



Crystal Can Welded • 4PDT Magnetic Latching Dry Circuit to 10 Amps

- **PATENTED CONTACT STRUCTURE?** for the most reliable 10-amp magnetic latching relay in the industry
- **AVAILABLE WITH BIFILAR WOUND COIL?** for inductive spike suppression
- **SPACE ENVIRONMENT VERSIONS?** can be manufactured under extreme high-reliability controls

SPECIFICATIONS

GENERAL

Contact Arrangement 4PDT (4 Form C)
Magnetic Latching

Weight 3.0 oz approx.
Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)
Resistive 10 Amps @ 28 VDC or 115V 400 Hz
(Case Ungrounded)

Inductive 3.5 Amps @ 28 VDC

Life 100,000 operations minimum
@ rated load, 125°C

Latch/Reset Power:

BR23AX 500 mv approx.
BR23BX 250 mw approx.

Latch/Reset Time 10 ms max, excluding
bounce time at nominal coil voltage

Contact Bounce Time 2 ms max
@ 10 Amps 28 VDC

Contact Voltage Drop:

Before Life 100 mv max @ rated current
6 or 28 VDC

After Life 200 mv 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:

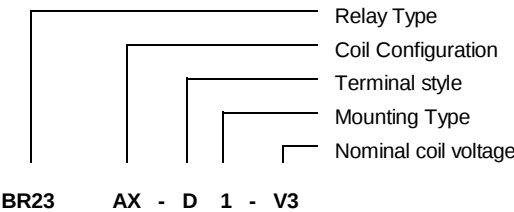
Sea Level:
Between Coils (BR23AX) 500 VRMS
Contact to Case 1,250 VRMS
Contact to Coil 1,250 VRMS
Coil to Case 1,000 VRMS
Across Open Contacts 1,250 VRMS
70,000 Feet
All points 500 VRMS

Notes:

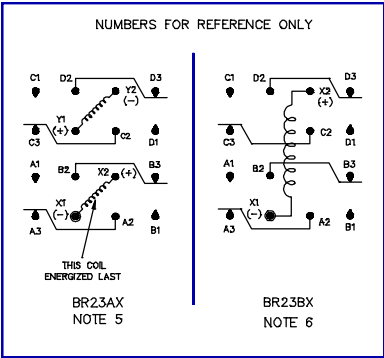
1. For case grounded loads and other ratings, consult the factory.
2. For applications requiring other shock and vibration levels, consult the factory.
3. For other ratings consult the factory.
4. Relay contacts which have switched high level currents are no longer suitable for switching low level loads.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

COIL DATA:

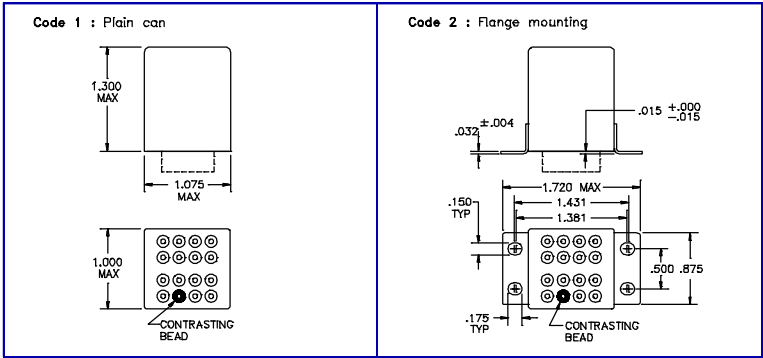
PART NUMBER MODEL BR23AX — 10 Amps (Each Coil, 500 MW) MODEL BR23BX — 10 Amps (Single Coil, 250 MW)		BR23AX-00-V1 BR23BX-00-V1	BR23AX-00-V2 BR23BX-00-V2	BR23AX-00-V3 BR23BX-00-V3	BR23AX-00-V4 BR23BX-00-V4	BR23AX-00-V5 BR23BX-00-V5
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	48 VDC	115 VDC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	59 VDC	127 VDC
LATCH/RESET VOLTAGE (MAX at +125°C)		4.4 VDC	8.4 VDC	18 VDC	34.5 VDC	79 VDC
LATCH/RESET VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC	24 VDC	57.5 VDC
COIL RESISTANCE ± 10% at 25°C	BR23AX	15 OHMS	60 OHMS	300 OHMS	1100 OHMS	5,000 OHMS
	BR23BX	37 OHMS	125 OHMS	600 OHMS	2200 OHMS	10,000 OHMS



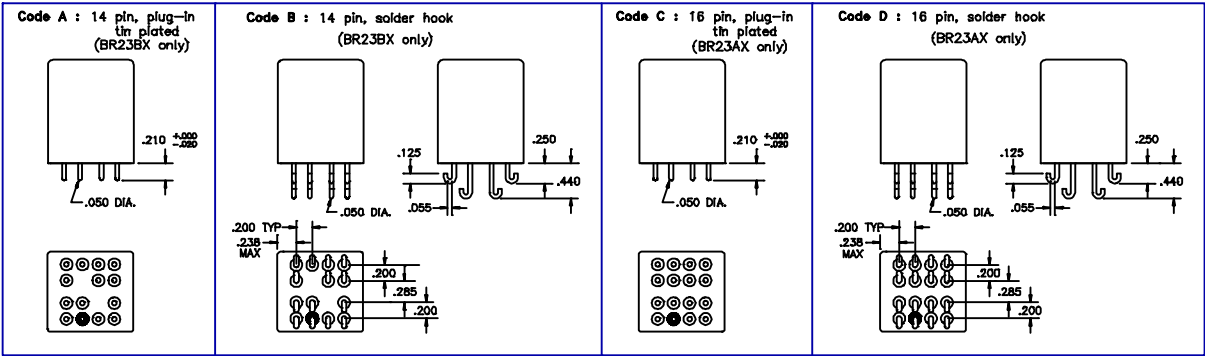
SCHEMATIC
TERMINAL VIEW



MOUNTING CODE



TERMINAL STYLES



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.