

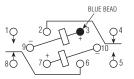
LS

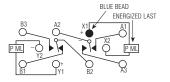
Double Pole, Magnetic Latching, 2 Amps and Less

Magnetic Latching Half Size High Performance Relay DESIGNED to

LS







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.

Product Facts

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

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	Туре	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

38
33
31
45
1

For additional support numbers

please visit www.te.com



Double Pole, Magnetic Latching, 2 Amps and Less (Continued)

LS (Continued)

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 -

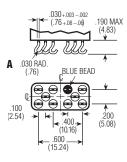
Standard — 20 G's, 10 to 2,000 Hz QPL Equiv. — 30 G's, 10 to 2,500 Hz

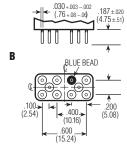
Shock Resistance —

100 G's, 6 ±1 ms

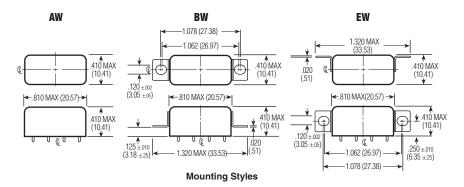
QPL Equivalent –

MIL-R-39016/45





LS Terminals



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	<u>Mountings</u>	<u>Contacts</u>	<u>Coils</u>	<u>Terminals</u>
	LS	BW-	2C-	24	В

to change.