

**Miniature  
10 Amps • 4PDT  
To MIL-R-83536**

**SPECIFICATIONS**

**GENERAL**

**Contact Arrangement** . . . . . 4PDT (4 Form C)  
**Weight** . . . . . 3.0 oz approx.  
Designed to meet the requirements of MIL-R-6106

**PERFORMANCE**

**Contact Rating (Note 1):**

**Resistive** . . . . . 10 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)  
**Inductive** . . . . . 6 Amps @ 115/208V 400 Hz  
(Case Grounded)  
4 Amps @ 115/208V 60 Hz  
(Case Grounded)  
**Motor** . . . . . 4 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)  
3 Amps @ 115/208V 60 Hz  
(Case Grounded)  
**Lamp** . . . . . 2 Amps @ 28 VDC or  
115/208V 400 Hz  
(Case Grounded)  
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** . . . . . 150 mv max @ 10 Amps  
   and 6 VDC  
**After Life** . . . . . 175 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 Resistance** . . . . . 100 megohms  
   @ 500V 25°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  
**80,000 Feet:**  
**All Points** . . . . . 350 VRMS

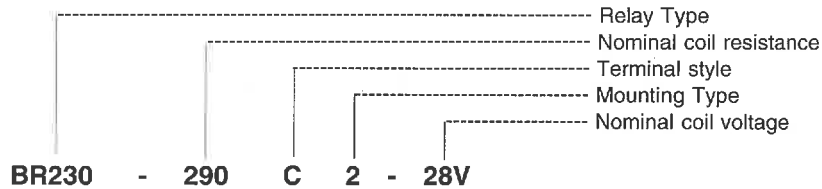
**MIL-R-83536/15 QUALIFIED to ER level M**

**Notes:**

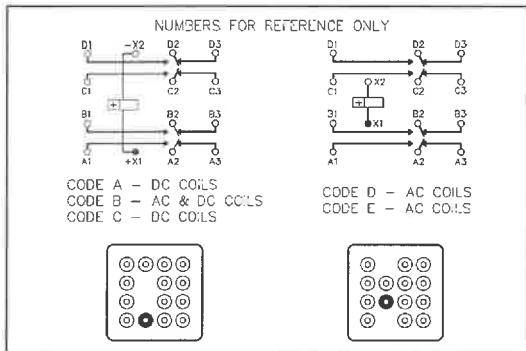
- 1. For other ratings consult the factory.
- 2. For applications requiring higher shock and vibration, consult the factory.
- 3. AC coil line frequency 50 to 400 Hz.

## COIL DATA:

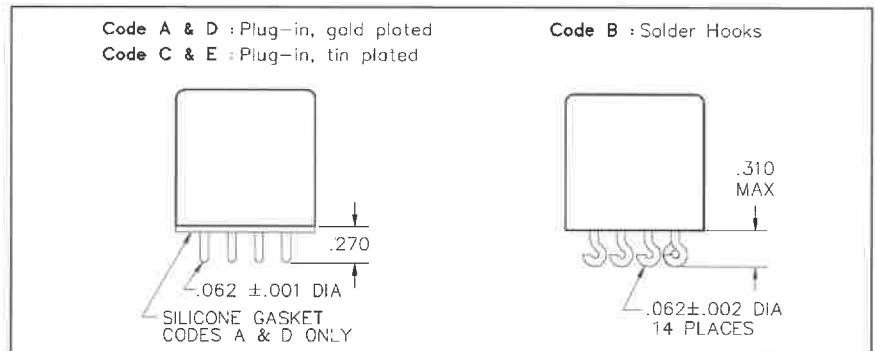
MODEL BR230 PART NUMBER	BR230-20()-6V	BR230-78()-12V	BR230-290()-28V	BR230-890()-48V	BR230AC-()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
PULL IN VOLTAGE (MAX @	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC	5 - 30 VAC
COIL RESISTANCE $\pm 10\%$ @ 25°C	20 OHMS	78 OHMS	290 OHMS	890 OHMS	I = 0.04 AMPS



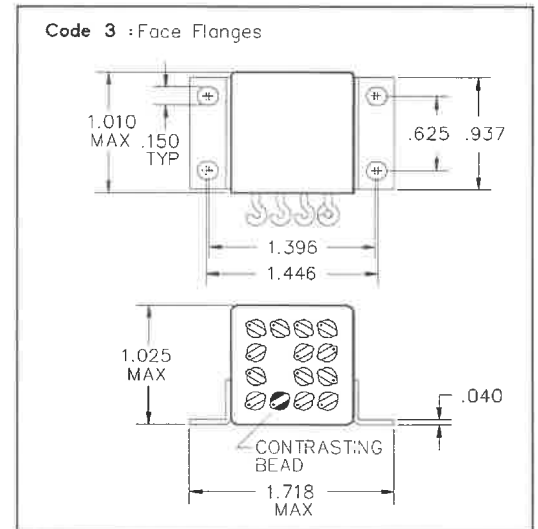
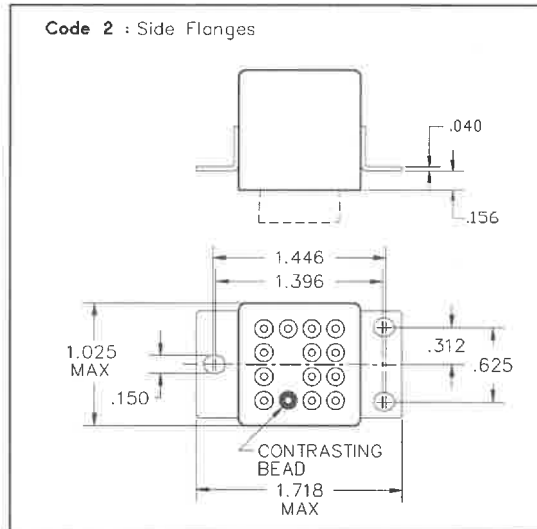
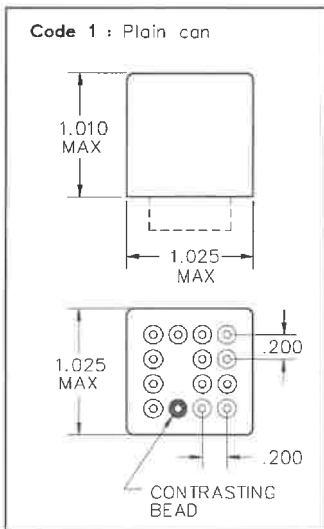
## SCHEMATIC TERMINAL VIEWS



## 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  $\pm .010$ ".
- Specifications contained herein are subject to change without notice.