



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

SPECIFICATIONS

GENERAL

Contact Arrangement	. 4PDT (4 Form C)
	Magnetic Latching
Weight Designed to meet the requirements of I	
PERFORMANCE	

Co

Contact Rating (Note 1)	
Resistive	10 Amps @ 28 VDC or
	115/208V 400 Hz
	(Case Grounded)
Inductive	8 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)
Lamn	2 Amps @ 28 VDC or
Lamp	115/208V 400 Hz
	(Case Grounded)
	1.5 Amps @ 115/208V 60 Hz
	(Case Grounded)
	(======================================
Life 100,000	operations minimum @ rated
	resistive load, 125°C
Latch/Reset Power	500 mw approx.

Latch/Reset Time:	DC Coil
	15 ms max
Excluding bounce time a	t nominal coil voltage
Contact Bounce Time	1 ms max
	@ rated contact load, 28 VDC
Contact Voltage Drop:	
Before Life	150 mv max @ 10 Amps
	and 6 VDC
After Life	175 mv max @ 10 Amps
	and 6 VDC
ENVIRONMENTAL	
Temperature Range	70°C to +125°C

Temperature Range	70°C to +125°C
Vibration (Note 2)	
,	30 G's 70 - 3,000 Hz
Shock (Operating)(Note 2)	200 G's 6 ms

ELECTRICAL CHARACTERISTICS

Duty Cycle	Continuous
Insulation Resistance	
	@ 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 Deligte	OEO VIDMO

MIL-PRF-83536/19 QUALIFIED to ER level L

Notes

1. For other ratings consult the factory.

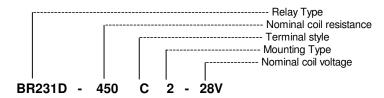
3. AC coil line frequency 50 to 400 Hz.

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

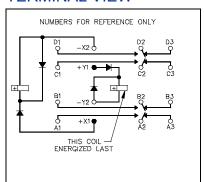


COIL DATA

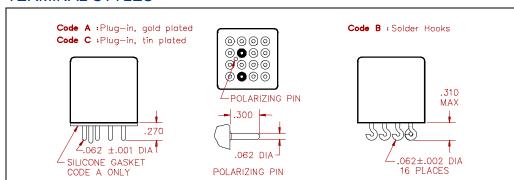
MODEL BR231D PART NUMBER	BR231D-28()()-6V	BR231D-112()()-12V	BR231D-450()()-28V	BR231D-1500()()-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC
MAXIMUM BACK EMF	9 VDC	3 VDC	3 VDC	3 VDC
COIL RESISTANCE ± 10% @ 25°C	28 OHMS	112 OHMS	450 OHMS	1500 OHMS



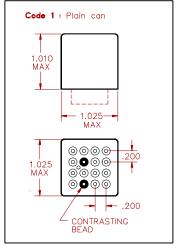
SCHEMATIC TERMINAL VIEW

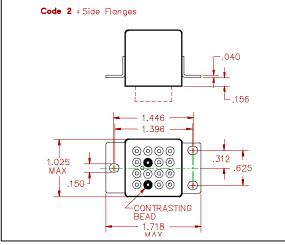


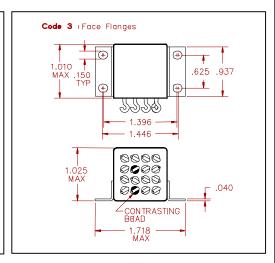
TERMINAL STYLES



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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