

**Miniature
25 Amps • 3PST, 1PDT
Magnetic Latching
To MIL-PRF-6106**

SPECIFICATIONS

GENERAL

Contact Arrangement 3PST, 1PDT
Magnetic Latching

Weight..... 3.0 oz approx.
Designed to meet the requirements of MIL-PRF-6106

PERFORMANCE

Contact Rating (Note 1): (Case Grounded)

Power Contacts:

Resistive	25 Amps @ 28 VDC or 115/208V 400 Hz
Inductive	15 Amps @ 115/208V 400 Hz 12 Amps @ 28 VDC
Motor	10 Amps @ 28 VDC or 115/208V 400 Hz
Lamp	5 Amps @ 28 VDC or 115/208V 400 Hz

Auxiliary Contacts:

Configuration.....	SPDT
Resistive	2 Amps @ 28 VDC or 115/208V 400 Hz
Inductive	1 Amp @ 28 VDC 115/208V 400 Hz
Lamp	0.5 Amps @ 28 VDC or 115/208V 400 Hz

Life50,000 operations minimum @ rated
resistive load, 125°C

Latch/Reset Power.....500 mw approx.

Latch/Reset Time:	DC Coil	AC Coil
	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 @ 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:

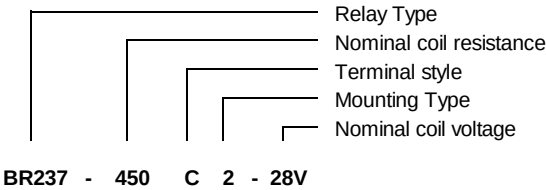
All Points 350 VRMS

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.

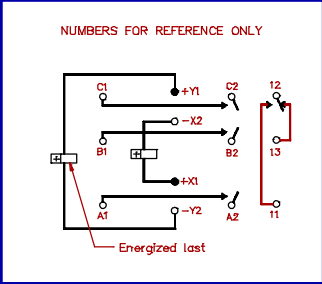
COIL DATA:

MODEL BR237 PART NUMBER	BR237-280()0-6V	BR237-112()0-12V	BR237-450()0-28V	BR237-1500()0-48V	BR237AC-()0-115V (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
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC	72 VAC
COIL RESISTANCE ± 10% @ 25°C	28 OHMS	112 OHMS	450 OHMS	1500 OHMS	I = 0.04 AMPS

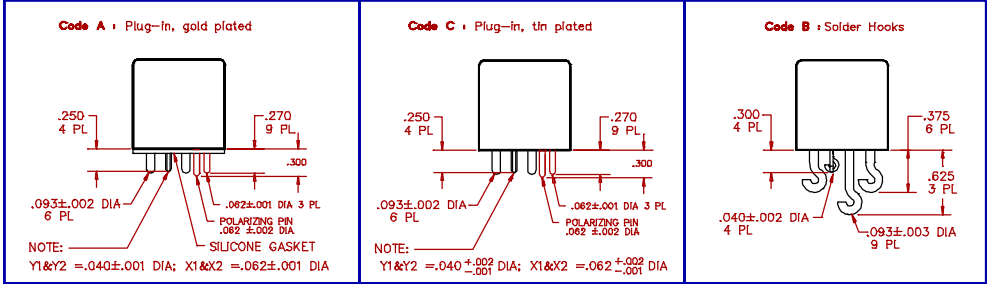


SCHEMATIC

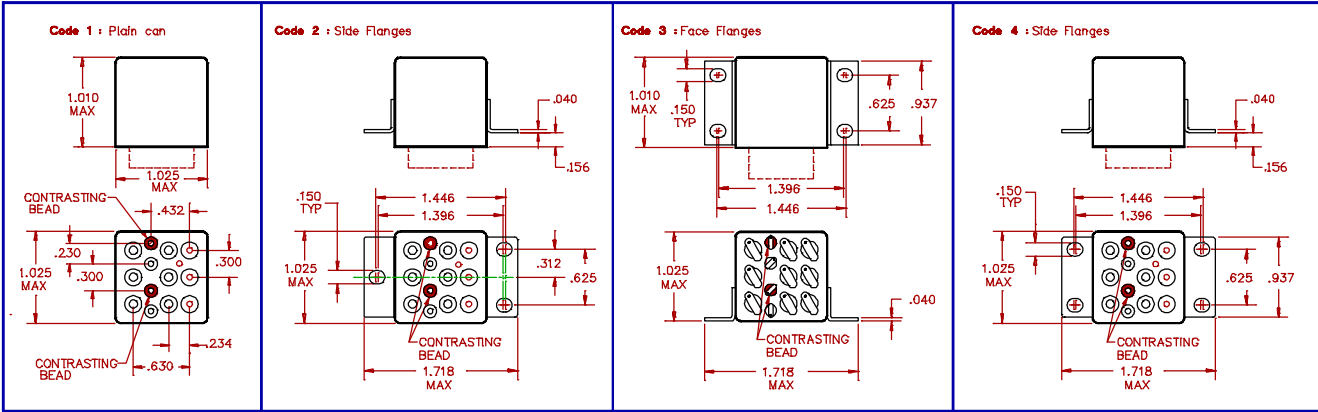
TERMINAL VIEW



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.