Communication method:
W - Wi-Fi, R - RS 485
Z - Zigbee, L - LTEM - Matter

C - Curve C
B - Curve B

Ambient Voltage:
Blank:
Alternating Current
DC:
Direct Current

Company Code

Maximum Current Frame

(TO) (SMR1) – (40) – (J) (W) (T) – (C) (40) (DC)

Series Code

Blank:
Without Metering Function
L:
With Metering Function

Platform Technical Support:
T - Tuya, E - eWeLink
X - Mi, C - Cutomizated
M - Tasmota

Current Frame:
16, 20, 32,40

TOSMR1 series upgrades your energy management, gracefully replacing traditional DPN RCBO product swith a smart formfactor. This product range not only saves space but also integrates intelligent control and energy monitoring functions, offering comprehensive protection against leakage, over-voltage and under-voltage. Its advanced design ensures efficient and reliable electrical safety, regardless of space size or installation distance.

Remote Control

Voice Control

Time Mode

Circuit Proterction

Electricity Consumption

Real-Time Power / Current / Voltage

Temperature Protection

Oeperation Log

DIN Rail Installation

Maintenance Mode

Leakage Protection

TOSMR1-40

⚡ Over-current Protection

Threshold Setting:

TOSMR1-40: 20 - 40A   Defualt: 40A

TOSMR1-20: 1 - 40A   Defualt: 20A

Status Setting: Off/Alarm/Trip

Electronic Component Response Time: 3s

+⚡ Over-voltage Protection

Threshold Setting: 245V - 295A

Defualt: 280V

Status Setting: Off/Alarm/Trip

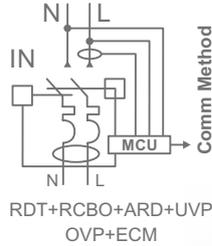Electronic Component Response Time: 3s

-⚡ Under-voltage Protection

Threshold Setting: 145V - 220A

Defualt: 165V

Status Setting: Off/Alarm/Trip

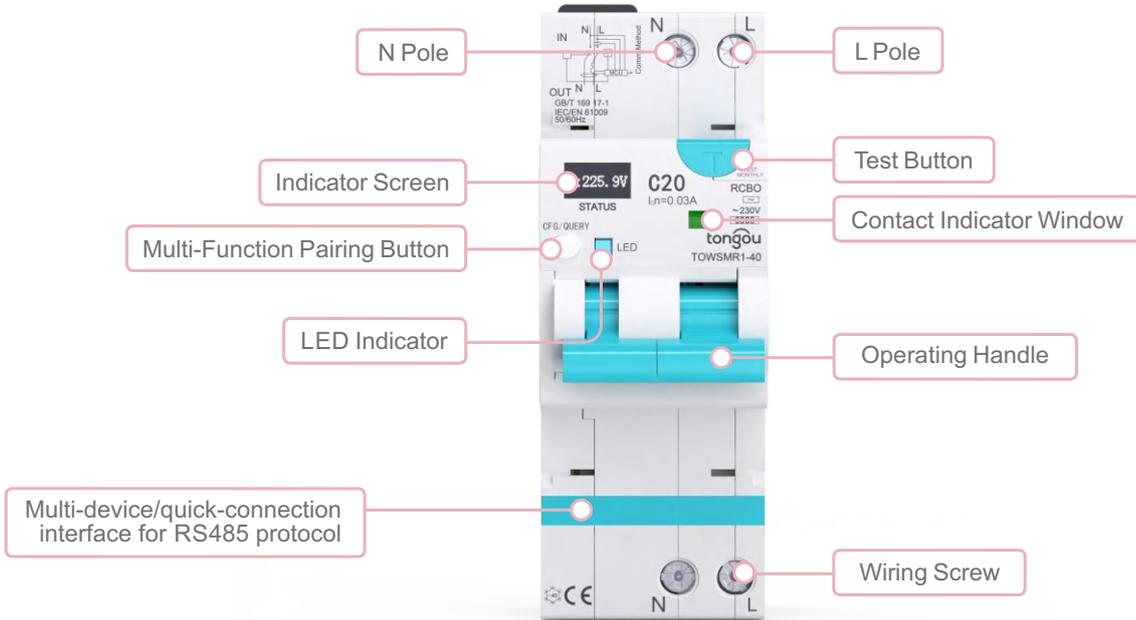Electronic Component Response Time: 3s
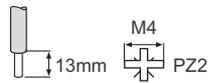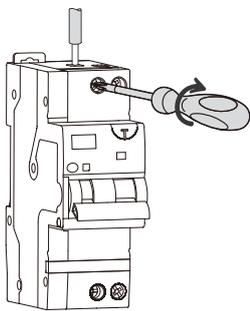
RDT+RCBO+ARD+UVP
OVP+ECM

