

3-Phase Voltage / Current Protector GPS8-03

Instruction Manual



General

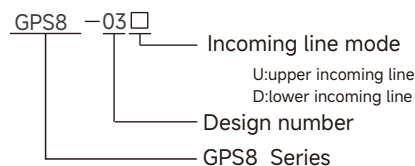
■ Applications

- Overvoltage ,undervoltage and overcurrent protection for household equipment.

■ Function Features

- Voltage / current(True RMS)monitoring and protection.
- Use true RMS measurement.
- Double bus wiring design stronger ability.
- Over / under voltage value and over-current value can be set.
- Self reset after fault.
- Digital display voltage, current value, fault status can be displayed by LED.
- DIN rail mounting.

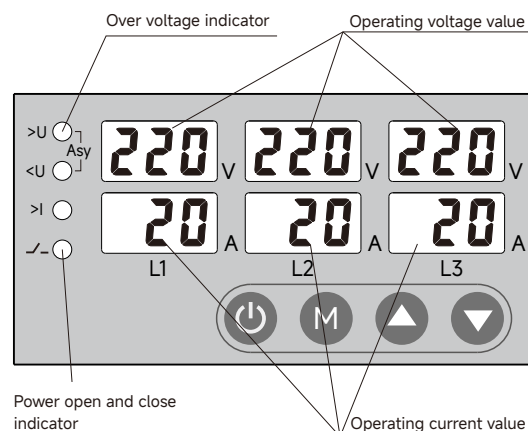
■ Model and connotation



Technical parameters

| GPS8-03 | |
|---------------------------------|--|
| Function | Over voltage, under voltage and over current |
| Rated supply voltage | AC220V(L1,L2,L3-N) |
| Rated supply frequency | 45~65Hz |
| Operation voltage range | 80V~400V(L1,L2,L3-N) |
| Rated operational current | 63A,80A (AC1) |
| Burden | AC max.3VA |
| Over voltage operation value | OFF,230V~300V |
| Under voltage operation value | 140V~210V,OFF |
| Over/under voltage action delay | 0.1s~10s |
| Over current operation value | 1A~63A,80A |
| Over current action delay | 2s~600s |
| Voltage unbalance value | 20V~99V |
| Voltage unbalance action time | 10s |
| Power-up delay | 2~600s |
| Reset time | 2~900s |
| Measurement error | ≤1% |
| Electrical life(AC1) | 1×10 ⁴ |
| Mechanical life | 1×10 ⁶ |
| Operating temperature | -20°C ~ +60°C |
| Storage temperature | -35°C ~ +75°C |
| Mounting/DIN rail | Din rail EN/IEC 60715 |
| Protection degree | IP40 for front panel/IP20 terminals |
| Operating position | any |
| Overvoltage cathegory | III. |
| Pollution degree | 2 |
| Dimensions | 82×72×68mm |
| Weight | 376g |

Panel Diagram



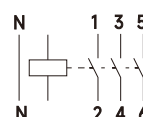
| | |
|-----|---|
| ⏻ | 1.It can be used to manually turn on or off the load. 2.If the automatic fault reset function is turned off, this button can be used for manual reset when the fault occurs. |
| (M) | Press and hold the setting key for 3 seconds to enter the setting. After modifying the setting, press and hold for 3 seconds to save the setting. |
| ▲ | Used to increase the value when setting parameters. |
| ▼ | Used to reduce the value when setting parameters. |

Parameter setting

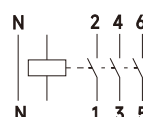
| Parameter | Range | Step value | Factory settings |
|------------------------------|----------------|------------|------------------|
| Over voltage value | OFF,230V~300V | 1V | 275V |
| Over voltage recovery value | 225V~295V | 1V | 265V |
| Under voltage value | 145V~210V,OFF | 1V | 175V |
| Under voltage recovery value | 145V~215V | 1V | 180V |
| Voltage fault action time | 0.1s~10s | 0.1s | 0.5s |
| Over current value | OFF,1A~63A,80A | 0.1A | 60A/80A |
| Over current action delay | 2s~600s | 1s | 5s |
| Voltage unbalance value | OFF,20V~99V | 1V | 40V |
| Power on delay time | 2s~600s | 1s | 5s |
| Reset time | 2s~900s | 1s | 30s |
| Phase sequence | ON-OFF | — | OFF |
| Fault reset | ON-OFF | — | ON |

