

Miniature 10 Amps • 4PDT To MIL-PRF-83536 DC Suppressed Coils

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)

Life100,000 operations minimum @ rated
resistive load, 125°C

Pull In Power 500 mw approx.

Operate/Release Time: **DC Coil**
15 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

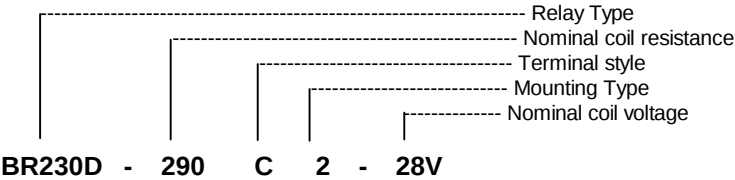
MIL-PRF-83536/16 QUALIFIED to ER level M

Notes:

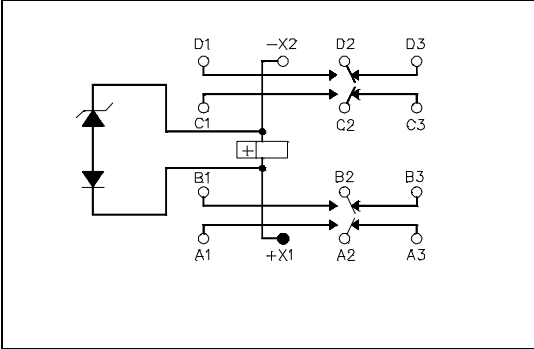
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

COIL DATA:

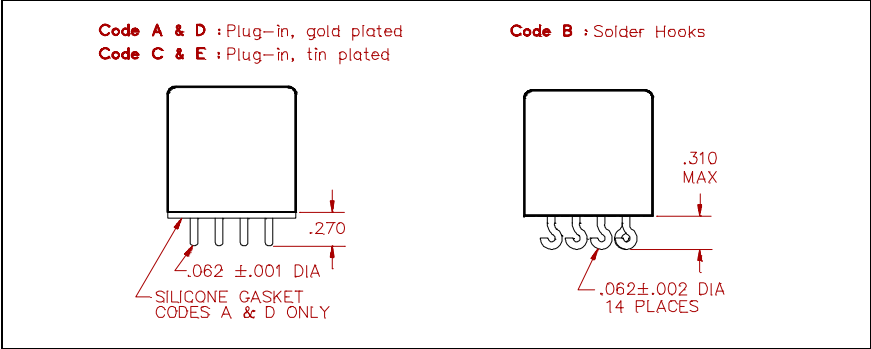
MODEL BR230D PART NUMBER	BR230D-20()-6V	BR230D-78()-12V	BR230D-290()-28V	BR230D-890()-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC
MAXIMUM BACK EMF	9 VDC	18 VDC	42 VDC	72 VDC
COIL RESISTANCE ± 10% @ 25°C	20 OHMS	78 OHMS	290 OHMS	890 OHMS



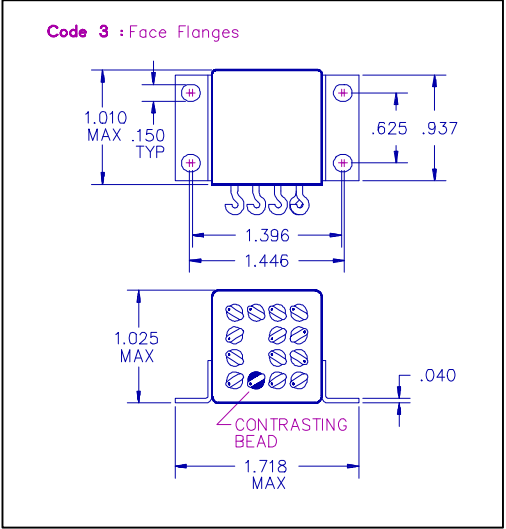
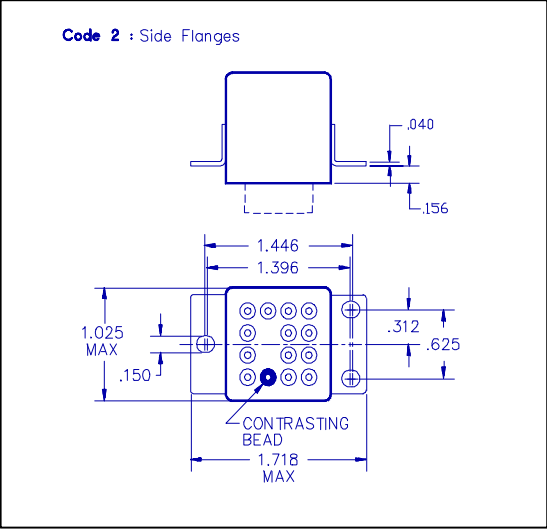
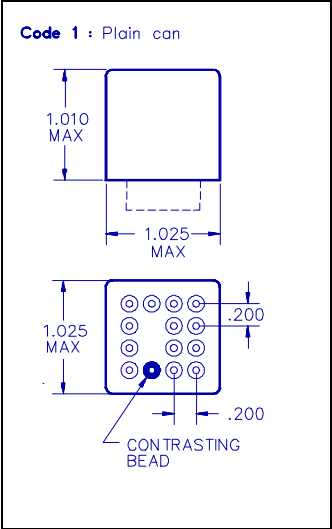
SCHEMATIC
TERMINAL VIEW



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.