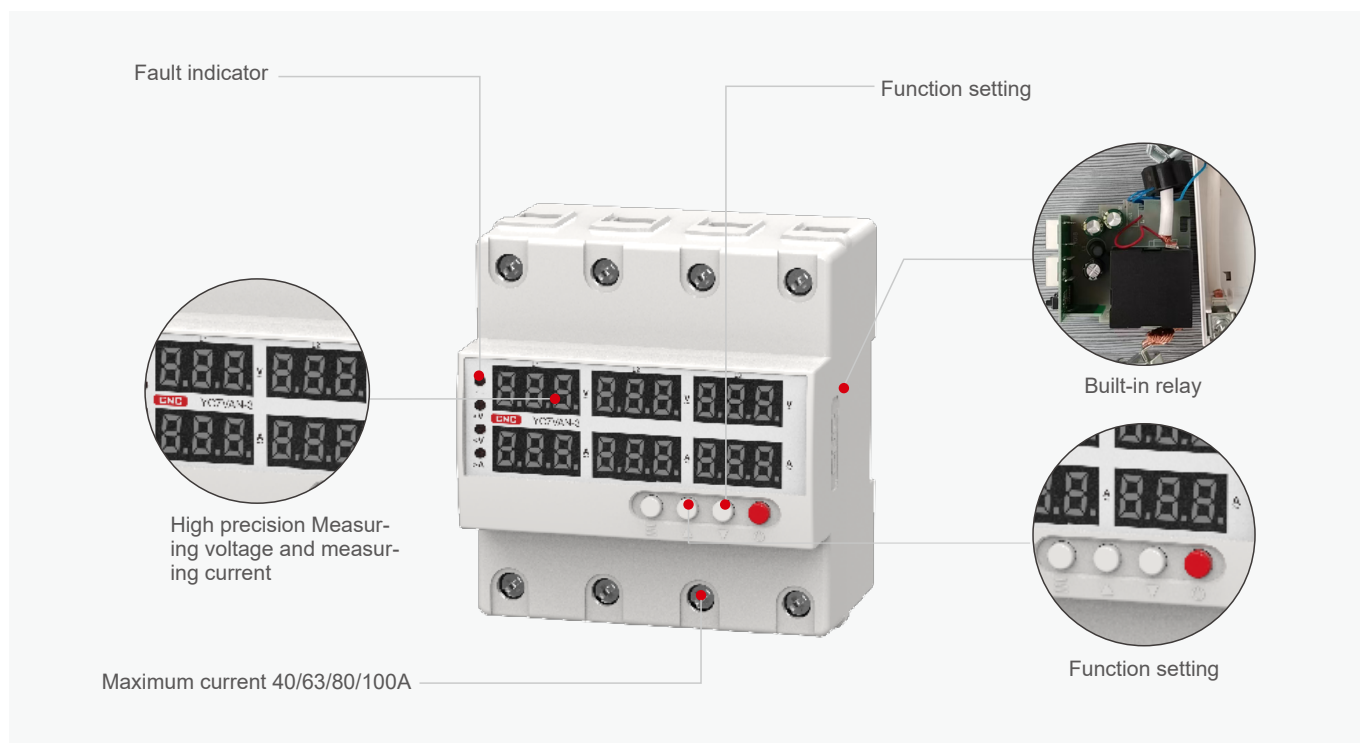


Final Distribution

YC7VAN-3 Overvoltage and Undervoltage Protector



General

The YC7VAN-3 is a high-performance three-phase line protection device. It continuously monitors the effective values of three-phase voltage and current, and can quickly disconnect the circuit when preset overvoltage or undervoltage faults are detected, effectively preventing electrical equipment damage and safety accidents caused by power grid abnormalities or equipment malfunctions. After the fault is eliminated, the device supports automatic reset to restore power supply.

Feature

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.

Type designation

YC 7 VA N - 3

Company code	Design Number	Functional Type	New style	Phase Number Type
YC	7	VA	N	3
Company code	Design series number	V:Voltage A:Current VA:Voltage and Current KWH:Voltage, Current, and Kilowatt-hours	/	3:Three-phase

Final Distribution

YC7VAN-3 Overvoltage and Undervoltage Protector

Technical data

Item	AC 220V	AC 380V
Rated supply voltage	AC 220V	AC 380V
Operating voltage range	AC 80–400V (Three phase)	AC 140–700V (Three phase)
Rated frequency	50/60Hz	50/60Hz
Electric current adjusting range	1–40A / 63A / 80A / 100A	1–40A / 63A / 80A / 100A
Over-voltage setting range	230–300V (220V)	390–500V (380V)
Under-voltage setting range	165–295V (220V)	280–465V (380V)
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	1NO	1NO
Electrical life	10 ⁶	10 ⁶
Mechanical life	10 ⁶	10 ⁶
Protection degree	IP20	IP20
Pollution degree	3	3
Altitude	≤2000m	≤2000m
Operating temperature	-5°C~+55°C	-5°C~+55°C
Humidity	≤50% at 40°C (without condensation)	≤50% at 40°C (without condensation)
Storage temperature	-30°C~+70°C	-30°C~+70°C

