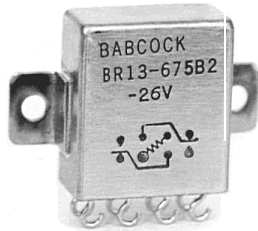


Crystal Can Welded • DPDT Dry Circuit to 5 Amps



Crystal Can Welded • DPDT Dry Circuit to 5 Amps

SPECIFICATIONS

GENERAL

Contact Arrangement 2PDT (2 Form C)
Weight 1.3 oz approx.
 Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)

Resistive:
 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 μ A @ 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 Bounce Time:

BR13 and BR13H 2 MS max @ 2 and 3 Amps
 @ 28 VDC
 BR13K 2 MS max @ 2 Amps 28 VDC

Contact Resistance:

Before Life 0.050 Ohms @ rated current
 and 6 VDC
 After Life 0.100 Ohms @ rated current
 and 6 VDC

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

Duty Cycle Continuous
Insulation Resistance .. 10,000 megohms @ 500V 25°C
 1,000 megohms @ 500V 125°C

Dielectric Strength:

Sea Level:

Contact to Case 1,000 VRMS
 Contact to Coil 1,000 VRMS
 Coil to Case 1,000 VRMS

Across Open Contacts:

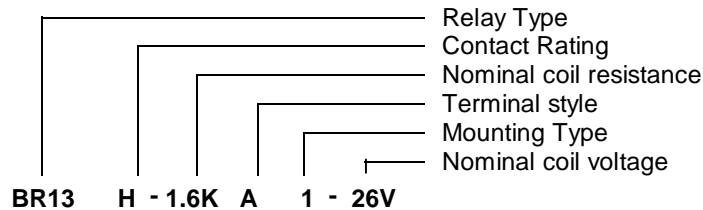
BR13 and BR13H 750 VRMS
 BR13K 500 VRMS
 70,000 Feet
 All points 350 VRMS

Notes

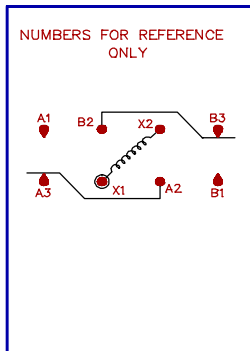
- For case grounded loads and other ratings, consult the factory.
- For applications requiring other shock and vibration levels, consult the factory.
- For other ratings consult the factory.
- Relay contacts which have switched high level currents are no longer suitable for switching low level loads.

COIL DATA

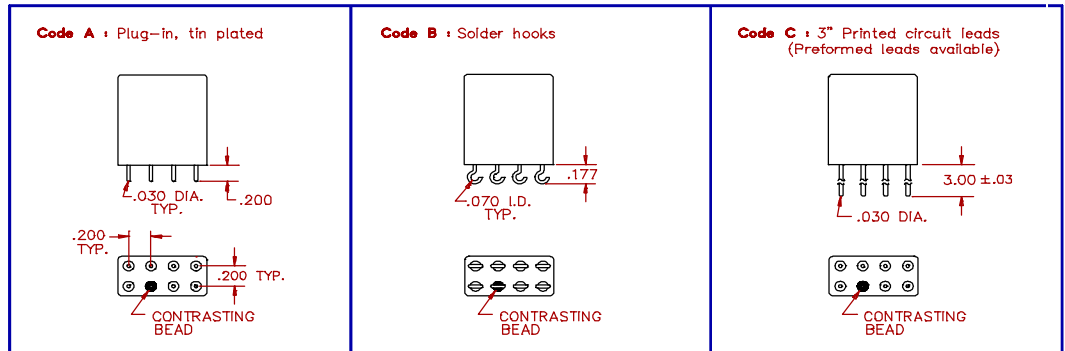
PART NUMBER		BR13-36() MODEL BR13 — 5 Amps (250 MW)	BR13-140() MODEL BR13H — 3 Amps (100 MW)	BR13-675() MODEL BR13K — 2 Amps (40 MW)	BR13-12K() MODEL BR13H-85() MODEL BR13K-220()	BR13-140() MODEL BR13H-350() MODEL BR13K-850()	BR13-675() MODEL BR13H-1.6K() MODEL BR13K-4K()	BR13-12K() MODEL BR13H-28K() MODEL BR13K-40K()
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.)			



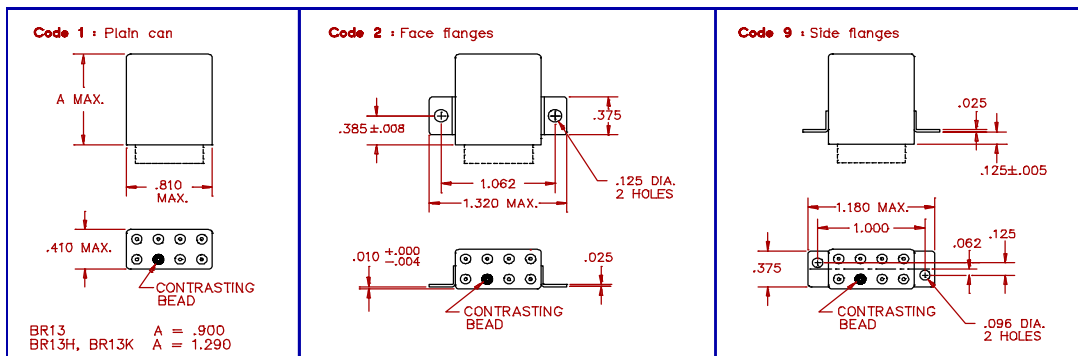
SCHEMATIC TERMINAL VIEW



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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