

● Features

- 200A Contact switching capability latching relay
- Small size, light weight
- High sensitive
- PCB mounting, easy installation
- Environmental friendly product RoHS compliant
- Dimensions: 38.0 x 30.0 x 16.5 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	200A 14VDC / 90A 250VAC
Max. Switching Power	2800W / 22500VA
Max. Switching Voltage	250VAC
Max. Switching Current	90A
Contact Resistance	$\leq 2\text{m}\Omega$
Voltage drop (initial)	24V 1A
Electrical Endurance	6×10^3
Mechanical Endurance	1×10^5

● Coil Parameter (at 23°C)

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(max) (VDC)	Coil power (W)
Rated	Max.				
5	7.5	8/8	3.5	3.5	1.50
6	9.0	12/12	4.2	4.2	

● Coil Parameter (at 23°C)

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(max) (VDC)	Coil power (W)
Rated	Max.				
9	13.5	27/27	6.3	6.3	1.50
12	18.0	48/48	8.4	8.4	
24	36.0	192/192	16.8	16.8	
48	72.0	768/768	33.6	33.6	

● Operation Condition

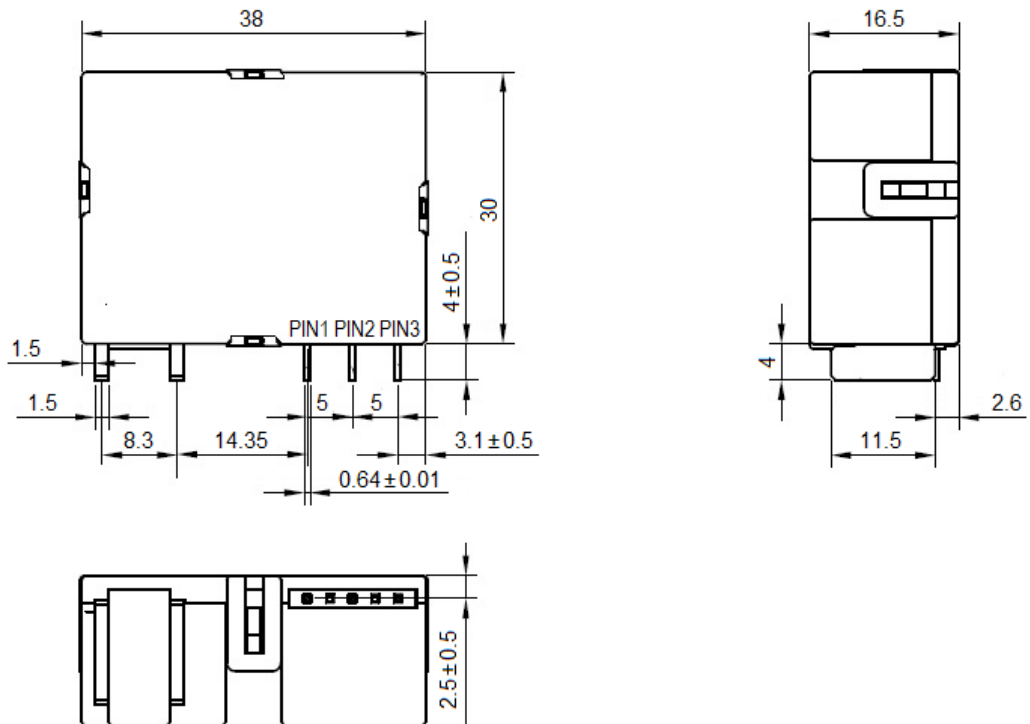
Insulation resistance (initial)		1000M Ω (500VDC)
Dielectric strength	Between contacts	50/60Hz 1500VAC
	Between contact and coil	50/60Hz 2500VAC
Shock resistance	Functional	98m/s ²
	Endurance	980m/s ²
Vibration resistance		10~55Hz double amplitude 1.5mm
Ambient temperature		-40 ~ +70°C
Operate time		≤ 30 ms
Release time		≤ 30 ms
Relative Humidity		5%~98%
Weight		Approx. 39g

● Ordering Information

	LA	6	-12D	2R	-A	200	(XXX)
Model							
Terminal Type	1, 2, 3, 4, 5, 6 . . .						
Coil Voltage	5, 6, 9, 12, 24, 48 VDC						
Coil Sort	1R: 1 coil 2R: 2 coil						
Contact Arrangement	A: 1 Form A B: 1 Form B						
Contact Current	200: 200A						
Special Code	Nil: Standard XXX: Customer special requirement						

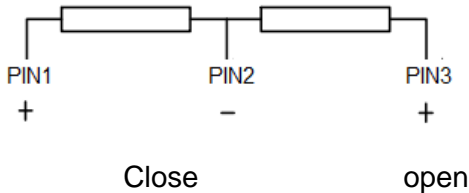
● Dimensions (UNIT: mm)

Outline Dimensions and Mounting



● Dimensions (UNIT: mm)

Wiring Diagram (Bottom views)



Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $>1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $>5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.

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.
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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