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GEYA ELECTRICAL

GEYA ELECTRICAL GPS8-03 3 Phase Voltage Current Protector



Specifications

- **Model:** GPS8-03
- **Function:** Overvoltage, undervoltage, and overcurrent protection for household equipment
- **Supply Voltage:** AC220V (L1, L2, L3-N)
- **Supply Frequency:** 45-65Hz
- **Operation Voltage Range:** 80V-400V (L1, L2, L3-N)
- **Rated Operational Current:** 63A, 80AAC1
- **Burden:** AC max. 3VA
- **Mounting:** DIN rail
- **Protection Degree:** IP40 for front panel/IP20 terminals

Product Usage Instructions

Installation

1. Locate a suitable spot on the DIN rail for mounting the protector.
2. Ensure proper wiring connections following the provided wiring diagram.
3. Check that the supply voltage and frequency fall within the specified ranges.

Setting Parameters

1. Press and hold the setting key for 3 seconds to enter setting mode.
2. Use the buttons to increase or decrease parameter values as needed.
3. After modifying the settings, press and hold for 3 seconds to save the changes.

Manual Reset

If the automatic fault reset function is disabled, press the reset button manually to clear faults.

Operation

- The protector will monitor voltage and current levels continuously.
- If any parameter exceeds the set limits, the protector will trigger protection mechanisms.

General

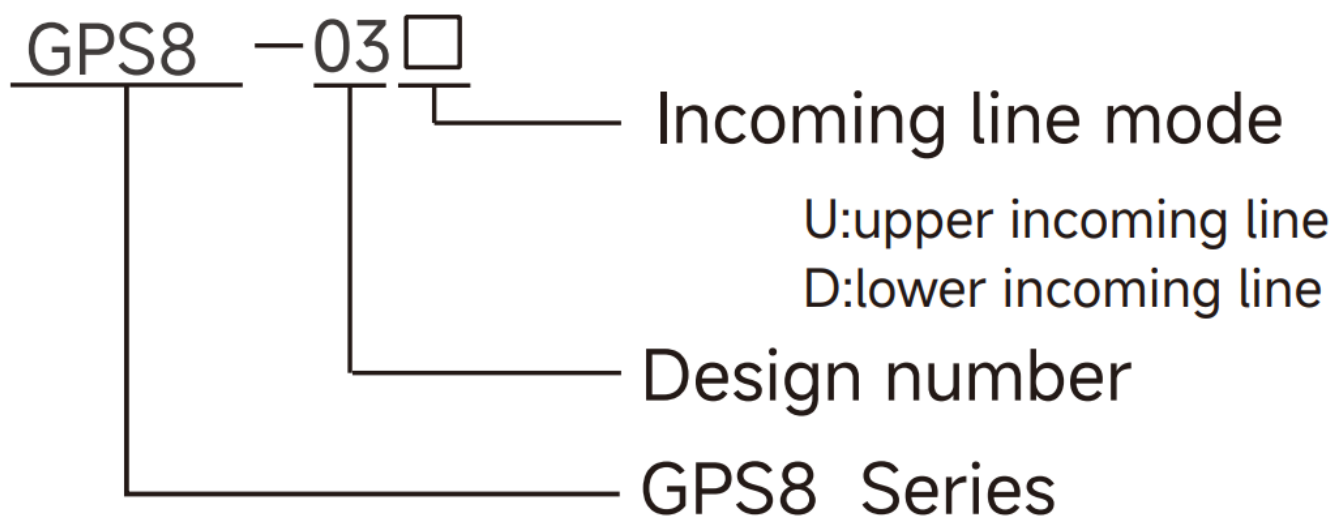
• Applications

- 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 overcurrent values can be set.
- Self resets after a fault.
- Digital display voltage, current value, and fault status can be displayed by an LED.
- DIN rail mounting.

