

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 single-phase lines:

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

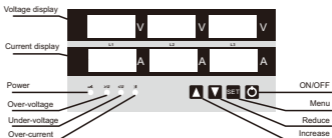
Technical data

Rated supply voltage	AC 220	AC 380
Operation voltage range	AC 80~400V(three phase)	AC 140~700V(three phase)
Rated frequency	50/60Hz	50,60Hz
Electric current (>A) setting range	1~40A/63A/80A/100A	1~40A/63A/80A/100A
Overvoltage (>U) setting range	230~300V	390~500V
Undervoltage (<U) setting range	210~140V	370~260V
Rated current	40A/63A/80A/100A	40A/63A/80A/100A
>U and <U trip delay	0.1~30S	0.1~30S
Reset/start delay	1~500S	1~500S
Voltage measurement accuracy	2%	2%
Rated insulation voltage	400V	700V
Output contact	3NO	3NO
Electrical life	10 ⁵	10 ⁵
Mechanical life	10 ⁶	10 ⁵
Protection degree	Ip20	Ip20
Pollution degree	3	3
Altitude	≤2000m	≤2000m
Operating temperature	-50°C~55°C	-50°C~55°C
Humidity	≤50% at 40(without condensation)	≤50% at 40(without condensation)
Storage temperature	-30°C~70°C	-30°C~70°C

Rated supply voltage	AC 220V				AC 380V			
	40A	63A	80A	100A	40A	63A	80A	100A
Current specification								
Rated operating current(In, A)	40	63	80	100	40	63	80	100
Maximum operating current I _{max} (A, with in 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
Max. power of load(kW)	8.8	13.9	17.6	22	15.2	24	30.4	38

Default setting

Technical parameter	Setting range	Step	Factory setting
Power-on delay time	1~500S	1S	10S
Over-voltage protection value	230~300V/390~500V	1V	270V/430V
Over-voltage recovery value	225~295V/385~495V	1V	265V/425V
Over-voltage recovery delay time	1~500S	1S	30S
Over-voltage protection action time	0.1~30S	0.1S	1S
Under-voltage protection value	210~140V/370~260V	1V	170V/330V
Under-voltage recovery value	215~145V/375~265V	1V	175V/335V
Under-voltage recovery delay time	1~500S	1S	30S
Under-voltage protection action time	0.1~30S	0.1S	1S
Three phase voltage error value	-9.5~9.5%	0.5%	0%
Three phase voltage unbalance value	20~99V	1V	20V
Three phase voltage unbalance recovery value	5~94V	1V	15V
Three phase voltage unbalance protection switch	off/on		on
Phase sequence protection switch	off/on		on
Over-current protection value	1~40A/63A/80A/100A	0.1A	30A
Over-current recovery delay time	1~500S	1S	30S
Over-current protection action time	0.1~30S	0.1S	1S
Three phase current error value	-9.5~9.5%	0.5%	0%
Continuous over-current protect times	1~20/off	1	off



Function setting

220 220 220 Voltage display
200 200 200 Current display

P-1 Power-on delay time

10 1 → 500S

U-1 Over-voltage protection value

270 230 → 300V(220V)
390 → 500V(380V)

U-2 Over-voltage recovery value

265 225 → 295V(220V)
385 → 495V(380V)

U-3 Over-voltage recovery delay time

30 1 → 500S

U-4 Over-voltage protection action time

10 0.1 → 30S

U-5 Under-voltage protection value

170 210 → 140V(220V)
370 → 260V(380V)

U-6 Under-voltage recovery value

175 215 → 145V(220V)
375 → 265V(380V)

U-7 Under-voltage recovery delay time

30 1 → 500S

U-8 Under-voltage protection action time

10 0.1 → 30S

U-9 Three phase voltage error value

0 -9.5 → 9.5%

U10 Three phase voltage unbalance value

20 20 → 99V

U11 Three phase voltage unbalance recovery value

15 5 → 94V

U12 Three phase voltage unbalance protection switch
off/on

on

U13 Phase sequence protection switch

on off/on

C-1 Over-current protection value

300 1 → 40A/63A/80A/100A

C-2 Over-current recovery delay time

30 1 → 500S

C-3 Over-current protection action time

10 0.1 → 30S

C-4 Three phase current error value

0 -9.5 → 9.5%

C-5 Continuous over-current protect times

5 1 → 20/off

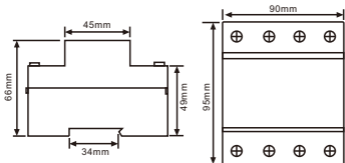
P-1 Continue to press the **ENT** key to cycle

10 Long press set for 5 seconds to save

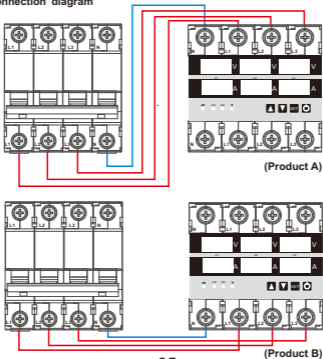


To adjust the figure quickly by long time press the add or subtract key

Overall and mounting dimensions(mm)



Connection diagram





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

A vertical red bar containing the white text 'CNC'.

YC9VA-3 series

CNC ELECTRIC

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