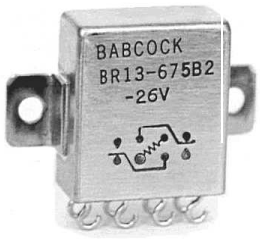
Crystal Can Welded • DPDT Dry Circuit to 5 Amps



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 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 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:

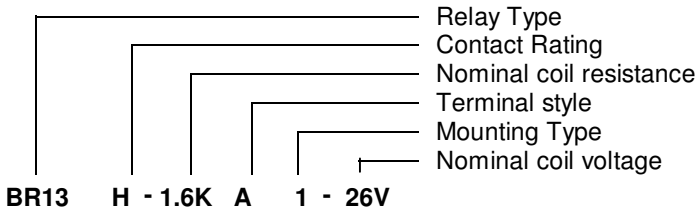
Sea Level:
- Contact to Case ..... 1,000 VRMS
- Contact to Coil ..... 1,000 VRMS
- Coil to Case ..... 1,000 VRMS
- Across Open Contacts:
  - BR13 and BR13H ..... 750 VRMS
  - BR13K..... 500 VRMS

70,000 Feet
- All points..... 350 VRMS

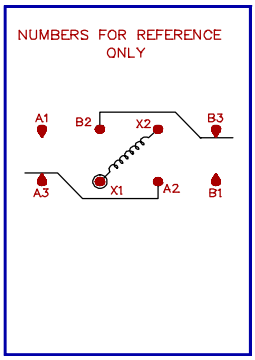
Notes
1. For case grounded loads and other ratings, consult the factory.
2. For applications requiring other shock and vibration levels, consult the factory.
3. For other ratings consult the factory.
4. Relay contacts which have switched high level currents are no longer suitable for switching low level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

COIL DATA

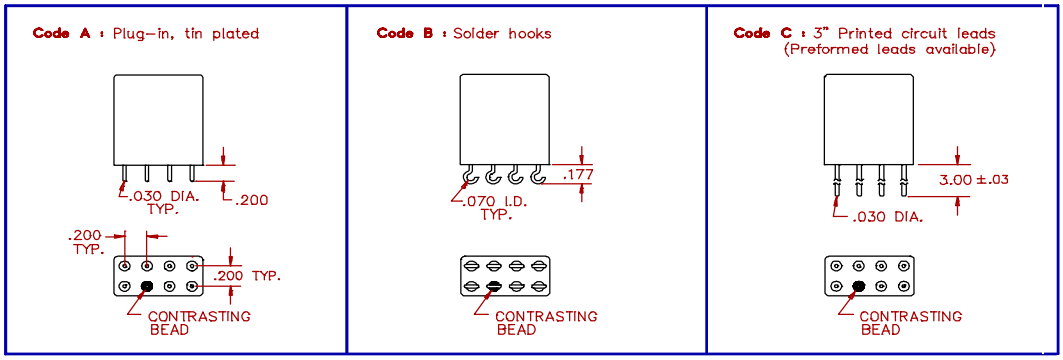
PART NUMBER MODEL BR13 — 5 Amps (250 MW) MODEL BR13H — 3 Amps (100 MW) MODEL BR13K — 2 Amps (40 MW)		BR13-36()()-6V BR13H-85()()-6V BR13K-220()()-6V	BR13-140()()-12V BR13H-350()()-12V BR13K-850()()-12V	BR13-675()()-26V BR13H-1.6K()()-26V BR13K-4K()()-26V	BR13-12K()()-115V BR13H-28K()()-115V BR13K-40K()()-115V
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.)



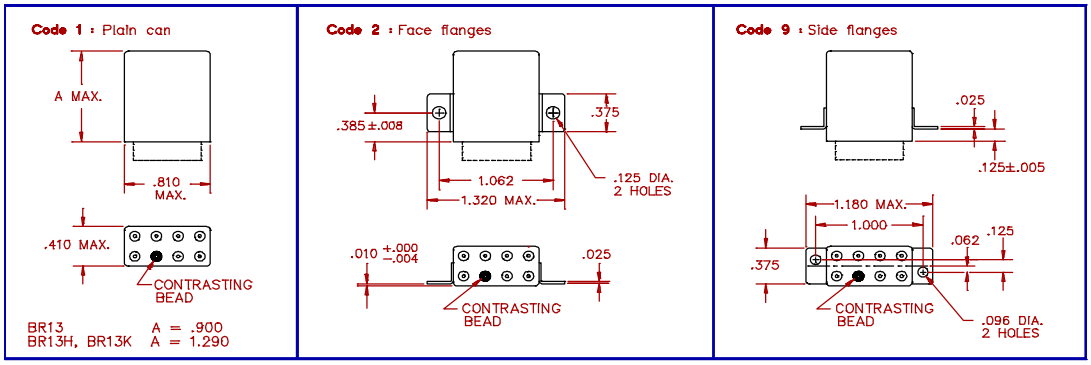
SCHEMATIC TERMINAL VIEW



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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