LED Indicator

The LED indicator shows a steady blue light to indicate that the device is disconnected.

The LED indicator shows a steady red light to indicate that the device is connected.

The LED indicator shows red and blue lights alternately flashing slowly, indicating that the device is configured but not connected to the router.

The LED indicator shows red and blue lights alternately flashing quickly, indicating that the device has lost configuration.

The LED indicator shows red light flashing slowly to indicate the initial state.

The LED indicator shows red light flashing quickly to indicate the status of the network pairing.

PRODUCT MODEL		TOSMR1-40-JW	TOSMR1-40-JZ	TOSMR1-40-JR	TOSMR1-40-JL	TOSMR1-40-JM
Standards		IEC/EN 61009,IEC/EN 50557, EN 301 489, EN 300 328, EN IEC 61000				
Poles Description		2P				
MCU Power Rated Operational Voltage	Ue (V)	AC 145V - 230V				
Phase Line Operational Voltage	Ue (V)	AC 230V				
Frequency	Hz	50/60Hz				
Current Frame	In (A)	16, 20, 32, 40				
Rated Residual Operating Current	IΔn (mA)	10, 30, 100				
Residual Current Type		AC, A				
Curve Code		B、C、D				
Rated Insulation Voltage	Ui (V)	AC 500V				
Rated Ultimate Short-circuit Breaking Capacity	Icu (kA)	6kA				
Operational Safety		Physical Safety Lock, which prevents the device from being closed once engaged				
Communication Protocol		TOSMR1-40-JW TCP/IP: Wi-Fi (2.412~2.484GHz) IEEE 802.11b/g/n				
		TOSMR1-40-JZ Zigbee (2.400~2.483GHz) IEEE 802.15.4				
		TOSMR1-40-JR Modbus-RTU				
		TOSMR1-40-JL LTE Cat.1: LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/38/39/40/41 (2535~2655MHz) LTE-FDD: B1/B3/B5/B7/B8/B20/B28A* LTE-TDD: B38/40/41 GSM/GPRS: GSM900/DCS1800				
		TOSMR1-40-JM TCP/UDP: Matter				
Energy Comsumption Measurement Accuracy		Class 1.0				
Monitoring Physical Data		Real-time Voltage, Real-time Current, Real-time Power (Forward/Reverse), Power Factor, Power Consumption (Forward/Reverse),Temperature, Switch State, Device Operating Status, Frequency				
Function Description		Multiple Timing, Over-voltage Protection, Under-voltage Protection, Over-current Protection, Over-Power Protection, Temperature protection, Short Circuit Protection, Earth Leakage Protection, Auto-reclosing, Remote Control, Voice Control				

TOSMR1-40

N Pole — L Pole

Indicator Screen

Multi-Function Pairing Button

LED Indicator

Test Button

Contact Indicator Window

Operating Handle

Multi-device/quick-connection interface for RS485 protocol

Wiring Screw

C20
I∆n=0.03A
STATUS
CFG/QUERY
LED
RCBO
~230V
TOWSMR1-40
GB/T 169 17-1
IEC/EN 61009
50/60Hz
225. 9V

Connection

M4   PZ2   13mm

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
1 - 40A	1.8 N.m	1 - 10mm²	1 - 6mm²

Dimensions (mm)

120mm   36mm   35mm   45mm   49mm

27mm   35mm   7.5mm