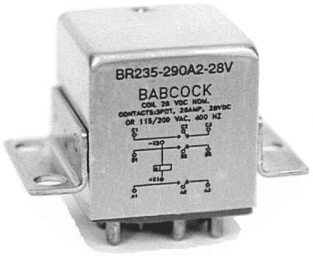
BABCOCK INC.

BR235



Miniature
25 Amps • 3PDT
To MIL-PRF-83536

SPECIFICATIONS

GENERAL

Contact Arrangement ..... 3PDT (3 Form C)
Weight.....3.0 oz approx.
Designed to meet the requirements of MIL-PRF-83536

PERFORMANCE

Contact Rating (Note 1):
Resistive ..... 25 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)

Inductive .....15 Amps @ 115/208V 400 Hz 12 Amps @ 28 VDC (Case Grounded)

Motor..... 10 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)

Lamp ..... 5 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)

Life .....50,000 operations minimum @ rated resistive load, 125°C

Pull In Power .....500 mw approx.

Operate/Release Time: **DC Coil** 15 ms max **AC Coil** 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 @ 25 Amps and 6 VDC
After Life ..... 175 mv max @ 25 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

Notes:

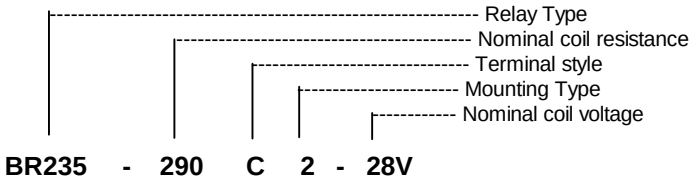
1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.
3. AC coil line frequency 50 to 400 Hz.

14930 E. Alondra Blvd., La Mirada, CA 90638-5752 (714) 994-6500 FAX (714) 994-3013

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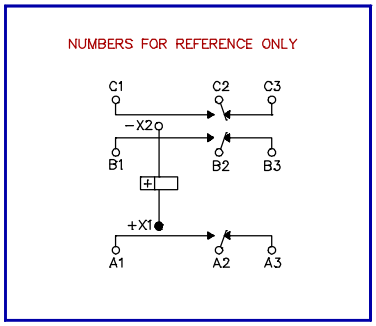
COIL DATA:

MODEL BR235 PART NUMBER	BR235-20()()-6V	BR235-78()()-12V	BR235-290()()-28V	BR235-890()()-48V	BR235AC-()()-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

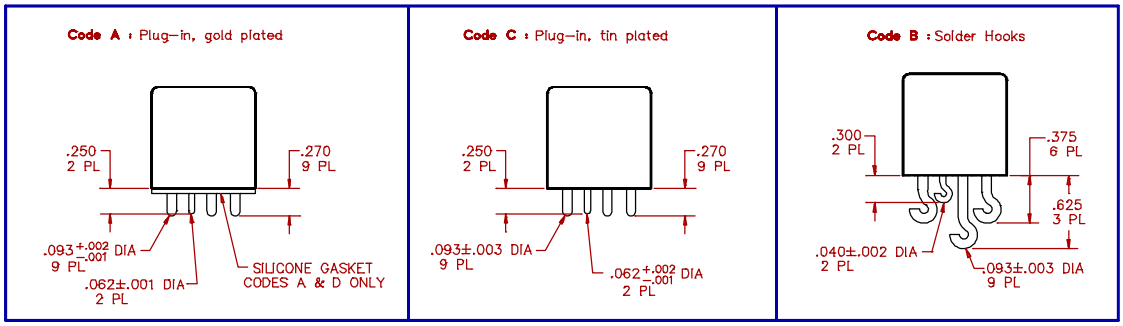


SCHEMATIC

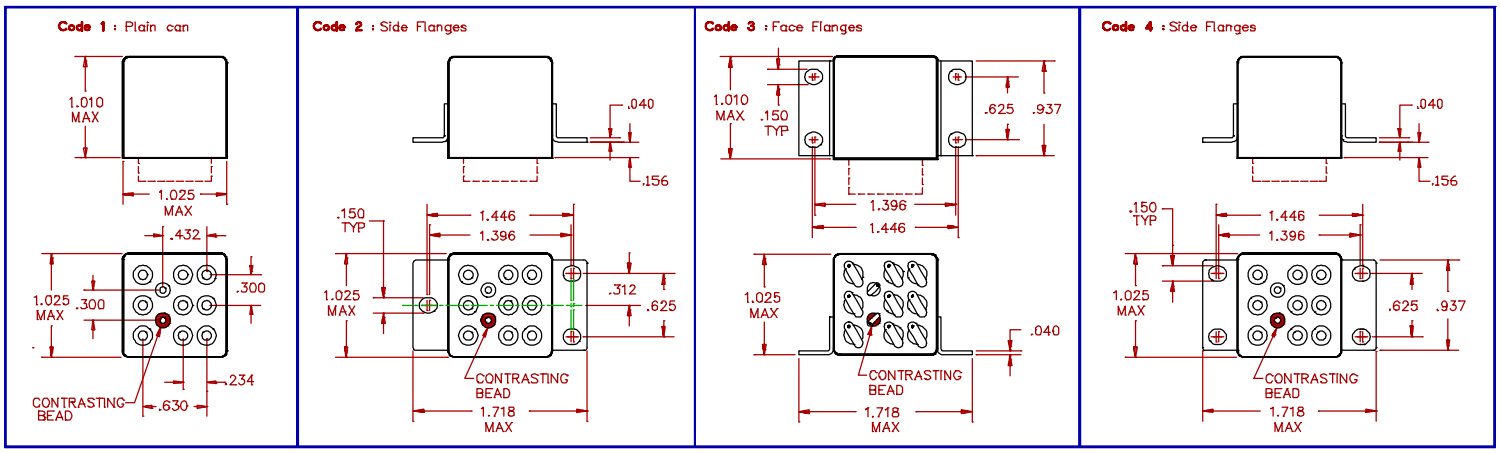
TERMINAL VIEW



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.

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