

I. Application

Adjustable voltage, current and leakage protective device with kilowatt-hour meter is an intelligent protector integrated with over-voltage protector, under-voltage protector, over-current protector and leakage protector. In case of over-voltage fault, under-voltage fault, over-current fault or leakage in line, this product can instantly power off to prevent electrical equipment from being burnt. The over-voltage, under-voltage, over-current and leakage protection values of this product can all be set up by yourself and can be adjusted on the basis of local practical condition.

II. Product features

- 2.1 In case of over-voltage fault, under-voltage fault, over-current fault or leakage fault in single phase line, the product can power off the line and can automatically restore connecting the line over a time delay after voltage or current of the line is recovered to normal condition.
- 2.2 In case of transient over voltage in line, the product can protect the equipment from false operation.
- 2.3 In case that the line subjects to unstable voltage or sudden power-off and power-on due to loosened connection and other fault, the product will disconnect the line.
- 2.4 When fault voltage of the line reaches the peak, the product itself will not be damaged.
- 2.5 The protector can display kilowatt-hour, kW and power factor.

III. Main technical parameters

Function	Technical Parameter	Function	Technical Parameter
Input voltage	AC 140~300V	Power-on/ display interval delay time	1~500s default 10s
Over-voltage protection value	230~300V default 270V	Over-voltage recovery value	225~295V default 265V
Under-voltage protection value	140~210V default 170V	Under-voltage recovery value	145~215V default 175V
Over-current protection value	63A:1~63A default 40A	Over-current recovery value	0.5~62.5A
	80A:1~80A default 60A		0.5~79.5A
Leakage protection value	10~99mA default 30mA	Continuous over current/leakage faults times	1~20 times default OFF
Recovery delay time	1~500s default 30s	Action time	0.1~30s default 1s
Voltage/current/kW calibration	-9.9~9.9%	Power consumption	≤2W
Electrical and mechanical life	≥100000cycles	Boundary dimension	95×45×68MM

