



# 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 N	2.2 oz approx.
PERFORMANCE	
Contact Rating (Note 1)	
Resistive	115/208V 400 Hz (Case Grounded)
Motor4 A	(Case Grounded) mps @ 28 VDC or 115/208V 400 Hz (Case Grounded) @ 115/208V 60 Hz
Lamp 2 A	(Case Grounded) mps @ 28 VDC or 115/208V 400 Hz (Case Grounded) @ 115/208V 60 Hz (Case Grounded)
Life100,000 operations re	esistive load, 125°C

Latch/Reset Time:	DC Coil		
Excluding bounce time at nominal coil vol	15 ms max tage		
<b>3</b> *** *** *** *** *** *** *** *** *** *	3		
Contact Bounce Time@ rated contact I			
Contact Voltage Drop:	044, 20 120		
Before Life150 mv max	@ 10 Amps		
	and 6 VDC		
After Life 175 mv max	@ 10 Amps and 6 VDC		
ENVIRONMENTAL			
Temperature Range70°	°C to +125°C		
Vibration (Note 2)			
	70 - 3,000 Hz		
Shock (Operating)(Note 2)	200 G's 6 ms		
ELECTRICAL CHARACTERISTICS			
Duty Cycle	Continuous		
Insulation Resistance1			
	@ 500V 25°C		
Dielectric Strength:			
Sea Level:			
Contact to Case	1,250 VRMS		
Contact to Coil			
Coil to Case			
Across Open Contacts80,000 Feet:	1,250 VRMS		
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All Points ...... 350 VRMS

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

#### Notes

1. For other ratings consult the factory.

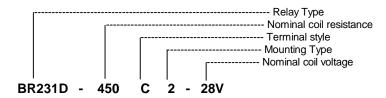
3. AC coil line frequency 50 to 400 Hz.

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

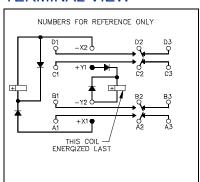


## **COIL DATA**

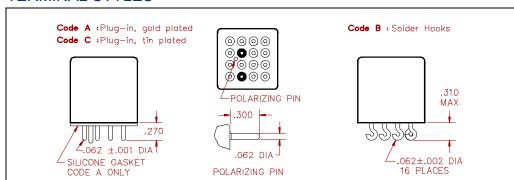
MODEL BR231D PART NUMBER	BR231D-28()()-6V	BR231D-112()()-12V	BR231D-450()()-28V	BR231D-1500()()-48V
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC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



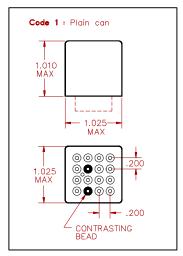
## SCHEMATIC TERMINAL VIEW

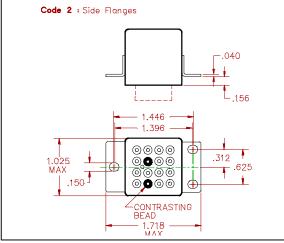


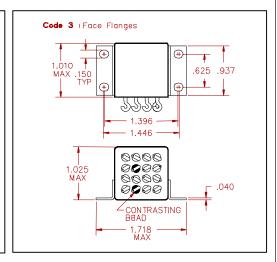
## **TERMINAL STYLES**



## **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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