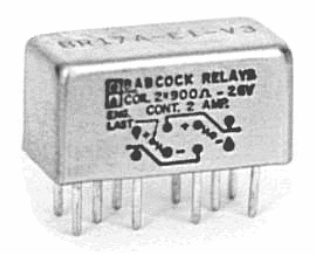
BABCOCK INC.

BR17



Half-Size Crystal Can
Welded • DPDT
Dry Circuit to 2 Amps

Welded • DPDT

- **UNIVERSAL CONTACTS…**permit operation from dry circuit to rated load with the same contact set.
- **UNIQUE HEAT SINK/MAGNETIC FLUX CONDUCTOR…**improves heat dissipation characteristics— insures lower temperature rise.
- **SPECIALLY-DESIGNED MAGNETIC CIRCUIT…**locates armature inside coil for more efficient switching action.

SPECIFICATIONS

GENERAL

Contact Arrangement ..... 2PDT (2 Form C) Magnetic Latching

Weight ..... 0.25 oz approx.

Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)

Resistive ..... 2 Amps @ 28 VDC or 115V 400 Hz (Case Ungrounded)

Low Level ..... 10-50 µA @ 10-50 mv DC or peak AC (Note 4)

Latch/Reset Power:

BR17A and BR17M ..... 175 mw approx.

BR17B ..... 90 mw approx.

Latch/Reset Time ..... 3 ms max, excluding bounce time at nominal coil voltage

Contact Bounce Time ..... 2 ms max @ 2 Amps 28 VDC

Contact Resistance

Before Life ..... .0.050 Ohms max @ rated current, 6 or 28 VDC

After Life ..... 0.100 Ohms max. @ rated current, 6 or 28 VDC

ENVIRONMENTAL

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

Vibration (Note 2) ..... 0.4" DA 10 - 38 Hz, 20 G's 38 - 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:

Between Coils (BR17A & M) ..... 500 VRMS

Contact to Case ..... 1,000 VRMS

Contact to Coil ..... 1,000 VRMS

Coil to Case ..... 500 VRMS

Across Open Contacts ..... 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.
5. Contacts were placed in the position shown by placing voltage with the polarity shown on the indicated coil (reset). To switch contacts, a voltage of indicated polarity must be applied to the other coil (Latch).
6. Contacts were placed in position shown by placing voltage with the polarity indicated on the coil. To switch contacts a voltage of the reverse polarity must be applied to the coil.

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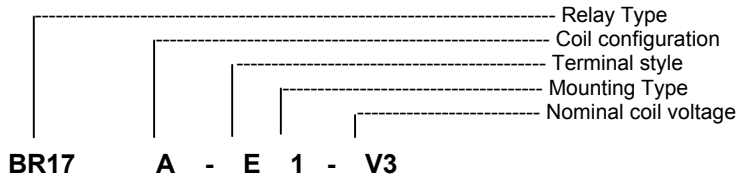
BABCOCK INC.

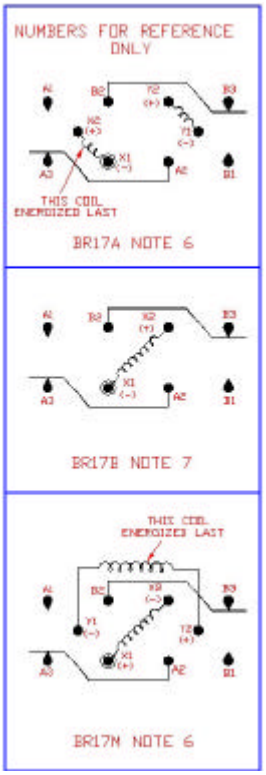
BR17

COIL DATA:

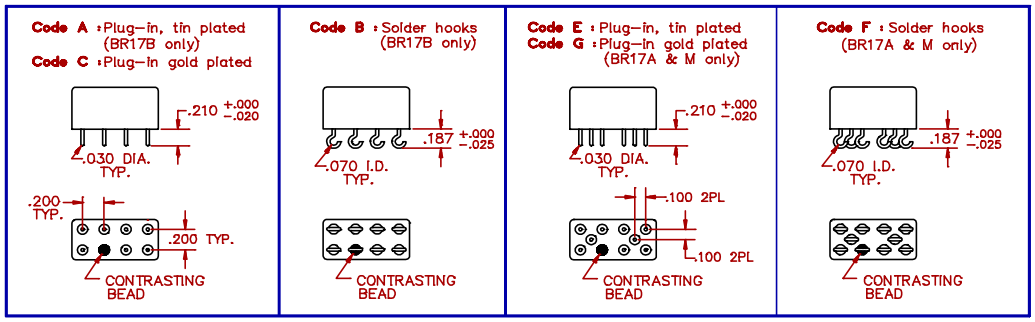
PART NUMBER MODELS BR17A & BR17M MODEL BR17B		BR17A-()()-V1 BR17M-()()-V1 BR17B-()()-V1	BR17A-()()-V2 BR17M-()()-V2 BR17B-()()-V2	BR17A-()()-V3 BR17M-()()-V3 BR17B-()()-V3
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC
LATCH/RESET VOLTAGE (MAX @ +125°C)		4.4 VDC	8.4 VDC	18 VDC
LATCH/RESET VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC
COIL RESISTANCE ± 10% @ 25°C	BR17A&M	50 OHMS	190 OHMS	900 OHMS
	BR17B	90 OHMS	340 OHMS	1500 OHMS



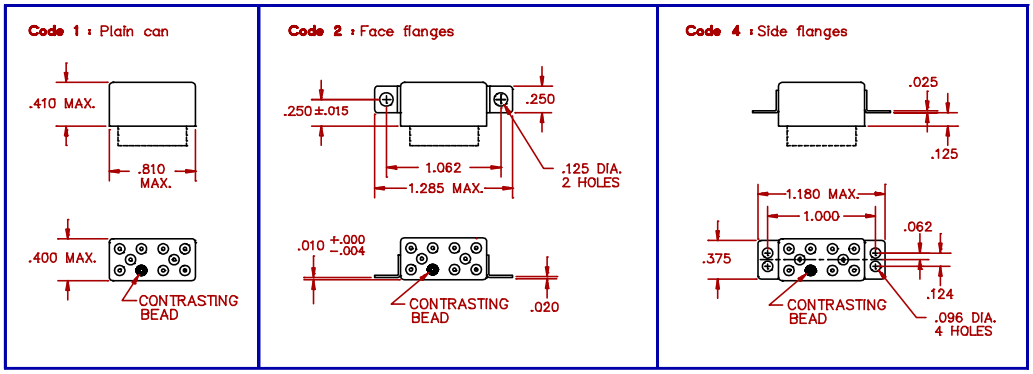
SCHEMATIC TERMINAL VIEW



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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