



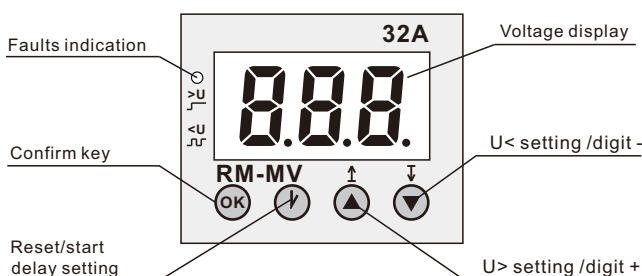
### □ Technical data

Rated supply voltage	AC 220V
Operation voltage range	AC 50V~400V
Rated frequency	50/60Hz
Overvoltage(>U) setting range	210~300V
Undervoltage(<U) setting range	120~210V
Hysteresis	2%
>U trip delay	0.5s
<U trip delay	≥120V: 0.5s, <120V: <0.1s
Reset/start delay	5s~600s
Voltage measurement accuracy	≤1% (over the whole range)
Rated insulation voltage	400V
Output contact	1NO
Electrical life	10 <sup>5</sup>
Mechanical life	10 <sup>6</sup>
Protection degree	IP20
Pollution degree	3
Altitude	≤2000m
Operating temperature	-5°C~40°C
Humidity	≤50% at 40°C (without condensation)
Storage temperature	-25°C~55°C

Technical parameter	Setting range	Step	Factory setting
Overvoltage trip value	210V~300V	1V	250V
Undervoltage trip value	120V~210V	1V	170V
Reset/start delay	5s~600s	1s	15s

Current specification	25A	32A	40A	50A	63A
Rated operating current(In,A)	25	32	40	50	63
Maximum operating current I <sub>max</sub> (A, within 10min)	30	40	50	60	80
Max. power of load(kW)	5.5	7	8.8	11	13.9
Maximum wire size(mm <sup>2</sup> )	6	8	10	16	16

### □ Front panel



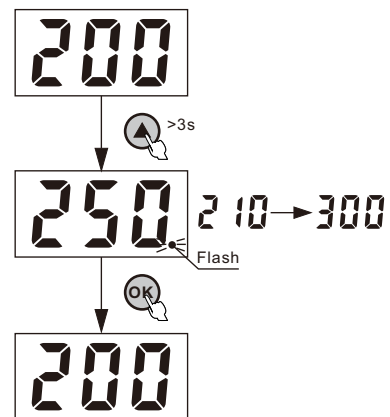
### □ Features

- Microcontroller based
- 3 digit display for operating voltage value
- Protect electrical device against overvoltage and undervoltage
- Reset/start delay adjustable(5~600s)
- Voltage measurement accuracy ≤1%
- Parameters setting by keys
- LEDs indication for overvoltage and undervoltage faults
- 3 Module, DIN Rail mounting

### □ Example of operation

#### ● Overvoltage(U>) setting

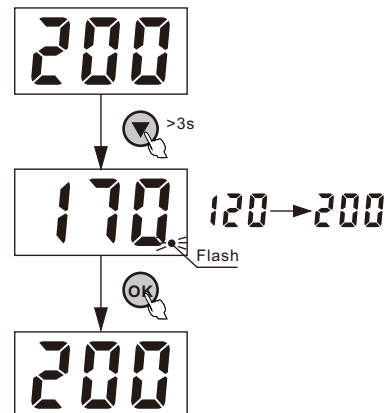
Long press for 3s to enter overvoltage setting menu



- The rightmost dot flashes after entered U> setting menu.
- Change the setting value by pressing keys, long press can increase or decrease rapidly.
- The protector will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.

#### ● Undervoltage(U<) setting

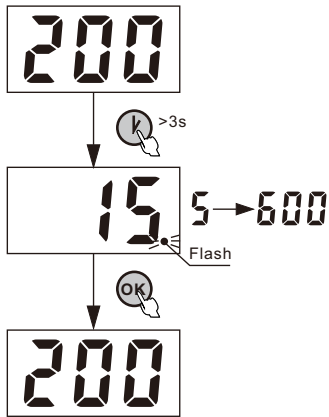
Long press for 3s to enter undervoltage setting menu



- The rightmost dot flashes after entered U< setting menu.
- Change the setting value by pressing keys, long press can increase or decrease rapidly.
- The protector will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.

### ● Reset/start delay setting

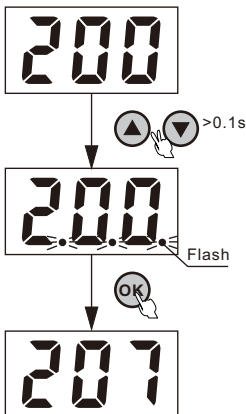
Long press  $\downarrow$  for 3s to enter reset/start delay setting menu.



- The rightmost dot flashes after entered reset/start delay setting menu
- Change the setting value by pressing  $\downarrow$   $\uparrow$  keys, long press can increase or decrease rapidly.
- The protector will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.

### ● Voltage values calibration

Long press  $\downarrow$   $\uparrow$  simultaneously for 0.1s to enter voltage value calibration menu after the relay is energized.



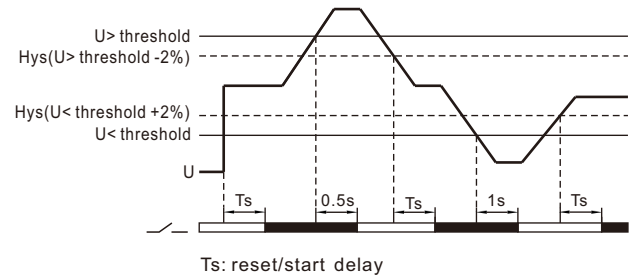
- The three dots flash after entered voltage value calibration menu.
- Change the setting value by pressing  $\downarrow$   $\uparrow$  keys, long press can increase or decrease rapidly.
- The protector will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.

### ● Reset/start delay display



- Operating voltage value flashes on screen during reset/start delay is the counting; it will be normally ON after the delay is over and the output relay closes.

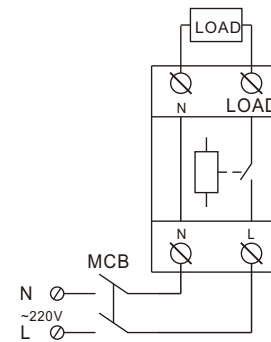
### □ Function diagram



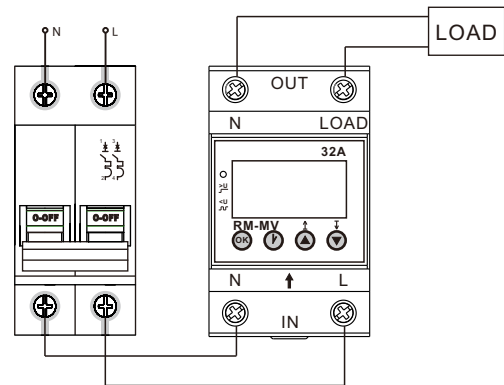
### □ Operating instructions

- If a voltage fault was detected when the reset/start delay is counting, the output relay opens and faults indication LEDs light up.
- The operating voltage value will be displayed on screen when the relay is operating normally. If a voltage fault was detected, the output relay opens and faults indication LEDs light up.
- 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 value flashes on screen.

### □ Symbol



### □ Wiring diagram



- Rated operating current of circuit breaker is 75% maximum current of the relay  $I_e = 0.75 \times I_{max}$

### □ Dimensions

