

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

SPECIFICATIONS

GENERAL

Contact Arrangement3PST, 1PDT
Magnetic Latching
Weight3.0 oz approx.
Designed to meet the requirements of MIL-PRF-6106

PERFORMANCE

Contact Rating (Note 1): (Case Grounded)

Power Contacts:

Resistive25 Amps @ 28 VDC or
115/208V 400 Hz
Inductive15 Amps @ 115/208V 400 Hz
12 Amps @ 28 VDC
Motor10 Amps @ 28 VDC or
115/208V 400 Hz
Lamp5 Amps @ 28 VDC or
115/208V 400 Hz

Auxiliary Contacts:

ConfigurationSPDT
Resistive2 Amps @ 28 VDC or
115/208V 400 Hz
Inductive1 Amp @ 28 VDC
115/208V 400 Hz
Lamp0.5 Amps @ 28 VDC or
115/208V 400 Hz

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

Latch/Reset Power500 mw approx.

Latch/Reset Time: **DC Coil** **AC Coil**
15 ms max 50 ms max
Excluding bounce time at nominal coil voltage

Contact Bounce Time1 ms max
@ rated contact load, 28 VDC

Contact Voltage Drop:
Before Life150 mv max @ 25 Amps
and 6 VDC
After Life175 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 CycleContinuous
Insulation Resistance100 megohms
@ 500V 25°C

Dielectric Strength:

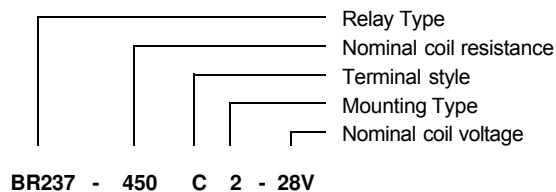
Sea Level:
Contact to Case1,250 VRMS
Contact to Coil1,250 VRMS
Coil to Case1,000 VRMS
Across Open Contacts1,250 VRMS
80,000 Feet:
All Points350 VRMS

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.

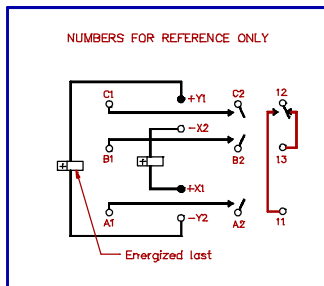
COIL DATA

MODEL BR237 PART NUMBER	BR237-28()(-)6V	BR237-112()(-)12V	BR237-450()(-)28V	BR237-1500()(-)48V	BR237AC-()(-)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 $\pm 10\%$ @ 25°C	28 OHMS	112 OHMS	450 OHMS	1500 OHMS	I = 0.04 AMPS

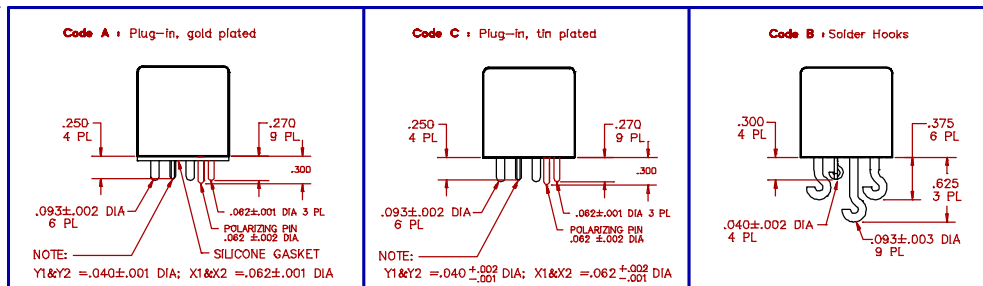


SCHEMATIC

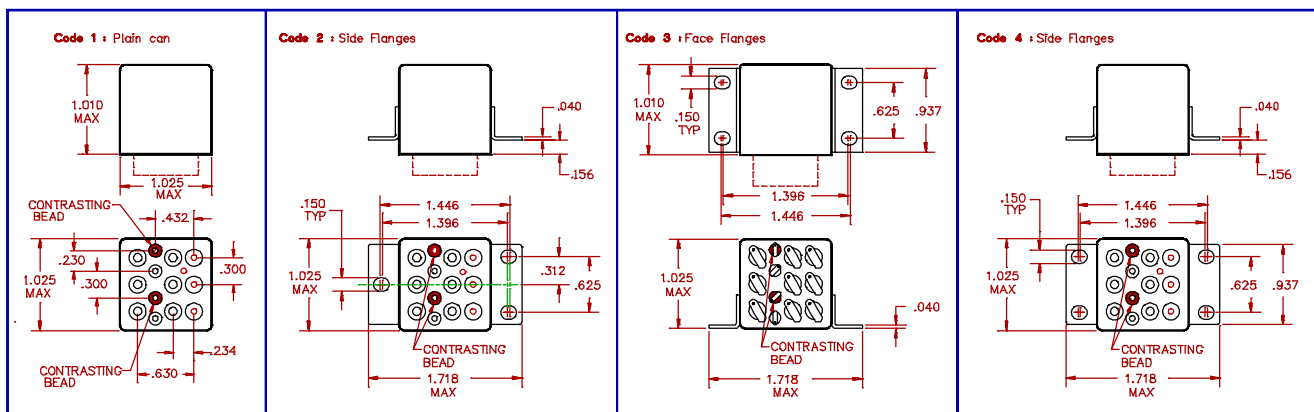
TERMINAL VIEW



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 $\pm .010$ ".
- Specifications contained herein are subject to change without notice.



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