SAFETY PRECAUTIONS

- 1. The device must be installed by a qualified person,
- 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.
- 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

- True RMS measurement.
- Double 3 digit display for operating voltage and current value.
- Protect electrical device against over/under voltage and overcurrent.
- Password protection available.
- Parameters setting by keys.
- 1-63A adjustable.
- 2 Module, DIN Rail mounting.

AC 230V		
AC 50V~450V		
50/60Hz		
220~280V		
80~210V		
1~63A		
80A		
13.9kW		
>U: 5V; <u: 3v<="" td=""></u:>		
Ton: 5s~600s		
Ta: 0s~600s		
≤285V:0.04s; >285V: 0.02s		
≥80V:0.5s ,<80V:0.02s		
lr>2lset(max.80A):0.02s; lr ≤1.25lset: Ta; 1.25lset <lr≤2lset: 5s(ta<5s)<="" td=""></lr≤2lset:>		
<1%		
400V		
1NO		
10 ⁴		
10 ⁶		
IP20		
3		
≤2000m		
-5°C~40°C		
≤50% at 40°C(without condensation)		
-25°C~55°C		

^{*} Operating current value

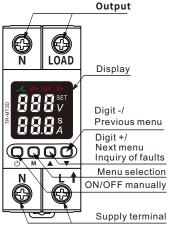
Technical parameter	Setting range	Step	Factory setting
Overvoltage trip value	220V~280V	1V	250V
Undervoltage trip value	80V~210V	1V	170V
Reset/start delay	5s~600s	1s	5s
Overcurrent faults trip delay	0s~600s	1s	90s
Automatic reset	ON/OFF		ON
Password function	ON/OFF		OFF
Password setting	000~999	1	000

TR-MT2D

VOLTAGE AND CURRENT PROTECTOR

Please read complete instructions prior to installation and operation of the device.

FRONT-FACE PANEL



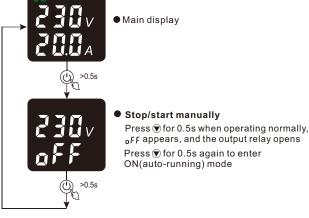
Symbol	Function
ス し	Output indication
U>	>U fault indication
U<	<u fault="" indication<="" td=""></u>
>	>I fault indication
SET	Setting indication
V	Voltage
Α	Current
S	Delay

● Reset/start delay display



 Operating voltage and delay time on display during the counting of start delay; they will be normally ON after the delay is over and the output relay closes.

• Stop/start manually



• Display for three continuous I> faults

Display for three continuous overcurrent faults after reset/start delay is over



- Disconnect the overload device
- Press 🐨 for 0.5s to reset manually



Main display



Enter password. If correct, continue menu setting

000→999

Press M to enter menu setting.

increase or decrease the digit by pressing A keys and confirm with pressing M again.



22**0→**280

Press (1) to activate overvoltage setting.
Change the setting value by pressing

A keys and confirm with pressing (1)



80-210

Press (M) to activate undervoltage setting. Change the setting value by pressing

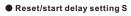
Replacement of the setting value by pressing (w) again.



Press (M) to activate overcurrent setting. Change the setting value by pressing

A keys and confirm with pressing (M)

again.



5→500

Press (M) to activate reset/start delay

change the setting value by pressing

keys and confirm with pressing again.

Overcurrent fault trip delay setting S

0-600

Press (M) to activate setting of overcurrent fault trip delay.

Change the setting value by pressing

A keys and confirm with pressing
again.

Automatic reset setting

on→oFF

Press (M) to activate setting of overcurrent

fault trip delay.

Change the setting value by pressing

A keys and confirm with pressing (M)

OFF: turn off the function;

ON: turn on the function;

Password enable/disable setting

on→off

Press (1) to enter setting of password enable/disable. change the value by pressing (a) (a) keys and confirm with pressing (b) again.

OFF: password not enabled;

ON: password enabled

● Password setting

□□□□→□□□□

Press (m) to activate setting of password.

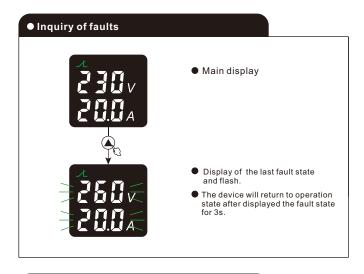
Change the setting value by pressing (m) (a) keys and confirm with pressing (m) again.

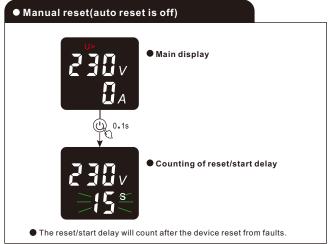
● End setting, press (M) to exit from settings

◆ Long press () () can increase or decrease repidly.

• The relay will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.





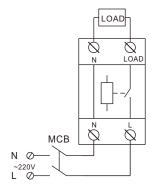


OPERATING INSTRUCTIONS

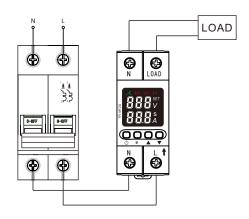
- If a voltage fault was detected when the reset/start delay is counting, the output relay opens and faults indication symbol lights up.
- The operating voltage and current values will be displayed on screen when the relay is operating normally. If a voltage or current fault was detected, the output relay opens and fault indication symbol lights 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 symbol goes out.

Current faults: After the relay tripped for current faults, it will reset automatically. During the counting of reset/start delay, fault indication symbol goes out.

SYMBOL



WIRING DIAGRAM



 Rated operating current of circuit breaker is 75% maximum current of the relay le=0.75x lmax

DIMENSIONS

