



Crystal Can Welded • DPDT Magnetic Latching Dry Circuit to 10 Amps

SPECIFICATIONS

GENERAL

Contact Arrangement	. 2PDT (2 Form C)
•	Magnetic Latching
Weight	5
Designed to meet the requirements of	MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1):	
Resistive10 Amps @	28 VDC or 115V 400 Hz
	(Case Ungrounded)
Inductive	•
Life100,	
	@ rated load, 125°C
Latch/Reset Power:	
BR20AX	
BR20BX	
Latch/Reset Time	
	ne at nominal coil voltage
Contact Bounce Time	2 ms max @ 10 Amps
	28 VDC
Contact Voltage Drop:	_
Before Life 100	
	6 or 28 VDC
After Life200	
	6 or 28 VDC

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.

ENVIRONMENTAL

Temperature Range	
Vibration (Note 2)	
	20 G's 38 - 2,000 Hz
Shock (Operating) (Note 2)	50 G's 11 ms

ELECTRICAL CHARACTERISTICS

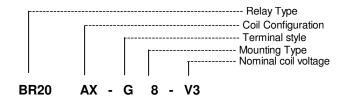
Duty Cycle	Continuous		
Insulation Resistance			
	10,000 megohms @ 500V 25°C		
	1,000 megohms @ 500V 125°C		
Dielectric Strength:			
Sea Level:			
Between Coils (BR	20AX) 500 VRMS		
Contact to Case			
Contact to Coil			
Coil to Case	1,000 VRMS		
Across Open Cont	acts 1,250 VRMS		
70,000 Feet			
All points	500 VRMS		

- 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.

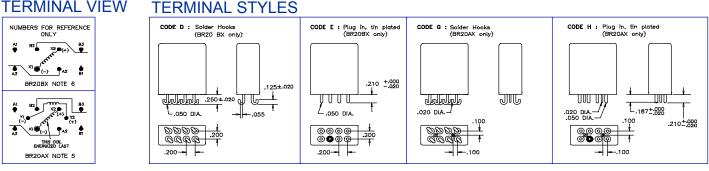


COIL DATA

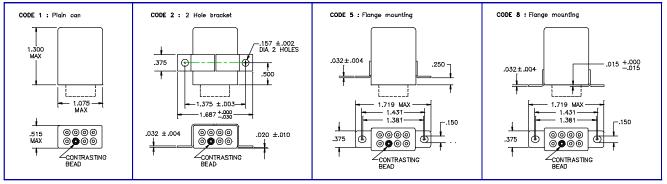
PART NUMBER MODEL BR20AX — 10 Amps (Dual Coil. MODEL BR20BX — 10 Amps (Single Co		BR20AX-()()-V1 BR20BX-()()-V1	BR20AX-()()-V2 BR20BX-()()-V2	BR20AX-()()-V3 BR20BX-()()-V3	BR20AX-()()-V4 BR20BX-()()-V4	BR20AX-()()-V5 BR20BX-()()-V5
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	48 VDC	115 VDC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	59 VDC	127 VDC
LATCH/RESET VOLTAGE (MA	X at +125°C)	4.4 VDC	8.4 VDC	18 VDC	33 VDC	79 VDC
LATCH/RESET VOLTAGE (MA	X)	3 VDC	6 VDC	13 VDC	24 VDC	57.5 VDC
COIL RESISTANCE ± 10% at 25°C	BR20AX	30 OHMS	120 OHMS	600 OHMS	2200 OHMS	10,000 OHMS
	BR20BX	65 OHMS	250 OHMS	1200 OHMS	4500 OHMS	20,000 OHMS



SCHEMATIC TERMINAL VIEW



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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