IV. Product setting:

230V 10mA
063.0A
88888.8 kWh

bt
on

- Screen bright time S
OFF / I→500 / on

RE
10

- Display interval delay time S
OFF / I→500

PL
10

- Power-on delay time S
OFF / I→500

8H
270

- Over-voltage protection value V
230→300

UHr
265

- Over-voltage recovery value V
225→295

UHrt
30

- Over-voltage recovery delay time S
I→500

UHET
1

- Over-voltage protection action time S
0.1→30

UL
170

- Under-voltage protection value V
140→210

ULr
175

- Under-voltage recovery value V
145→215

UHrt
30

- Under-voltage recovery delay time S
I→500

ULET
1

- Under-voltage protection action time S
0.1→30

CH
40

- Over-current protection value A
I→63/80

CHrt
30

- Over-current recovery delay time S
I→500

CHET
1

- Over-current protection action time S
0.1→30

CC
off

- Continuous over current faults times
I→20

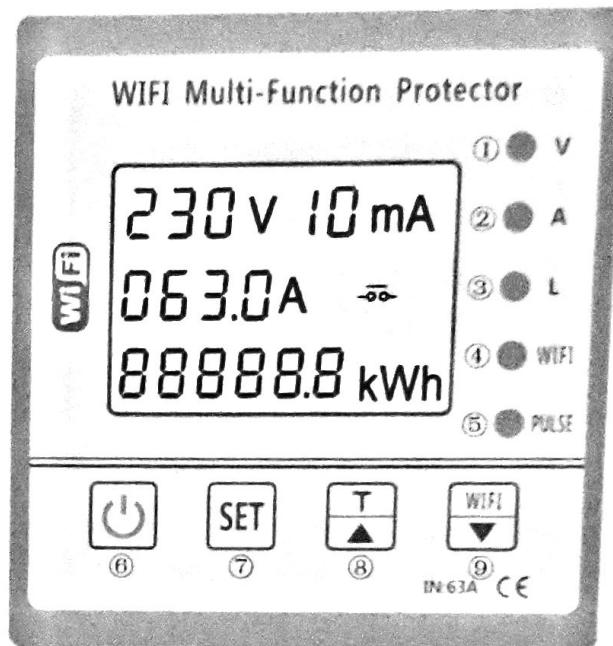
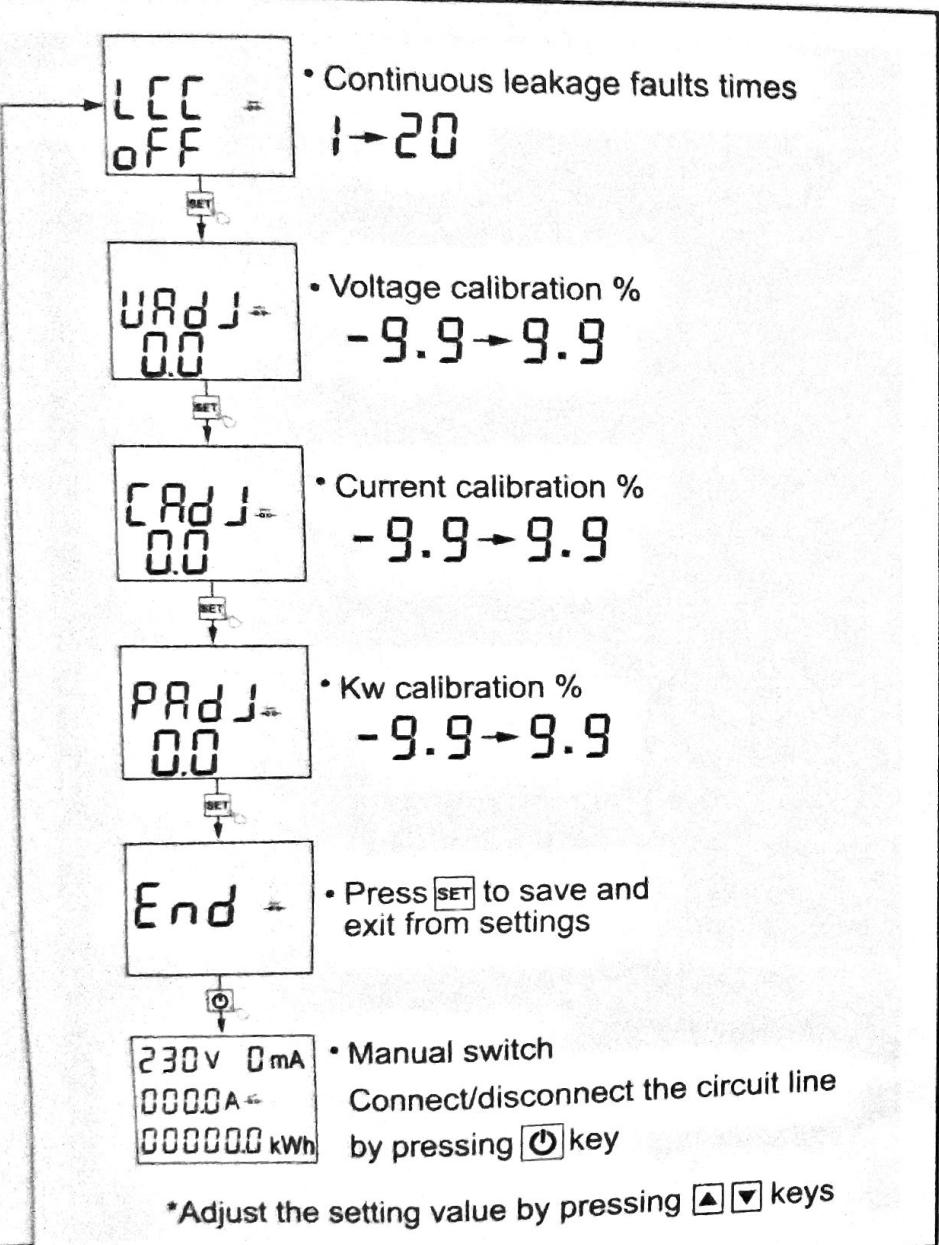
LC
30

