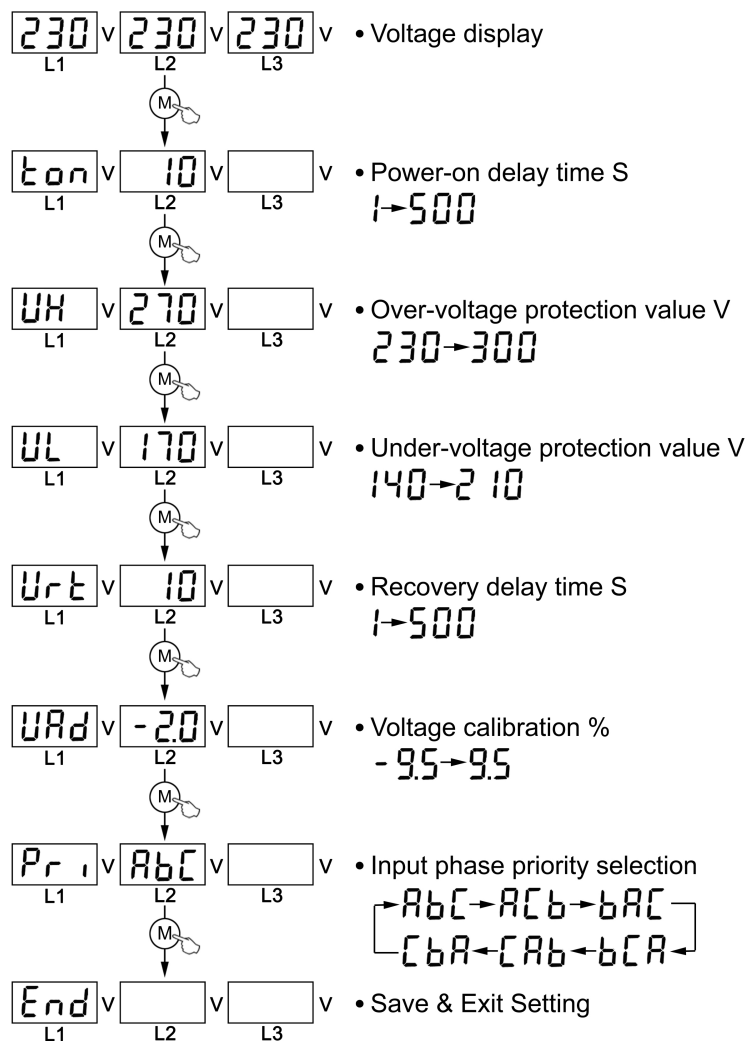


● MAIN MENU SETTING

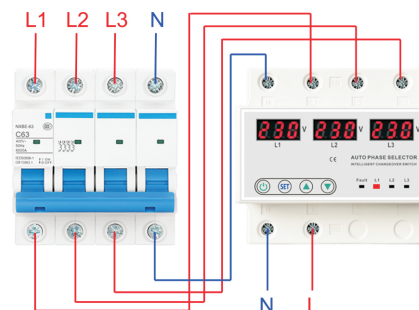


• Long press ▲ ▼ can increase or decrease rapidly.

OPERATING INSTRUCTIONS

- If a voltage fault was detected when the reset/start delay of relay is counting, the output relay opens and faults indication LED lights up.
- The operating voltage values will be displayed on screen when the relay is operating normally. If a voltage fault was detected, the output relay opens and fault indication LEDs light up.
- Voltage faults: If input voltage was detected to have returned to Hys after tripped for voltage faults, the relay will reset automatically. During the counting of reset/start delay faults indication LEDs go out and the operating Voltage values flash on screen.

WIRING DIAGRAM



Adjustable voltage protective device with automatic phase switching function

Instruction Manual



SAFETY PRECAUTIONS

- 1.The device must be installed by a qualified person.
- 2.Disconnect all power before working on the device.Don't touch any terminal when the power is ON.
- 3.Verify correct terminal connection when wiring.
- 4.Don't dismantle or repair the device whether it operates normally, otherwise no responsibility is assumed by producer and seller.
- 5.Never use the device at the site which can be invaded by corrode gas,strong sunshine light and rain.
- 6.Clean the device with a dry cloth.
- 7.Fail to follow these instructions will result in serious injury or death.

