



SLC-12VDC-SL-C 30A/250VAC Power Relay

This relay allows you to control high voltage and high current devices, like the heater, air conditioner and high power home appliances. The relay is capable to work with voltages up to 250VAC/30A, making it ideal for home automation.



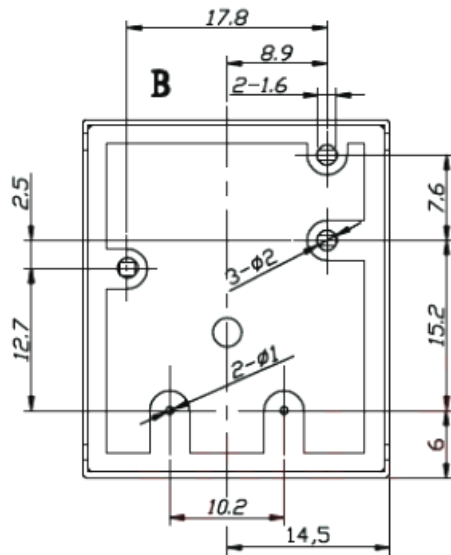
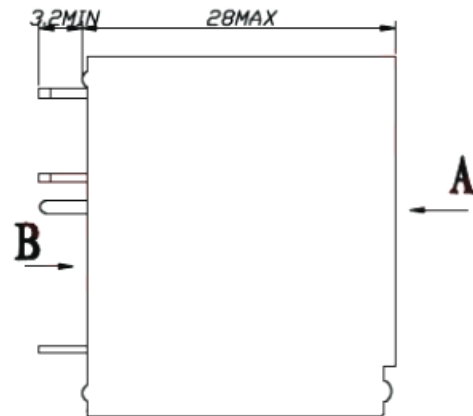
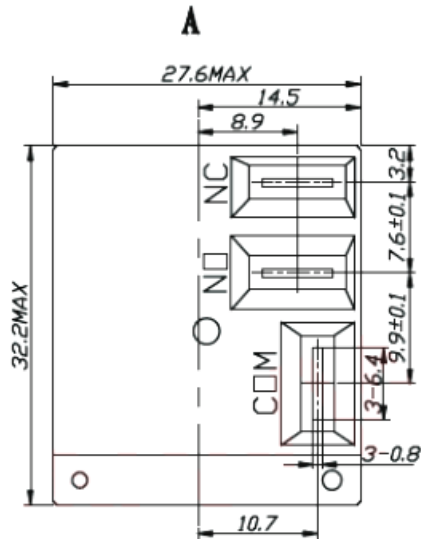
SKU: [EMH1196](#)

Brief Data:

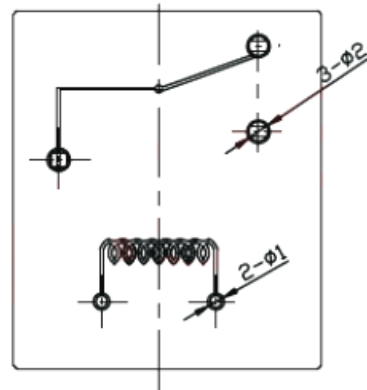
- Part No: SLC-12VDC-SL-C.
- Relay Maximum output: 250VAC/30A.
- Configuration: Single Pole Double Throw (SPDT) C-type.
- Number of Pins: 5-Pins Version.
- Coil Voltage: 12Vdc.
- Contact Resistance: 100m Ω Max.
- Operation Time: 15msec Max.
- Release Time: 10msec Max.
- Dielectric Strength:
 - Between coil & contact: 2000VAC.
 - Between contacts: 1500VAC
- Insulation Resistance: 100M Ω Min. (500VDC)

Outline Dimension, Wiring Diagram and PCB Layout:

