Crystal Can
Welded • DPDT
Dry Circuit to 5 and 10 Amps

- **AVAILABLE WITH ARC SHIELDS…**for grounded case operation on 115 VAC loads, to 10 Amps.

SPECIFICATIONS

GENERAL

Contact Arrangement .....2PDT (2 Form C)
Weight.....1.4 oz approx.
Designed to meet the requirements of MIL-PRF-39016.

PERFORMANCE

Contact Rating (Note 1)

Resistive:
BR19X.....10 Amps @ 28 VDC or 115V 400 Hz (Case Ungrounded)
BR19Y.....5 Amps @ 28 VDC or 115V 400 Hz (Case Ungrounded)

Inductive:
BR19X.....3.5 Amps @ 28 VDC
BR19Y.....1.75 Amps @ 28 VDC

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

Pull In Power:
BR19X.....500 mw approx.
BR19Y.....175 mw approx.

Operate/Release Time:	**DC Coil**	**AC Coil**
BR19X	7.0 ms max	20 ms max
BR19Y	8.5 ms max	20 ms max

Excluding bounce time at nominal coil voltage

Contact Bounce Time.....2 ms max @ rated contact load, 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:
Contact to Case.....1,250 VRMS
Contact to Coil.....1,250 VRMS
Coil to Case.....1,000 VRMS
Across Open Contacts
BR19X.....1,250 VRMS
BR19Y.....1,000 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.

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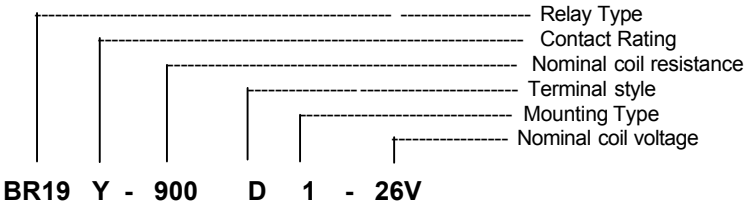
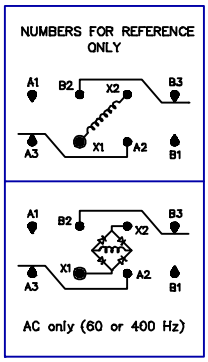
COIL DATA

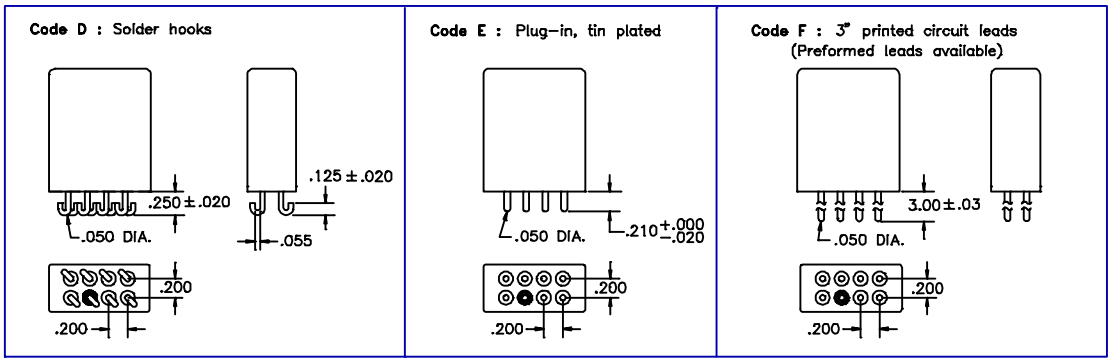
PART NUMBER MODEL BR19Y — 5 Amps (175 MW) MODEL BR19X — 10 Amps (500 MW)		BR19Y-50()()-6V BR19X-16()()-6V	BR19Y-190()()-12V BR19X-65()()-12V	BR19Y-900()()-26V BR19X-300()()-26V	BR19Y-2.8K()()-48V BR19X-950()()-48V	BR19Y-15K()()-115V BR19X-5.5K()()-115V	BR19Y-AC()()-115V BR19X-AC()()-115V
NOMINAL COIL VOLTAGE		6 VDC	12 VDC	26 VDC	48 VDC	115 VDC	115 VAC
MAXIMUM COIL VOLTAGE		7.3 VDC	14.8 VDC	32 VDC	59 VDC	127 VDC	127 VAC
PULL IN VOLTAGE (MAX @ +125°C)		4.4 VDC	8.4 VDC	18 VDC	33 VDC	79 VDC	79 VAC
PULL IN VOLTAGE (MAX)		3 VDC	6 VDC	13 VDC	24 VDC	57.5 VDC	57.5 VAC
DROP OUT VOLTAGE (MIN)		0.3 VDC	0.6 VDC	1.3 VDC	2.4 VDC	5.7 VDC	5.7 VAC
COIL RESISTANCE ± 10% @ 25°C	BR19Y	50 OHMS	190 OHMS	900 OHMS	2.8K OHMS	15K OHMS	AC
	BR19X	16 OHMS	65 OHMS	300 OHMS	950 OHMS	5.5K OHMS	AC



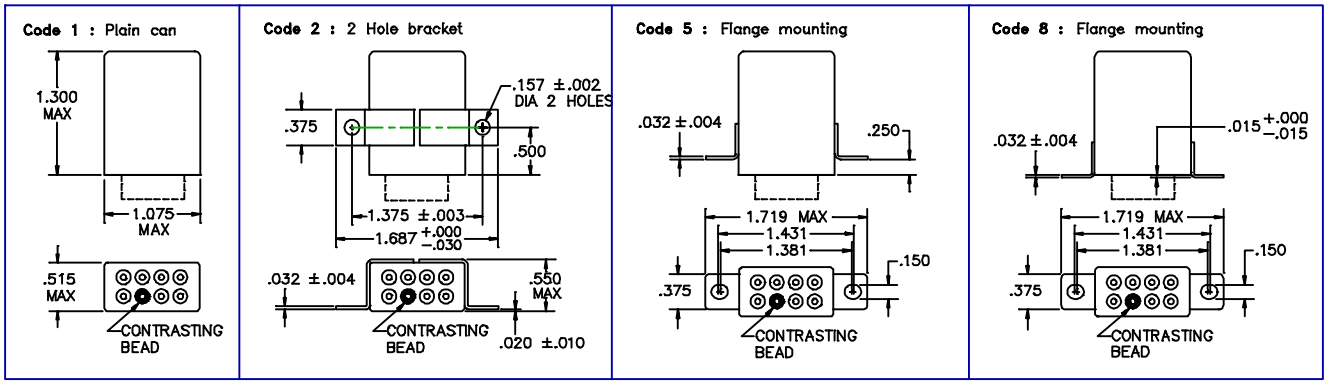
SCHEMATIC TERMINALVIEW



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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