Rated supply voltage	AC 220V				AC 380V			
Current specification	40A	63A	80A	100A	40A	63A	80A	100A
Rated operating current (In)	40A	63A	80A	100A	40A	63A	80A	100A
Maximum operating current (A)	63A	80A	100A	125A	63A	80A	100A	125A
Maximum power of load (kW)	8.8	13.9	17.7	22	15.2	24	30.4	38

Final Distribution

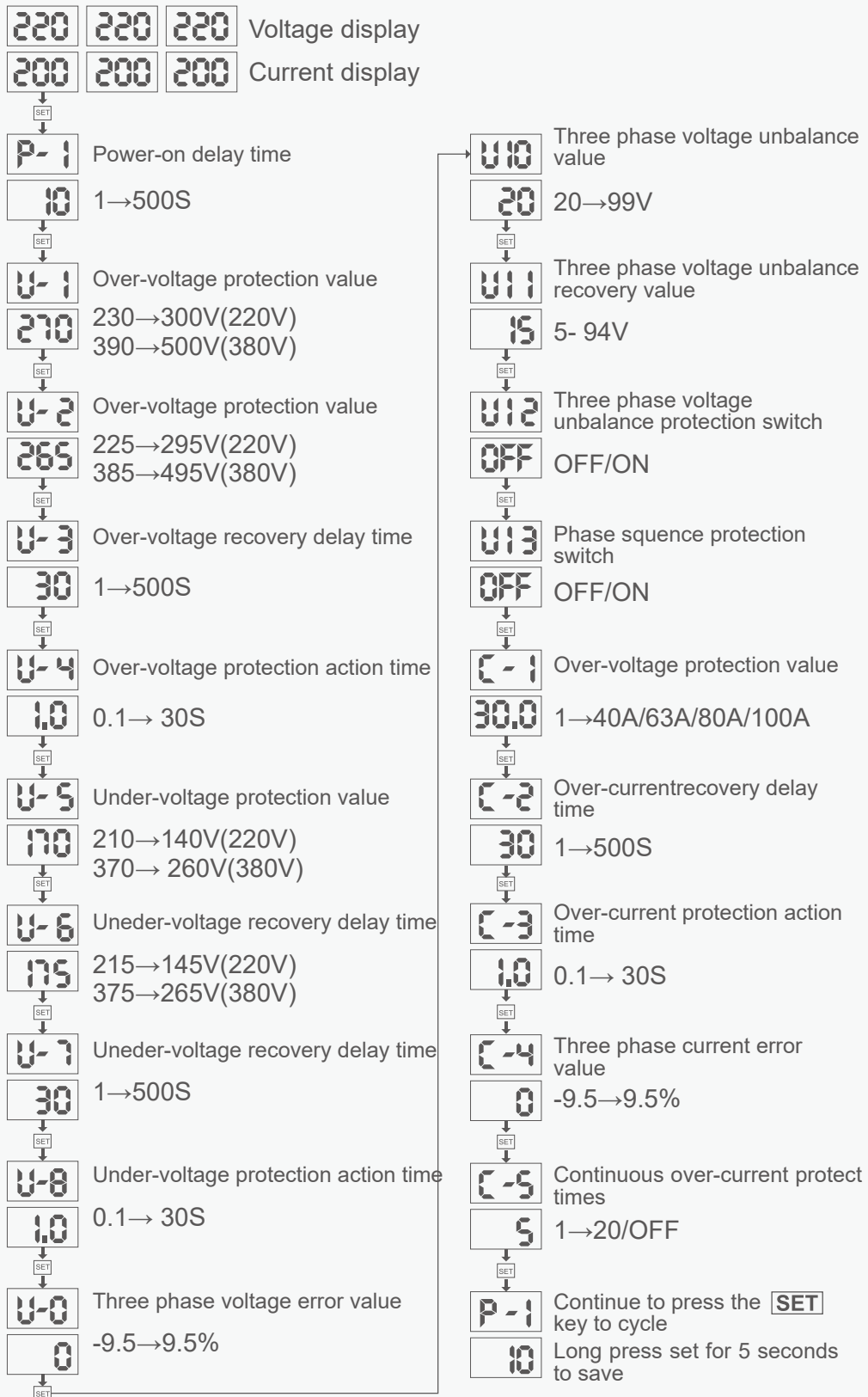
YC7VAN-3 Overvoltage and Undervoltage Protector

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 / 300V
Under-voltage recovery value	215–145V / 375–265V	1V	175V / 305V
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%	0.50%	0%
Three-phase voltage unbalance value	20–80%	1%	20%
Three-phase voltage unbalance protection switch	OFF / ON	—	ON
Phase sequence protection	OFF / ON	—	ON
Over-current protection value	1–40A / 63A / 80A / 100A	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	-9.5%~9.5%	0.50%	0%
Continuous over-current protection times	1–20 / OFF	1	OFF

YC7VAN-3 Overvoltage and Undervoltage Protector

Function setting



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

Final Distribution

YC7VAN-3 Overvoltage and Undervoltage Protector

Overall and mounting dimensions(mm)