- Leakage protection value mA
10→99

LCr
30

- Leakage recovery delay time S
I→500

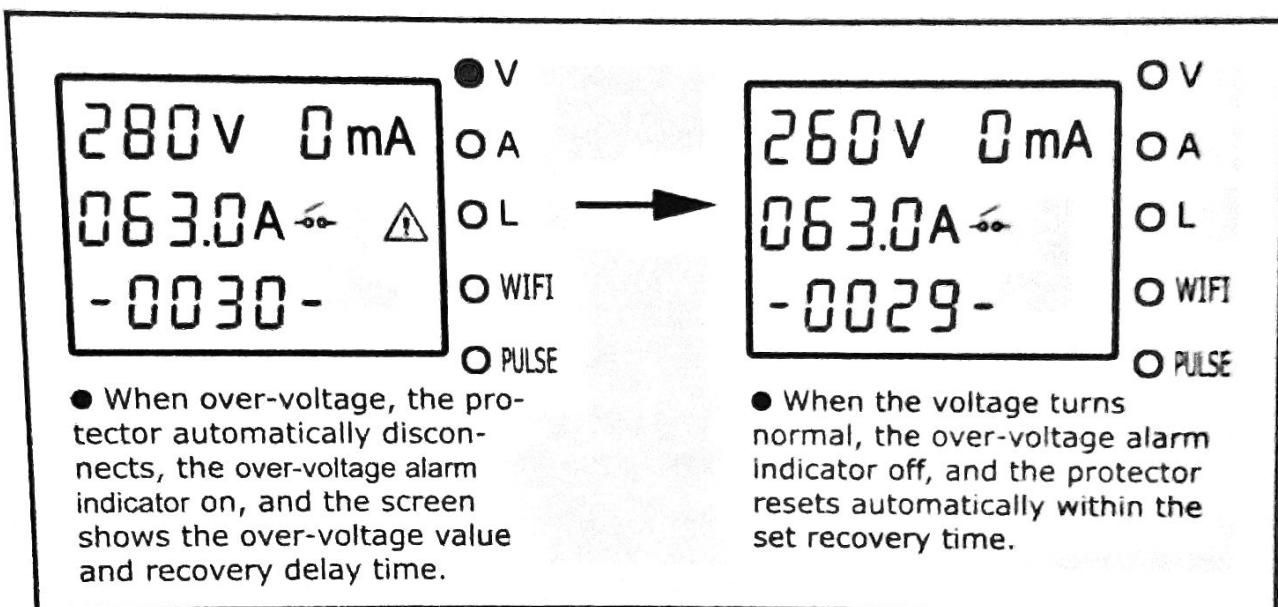
V.Panel indicator lamps and keys instructions



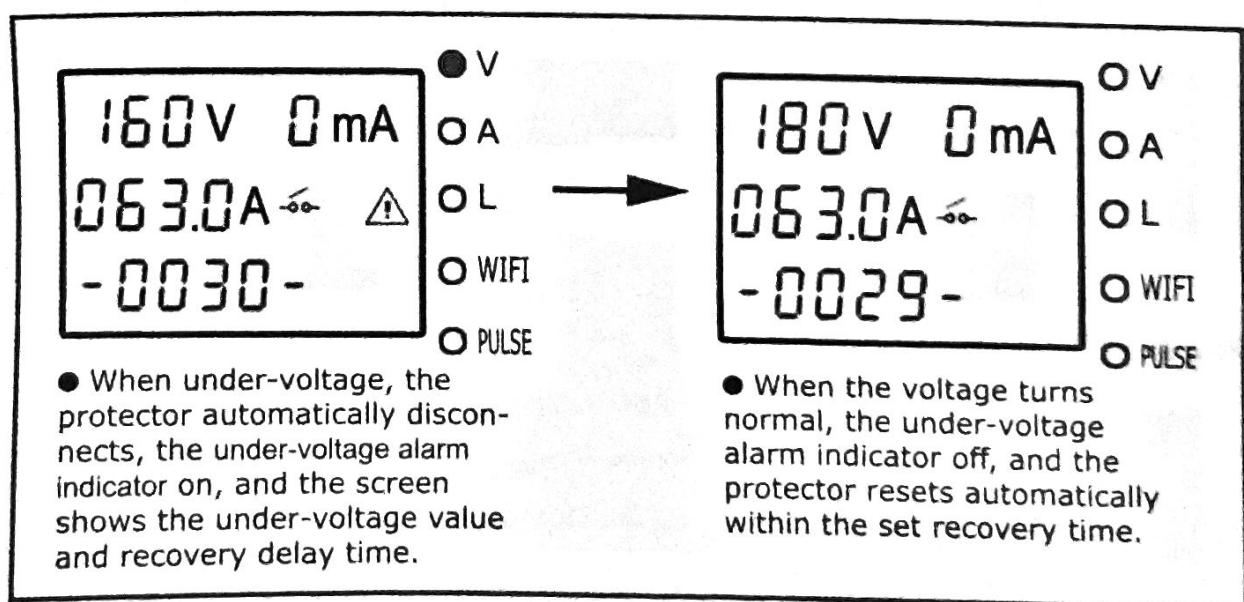
- ① Over/under voltage alarm indicator
- ② Over-current alarm indicator
- ③ Leakage alarm indicator
- ④ WIFI indicator
- ⑤ Kilo-watt hour meter pulse indicator
- ⑥ Manual switch
- ⑦ Set key: Long press for 3 seconds to enter the setting interface
- ⑧ Adjustment key +
Test key: Long press for 3 seconds to test the leakage
- ⑨ Adjustment key -
WIFI key: Long press for 5 seconds to configure the Wifi

