REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL DRAWN	15NOV2019	RV	MB

Standard Coil Data

Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±10% @ 25°C	Pickup Voltage Vdc (Max.) @ 25°C	Pickup Voltage Vdc (Max.) @ 125°C	Pickup Voltage Vdc (Min.) @ 25°C	Pickup Voltage Vdc (Min.) @ -65°C	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.
5.0	45	2.7	3.8	1.6	1.0	556	6.7	5
6.0	63	3.25	4.5	2.0	1.3	571	8.0	6
12.0	254	6.5	9.0	4.0	2.6	567	16.0	12
26.5	1,000	13.0	18.0	8.0	5.2	702	32.0	24
48.0	3,800	26.0	36.0	16.0	10.4	606	64.0	48

Ordering Instructions

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the six relay characteristics in the order in which the codes are listed.

Specifying a Part Number Example:	Type	Mountings	Contacts	Coils	Terminals
	LS	BW-	2C-	24	B

Electrical Characteristics

Contact Arrangement —
2 Form C (DPDT)

Contact Material —
Stationary —
Gold plated hardened silver alloy
Moveable —
Gold plated hardened silver alloy

Contact Resistance —
Before Life — 50 milliohms max.
(measured at 10 mA @ 6 Vdc)
After Life — 100 milliohms max.
(measured @ 2 A @ 28 Vdc)

Mechanical Life Expectancy —
1 million operations min.

Coil Voltage — 5 to 48 Vdc

Coil Power — 1.0 watts max.

Duty Cycle — Continuous

Pick-up Voltage — Approximately 50% of nominal coil voltage

Pick-up Sensitivity — 170 mW

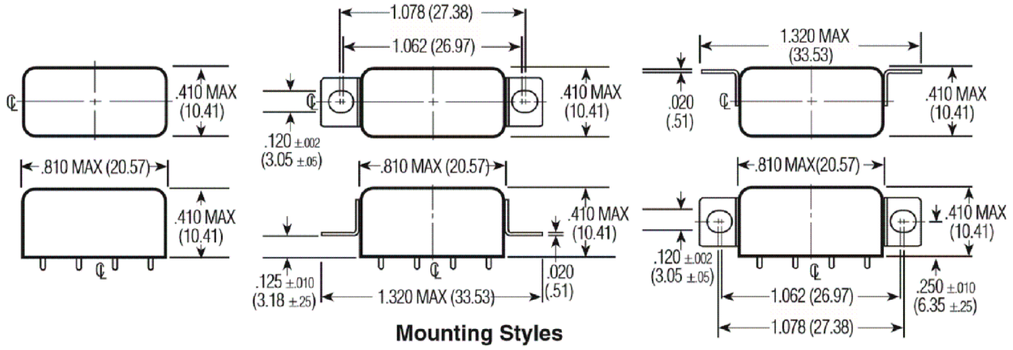
Contact Ratings

Contact Load	Type	Operations Min.
2 A @ 28 Vdc	Resistive	100,000
0.3 A @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000
0.75 A @ 28 Vdc	Inductive (200mH)	100,000
0.1 A @ 28 Vdc	Intermediate	50,000
0.160 A @ 28 Vdc	Lamp	100,000
30 µA @ 50 mVdc	Low Level	1,000,000

RF Performance

Frequency (MHz)	RF Losses (dB)	VSWR	Isolation (dB)
100	0.1	1.15:1	38
500	0.3	1.19:1	31
1000	0.6	1.32:1	45

AW **BW** **EW**



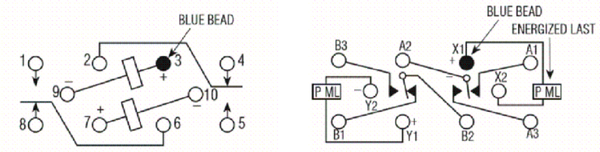
Mounting Styles

ALL DIMENSIONS ARE IN INCHES(MM).

LS

Magnetic Latching Half Size High Performance Relay

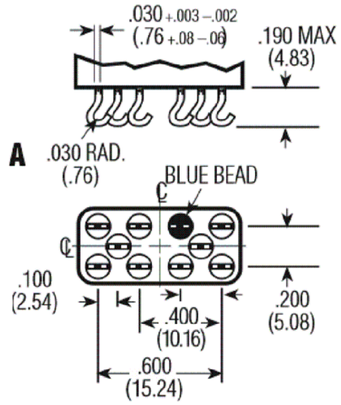
DESIGNED to MIL-R-39016/45



Terminal View

Standard Schematic Contacts will switch from the indicated position when either coil is energized with polarity as shown.

MIL-R-39016/45 SCHEMATIC Contacts will switch from the indicated position when either coil is energized with polarity as shown.



LS Terminals

Product Facts

- **Hermetically sealed**
- **Up to 2 amps switching**
- **High shock & vibration ratings**
- **Optional terminals & mounting styles**
- **Latching design**

Operating Characteristics

Timing —
Set-Reset Time — 5.0 ms max.

Contact Bounce —
2.0 ms max.

Dielectric Withstanding Voltage —
Between Open Contacts —
500 Vrms 60 Hz
Between Adjacent Contacts —
1000 Vrms 60 Hz
Between Contacts and Coil —
1000 Vrms 60 Hz

Insulation Resistance —
10,000 megohms min. @ 500 Vdc

Environmental Characteristics

Temperature Range —
-65°C to +125°C

Weight — .46 oz (13 gms) max.

Vibration Resistance —
Standard — 20 G's, 10 to 2,000 Hz
QPL Equiv. — 30 G's, 10 to 2,500 Hz

Shock Resistance —
100 G's, 6 ±1 ms

QPL Equivalent —
MIL-R-39016/45

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± –
3 PLC ± –
4 PLC ± –
ANGLES ± –

MATERIAL –
FINISH –

DWN	RV	15NOV2019
CHK	RV	15NOV2019
APVD	MB	15NOV2019
PRODUCT SPEC	–	
APPLICATION SPEC	–	
WEIGHT	–	

TE Connectivity

NAME C–LS–BW–SERIES – –

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	–	C–LS–BW–SERIES	–

CUSTOMER DRAWING | SCALE NTS | SHEET 1 OF 1 | REV A

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