YC9VA-3

Digital Voltage and Current Display Relay

OPERATION INSTRUCTION

Standard: JB/T 12762-2015

CNC Deliver Power For Better Life

⚠ Before installing and using this product, please read this manual carefully and pay more attention to safety.

YC9VA -3

Description

YC9VA-3 voltage and current display relay is a microprocessor-based voltage monitoring device for Three 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-3 voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting Three phase lines:

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

Specifications

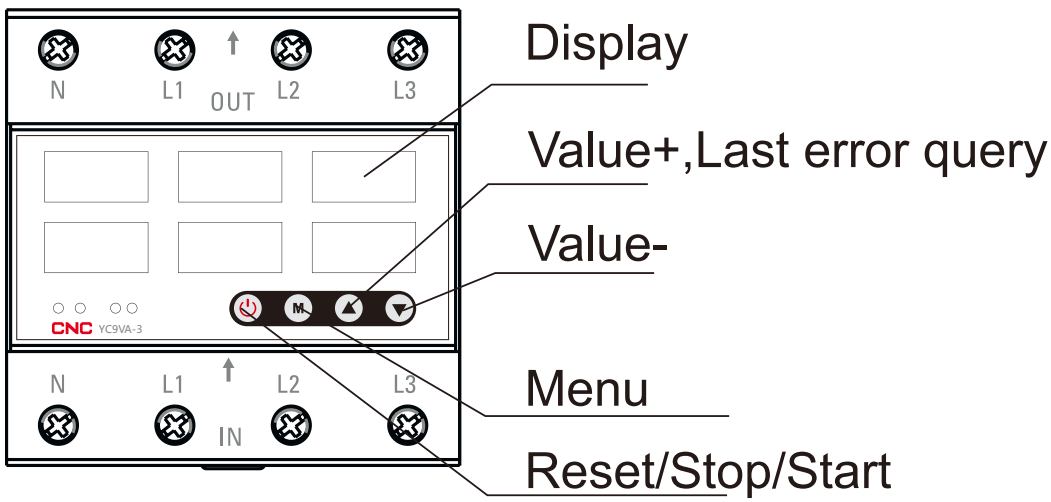
Parameter	Data
Rated power supply voltage	230/400VAC
Rated frequency	50/60Hz
Maximum voltage adjustment range	220V~300V
Minimum voltage adjustment range	120V~210V
Maximum current adjustment range	5A~63A
Phase unbalance adjustment range	20V~99V
Deviation	2%
Delay time of phase unbalance fault	10s
Delay time of overcurrent fault	5s~600s
Delay time of closing	5s~600s
Delay time of overvoltage fault	0s~10s
Delay time of undervoltage fault	0s~10s
Lag voltage of overvoltage and undervoltage	0V~15V
Voltmeter accuracy	1%
Rated insulation voltage	450V
Output contact	3NO
Protection	Ip20
Pollution	3
Electrical life	100 000
Mechanical life	1 000 000
Altitude	≤2000m
Operating temperature	-5°C~50°C
Relative humidity	50% at 40°C (non-condensation)
Storage temperature	-40°C~+55°C
Installation	35mm DIN rail

Installation and use

Install the product on the 35mm DIN rail. Connect the wiring according to Fig.5. The cross-sectional area of the wire should be consistent with the maximum load current. To prevent short circuit, relay current limiting circuit breaker must be installed before the product.

Phase unbalance fault

If the voltage is not within the specified range, the load will not be connected until the voltage returns to normal, the corresponding fault indicator is on(over -voltage under-voltage and phase unbalance) . Phase sequence fault will display L1-L3-L2 , in this case, change the two phase lines or close the phase sequence protection function.



