



OVER UNDERVOLTAGE PROTECTOR

Six display



Flame retardant material



Adjustable protection setting(s)



Automatic reset



KNS5-6S/3P+N Adjustable V/A Protector



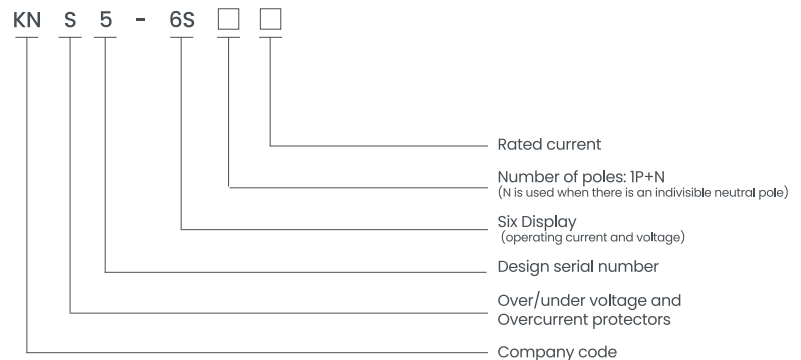
● Product Introduction

The **KNS5-6S/3P+N** series is a new generation of intelligent integrated home power protectors. Featuring a high-definition 6-display system, it provides clear and immediate information on real-time voltage and current. It automatically controls current and voltage to ensure home electrical safety, protecting family members from potential hazards. With a wide range of applications, it can be used in various scenarios, including distribution boxes, CNC machine tools, office and home power distribution, and grid-connected photovoltaic systems.

This series of products offers current ratings from **1A to 100A**, which can be limited or customized to suit the specific current requirements of locations such as dormitories. For example, if a room requires 6A of power, a 5A current limiter can be set. Power will automatically cut off if the current exceeds 6A, and automatically resume once the current returns to below 6A after the equipment is unplugged. In case of overvoltage, over-voltage, or under-voltage, the product automatically disconnects the load and detects the voltage in the circuit. Once the voltage returns to normal, it automatically closes the circuit to restore power. Not only are the parameters flexibly set, but the product also meets the application needs of different environments. Its highly flame-retardant reinforced nylon shell is heat and cold resistant, ensuring reliable operation even in harsh environments and protecting electrical equipment from damage at all times.



● Model Meaning



● Features

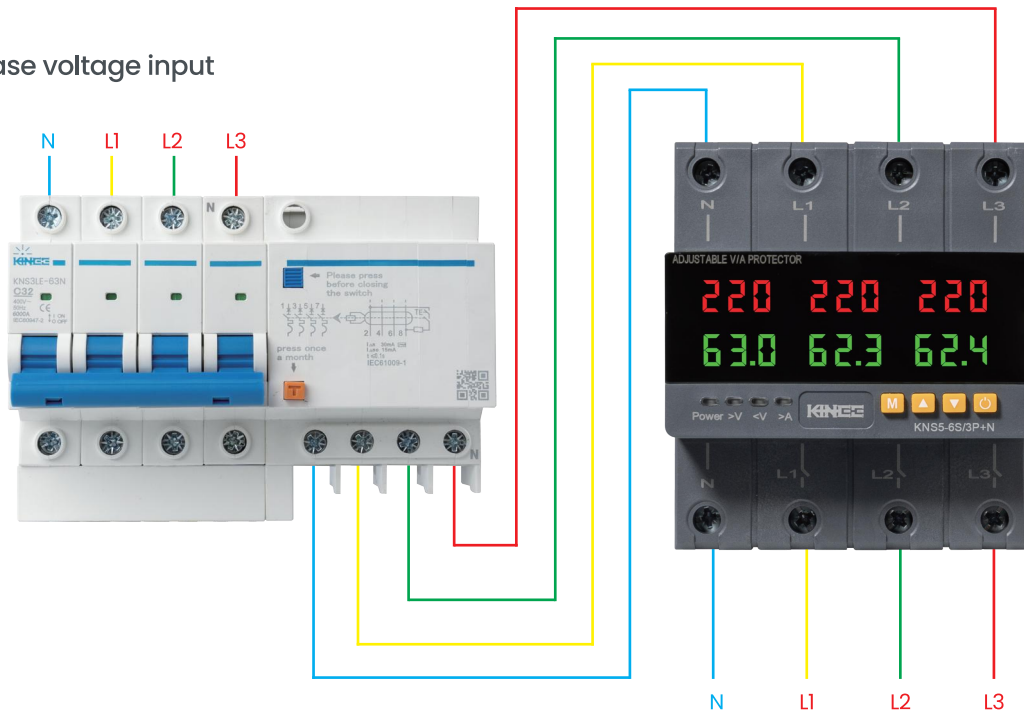
- Voltage display and current display
- Overvoltage protection and undervoltage protection
- Unbalanced protection
- Phase sequence protection
- automatic reset
- Overload protection
- Mechanical life: 1 million cycles
- Electrical life: 100,000 cycles
- Measurement error: 1%
- Installation method: 35mm DIN rail