VI.Screen display description

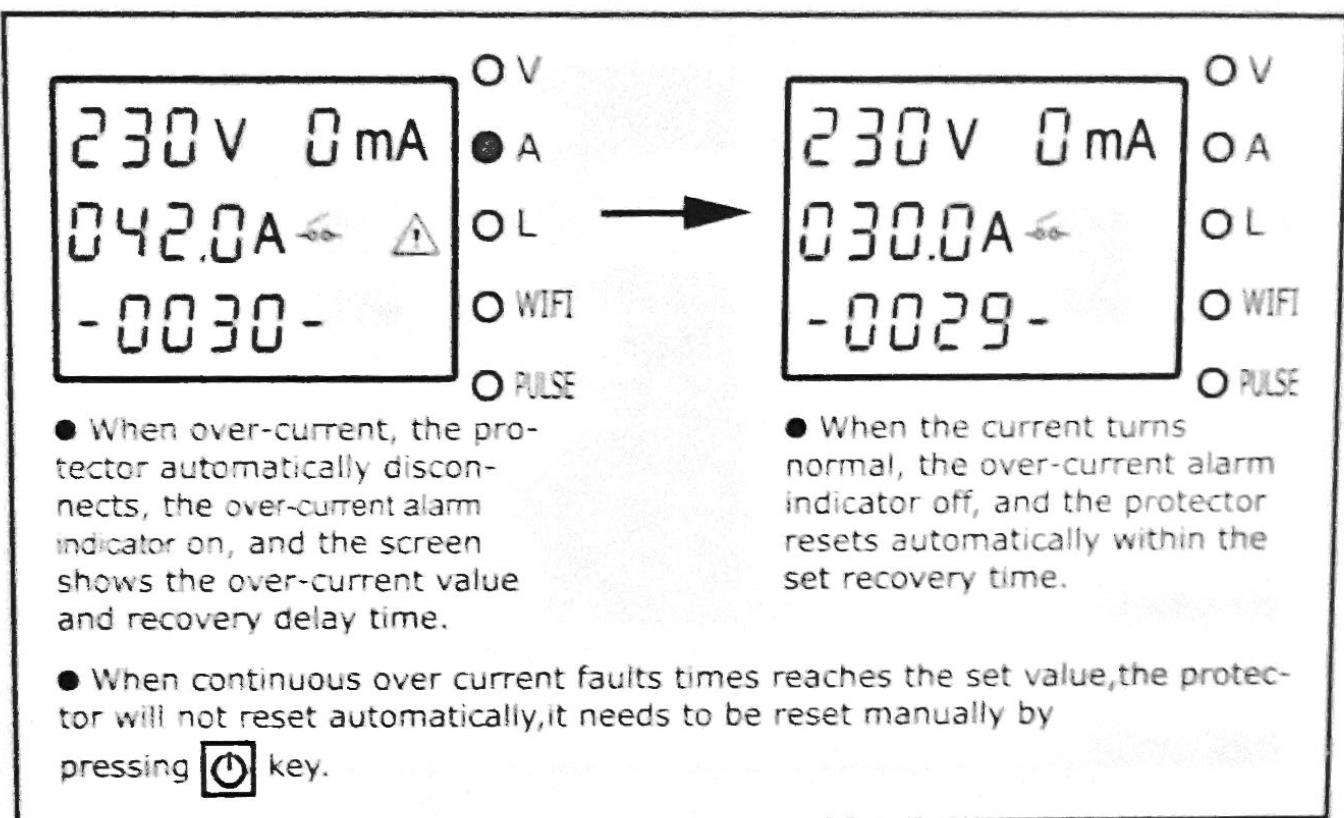
6.1 Over voltage protection status



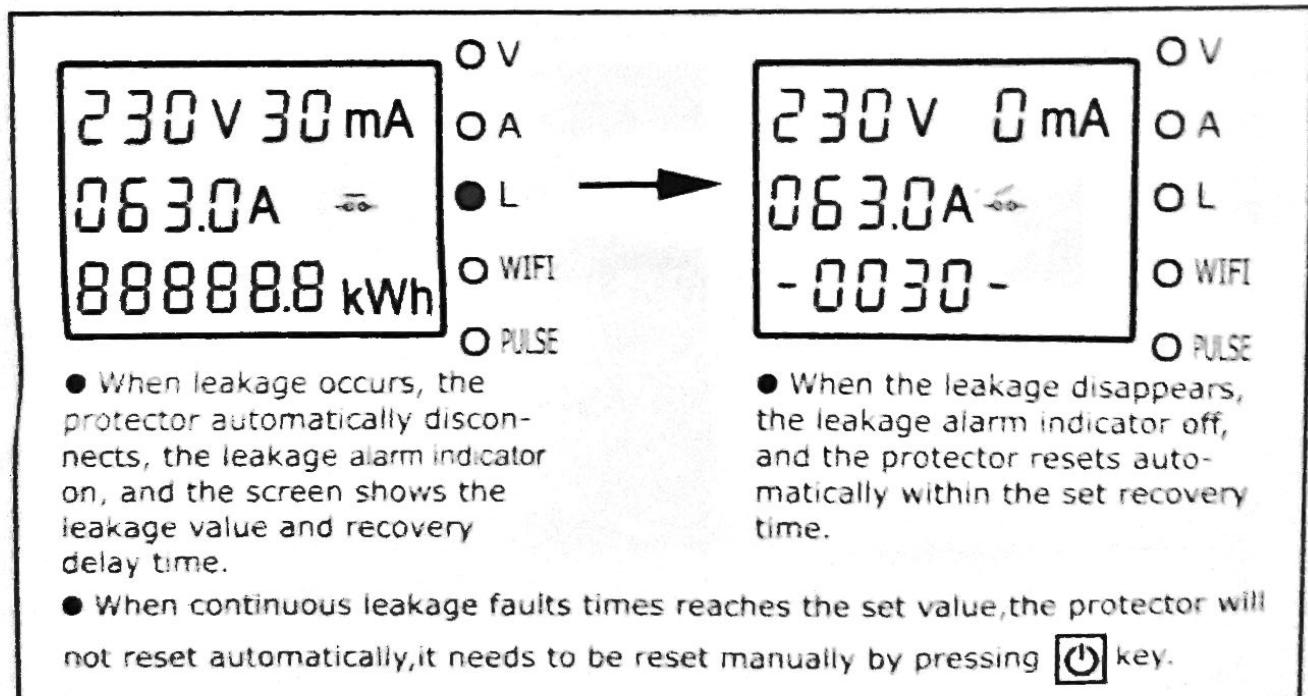
