#### SAFETY PRECAUTIONS

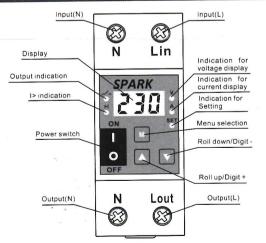
- 1. The device must be installed by a qualified person,
- 2. Disconnect all power before working on the device. Don't touch any terminal when the power is ON.
- 3. Verify correct terminal connection when wiring.
- 4. Don't dismantle or repair the device whether it operates normally, otherwise no responsibility 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.

- Microcontroller based
- 3 digit display for operating voltage and current value
- Protect electrical device against over/under voltage overcurrent and short circuit faults
- Password settable by user
- Operating current setting by keys
- LEDs indication for output and faults state.
- 2 Module, DIN Rail mounting

Models	MB2-22A MB2-		
Rated current	2A-22A	16A-63A	
Rated supply voltage	AC 220V, 50Hz		
Operation voltage range	AC 100V~400V		
Overvoltage(U>) trip value	220V~300V		
Undervoltage(U<) trip value	140V~210V		
Start delay	5~100s		
Recovery time for overload fault	1~100s		
Overvoltage trip time	0.5s		
Undervoltage trip time	0.5s		
Rated insulation voltage	400V		
Output contact	1NO		
Protection degree	IP20		
Altitude	≤2000m		
Operating temperature	-20°C~55°C		
Storage temperature	-30 C~70 C		

	Parameter	Setting	g range	Step	Default setting
[Ur	Overcurrent(I>) trip value A	MB2-22	MB2-63	0.2	20A(MB2-22) 50A(MB2-63)
		2A-22A	16A-63A		
UrH	U> trip value V	220V~300V		1	250
UrL	U< trip value V	140V~210V		1	סרו
ton	Start delay	5~100		1	5
ŁЯ	Recovery time for overload fault	1~100		1	90
PAS	Password setting	000~999			111

#### FRONT-FACE PANEL



## **MB2 SERIES**

# SPARK

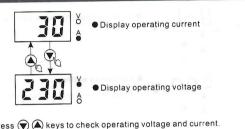
# **ELECTRONIC CIRCUIT BREAKER**

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

### Faults code

-11-	Overvoltage fault: input voltage is higher setting value
U_	Undervoltage fault: input voltage is lower than setting value
0-6	Overload fault: input current is higher than 1.1xlset
	Short circuit fault: input current is higher than short circuit current value.
Err	Continuous faults: If three continuous overload or short circuit faults occured, the relay need to be reset with power switch after eliminated the faults.

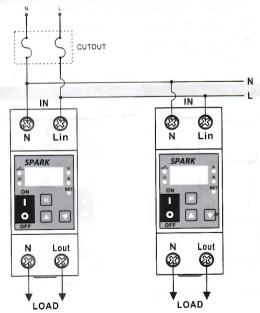
# Display for operating voltage and current

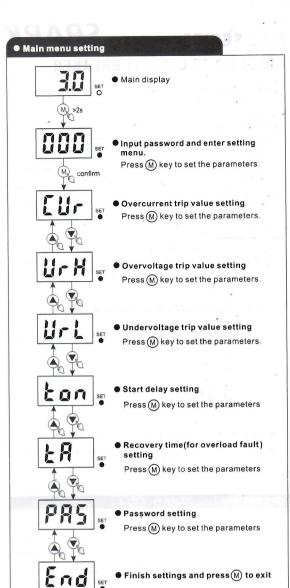


- Press keys to check operating voltage and current.
- After checked operating voltage and not press any keys for 5s, the device will exit automatically and display operating current. The display for operating current value is prior.

## OPERATION

- 1. Turn power switch on and start the device, setting current value displays.
- oisplays. 2. User can input the password and enter setting. 3. If no faults are detected after energization, the contact closes and output indication LED lights up.
- When overload fault is detected, overcurrent indication LED flashes and the display will show corresponding faults code





- Press (M) to enter parameters setting. Confirm the settings and return to main menu by pressing (M) key again.
- The relay will automatically exit from the menu and not save the modified value if not pressing the keys for continuous 60s during setting.

### DIMENSIONS