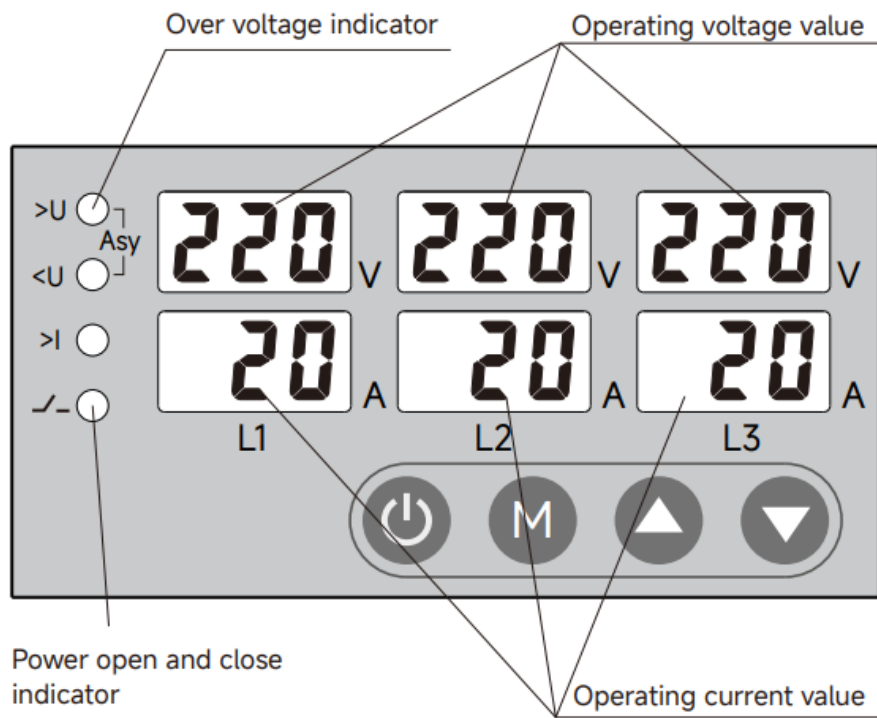
• Model and connotation







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℃ ~ +60℃
Storage temperature	-35℃ ~ +75℃
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

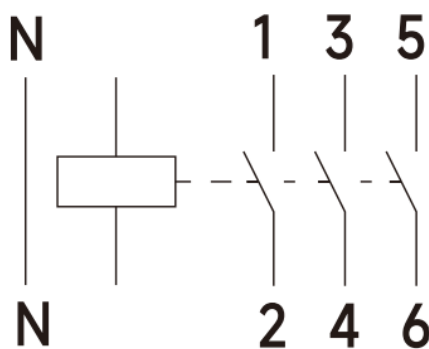
Panel Diagram



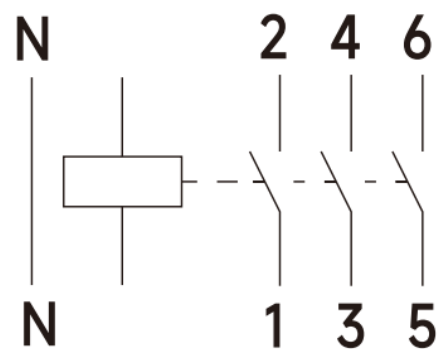
	<p>1.It can be used to manually turn on or off the load.</p> <p>2.If the automatic fault reset function is turned off, this button can be used for manual reset when the fault occurs.</p>
	Press and hold the setting key for 3 seconds to enter the setting. After modifying the setting, press and hold for 3 seconds to save the setting.
	Used to increase the value when setting parameters.
	Used to reduce the value when setting parameters.

