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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



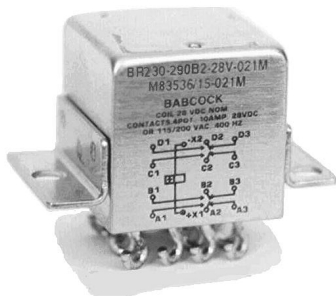
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# Miniature 10 Amps • 4PDT To MIL-PRF-83536

## 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

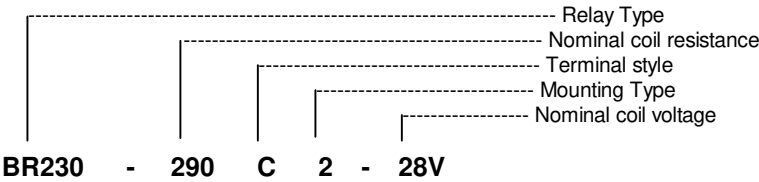
**MIL-PRF-83536/15 QUALIFIED to ER level M**

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.

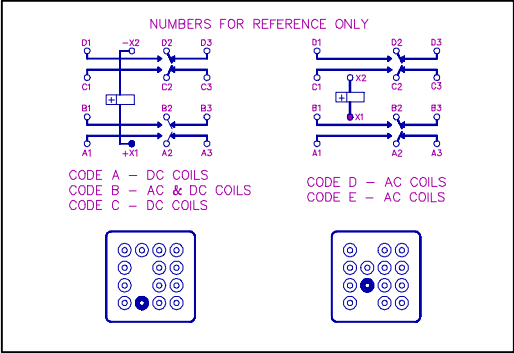
COIL DATA:

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 ± 10% @ 25°C	20 OHMS	78 OHMS	290 OHMS	890 OHMS	I = 0.04 AMPS

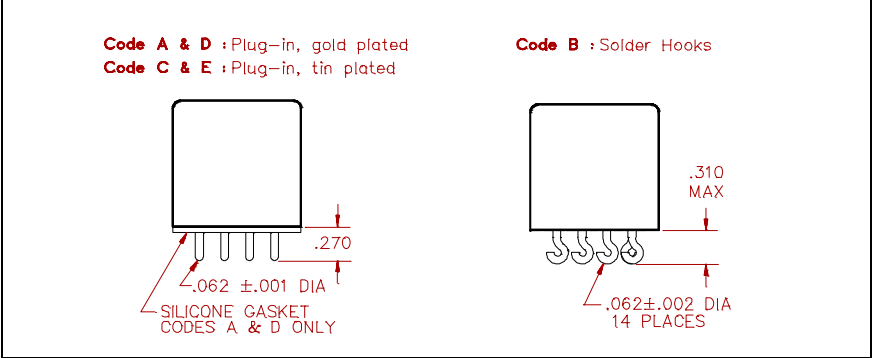


SCHEMATIC

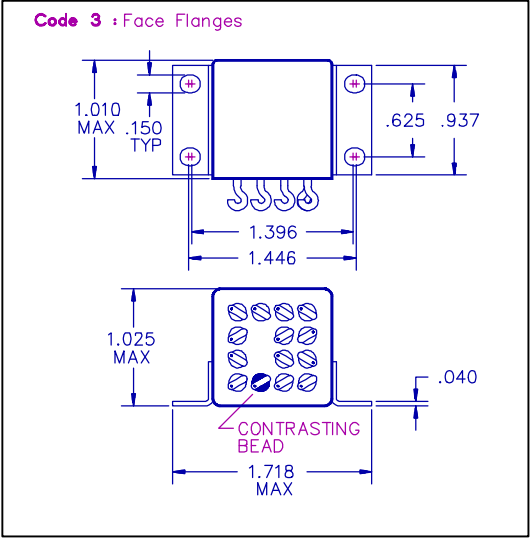
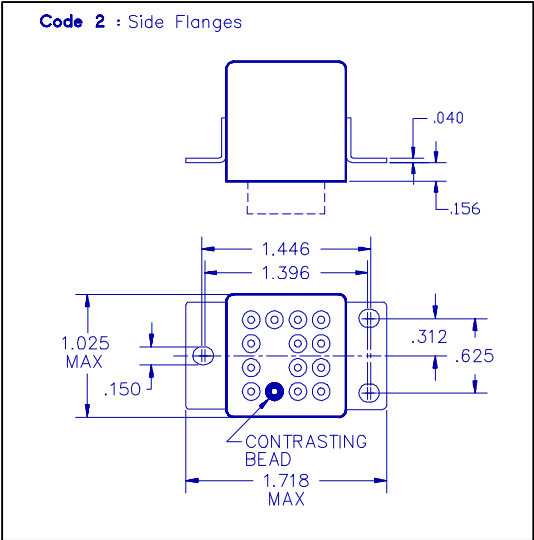
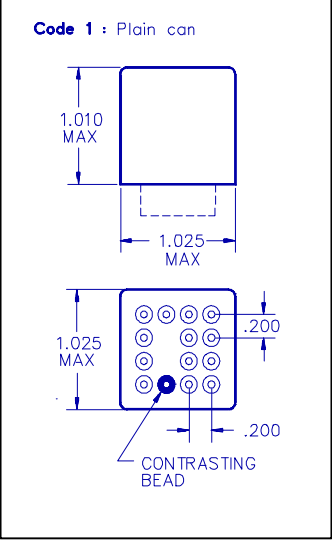
TERMINAL VIEWS



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 ± .010".
- Specifications contained herein are subject to change without notice.