KNS5-6S/3P+N

Adjustable V/A Protector

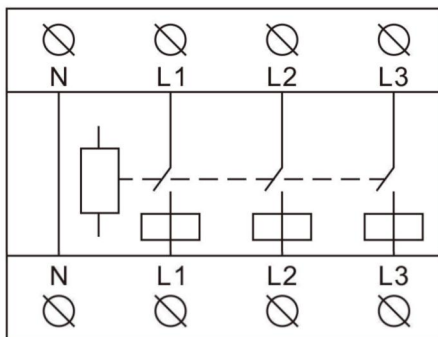
● **Wiring diagram**

Three-phase voltage input



Three-phase voltage output

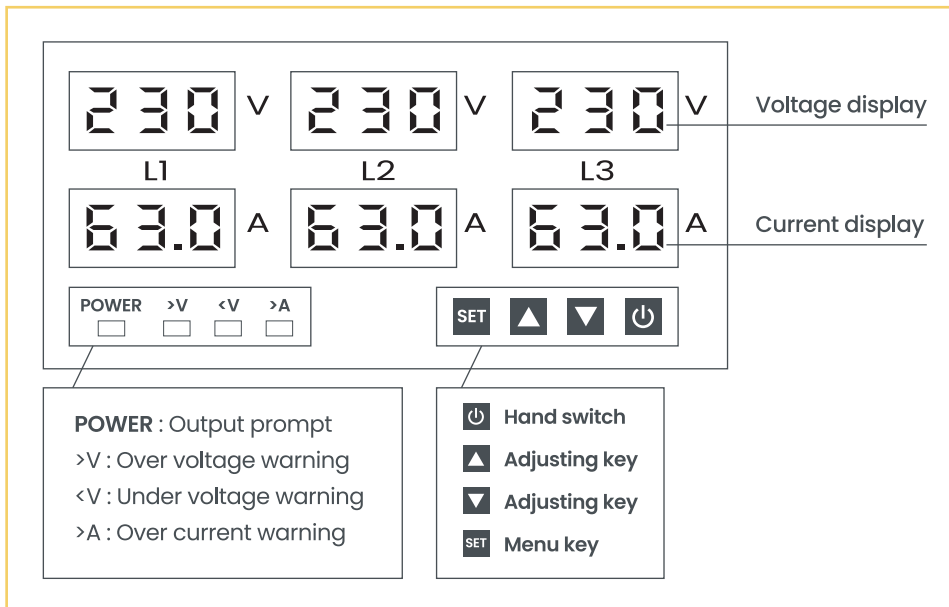
● **Electrical symbol**



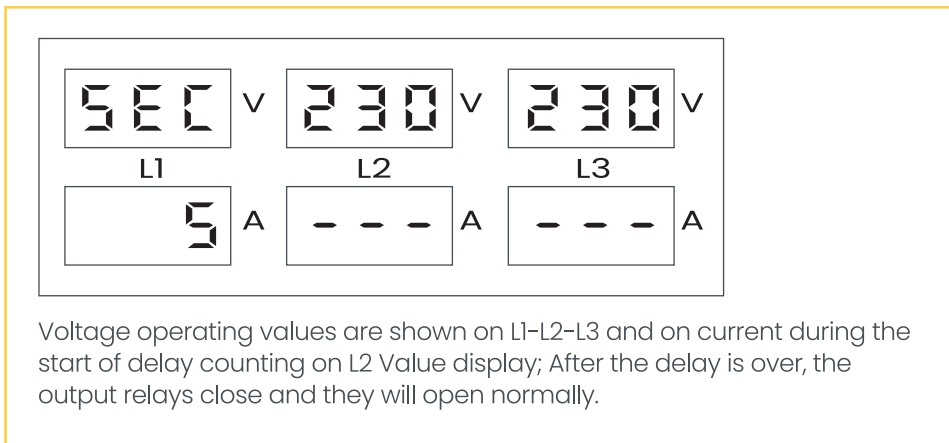
● **Product status statement**

- If a voltage fault is detected during the relay's reset/start delay count, the output relay turns on and the fault indicating LED lights up
- The operating voltage and current values will be displayed on the screen when the relay is operating normally. If a voltage or current fault is detected, the output relay turns on and the fault indication LED lights up
- Voltage failure: If the input voltage is detected to trip back to Hys after a voltage failure; During counting the relay will automatically reset reset/start delay fault indicator light off working voltage and current value flashing screen
- Current failure: When the relay fails due to current trip, it will reset automatically. Reset/start delay during counting, failure indicator LED off operating voltage and current value flashing on the screen.

