



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

SPECIFICATIONS

GENERAL

Contact Arrangement4PDT (4 Form C)
Weight.....3.0 oz approx.
 Designed to meet the requirements of MIL-PRF-83536

PERFORMANCE

Contact Rating (Note 1):

Resistive10 Amps @ 28 VDC or
 115/208V 400 Hz
 (Case Grounded)
 Inductive8 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)
 Lamp2 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 Power500 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 Life150 mv max @ 10 Amps
 and 6 VDC
 After Life175 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 Case1,250 VRMS
 Contact to Coil1,250 VRMS
 Coil to Case1,000 VRMS
 Across Open Contacts1,250 VRMS
 80,000 Feet:
 All Points350 VRMS

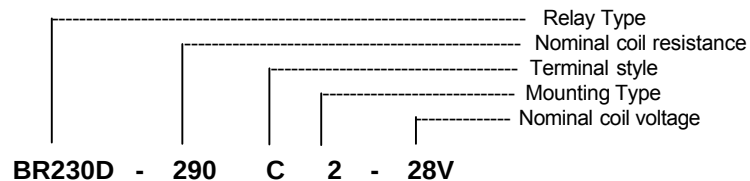
MIL-PRF-83536/16 QUALIFIED to ER level M

Notes

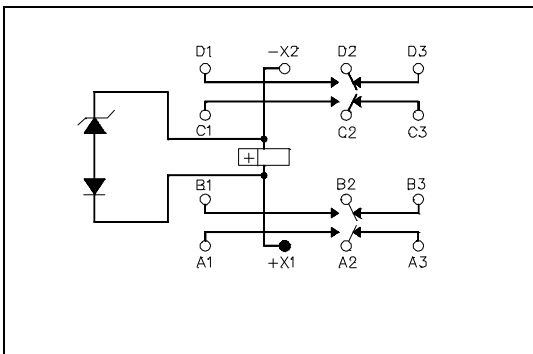
- For other ratings consult the factory.
- For applications requiring higher shock and vibration, consult the factory.
- AC coil line frequency 50 to 400 Hz.

COIL DATA

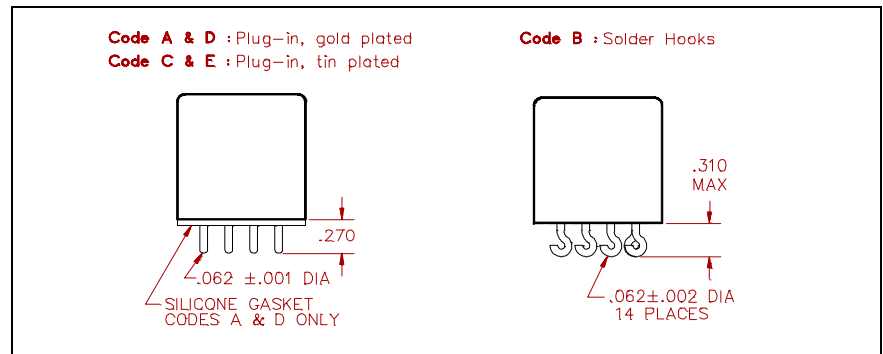
MODEL BR230D PART NUMBER	BR230D-20(0)-6V	BR230D-78(0)-12V	BR230D-290(0)-28V	BR230D-890(0)-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC
MAXIMUM BACK EMF	9 VDC	18 VDC	42 VDC	72 VDC
COIL RESISTANCE $\pm 10\%$ @ 25°C	20 OHMS	78 OHMS	290 OHMS	890 OHMS



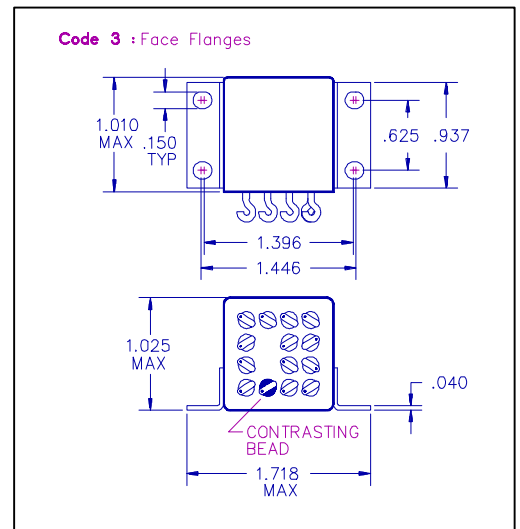
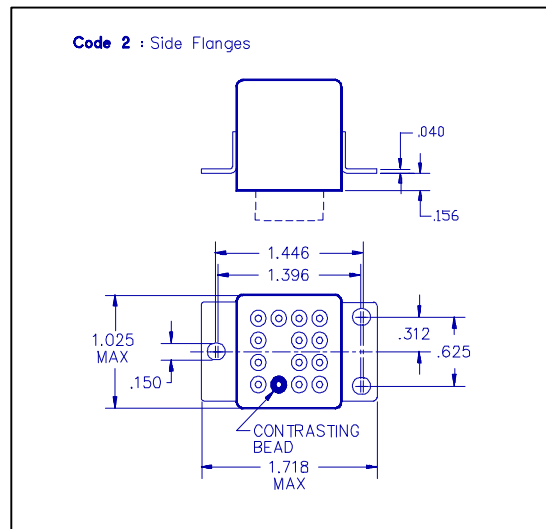
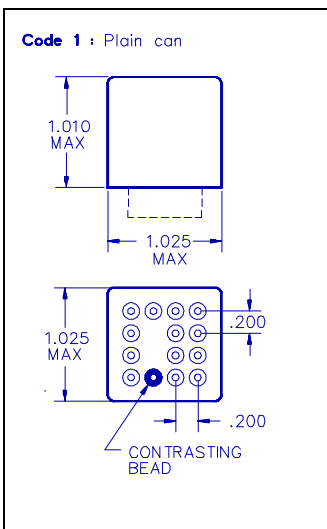
SCHEMATIC TERMINAL VIEWS



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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