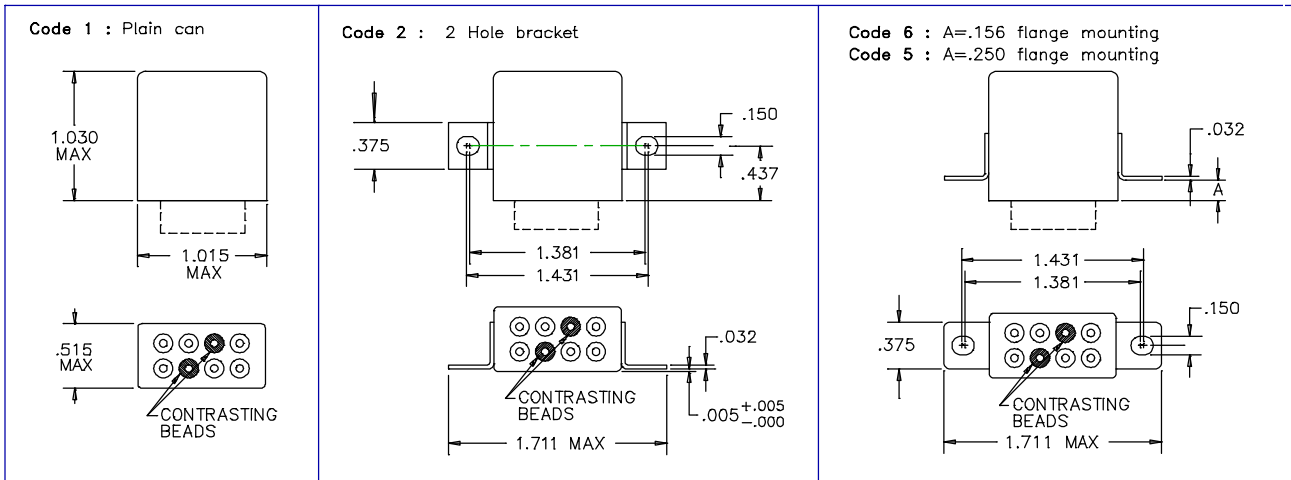
## SCHEMATIC TERMINAL VIEWS



## 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.