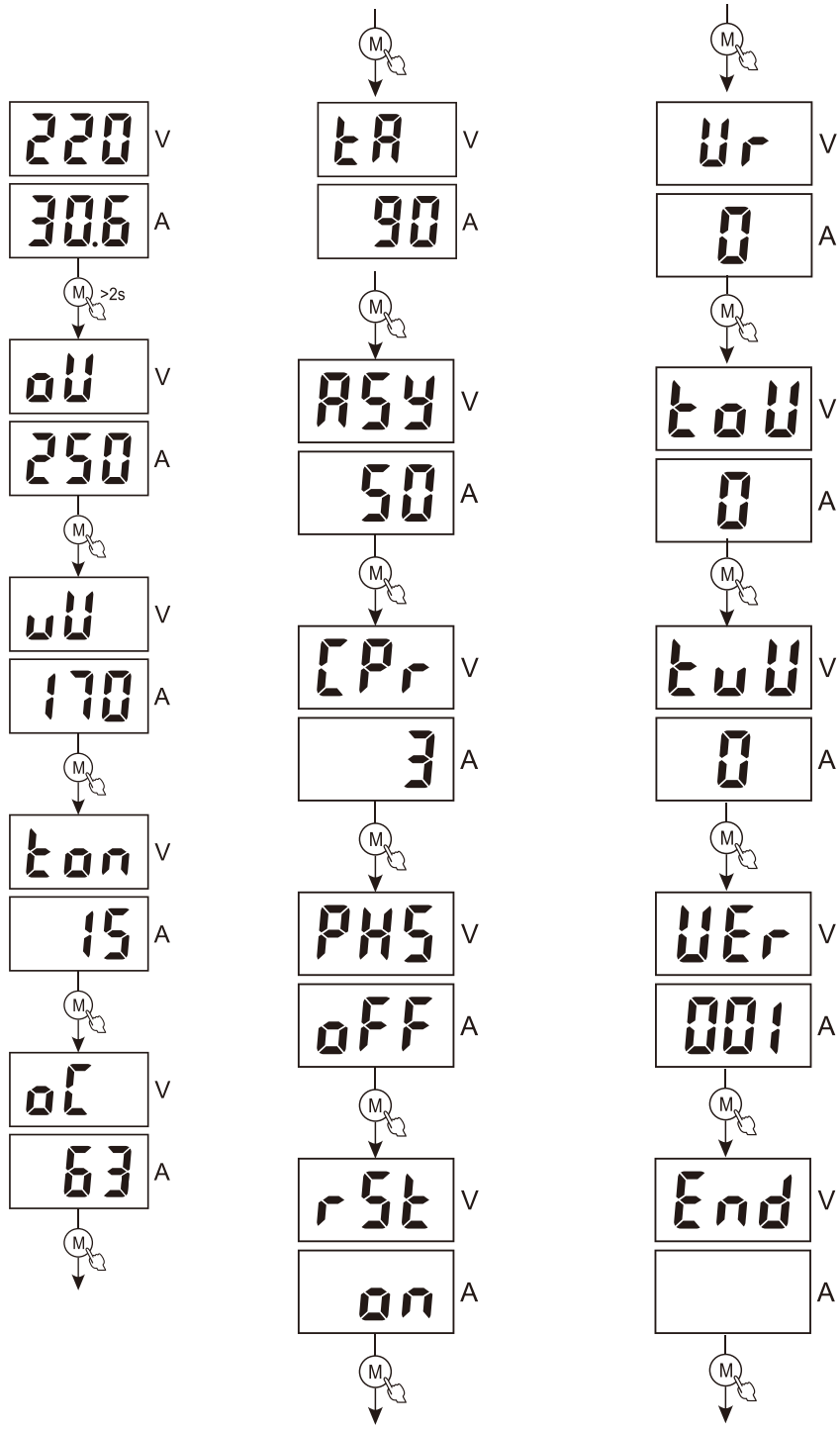
⌐ - : Output state　　＞U : Over-voltage

＜U : Under-voltage　　＞ I : Over-current

Asy : Phase unbalance

Display and Indicator

Parameter setting



Default value of parameters

No.	Code	Parameter	Range	Minimum Adjustment value	Default value
1		Over voltage	220—300V	1V	250V
2		Under voltage	120—210V	1V	170V
3		Delay time of closing	5s—600s	1s	5s
4		Over cuttent，A	5—63A	1A	63A
5		Delay time of overload fault	5s—600s	1s	15s
6		Phase unbalance	20—99V	1V	50V
7		Re-closing times for overload fault	OFF-1—20	1	3
8		Open/close phase sequence protection	OFF ON		OFF
9		re closing for over/ understand voltage, phase sequence fault	ON OFF		NO
10		re-closing voltage for over voltage and under voltage	0—15V	1	0
11		Delay time of over voltage fault	0—10s	1	0
12		Delay time of under voltage fault	0—10s	1	0
13		Software edition number			
14		Menu end			

these keys used to increase or decrease the parameter;

this key used to start/stop relay, reset fault;

When there is over-current fault, it display fault as shown in Fig. 1, the over-current fault must be eliminated and restart the relay in order to continue working.

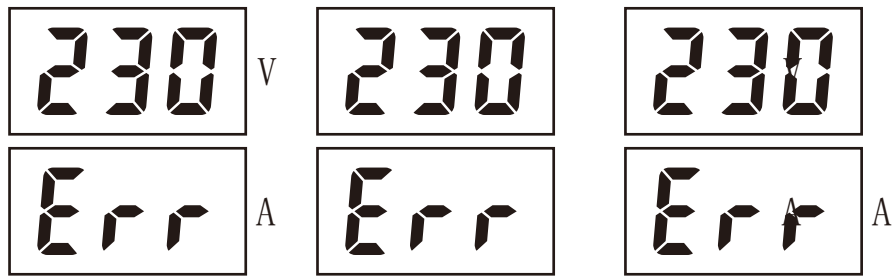


Fig.1

this key used to query the last fault, display the voltage and current under the last fault, as shown in Fig.2.

