





# Miniature 10 Amps • 4PDT To MIL-PRF-83536

# SPECIFICATIONS

## **GENERAL**

Contact Arrangement	4PDT (4 Form C)
Weight	3.0 oz approx.
Designed to meet the requiren	nents of MIL-PRF-83536

# PERFORMANCE

### 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	
	(Case Grounded) 2 Amps @ 115/208V 60 Hz
	(Case Grounded) 2 Amps @ 28 VDC or 115/208V 400 Hz (Case Grounded)
	1.5 Amps @ 115/208V 60 Hz (Case Grounded)
Life	operations minimum @ rated resistive load, 125°C 500 mw approx.

Operate/Release Time:	DC Coil 15 ms max	AC Coil
Excluding bounce time at no		
Contact Bounce Time		1 ms max
@	rated contact lo	ad, 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		C to +125°C
Vibration (Note 2)		
		0 - 3,000 Hz
Shock (Operating)(Note 2)		

# ELECTRICAL CHARACTERISTICS

Duty Cycle Insulation Resistance	
Dielectric Strength:	U U
Sea Level:	
Contact to Case	1,250 VRMS
Contact to Coil	
Coil to Case	1,000 VRMS
Across Open Contacts	1,250 VRMS
80,000 Feet:	
All Points	350 VRMS

#### MIL-PRF-83536/15 QUALIFIED to ER level M

#### 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.

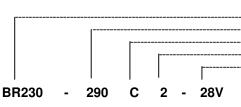
April 2015 Rev. 8



## COIL DATA

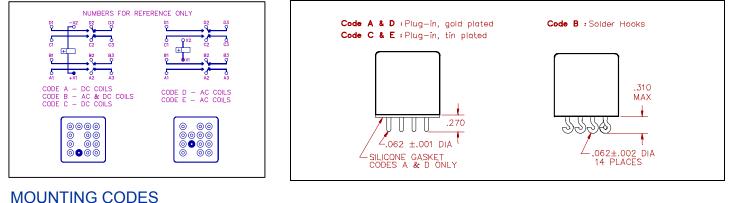
MODEL BR230 PART NUMBER	BR230-20()()-6V	BR230-78()()-12V	BR230-290()()-28V	BR230-890()()-48V	BR230AC-()()-115V (Note 3)
NOMINAL COIL VOLTAGE	6 VDC	12 VDC	28 VDC	48 VDC	115 VAC
MAXIMUM COIL VOLTAGE	8 VDC	15 VDC	29 VDC	59 VDC	122 VAC
PULL IN VOLTAGE (MAX @ +125°C)	4.5 VDC	9 VDC	18 VDC	36 VDC	90 VAC
DROP OUT VOLTAGE (MAX)	1.8 VDC	3.5 VDC	5.1 VDC	11 VDC	5 - 30 VAC
COIL RESISTANCE ± 10% @ 25°C	20 OHMS	78 OHMS	290 OHMS	890 OHMS	I = 0.04 AMPS

------ Relay Type ----- Nominal coil resistance ----- Terminal style ----- Mounting Type ----- Nominal coil voltage



SCHEMATIC TERMINAL VIEWS

# **TERMINAL STYLES**



#### Code 3 : Face Flanges Code 2 : Side Flanges Code 1 : Plain can (#) (# T T 1.010 1.010 MAX .040 .625 .937 MAX .150 (# (# - 156 1.396 1.025 1.446 1.446 MAX 1.396 0000 0000 0000 $\oplus$ .200 T 0 00 .312 1.025 MAX 0 $\odot \odot$ 1.025 MAX 1.025 $\odot$ - 1 Ť .625 0 00 MAX $\odot$ .040 **000** .150 ] 0000 $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ ( CONTRASTING BEAD - .200 CONTRASTING BEAD CONTRASTING 1.718 MAX 1.718 MAX BEAD

# **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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