





SPECIFICATIONS

GENERAL

Contact Arrangement	. 4PDT (4 Form C)
	Magnetic Latching
Weight	2.2 oz approx.
Designed to meet the requirements of	MIL-PRF-83536

PERFORMANCE

Contact Rating (Note 1)	
Resistive	•••

Resistive	
Inductive	
115/208V 400 Hz (Case Grounded)	
(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)	
Lamp 2 Amps @ 28 VDC or	
115/208V 400 Hz	
(Case Grounded)	
1.5 Amps @ 115/208V 60 Hz	
(Case Grounded)	
Life	
resistive load, 125°C	
Latch/Reset Power500 mw approx.	

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

Latch/Reset Time:	DC Coil
Excluding bounce time	15 ms max at nominal coil voltage
Contact Bounce Time	
ENVIRONMENTAL	

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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	
	@ 500V 25°C
Dielectric Strength:	
Sea Level:	
Contact to Case	
Contact to Coil	
Coil to Case	1,000 VRMS
Across Open Contacts	
80.000 Feet:	

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

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 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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