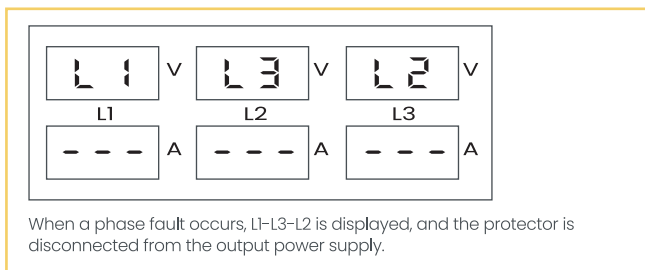
● Display panel



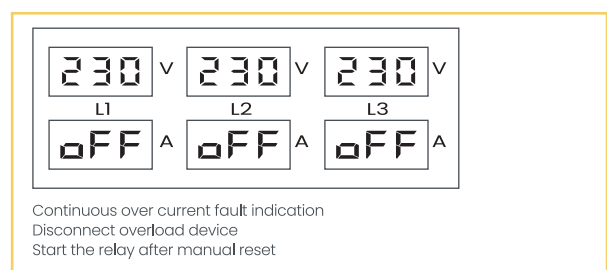
● Reset/start delay display



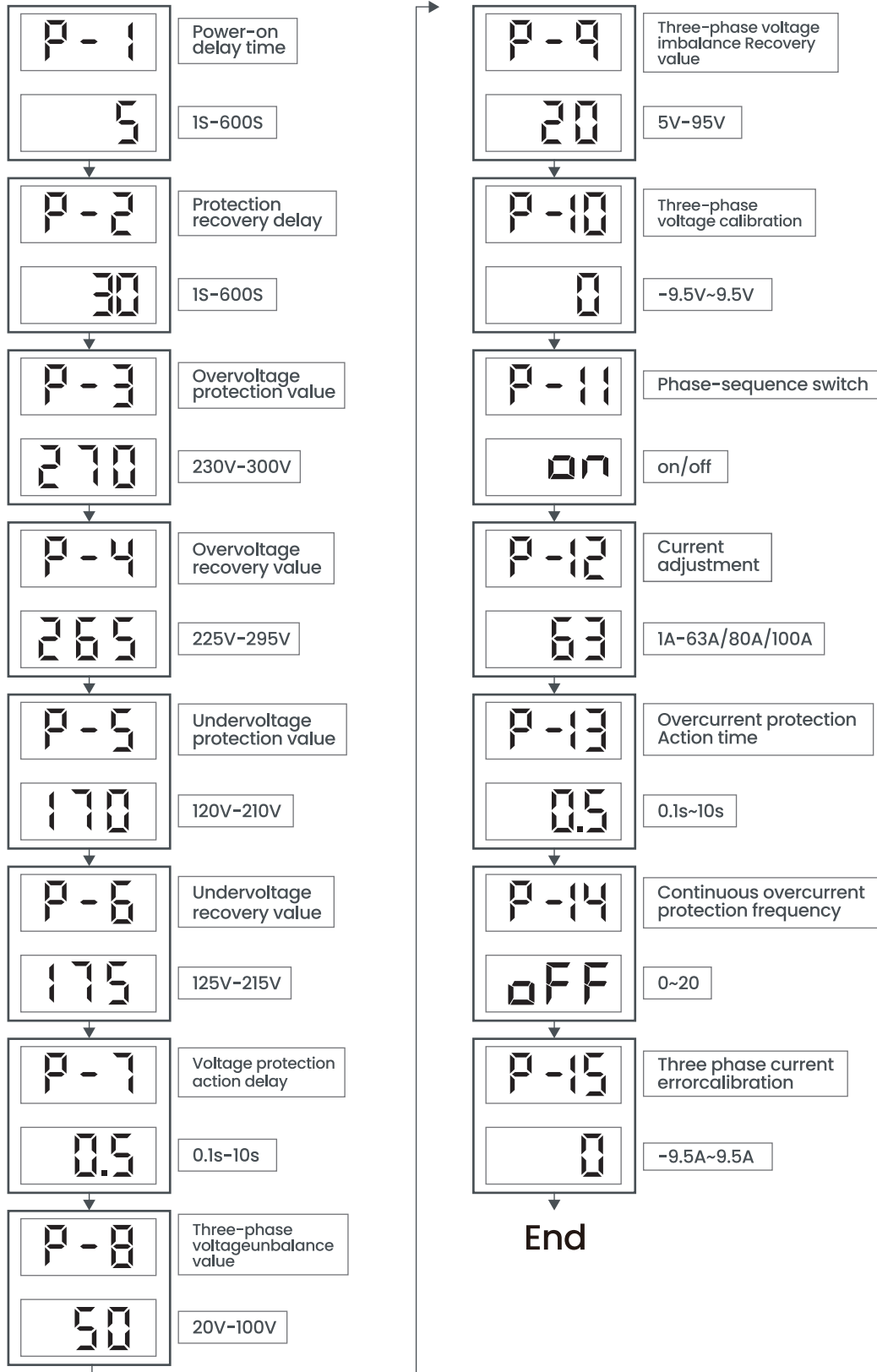
● Phase sequence error indication



Indication of continuous over current faults



● Setup menu





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