

# Crystal Can Welded • DPDT Dry Circuit to 5 Amps



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# **SPECIFICATIONS**

# **GENERAL**

#### PERFORMANCE

Resistive:

#### Contact Rating (Note 1)

**Contact Bounce Time:** 

BR13 ...... 5 Amps @ 28 VDC BR13H......3 Amps @ 28 VDC or 2 Amps @ 115 VAC, 400 Hz (Case Ungrounded) BR13K......2 Amps @ 28 VDC 115 VAC, 400 Hz (Case Ungrounded) Inductive ...... 1 Amp @ 28 VDC Low Level ...... 10-50 µA @ 10-50 mv DC or peak AC (Note 4) Pull In Power: BR13......250 mw approx. BR13H......100 mw approx. BR13K ......40 mw approx. **Operate/Release Time:** BR13.....5 ms max BR13H.....6 ms max BR13K ...... 15 ms max excluding bounce time at nominal coil voltage

#### **Contact Resistance:**

#### **ENVIRONMENTAL**

Temperature Range ..... -65°C to +125°C

Vibration (Note 2):

BR13...... 0.4" DA 10 - 38 Hz,

20 G's 38 - 2,000 Hz

BR13H and BR13K.... 0.4" DA 10 - 31 Hz,

20 G's 31 - 2,000 Hz

Shock (Operating) (Note 2) ..... 50 G's 11 ms

#### **ELECTRICAL CHARACTERISTICS**

# **Dielectric Strength:**

70,000 Feet

Sea Level:	
Contact to Case	1,000 VRMS
Contact to Coil	1,000 VRMS
Coil to Case	1,000 VRMS
Across Open Contacts:	
BR13 and BR13H	750 VRMS
BR13K	500 VRMS

#### Notes

 For case grounded loads and other ratings, consult the factory.

BR13 and BR13H ......2 MS max @ 2 and 3 Amps

BR13K ...... 2 MS max @ 2 Amps 28 VDC

- 2. For applications requiring other shock and vibration levels, consult the factory.
- 3. For other ratings consult the factory.
- 4. Relay contacts which have switched high level currents are no longer suitable for switching low level loads.

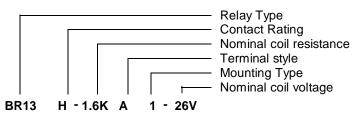
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@ 28 VDC

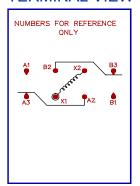


## **COIL DATA**

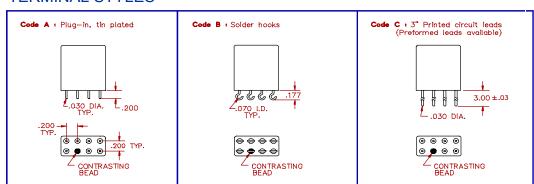
PART NUMBER MODEL BR13 — 5 Amps (3 MODEL BR13H — 3 Amps ( MODEL BR13K — 2 Amps (	100 MW)	BR13-36()()-6V BR13H-85()()-6V BR13K-220()()-6V	BR13-140()()-12V BR13H-350()()-12V BR13K-850()()-12V	BR13-675()()-26V BR13H-1.6K()()-26V BR13K-4K()()-26V	BR13-12K()()-115V BR13H-28K()()-115V BR13K-40K()()-115V
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	115 VDC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	127 VDC
PULL IN VOLTAGE (MAX at +125°C)		4.4 VDC	8.4 VDC	18 VDC	79 VDC
PULL IN VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC	57.5 VDC
DROP OUT VOLTAGE (MIN)		0.3 VDC	0.6 VDC	1.3 VDC	5.7 VDC
COIL RESISTANCE ± 10% at 25°C	BR13	36 OHMS	140 OHMS	675 OHMS	12K OHMS
	BR13H	85 OHMS	350 OHMS	1600 OHMS	28K OHMS
	BR13K	220 OHMS	850 OHMS	4000 OHMS	40K OHMS (MAX.)



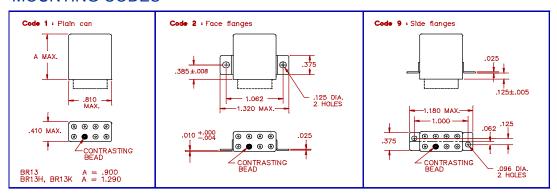
# SCHEMATIC TERMINAL VIEW



# **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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