

SHALCO

Low Voltage Bi-Stable Relay



Features:

- ◆ The Contact Rating: 12 ~ 60VDC
- ◆ Switching Current available: 50A and 100A Versions
- ◆ Contact and Coil Instantaneous Voltage: Up to 2.5 KV

Ordering Information:

LVB 50 L

① ② ③ ④ ⑤ ⑥ ⑦

① Series Designation

② Rated Operating Current: "50" = 50A
"100" = 100A

③ L: Latching

④ Rated Coil Voltage: "12" = 12VDC; "24" = 24VDC;
"48" = 48VDC

⑤ Terminal Connect Method: "-" : Stud Type; "B": Screw Type

⑥ Installation Mode - Base Install

⑦ Customization Code: 01~99

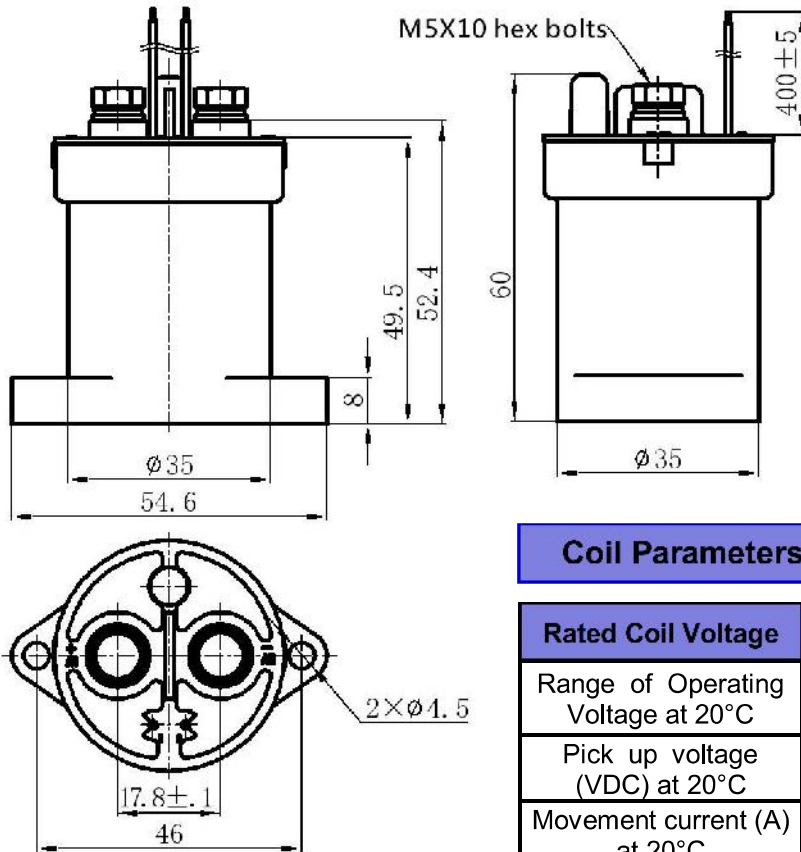
For example: "LVB50L24" means: DC contactor latching type, rated current is 50A at DC-1 load, coil voltage is DC 24V, base install.

P.O. Box 1089, 308 Components Drive, Smithfield, North Carolina 27577

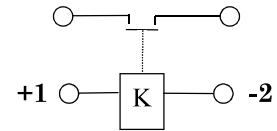
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Outline Drawing



Circuit Diagram



SIZE (mm)	DEVIATION (mm)
0 ~ 30	± 0.3
30 ~ 60	± 0.5
> 60	± 1

Coil Parameters:

Rated Coil Voltage	12V DC	24V DC	48V DC
Range of Operating Voltage at 20°C	85%Us ~ 110%Us	85%Us ~ 110%Us	85%Us ~ 110%Us
Pick up voltage (VDC) at 20°C	9.6	19.2	38.4
Movement current (A) at 20°C	≤0.6	≤0.6	≤0.6
Coil Drive Plus Width	500ms~1s	500ms~1s	500ms~1s

Performance Parameters:

Parameter	Unit	50 Amp Version	100 Amp Version
Main contact form	/	Normally Open	Normally Open
Rated operating voltage	VDC	12~60	12~60
Rated load current capacity	A	50 (DC-1)	100 (DC-1)
Contact voltage drop	mV	≤80@100A	≤80@100A
Close time (movement time)	ms	30 Max.	30 Max.
Release time	ms	30Max.	30Max.
Contact bounce time	ms	5Max.	5Max.
Load life	time	10000	10000
Mechanical life	time	1,000,000	1,000,000
Insulation resistance	MΩ	100 (at 500VDC)	100 (at 500VDC)
Breakdown voltage	VAC	2500VAC 50 Hz/60 Hz (1 minute)	2500VAC 50 Hz/60 Hz (1 minute)
Operating temperature	°C	-40~+85	-40~+85
Operating humidity	/	5%~90%	5%~90%
Shock, 11ms, 1/2 Sine, peak value	G	20	20
Vibration, sine, 80~2000Hz, peak value	G	20	20
Rated working form	/	Uninterrupted	Uninterrupted
Weight (Approx.)	g	170	170
Installing mode	/	Any	Any