Wiring Diagram

GPS8-03U

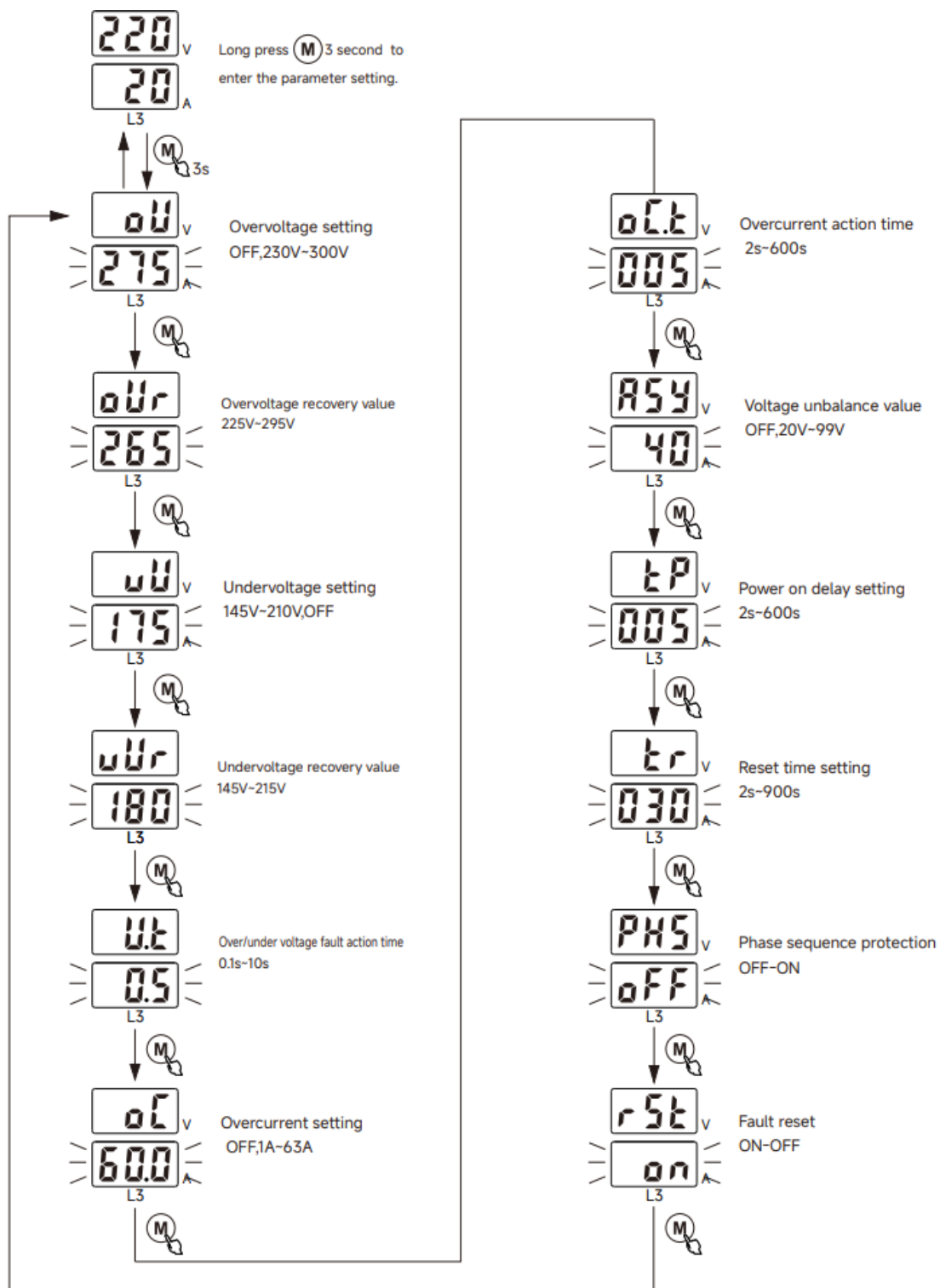


GPS8-03D



Parameter setting

Parameter	Range	Step value	Factory settings
Overvoltage 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 the 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

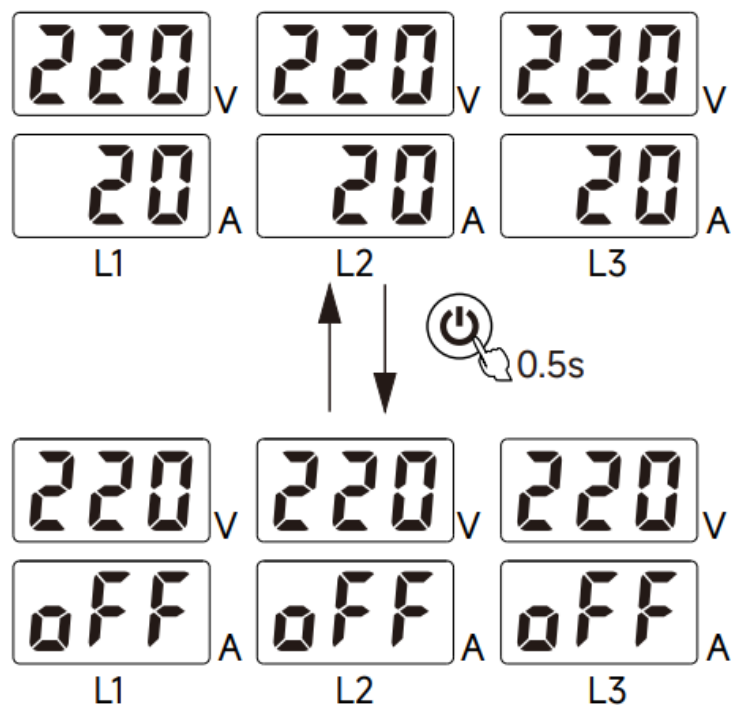


- **NOTE:** Short press ▼ ▲ can add and drop parameters, long press can be quickly set. If the 60s do not operate the key, it will exit automatically.
- You can press and hold (M) for 3 seconds to exit the setup mode and enter the running mode.