Wiring Diagram

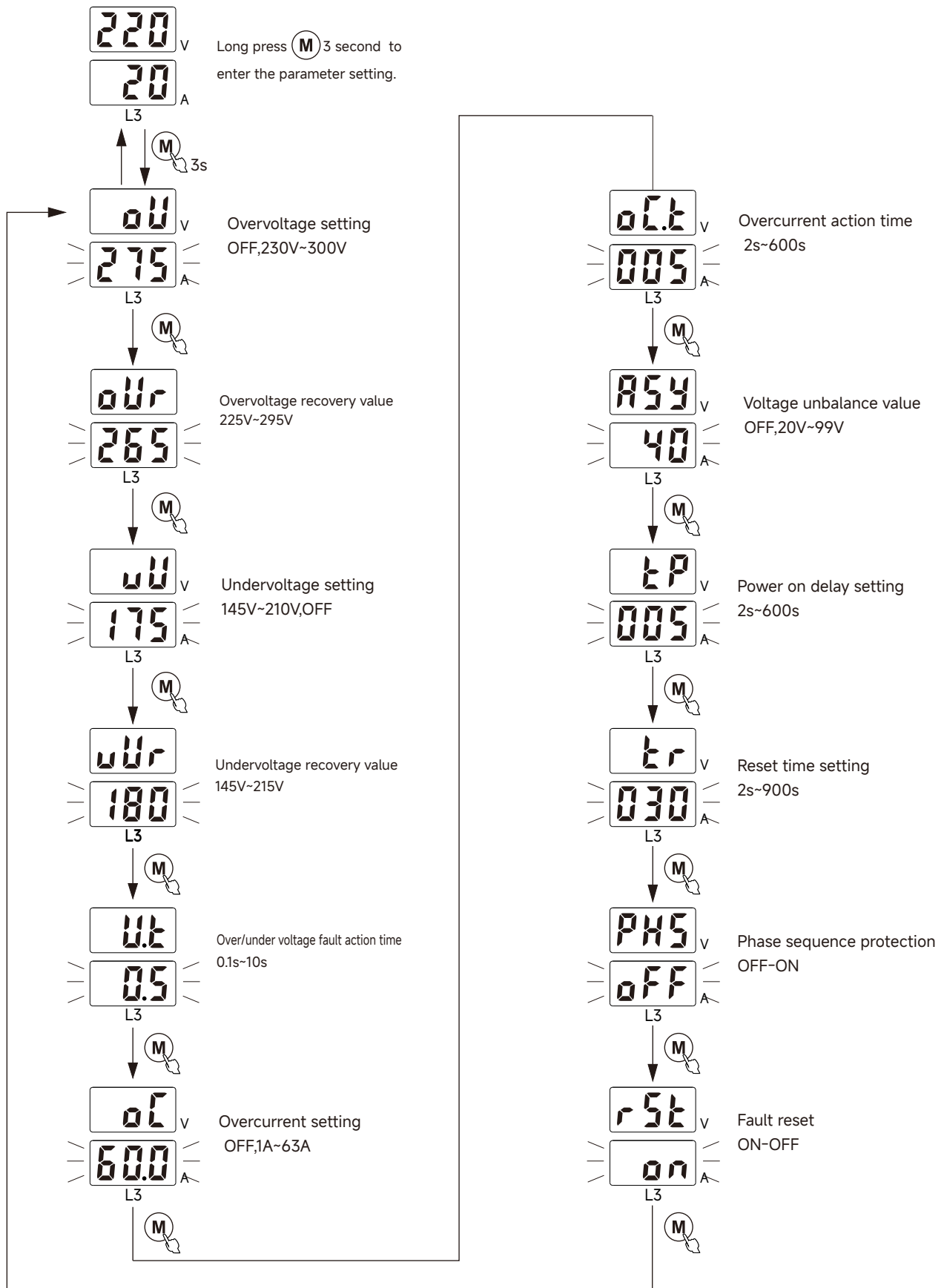
GPS8-03U



GPS8-03D



Parameter setting

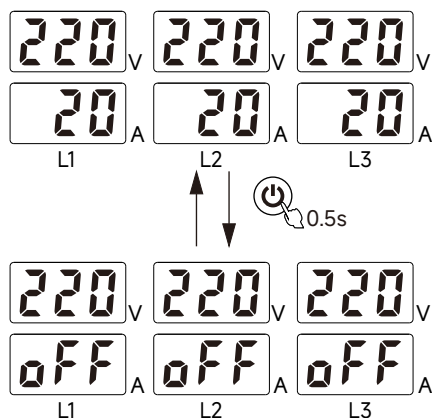


NOTE:

Short press (▼) (▲) can add and drop parameters, long press can be quickly set. If 60s does not operate the key, it will exit automatically. You can press and hold (M) for 3 seconds to exit the setup mode and enter the running mode.

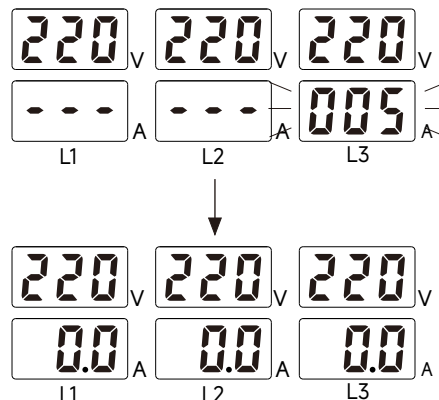
Open and close manually

Under normal operation, the load can be switched on or off manually by pressing the power key for 0.5 seconds.