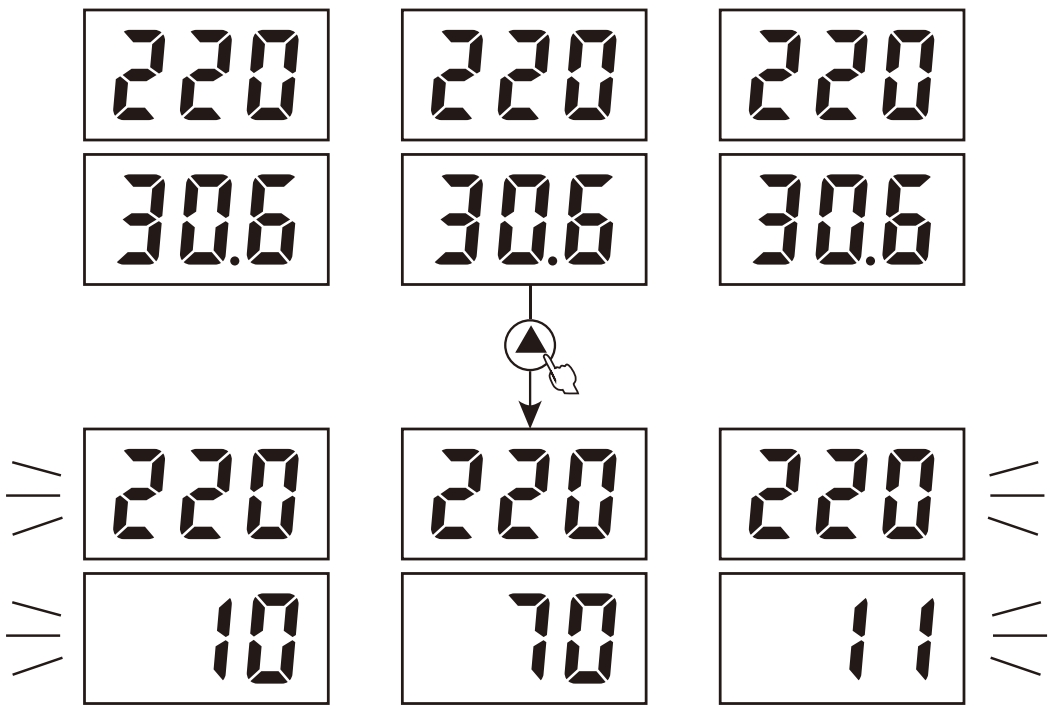
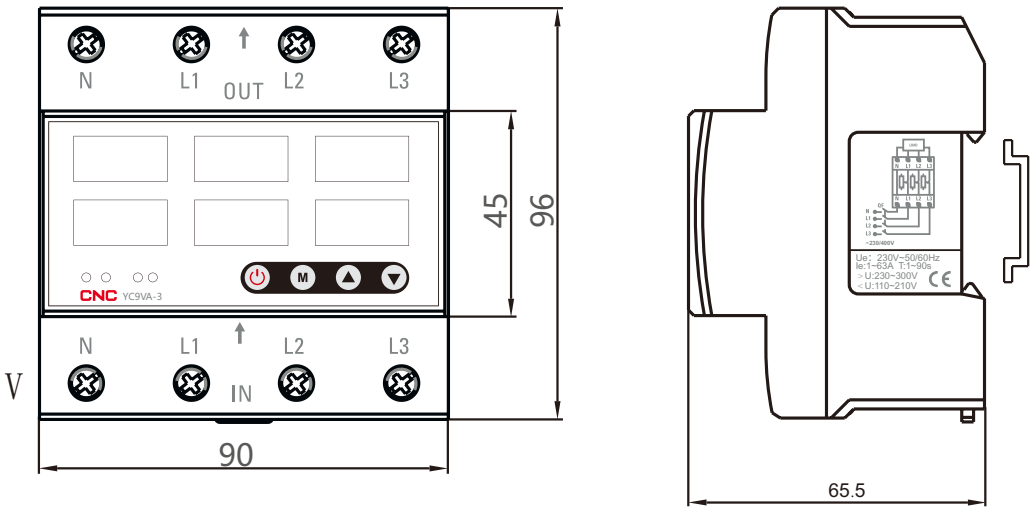
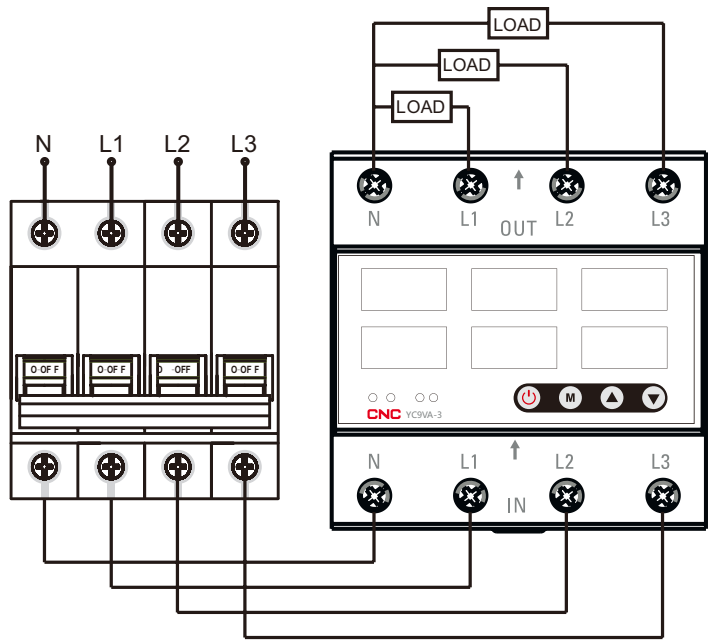


Fig.2 the voltage and current under the last fault

Overall and mounting dimensions (mm)



Connection diagram



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CERTIFICATE

Product Model: YC9VA-3

Standard : JB/T 12762-2015

Inspector : CNC 001

Production date: Printed on the product or package.

This product is qualified according to the delivery inspection

CNC YC9VA-3 series

CNC ELECTRIC

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