Open and close manually

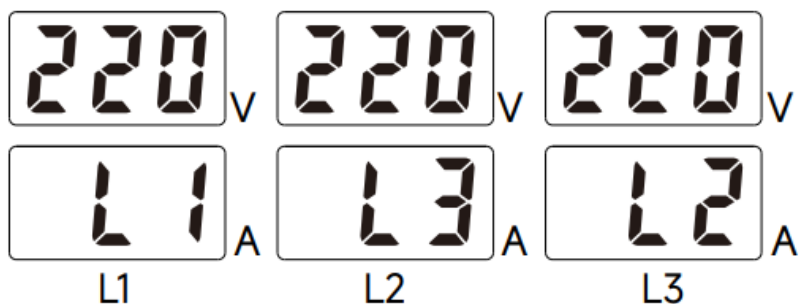
- Under normal operation, the load can be switched on or off manually by pressing the

power key for 0.5 seconds.



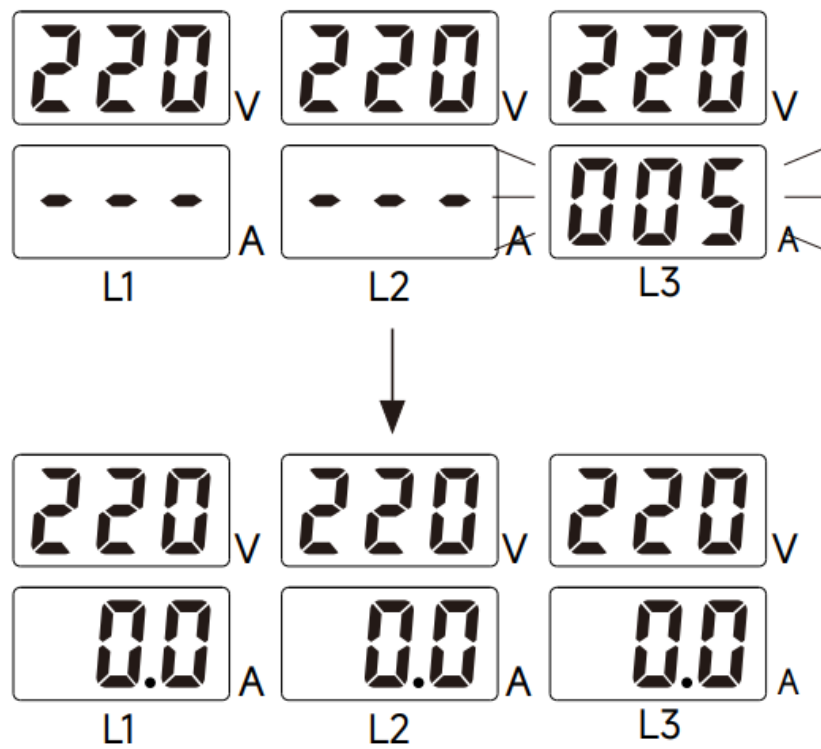
Phase sequence fault

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



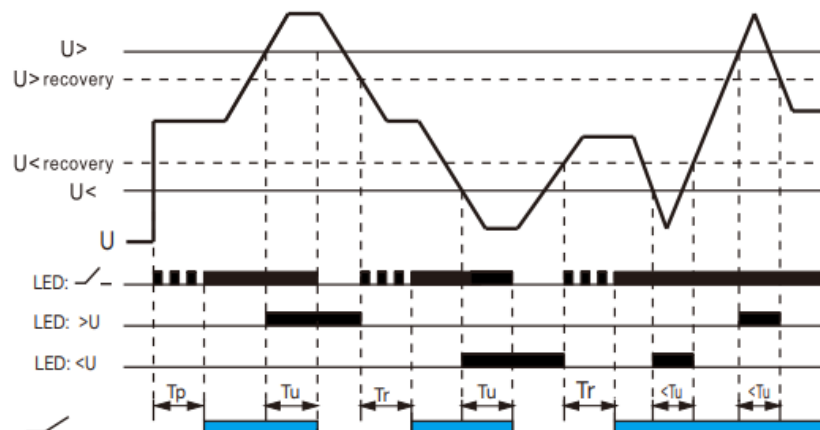
Power-on and reset delay

- 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.

