

YC7VAs-kWh

Overvoltage and Undervoltage
Protector

OPERATION INSTRUCTION

CNC

Deliver Power For
Better Life

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

1. Overview

The adjustable voltage, current, short-circuit current and energy metering protection device is an intelligent protection device integrating overvoltage protection, undervoltage protection, overcurrent protection, short-circuit protection and energy metering. It can measure and display electrical parameters such as voltage, current, frequency and accumulated energy consumption (kWh) in real time. In the event of an overvoltage, undervoltage or overcurrent fault, the device automatically disconnects the power supply to protect electrical equipment from damage. The protection parameters for overvoltage, undervoltage, overcurrent and short-circuit current can be set and adjusted by the user according to the actual application requirements.

2. Characteristics

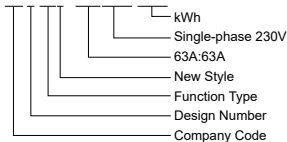
- The protector automatically disconnects the power supply when an overvoltage, undervoltage, or overcurrent fault occurs in a single-phase circuit. Once the voltage or current returns to the normal operating range, the power supply is automatically restored after the preset delay time.
- It effectively suppresses transient overvoltage and protects electrical equipment from malfunction or damage caused by voltage surges.
- The protector is designed with excellent surge withstand capability and remains undamaged even when the transient overvoltage reaches its peak value, ensuring reliable and stable operation.
- Equipped with a digital display, the protector provides real-time monitoring of voltage, current, frequency, accumulated energy consumption (kWh), and other operating

parameters for convenient observation and operation.

- The built-in energy metering function accurately records accumulated power consumption, providing users with a convenient reference for energy monitoring and management. The displayed energy data is for reference only and shall not be used as the basis for legal metering or billing.

3. Type designation

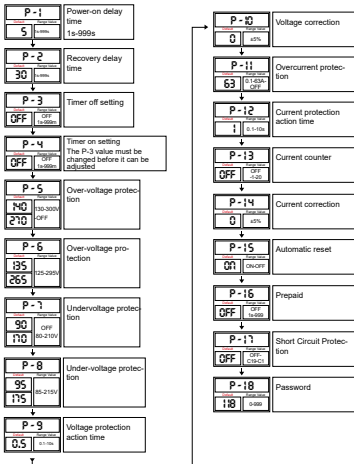
YC 7 VA s - 63A 230V kWh



4. Technical data

Function	Default Value
Rated supply voltage	AC 230V
Rated frequency	40/50/60/70Hz
Over-voltage protection setting	AC130–300V
Under-voltage protection setting	AC80–210V
Voltage hysteresis	5V
Voltage protection trip delay	0.5s
Voltage measurement accuracy	<1%
Maximum operating voltage	350V
Maximum operating current	40A / 63A
Operating altitude	≤2000m
Ambient temperature	-25°C ~ +50°C
Relative humidity	≤50% at 40°C (without condensation)
Storage temperature	-25°C ~ +55°C
Dimensions	85 × 36 × 66 mm

5. Setup menu



6. Display panel



Fault: Overvoltage Undervoltage

R/T: Overcurrent

OUT : Energy metering

 Menu selection

 Digit+

 Digit-

 ON/OFF

7. Safety Instructions

Circuit breakers shall be installed at both the power supply side (upstream) and the load side (downstream) of this product.

Installation, wiring, and maintenance must be performed only by qualified personnel.

Before installing, wiring, or servicing the device, disconnect all power supplies. Do not touch any terminals while the device is energized.

Ensure that all terminal connections are secure and correctly tightened before energizing the device.

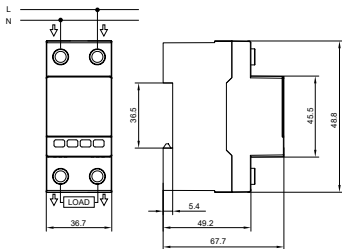
Do not install or operate the device in locations exposed to

corrosive gases, direct sunlight, rain, or excessive moisture.

Clean the device only with a dry, soft cloth. Do not use water or chemical solvents.

Failure to follow these instructions may result in electric shock, fire, equipment damage, serious injury, or death.

8. Overall and mounting dimensions(mm)





CERTIFICATE

Product Model: YC7VAs-kWh

Inspector: CNC 001

Production date: Printed on the product
or package

This product is qualified according to the
delivery inspection

CNC

YC7VAs-kWh

CNC ELECTRIC

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