

CERTIFICATE

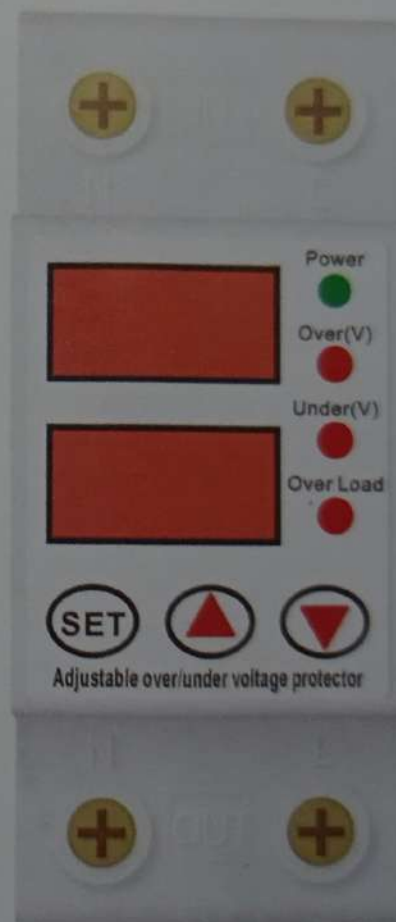
This product has been tested
and proved to be qualified
for delivery

Intelligent overvoltage &
undervoltage & overcurrent
protection device

Inspector:6

Date of manufacture: See the
label in the box

Intelligent overvoltage & undervoltage &
overcurrent protection device



1.Usage

Intelligent overvoltage & undervoltage & overcurrent reclosing protection device is a comprehensive intelligent protection device integrated with overvoltage protection, undervoltage protection and overcurrent protection. This product is able to cut off the power supply instantaneously and protect the equipment from being burned for the overvoltage fault, undervoltage fault and overcurrent fault. The protection device can automatically restore power supply when the circuit restore to the normal condition. Overvoltage value, undervoltage value, overcurrent value and delay value of this product can be set by users. Users can adjust the corresponding parameters according to actual situation.

2. Product characteristics

2.1 A new generation of self-recovery overvoltage and undervoltage protection device according to national standard JB/T12762-2015

2.2 Circuit will be cut off for overvoltage, undervoltage and overcurrent of the single phase circuit. It will automatic reset the connecting circuit after the voltage recovery of single-phase circuit and delay of time without manual operation.

2.3 Circuit protection will produce no malfunction for transient or temporary overvoltage.

2.4 Protection device will not be damaged for circuit disconnection of protection device or sudden power recovery after sudden power failure caused by weak joints.

2.5 Protection device will not be damaged for the maximum voltage of circuit fault

3. Regular service conditions and installation condition

3.1 Regular service condition

3.1.1 Ambient air temperature

The ambient air temperature shall not exceed $+40^{\circ}\text{C}$ or lower than -5°C with average value of 24 hours maximum $+35^{\circ}\text{C}$.

3.1.2 Altitude

The altitude of the installation site shall not exceed 2000m.

3.1.3 Atmospheric condition

3.1.3.1 Humidity

The relative air humidity of the installation site does not exceed 50% in the ambient air temperature $+40^{\circ}\text{C}$ and has a higher relative humidity at a lower temperature. For example, when the average minimum temperature of the wettest month is $+20^{\circ}\text{C}$, the average maximum relative humidity of this month is greater than 90%. Appropriate measures should be taken to prevent condensation due to temperature changes.

3.1.3.2 Pollution grade 3

3.2 Installation condition

3.2.1 Protection device can be vertically or horizontally installed in the cabinet unless otherwise specified for a particular order.

3.2.2 It should be installed in a medium without explosion risk where there is no gas or conductive dust for metal corrosion or insulation damage.

3.2.3 It should be installed in the place with no rain or snow.

4. Main technical parameter

4.1 Rated voltage 230 frequency 50Hz

4.2 Rated current 1A~63A adjustable (default 40A),
1A~40A adjustable (default 20A)

4.3 Under-voltage action cut-off value: 160-210V
adjustable (default 165V)

4.4 Over-voltage action cut-off value: 230V~300V
adjustable (default 275V)

4.5 Power recovery delay after power failure: 30s

4.6 Time Range : 1-90s

4.7 Power consumption $\leq 2W$

4.8 Electrical machinery life-span ≥ 100000 times

4.9 Exterior dimension: 85×36×66mm

4.10 Overvoltage and undervoltage operation
parameters and recovery parameters can be adjusted
according to customer demands.

4.11 This product is up out and down in and up in and
down out.

4.12 Rated operation characteristics and operation
time

4.13 Rated connection capacity Protection device can
be reliably connected and disconnected from the current
value after continuous operation for long time. Rated
current priority value: 32A, 40A, 63A

4.14 Rated limit overcurrent

5. Product setting

5.1 Long time pressing the  key for 5 seconds to enter the
set state

5.2 Long time pressing the   key to set the
overpressure value when the overpressure lamp is on, press
the key to adjust the overpressure value, which can be set to
230V-300V, with a default of 275V

5.3 Long time pressing the  key to set the undervoltage value when the undervoltage lamp is on, press the   key to adjust the undervoltage value, which can be set to 160V-210V, with a default of 165V

5.4 Long time pressing the  key to set the current when the current lamp is on, Press the   key to adjust the overcurrent. 1A-40A can be adjusted, the default is 20A, 1-63A can be adjusted, and the default is 40A

5.5 Long press the  key when the power light is on to adjust the delay time is 1-90s

6. Notes

6.1 Users shall abide by the relevant regulations and notes in operation or experiment so as to ensure the secure use of the products.

6.2 Connect the wire according to product inlet end and outlet end. Load current should be less than product protection current value.

6.3 The neutral line N can't be connected incorrectly and must be connected reliably, otherwise the product can't work properly.

6.4 Please carefully check whether the wiring is correct, whether the load size matches the current protection value of the product, and whether the wiring screw has been tightened before power connection, otherwise, it may cause damage to products.

6.5 Do not touch the points position after power connection, so as to avoid the electric shock.

6.6 This product has the function of short-circuit protection in cooperation with mini circuit breaker, it will not be able to play the function of limit-load protection if there is short circuit phenomenon in the inlet end or load end.

6.7 Immediately remove the load(electric appliances) and check the circuit due to the auto reset of the product. Otherwise, the product will be frequently connected or disconnected to the load, thus causing the burning of products or circuit due to long time frequent overload connection and disconnection.

6.8 The product shall be moistureproof and dustproof if it is not used for long and shall be debugged according to the contents mentioned above before use.

6.9 Please disconnect the front stage circuit breaker switch for maintenance because it has no isolation function.

6.10 The product has direct connection to zero line N with no disconnection function.

6.11 Please install DZ47, C65 mini circuit breaker in the front stage of the circuit for overcurrent protection because this product has no over-current short circuit breaking ability.

7.Precautions for use

1. Please disconnect the front stage circuit breaker switch for maintenance because it has no isolation function.

2. The product has direct connection to zero line N with no disconnection function.
3. Please install DZ47, C65 mini circuit breaker in the front stage of the circuit for overcurrent protection because this product has no over-current short circuit breaking ability.

8、Diagram of product wiring

