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.

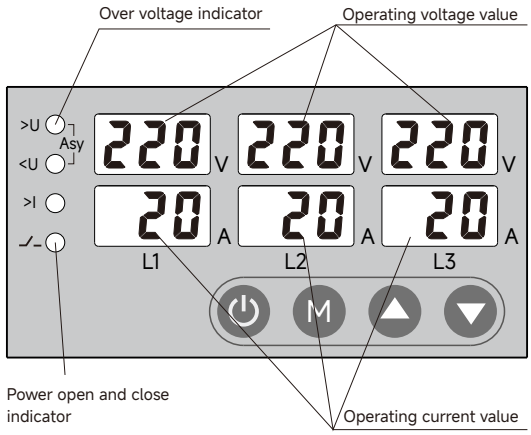
■Model and connotation

GPS8 —03□
- Incoming line mode
  - U:upper incoming line
  - D:lower incoming line
- Design number
- GPS8 Series

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



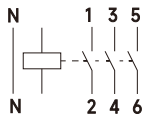
⏻	1.It can be used to manually turn on or off the load. 2.If the automatic fault reset function is turned off, this button can be used for manual reset when the fault occurs.
M	Press and hold the setting key for 3 seconds to enter the setting. After modifying the setting, press and hold for 3 seconds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

Parameter setting

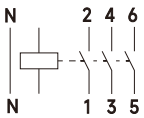
Parameter	Range	Step value	Factory settings
Over voltage value	OFF,230V~300V	1V	275V
Over voltage recovery value	225V~295V	1V	265V
Under voltage value	145V~210V,OFF	1V	175V
Under voltage recovery value	145V~215V	1V	180V
Voltage fault action time	0.1s~10s	0.1s	0.5s
Over current value	OFF,1A~63A,80A	0.1A	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

