YC9VA Overvoltage and Undervoltage Protector

YC9VA

YC9VA2

General

YC9VA/YC9VA2 voltage and current display relay is a microprocessor-based voltage monitoring device for single-phase AC networks to protect electrical equipment from surge voltage. The device analyzes the main voltage and displays its current value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button. The value is stored in non-volatile memory. Aluminum wires and copper wires can be used for connection.

Application

YC9VA/YC9VA2 voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

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Technical data

Parameter	Data
Rated power supply voltage	AC230V
Rated frequency	50/60Hz
Maximum voltage adjustment range	230V~300V
Minimum voltage adjustment range	110V~210V
Range of adjustment of the maximum current	1A~63A
Deviation	2%
Maximum action time	<275V: 0,1s, ≥275V: 0,02s
Delay time adjustment range	1-90s
Minimum action time	0.5s (≥160V); <0.1s(<160V)
Delay time adjustment range, overcurrent trip time	1-90s (Inom <Iism <Imax :); 0.1s (Iism≥Imax)
Voltmeter accuracy	≤1%
Rated insulation voltage	400V
Output contact	1NO
Protection	IP20
Pollution	3
Electrical life	100000 times
Mechanical life	1000000 times
Altitude	≤2000m
Operating temperature	-5°C~40°C
Relative humidity	50% at 40℃ (non-condensing)
Storage temperature	-40°C~55°C
Installation	35mm DIN rail
Range of adjustment of the on-delay time	1-90s

Operation

When a voltage is applied to the device, the digital indicator will display the current value of the voltage in the network.
A flashing light indicates that there is no voltage on the output of the device. If the supply voltage is within the set range, after a while(default is 30 seconds), the load will turn on and the indicator will stop flashing. If the voltage is not within the specified range, the load will not be connected to the line until the voltage returns to normal. Meantime, if the voltage is lower than the set lower limit during the restart, the error indicator will flash. If the voltage is higher than the set upper limit, the error indicator will remain on.

Modular DIN Rail

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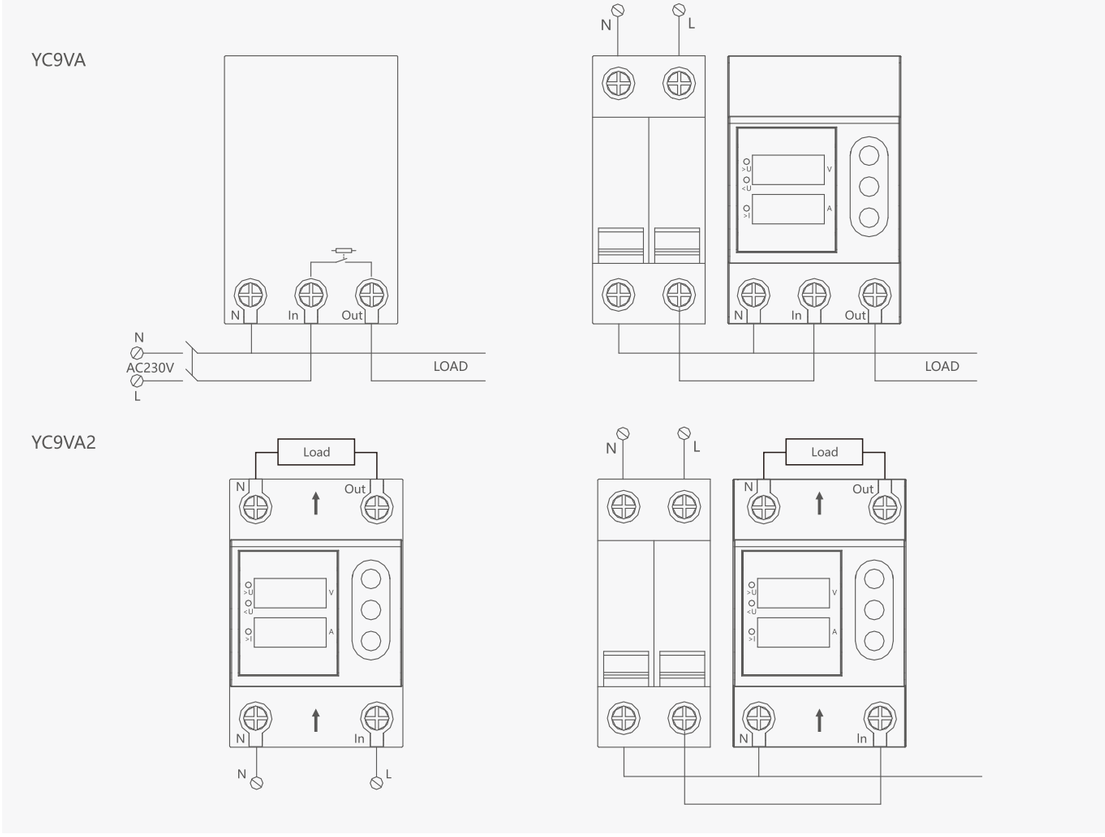
A

Wiring diagram



Overall and mounting dimensions (mm)