

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

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

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

Latch/Reset Power 500 mw approx.

Latch/Reset 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 @ 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:

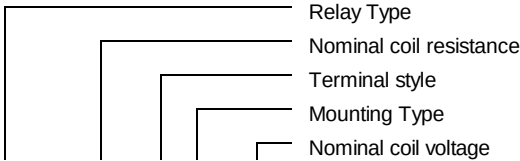
Sea Level:
Contact to Case 1,250 VRMS
Contact to Coil 1,250 VRMS
Coil to Case 1,000 VRMS
Across Open Contacts 1,250 VRMS
80,000 Feet:
All Points 350 VRMS

Notes:

1. For other ratings consult the factory.
2. For applications requiring higher shock and vibration, consult the factory.

COIL DATA:

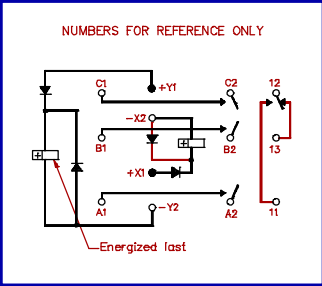
MODEL BR237D PART NUMBER	BR237D-28()-6V	BR237D-112()-12V	BR237D-450()-28V	BR237D-1500()-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC
COIL RESISTANCE ± 10% @ 25°C	28 OHMS	112 OHMS	450 OHMS	1500 OHMS



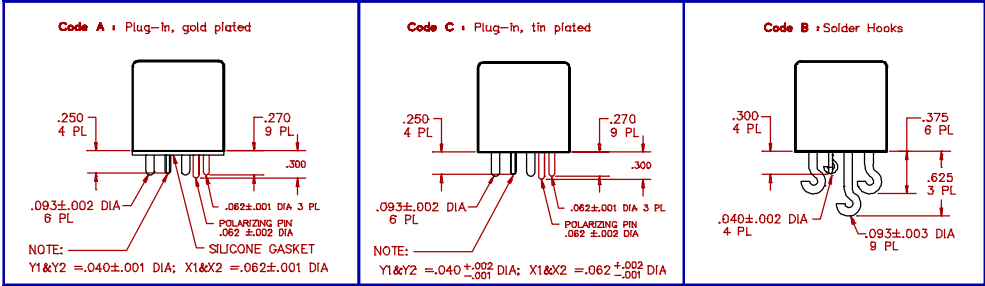
BR237D - 450 C 2 - 28V

SCHEMATIC

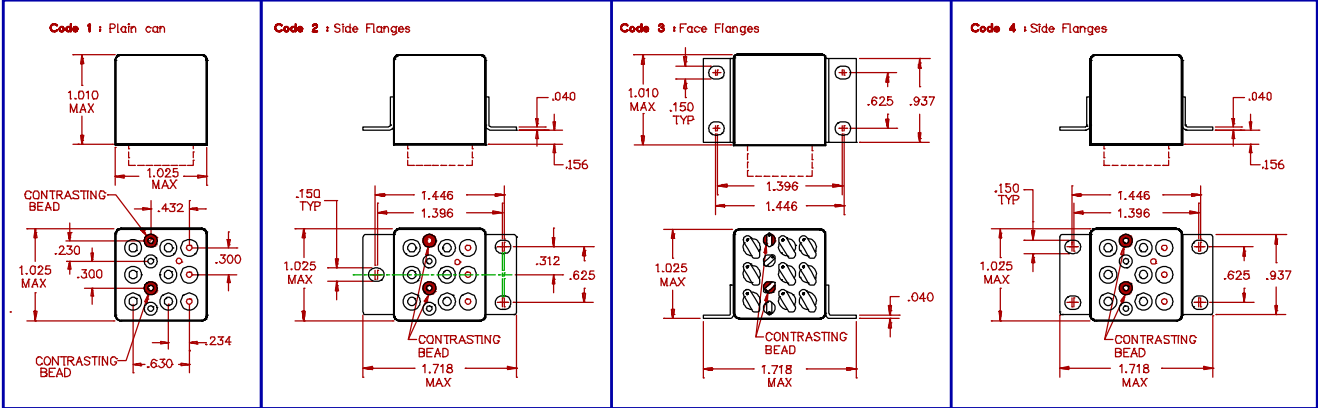
TERMINAL VIEW



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.