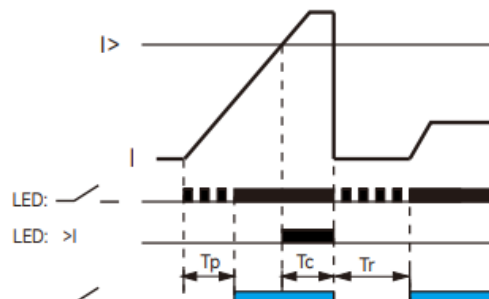


Functions Diagram

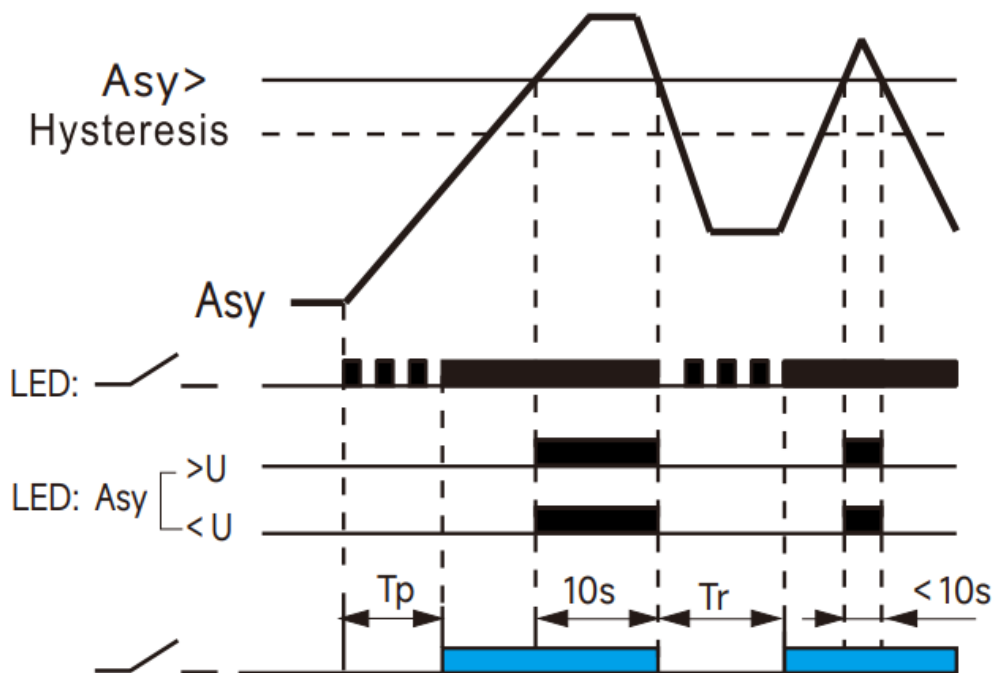
- Overvoltage or undervoltage fault



- Overcurrent fault

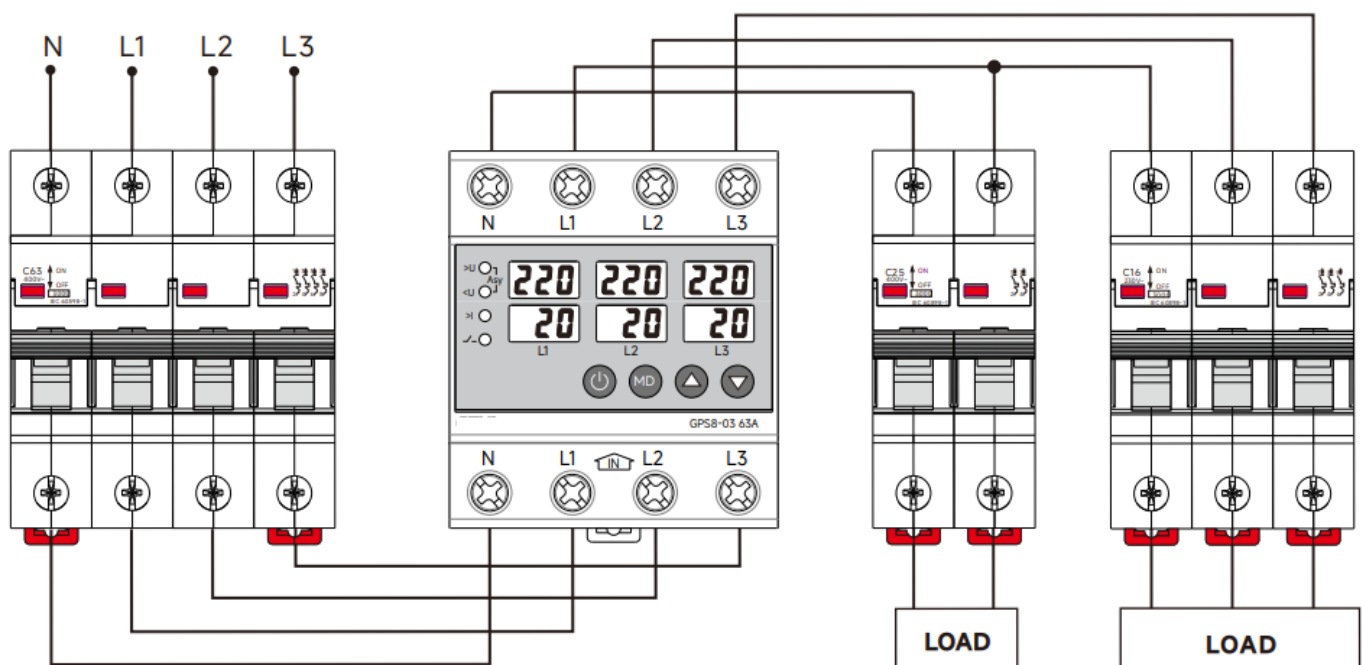


- Voltage unbalance fault



- **T_p** : Power-up delay(2~600s)
- **T_r** : Reset delay time(2~900s)
- **T_u** : Over/under voltage fault action time(0.1~10s)
- **T_c** : Overcurrent fault action time(2~600s)

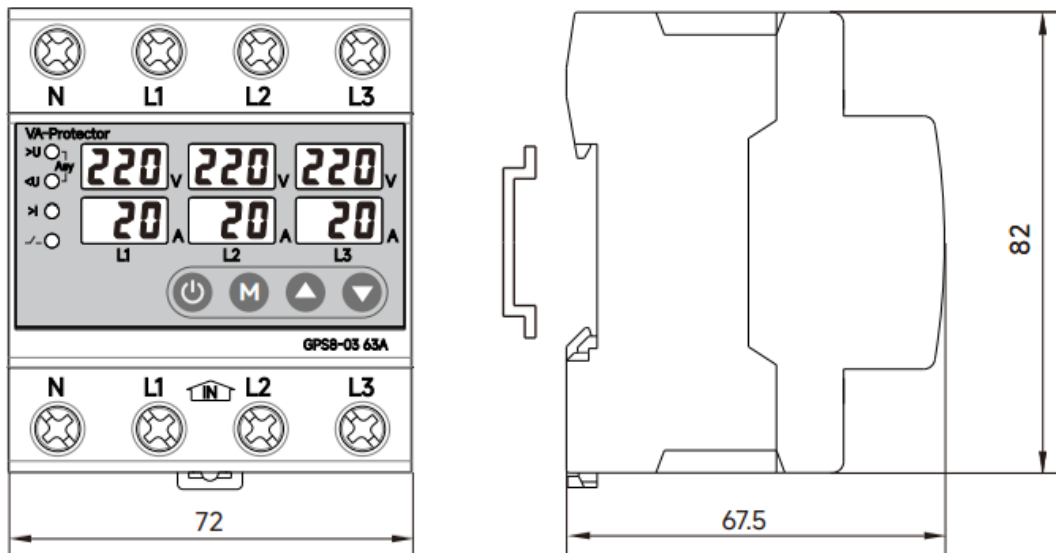
Example



- **NOTE:** This product does not have an isolation function.
- Please disconnect the superior MCB during maintenance!!!

Dimensions

(mm)



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.

CUSTOMER SERVICE

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FAQ

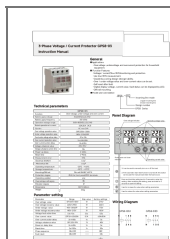
How can I reset the protector manually?

Press the reset button on the device to manually reset it when a fault occurs.

What is the power-up delay time for the protector?

The power-up delay time can be set within the range of 2 to 900 seconds.

Documents / Resources



[GEYA ELECTRICAL GPS8-03 3 Phase Voltage Current Protector \[pdf\]](#) Instruction Manual

GPS8-03 3 Phase Voltage Current Protector, GPS8-03, 3 Phase Voltage Current Protector, Voltage Current Protector, Current Protector, Protector

References

- [User Manual](#)

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◆ 3 Phase Voltage Current Protector, Current Protector, GEYA ELECTRICAL, GPS8-03, GPS8-03 3 Phase Voltage Current Protector, Protector, Voltage Current Protector

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