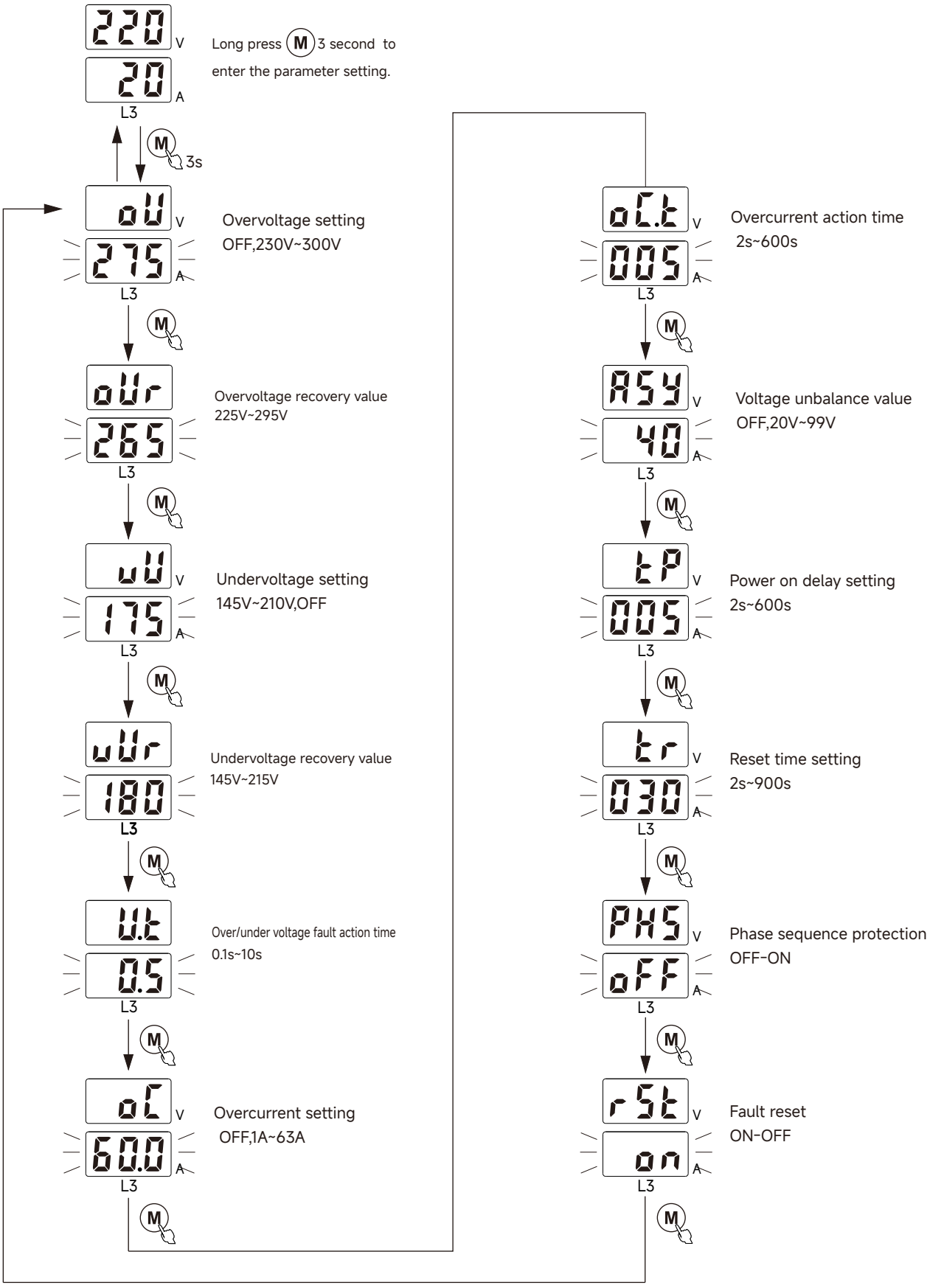
GPS8-03U



GPS8-03D



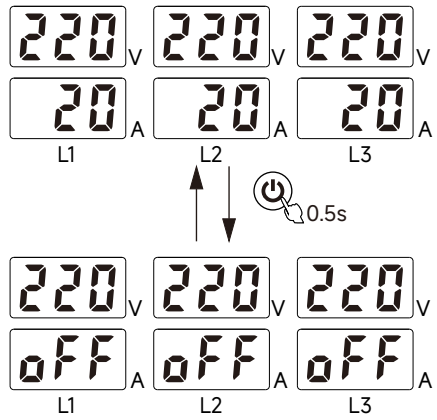
Parameter setting



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.

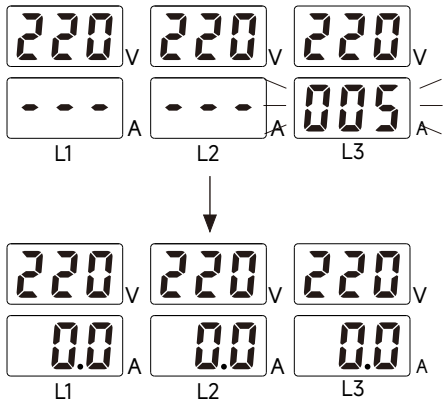
Open and close manually

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



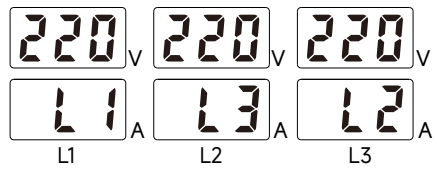
Power-on and reset delay

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.



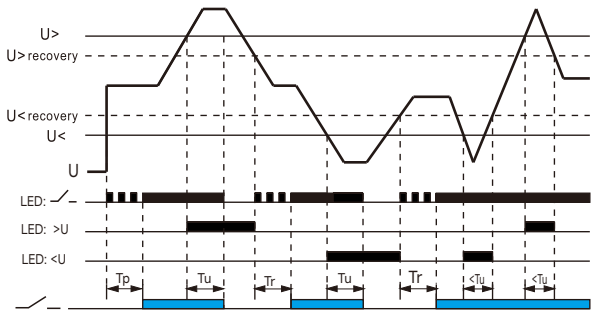
Phase sequence fault

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

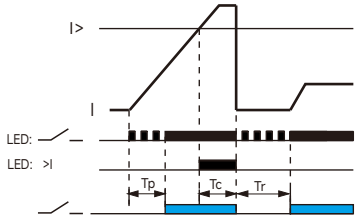


Functions Diagram

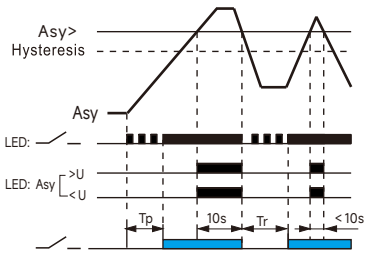
Overvoltage or undervoltage fa ult



Overcurrent fault

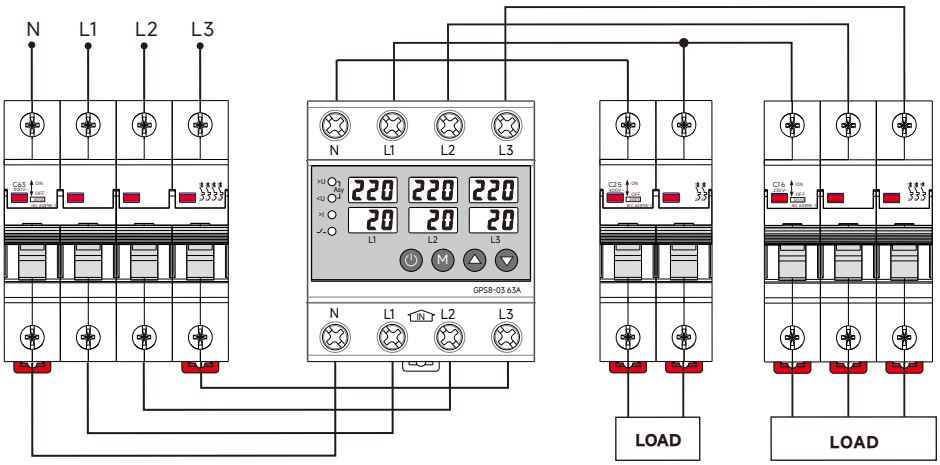


Voltage unba lance fa ult



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)

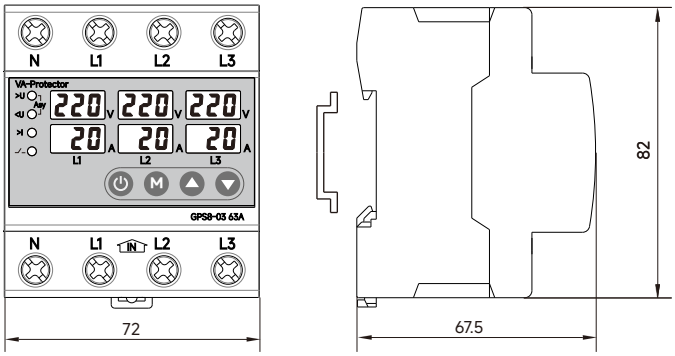
Example



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.