

# Miniature 10 Amps • 2PDT Magnetic Latching **To MIL-PRF-83536**



**Miniature** 10 Amps • 2PDT **Magnetic Latching** To MIL-PRF-83536

# **SPECIFICATIONS**

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Contact Arrangement	2PDT (2 Form C)
•	Magnetic Latching
Weight	1.4 oz approx.
Designed to meet the requirements of I	MIL-PRF-83536

#### **PERFORMANCE**

ontact Rating (Note 1):	
Resistive	10 Amps @ 28 VDC or 115/208V 400 Hz
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inductive	8 Amps @ 28 VDC or 115/208V 400 Hz
	2.5 Amps @ 115/208V 60 Hz
Motor	4 Amps @ 28 VDC or 115/208V 400 Hz
	2 Amps @ 115/208V 60 Hz
Lamp	2 Amps @ 28 VDC or
	115/208V 400 Hz 1.5 Amps @ 115/208V 60 Hz

Life	100,000 operations minimum @ rated
	resistive load, 125°C

Latch/Reset Power ......500 mw approx.

Latch/Reset Time:	DC Coil	AC Coil
	10 ms max	20 ms max
Excluding bounce time at no	ominal coil voltag	е
Contact Bounce Time		1 ms max
	nated contact lo	oad, 28 VDC
Contact Voltage Drop:		
Before Life	100 mv max	@ 10 Amps
		and 6 VDC
After Life	125 mv max	@ 10 Amps
		and 6 VDC

# **ENVIRONMENTAL**

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	100 megohms
	@ 500V 25°C
Dielectric Strength:	
Sea Level:	
Contact to Case	
Contact to Coil	
Coil to Case	1,000 VRMS
Across Open Contacts	1,250 VRMS
80,000 Feet:	

All Points......350 VRMS

#### MIL-PRF-83536/12 QUALIFIED to ER level L

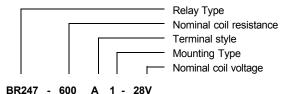
#### Notes

- 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.



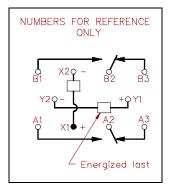
#### **COIL DATA**

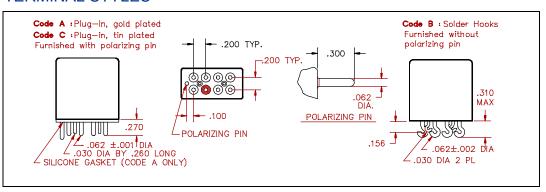
MODEL BR247 PART NUMBER	BR247-38()()-6V	BR247-150()()-12V	BR247-600()()-28V	BR247-1550()()-48V	BR247AC-()()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
LATCH/RESET VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
LATCH/RESET VOLTAGE (MAX)	3 VDC	6 VDC	13 VDC	24 VDC	72 VAC
COIL RESISTANCE ± 10% @ 25°C	38 OHMS	150 OHMS	600 OHMS	1550 OHMS	I = 0.04 AMPS



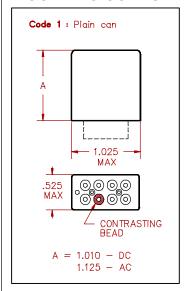
# SCHEMATIC TERMINAL VIEW

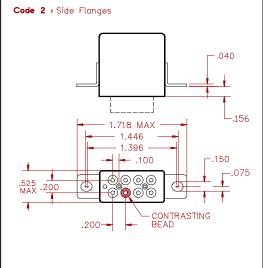
# **TERMINAL STYLES**

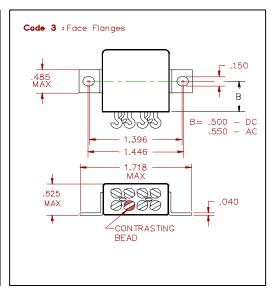




#### **MOUNTING CODES**







# **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 ± .010".
- Specifications contained herein are subject to change without notice.



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