

**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<br>115/208V 400 Hz<br>(Case Grounded)  |
| Inductive ..... | 8 Amps @ @ 28 VDC or<br>115/208V 400 Hz<br>(Case Grounded) |
|                 | 2.5 Amps @ 115/208V 60 Hz<br>(Case Grounded)               |
| Motor.....      | 4 Amps @ 28 VDC or<br>115/208V 400 Hz<br>(Case Grounded)   |
|                 | 2 Amps @ 115/208V 60 Hz<br>(Case Grounded)                 |
| Lamp .....      | 2 Amps @ 28 VDC or<br>115/208V 400 Hz<br>(Case Grounded)   |
|                 | 1.5 Amps @ 115/208V 60 Hz<br>(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<br>and 6 VDC |
| After Life .....  | 175 mv max @ 10 Amps<br>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 |
|------------------|----------|

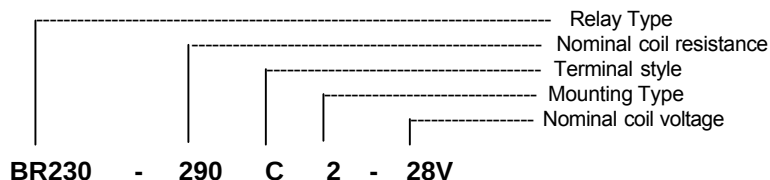
**MIL-PRF-83536/15 QUALIFIED to ER level M**

## Notes

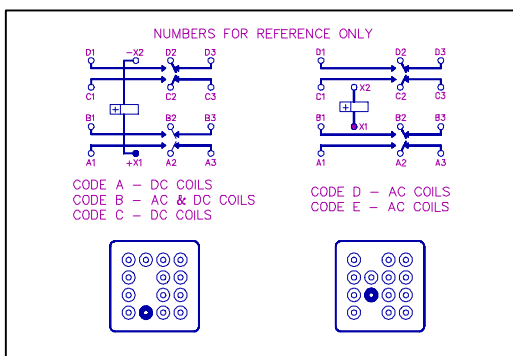
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

## COIL DATA

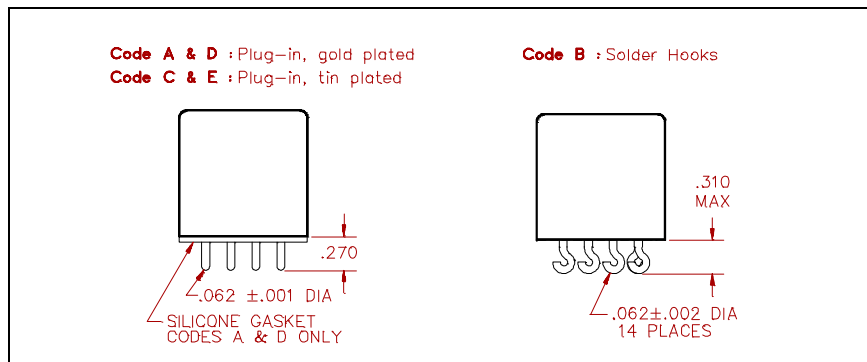
| MODEL BR230 PART NUMBER           | BR230-20()()-6V | BR230-78()()-12V | BR230-290()()-28V | BR230-890()()-48V | BR230AC-()()-115V<br>(Note 3) |
|-----------------------------------|-----------------|------------------|-------------------|-------------------|-------------------------------|
| NOMINAL 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                 |



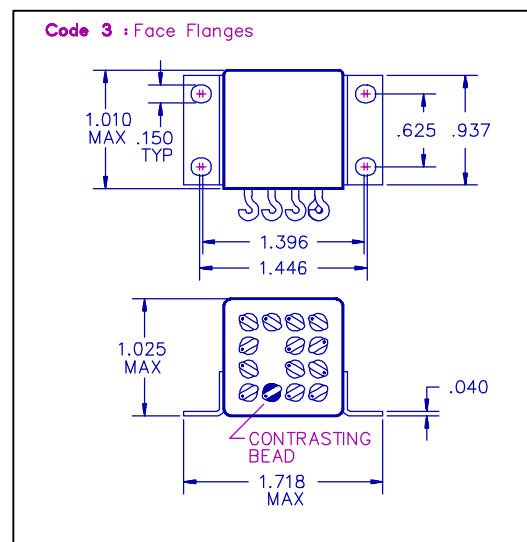
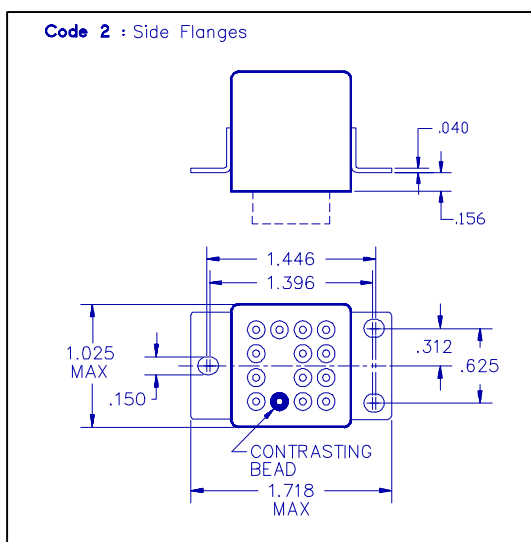
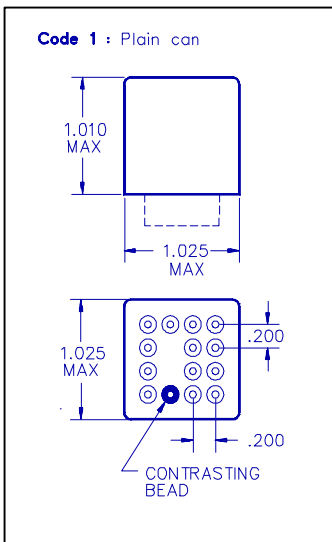
## SCHEMATIC TERMINAL VIEWS



## 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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