Features

- 100A Contact switching capability latching relay
- PCB mounting, easy installation
- Multiple ways of pin installation upon request
- Environmental friendly product RoHS compliant
- Dimensions: 58.0 x 40.0 x 20.8 mm



Application

Smart Home Application / Electric Meter / Mechanical Electrical Equipment / Automatic Control System, etc.

Contact Data

Contact Arrangement	1A, 1B
Contact Material	Ag Alloy
Contact Rating	100A 250VAC
Max. Switching Power	25000VA
Max. Switching Voltage	250VAC
Max. Switching Current	100A
Contact Resistance	\leq 1m Ω (1A 6VDC)
Max. Short-Circuit Current	1500A / 10ms
Electrical Endurance	1x10 ⁴
Mechanical Endurance	1x10 ⁵

Coil Parameter (at 23[°]C)

1 Coil type

Coil V	Coil Voltage Coil Pickup		Release	Coil Power		
(VDC)		Resistance	Voltage(max)	Voltage(max)	Consumption	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)	
6	9.0	16	4.50	4.50	0.05	
9	13.5	36	6.75	6.75	2.25	

Coil Parameter (at 23[°]C)

1 Coil type

Coil V	Coil Voltage		Pickup	Release	Coil Power
(VDC)		Resistance	Voltage(max)	Voltage(max)	Consumption
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)
12	18.0	64	9.00	9.00	2.25
24	36.0	256	18.0	18.0	2.25

2 Coil type

Coil V	Coil Voltage		Pickup	Release	Coil Power	
(VDC)		Resistance	Voltage(max)	Voltage(max)	Consumption	
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)	
6	9.0	8/8	4.50	4.50		
9	13.5	18/18	6.75	6.75	4.50	
12	18.0	32/32	9.00	9.00	4.30	
24	36.0	128/128	18.0	18.0		

Operation Condition

Insulation Resistance (initial)		1000MΩ (500VDC)			
Dielectric	Between Contacts	50/60Hz 2000VAC			
Strength	Between Contact and Coil	50/60Hz 4000VAC			
Surge Voltage	(Between Contact and Coil)	20KVAC (1.2 / 50μs)			
Shock	Functional	98m/s²			
Resistance	Endurance	980m/s²			
Vibration Resistance		10~55Hz double amplitude 1.5mm			
Creepage Distance		8mm			
Ambient Temperature		-40 ~ +70°C			
Operate Time		≦25ms			
Release Time		≦25ms			

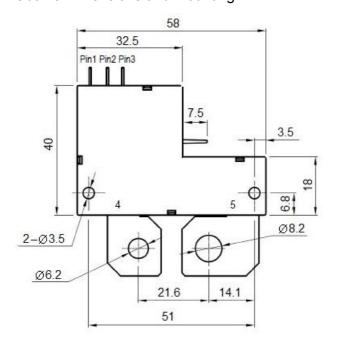
Operation Condition

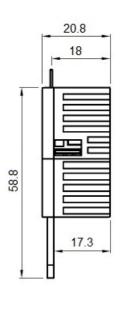
Relative Humidity	5%~85%
Weight	Approx. 95g

Ordering Information

0.009	•						
		LB	-12D	2	-A	100	
Model							
Coil Voltage	6, 9, 12, 24 VDC						
Coil Sort	Nil: 1 coil 2: 2 coils						
Contact	A. 4 Forms A. B. 4 Forms D.						
Arrangement	A: 1 Form A B: 1 Form B						
Contact Current	100 : 100A						
Special Code	Nil: Standard XXX: Cus	tomer	special	require	ement		

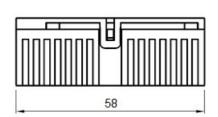
Dimensions (UNIT: mm) Outline Dimensions and Mounting



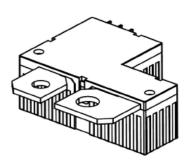




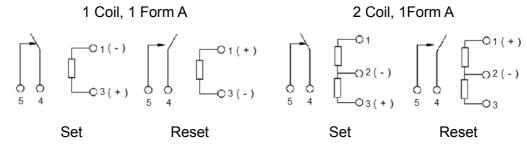
Dimensions (UNIT: mm) Outline Dimensions and Mounting

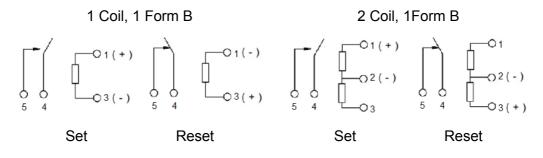


Diagrammatic Sketch



Wiring Diagram (Bottom views)





Remark: 1) In case of no tolerance shown in outline dimension: outline dimension \leq 1mm, tolerance should be \pm 0.2mm; outline dimension >1mm and \leq 5mm, tolerance should be \pm 0.3mm; outline dimension >5mm, tolerance should be \pm 0.5mm.

2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

Notice

- 1. The data shown above are initial values.
- 2. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.



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- 3. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.
- 4. Normally the load terminals are not suitable for reflow solder, wave solder or tin solder, we suggest use spot welding. Load terminals shall be prevented from assemble stress, or freely move.
- 5. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer's specific requirements. No longer than 6 months' storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be closed when delivery if no special required by customer.

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact IOEC for the technical service. However, it is the user's responsibility to determine which product should be used only.

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