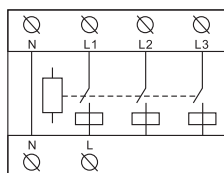
FEATURES

- Microcontroller based
- Digit display for operating voltage value
- Protect electrical device against over/under voltage
- Voltage measurement accuracy $\leq 1\%$
- Parameters setting by keys
- LEDs indication for over/under voltage faults
- DIN Rail mounting

TECHNICAL DATA

Rated supply voltage	AC220V
Operation voltage range	AC140V-300V
Rated frequency	50/60Hz
Hysteresis	Over voltage and asymmetry:5V Under voltage:3V
Asymmetry trip delay	10s
Voltage measurement accuracy	$\leq 1\%$ (over the whole range)
Rated insulation voltage	450V
Output contact	1NO
Electrical life	10^5
Mechanical life	10^5
Protection degree	IP20
Pollution degree	3
Altitude	$\leq 2000\text{m}$
Operating temperature	$-5^{\circ}\text{C}-40^{\circ}\text{C}$
Humidity	$\leq 50\%$ at 40°C (without condensation)
Storage temperature	$-25^{\circ}\text{C}-55^{\circ}\text{C}$

SYMBOL

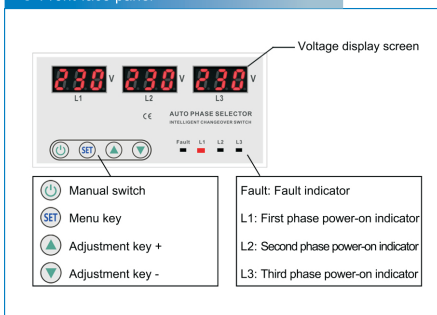


OPERATING RANGE

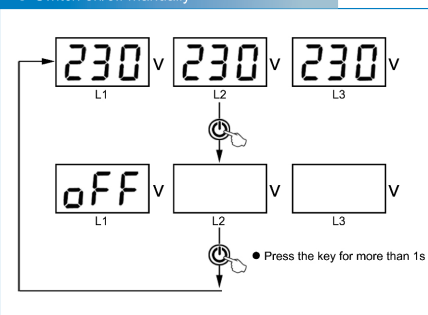
Technical parameter	setting range	Factory setting	Step	Function description
Power-on delay time	1S-500S	10S	1S	After external power cut,the time needed for power-on when power recovery.
Over-voltage protection value	230V-300V	270V	1V	When the voltage is higher than the set value, the protector will cut off the line.
Over-voltage recovery value	225V-295V	265V	/	When the voltage is 5V or more than 5V lower than the over-voltage protection value, the protector will automatically reset.
Under-voltage protection value	140V-210V	170V	1V	When the voltage is lower the set value, the protector will cut off the line.
Under-voltage recovery value	145V-215V	175V	/	When the voltage is 5V or more than 5V higher than the under-voltage protection value, the protector will automatically reset.
Recovery delay time	1S-500S	10S	1S	After voltage recovery,the time needed for automatic reset.
Protection action time	/	1.0S	/	When over or under voltage,the time needed for protection action.
Voltage calibration	-9.5%-9.5%	-2.0	0.5	Correct the voltage error.
Input phase priority selection	ABC-ACB- BAC-BCA- CAB-CBA	ABC	/	Set the input priority of each phase. A:L1, B:L2, C:L3

SCREEN DISPLAY DESCRIPTION

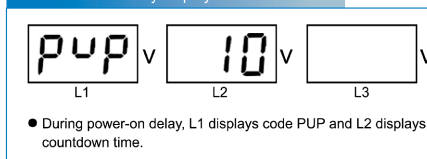
● Front-face panel



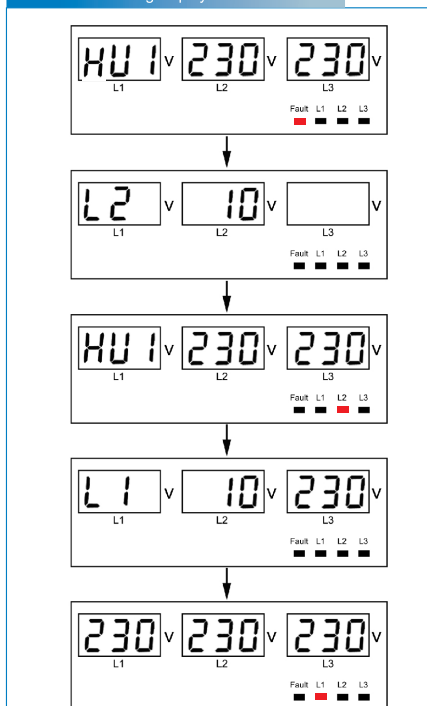
● Switch on/off manually



● Reset/start delay display



● Phase switching display



- When the protector confirms that there is no input at L1 after the setting time in code $\overline{U}r\bar{t}$ of detection, it will automatically switch to L2 input after the setting time in code $\overline{U}r\bar{t}$ of delay. At this time, the L1 screen displays code HU1 or LU1, the L2 and L3 screens display real-time voltage, and the L2 indicator light is on.
- When the protector detects that L1 voltage returns to normal, L2 will be disconnected after the setting time in code $\overline{U}r\bar{t}$ and L1 will be reset in the setting time in code $\overline{U}r\bar{t}$. At this time, the screen will display the countdown, and finally the screen will display three-phase real-time voltage, and the L1 indicator light is on.
- When there is no input at L2, the protector will automatically switch to L3 input; when there is no input at L3, the protector will automatically switch to L1 input, and so on.