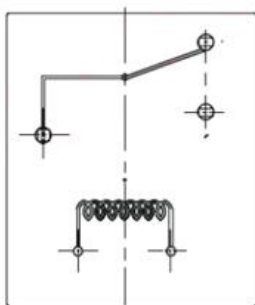
Unit: mm



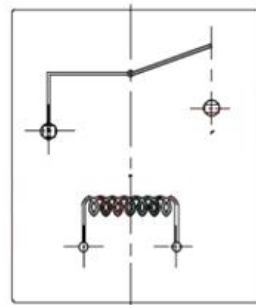
Bottom view diagram



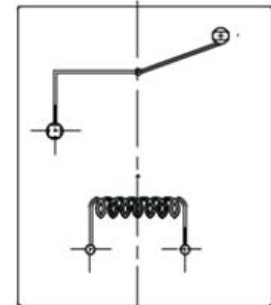
Bottom view diagram B Tolerance: ±0.1mm



Conversion C type



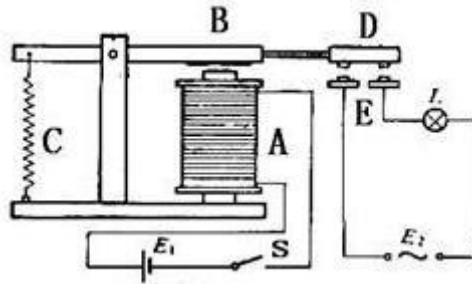
Normally open A type



Normally closed B type

Operating Principle:

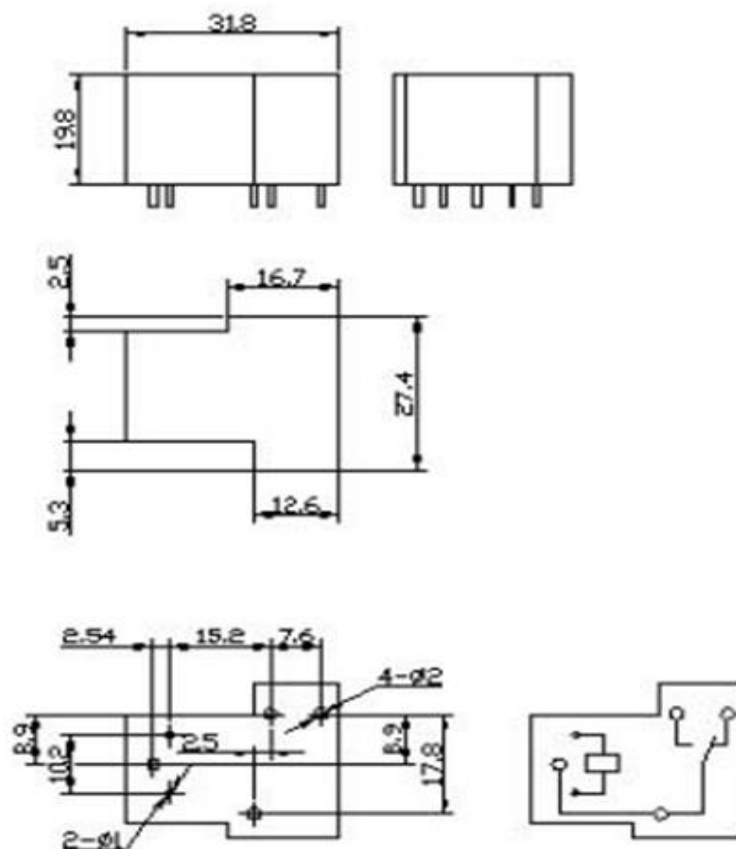
See the picture below: A is an electromagnet, B armature, C spring, D moving contact, and E fixed contacts. There are two fixed contacts, a normally closed one and a normally open one. When the coil is not energized, the normally open contact is the one that is off, while the normally closed one is the other that is on.



Supply voltage to the coil and some currents will pass through the coil thus generating the electromagnetic effect. So the armature overcomes the tension of the spring and is attracted to the core, thus closing the moving contact of the armature and the normally open (NO) contact or you may say releasing the former and the normally closed (NC) contact. After the coil is de-energized, the electromagnetic force disappears and the armature moves back to the original position, releasing the moving contact and normally closed contact. The closing and releasing of the contacts results in power on and off of the circuit.

Mechanical Dimension:

Unit: mm





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