

I. Overview

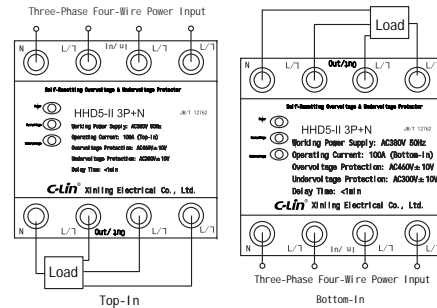
The HHDS-II 3P+N Self-Resetting Overvoltage & Undervoltage Protector (hereinafter referred to as "the protector") is a new-generation circuit protection device developed based on current power grid conditions. When the circuit voltage is in overvoltage or abnormal conditions, the protector will cut off the load power supply once the voltage exceeds the set action threshold, so as to protect electrical appliances and personal safety, and realize fast and reliable power-off protection. When the circuit voltage returns to normal, the protector will automatically resume power supply, achieving fully automatic control. It features simple operation, stable performance and reliable protection. With a compact structure and sleek appearance, the product can be mounted in parallel with DZ47 (C45) on a DIN rail. This protector complies with the relevant requirements of JB/T 12762. It features simple operation, stable performance and reliable protection. With a compact structure and sleek appearance, the product can be mounted in parallel with DZ47 (C45) on a DIN rail. This protector complies with the relevant requirements of JB/T 12762.

II. Main Technical Data

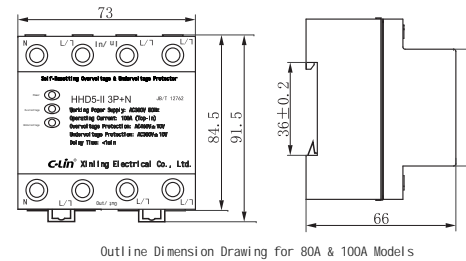
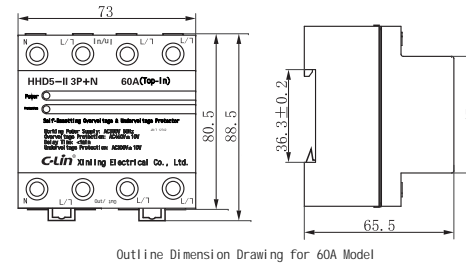
- Working Power Supply (Control Power Supply Voltage): Three-phase four-wire AC380V 50Hz;
- Maximum Passable Current: 60A, 80A, 100A (resistive);
- Overvoltage Action Cut-off Value: AC460V±10V;
- Overvoltage Recovery Value: AC420V±10V;
- Undervoltage Action Cut-off Value: AC300V±10V;
- Undervoltage Recovery Value: AC340V±10V;
- Power-on Delay After Power Failure: <1min;
- Wiring Mode: a. Top-In; b. Bottom-In;
- Operation Delay Value: 1s~5s;

- Ambient Temperature: -5° C~40° C;
- Altitude: 2000m;
- Humidity: When the maximum temperature at the installation site is 40° C, the relative humidity of the air shall be 50%. Higher relative humidity is allowed at lower temperatures (e.g., up to 90% at 20° C). Special measures shall be taken for condensation caused by temperature changes;
- Pollution Degree: 3;
- Mounting Method: 35mm DIN rail mounting;
- Rated Conventional Enclosed Current (Ith): 5A;
- Rated Insulation Voltage (Ui): 400V;
- Rated Impulse Withstand Voltage (Uimp): 2.5kV;

III. Wiring Diagram



IV. Outline Dimension Drawing (mm)



V. Instructions for Use

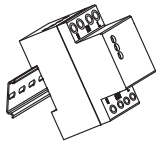
- Status indication of the two light-emitting tubes on the panel: After the product is powered on, the green power indicator light turns on, the red protection indicator light turns on, and there is no output voltage at OUT. After about 1 minute of delay protection, the red protection indicator light turns off, and OUT outputs voltage normally.
- When the voltage is too high or too low: The product enters protection state, and the red light turns on (for 80A models) / the red protection light/red undervoltage light turns on (for 100A models), and the load power supply is automatically cut off. When the voltage returns to normal, after a 1-minute delay, the red protection indicator light turns off, and the product automatically reconnects to the load power supply to resume normal output.

VI. Precautions

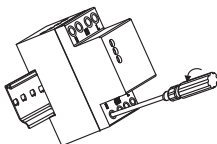
- When the product's input terminal is connected to the power supply for the first time, it will delay 1 minute before supplying power to the load.
- Product wiring: N = neutral wire, L (three-phase) = live wire. Do not connect them incorrectly.
- After the product is powered on, do not touch live parts to avoid electric shock.
- To prevent contact points from overheating and burning out under strong current: Be sure to tighten the screws of the terminal blocks during wiring. Otherwise, excessive contact resistance will cause the terminals to overheat, which may damage the product or cause other accidents.

VII. Installation Method

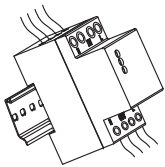
Note: The main circuit power supply must be turned off before installation or disassembly.



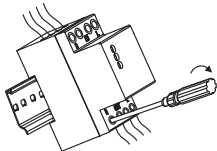
(1) Snap the product onto the guide rail



(2) Loosen the wiring screws



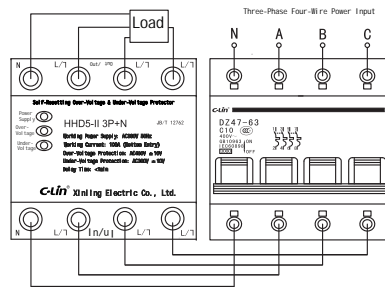
(3) Connect the wires



(4) Tighten the wiring screws

VIII. Application Circuit Example (Taking Bottom Entry as an Example)

This protector is designed to control three-phase four-wire loads. When the power consumption does not exceed the rated capacity of the controller, the direct control method can be adopted. The wiring method is shown in the figure below.



Note: If controlling a three-phase three-wire load, the neutral wire (N) does not need to be connected.

IX. Ordering Information

It is required to specify the product model, protection current specification, voltage class, wiring method, and quantity. If there are special requirements, they should be specified separately.

Example: HHD5-II 3P+N 60A AC380V (Bottom Entry), 100 units.



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使用说明书
Products Instructions

HHD5-II 3P+N

Self-Resetting Over-Voltage & Under-Voltage Protector

Thank you very much for using C-Lin brand protector. Please read the user manual before use!

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