

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

## SPECIFICATIONS

## GENERAL

**Contact Arrangement** .....4PDT (4 Form C)  
**Weight**.....3.0 oz approx.  
 Designed to meet the requirements of MIL-PRF-83536

## PERFORMANCE

**Contact Rating (Note 1)**

Resistive.....	10 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
Inductive .....	8 Amps @ @ 28 VDC or 115/208V 400 Hz (Case Grounded)
	2.5 Amps @ 115/208V 60 Hz (Case Grounded)
Motor.....	4 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
	2 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.

<b>Operate/Release Time:</b>	<b>DC Coil</b>	<b>AC Coil</b>
	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
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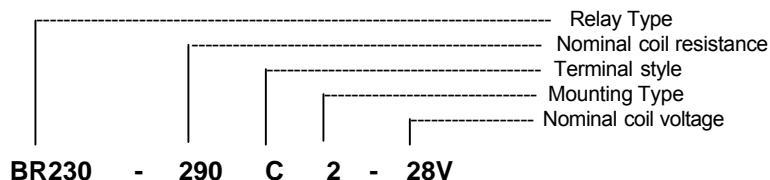
**MIL-PRF-83536/15 QUALIFIED to ER level M**

## Notes

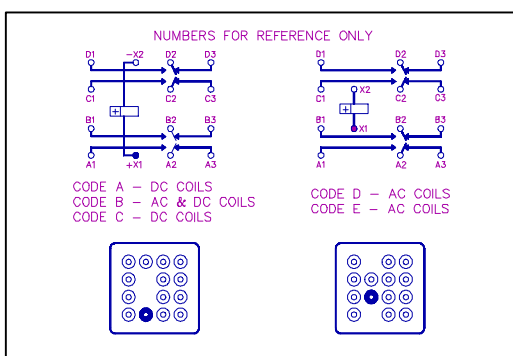
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

## COIL DATA

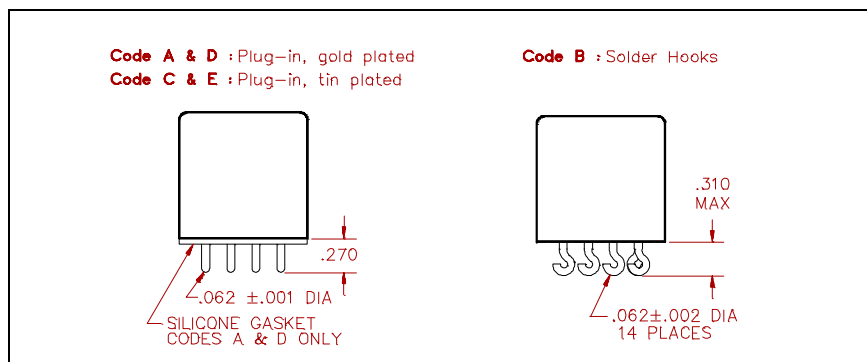
MODEL BR230 PART NUMBER	BR230-20()-6V	BR230-78()-12V	BR230-290()-28V	BR230-890()-48V	BR230AC-()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
DROP OUT VOLTAGE (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



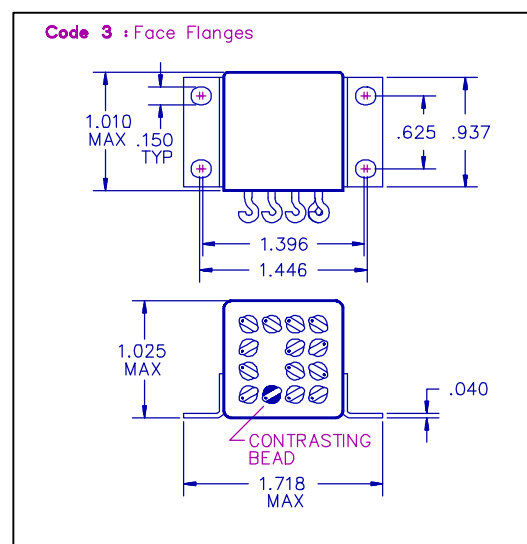
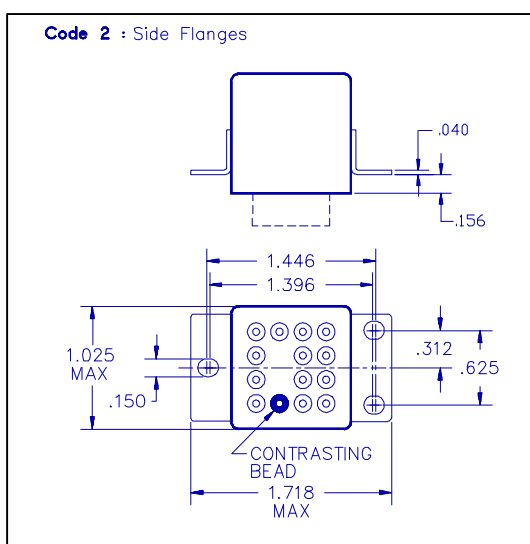
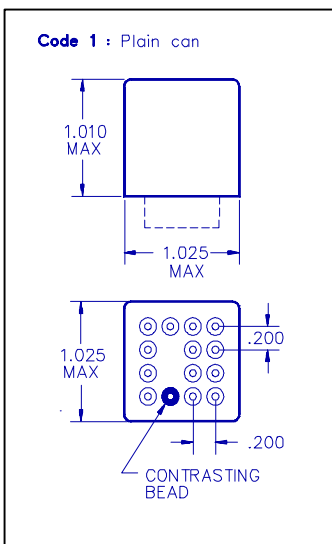
## SCHEMATIC TERMINAL VIEWS



## 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.



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