6.2 Under voltage protection status



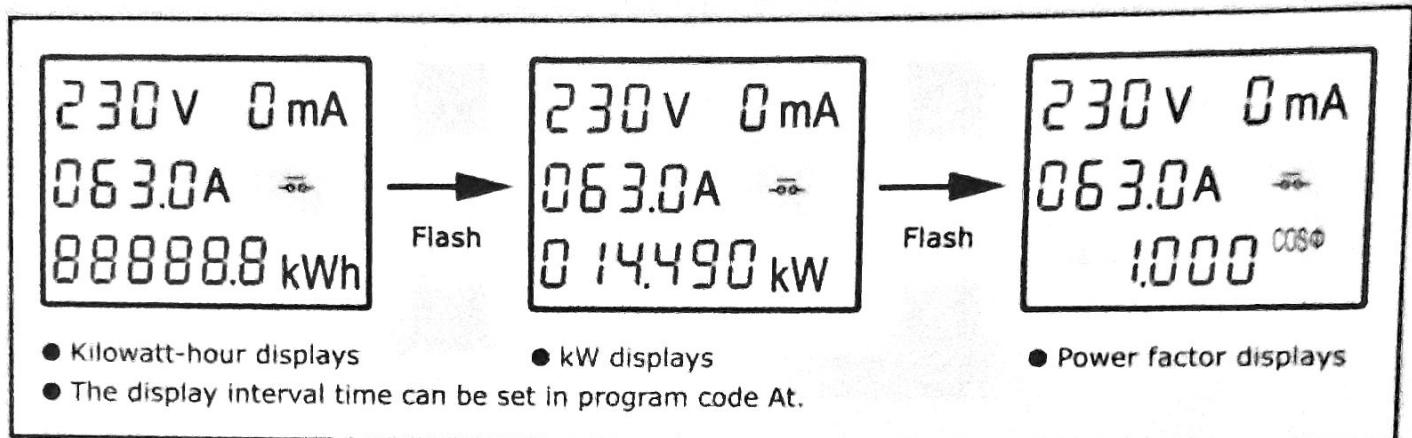
6.3 Over current protection status



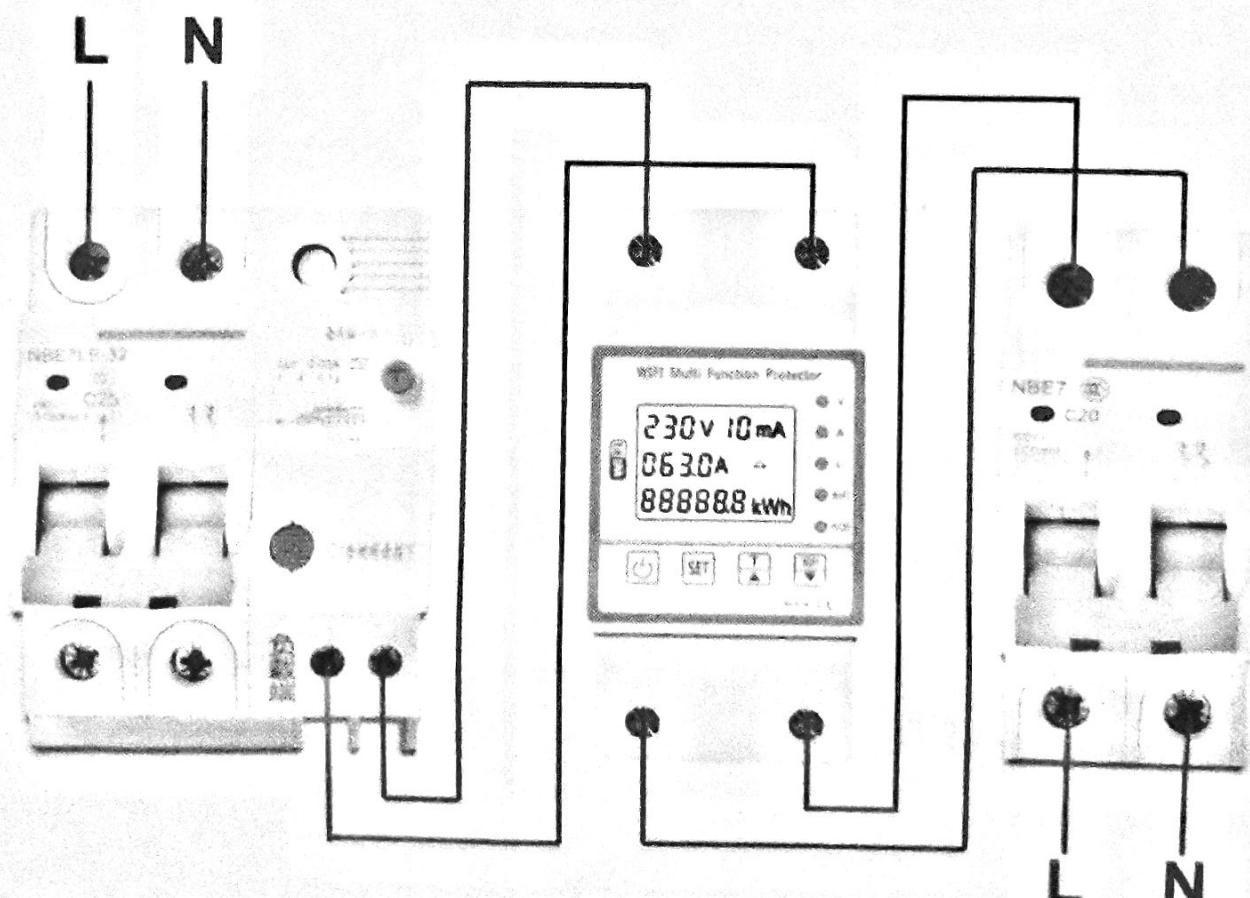
6.4 Leakage protection status



6.5 Kilowatt-hour,kW and power factor display by turns



VI.Wiring diagram



Power Switch

Multi-Function
Protector

Air Circuit Breaker