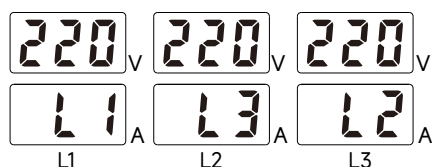
Power-on and reset delay

During the power-on and fault reset of the product, the product will count down and display according to the set delay time, and will enter the running state when the countdown ends.



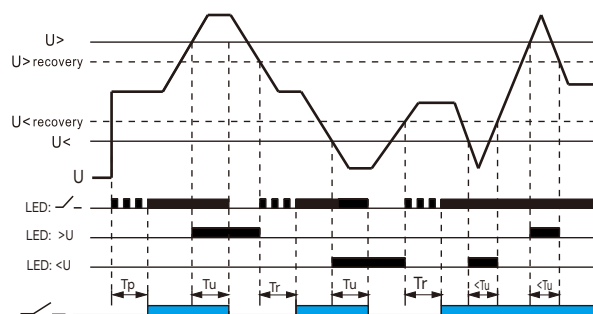
Phase sequence fault

When the phase sequence protection function is turned on, the error of phase sequence access will be prompted as shown in the following figure.

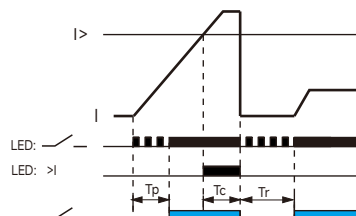


Functions Diagram

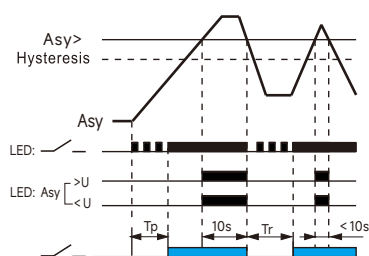
Overvoltage or undervoltage fault



Overcurrent fault



Voltage unbalance fault



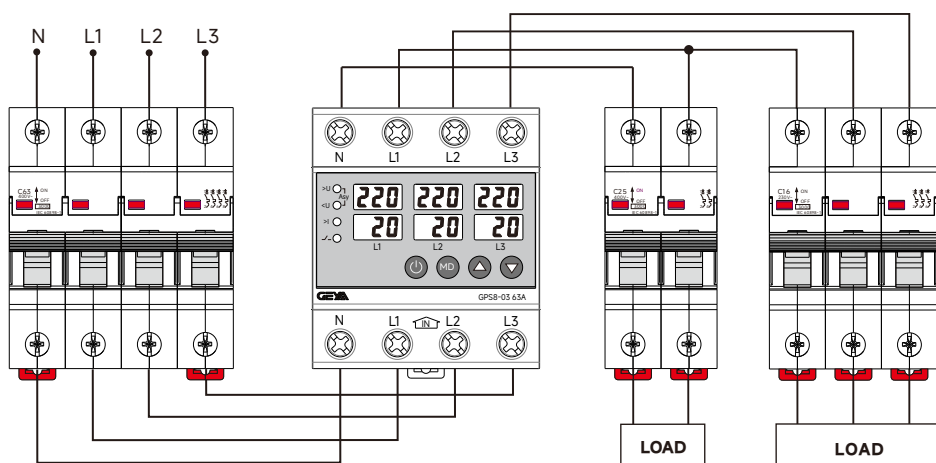
Tp: Power-up delay(2~600s)

Tr: Reset delay time(2~900s)

Tu: Over/under voltage fault action time(0.1~10s)

Tc: Overcurrent fault action time(2~600s)

Example

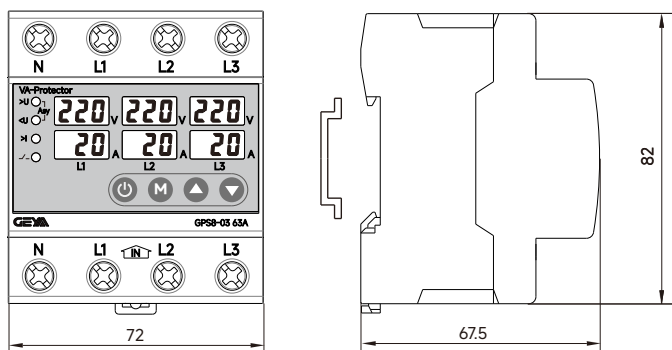


NOTE:

This product does not have isolation function. Please disconnect the superior MCB during maintenance!!!

Dimensions(mm)

GPS8-03



Disposal of Electrical Waste

All electrical waste should be disposed of in compliance with current WEEE regulations.



Caution

The products must be installed by qualified electricians. All and any electrical connections of the time relay shall comply with the appropriate safety standards.