Lower Energy Consumption | Higher Breaking Capacity | Higher Torque | 160A Higher Rate Current

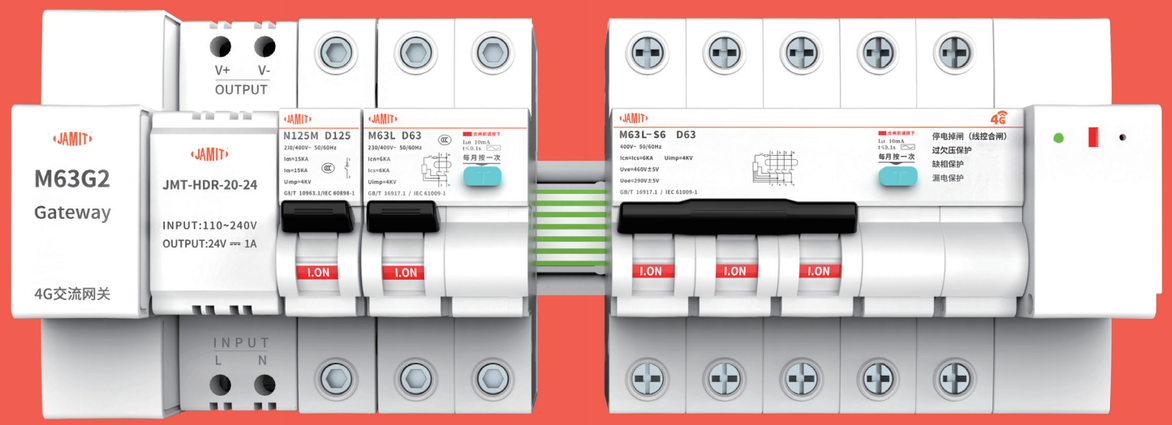
# iMCB | JMT ELECTRIC
## Product Selection Guide

TIANJIN JMT ELECTRIC CO., LTD

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Disclaimer: The final interpretation right of the content contained in this manual belongs to Tianjin JMT Electric Co., Ltd. (hereinafter referred to as the company), please contact the company's staff for more details. Due to the continuous innovation of the company's product technology, the parameters of the new product may not be consistent with this manual, please refer to the actual product or the latest version of the document issued by the company's staff.



# TIANJIN JMT ELECTRIC CO.,LTD

JMT Electric is a technology-driven enterprise firmly rooted in the low-voltage electrical sector, serving a global clientele. Our company footprint spans China, Hungary, and India, where nearly one thousand colleagues are dedicated to our shared mission. For three decades, we have maintained a singular focus on the innovation and iterative evolution of Miniature Circuit Breakers (MCBs). This dedication has resulted in a new generation of MCBs that boast superior breaking capacity and energy efficiency compared to competing products.

We pride ourselves on possessing world-class production and management systems, enabling the wholly-owned, end-to-end manufacturing of our circuit breaker products. Our commitment to quality and safety is evidenced by our certification to ISO 9001, ISO 45001, and ISO 14001 management standards, as well as product certifications including CE, CB, UKCA, and KC.



# BRANDHIGHLIGHT







American Good Design







CE Certification

UKCA Certification




CB Certification




KC Certification




ISO 9001




ISO 14001




ISO 45001

# TECHNICAL STRENGTH













## Manufacturing Centre

JMT apply international quality management system standards, whilst using industry leading production equipment. We continuously provide staff training and development in our pursuit of excellence. All products are 100% inspected to ensure consistent product quality and adherence to quality systems. We supply domestic and international markets with the world's leading low voltage electrical products.





证书号第4545189号

发明专利证书

发明名称：一种停电自动脱扣掉闸的智能断路器

发明人：王克诚

专利号：ZL 2019 1 1250741.4

专利申请日：2019年12月09日

专利权人：天津加美特电气股份有限公司

地址：300000 天津市静海区六号路东头

授权公告日：2021年07月13日　　授权公告号：CN 110767513 B

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局长 申长雨

2021年07月13日

第1页(共2页)

其他事项参见背面

## Patents

More than 100  design patents
















## Global Plants

1-Tianjin,China Plant; 2-Hungarian Plant; 3-India Plant;
4-Electroplating Plant[Tianjin,China]; 5-Metal anti-corrosion Plant[Cangzhou,China]

## Our product advantages:

### Wisdom and Innovation

Integrated Design  Combines circuit breaker, RCD, measurement, remote control, and communication functions into a single unit, eliminating the need for assembly
RCD Self-Testing  Enables remote RCD self-testing, reducing inspection costs and ensuring the reliability of RCD functionality
Flexible Networking  The smart circuit breaker features a built-in RS485 port or Bluetooth, allowing flexible compatibility with various gateways for intelligent networking. Powered via a PCBA rail, it ensures that maintenance and repairs do not interfere with the stable operation of other equipment

### Outstanding performance

Powerful Core  High-performance processor with outstanding storage and computing capabilities
High-Precision Measurement  Equipped with high-precision current transformers, electrical parameter measurements (current, voltage, power, etc.) achieve accuracy up to Class 0.5
Comprehensive Protection  Features multiple protection functions, including overload, short circuit, over/under-voltage, over/under-frequency, phase loss, and ground fault protection
High Performance Ratings  Rated impulse withstand voltage up to 6 kV; EMC electrostatic discharge (ESD) rating up to 15 kV

### Digital Intelligence

Digital Monitoring  Real-time online monitoring of circuit breaker status and energy consumption via the app and cloud platform, providing visualized data
Intelligent Alarms  Automatically sends alerts and fault notifications when line abnormalities or faults occur, enabling prompt and rapid resolution
Remote Switching  Enables remote and local operation and control, with a remote locking function (to prevent accidental closing), facilitating convenient and efficient operation and maintenance
Event Logging  Features intelligent logging of events such as alarms and faults, enabling historical traceability and improving operational efficiency

### Structural Innovation

Unique Closing Mechanism: Our proprietary composite spring technology enables circuit breakers to close and open instantaneously, ensuring efficient switching and reducing the risk of arcing and welding.
Integrated Inlet/Outlet Structure: The internal design features integrated solenoid inlet and outlet terminal blocks, resulting in low internal resistance and low energy consumption.
Bimetal Bidirectional Setting Mechanism: Precise bidirectional adjustment adapts to a wide range of operating conditions.
Coaxial Drive  Enables remote tripping and closing operations without interfering with mechanical manual operation, while ensuring physical isolation between high-voltage and low-voltage circuits.
Enhanced Seismic Resistance: Stable performance under seismic conditions, ensuring reliability in complex environments.

## Application Scenarios:

**Smart Communication**
Intelligent Power Distribution for Communication Base Stations

Smart Universities
Centralized Power Distribution Solutions

**Smart Buildings**
Intelligent Power Distribution for Green Buildings

Smart Rail Transit
Intelligent & Safe Power Distribution for Rail Transit

Smart Communities
Intelligent Retrofitting for Aging Communities

**Smart Factories**
Intelligent Power Distribution for Dark Factories





# CONTENTS



M63M -F | P08~09


M63M -S | P10~11


M63M -DS | P12~13

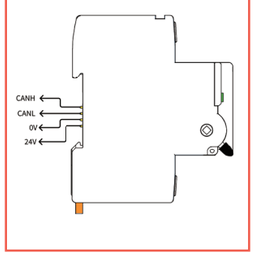

M63L -F | P14~15


M63L -S | P16~17


M63G | P18


JMT-HDR | P19


Induction Radar | P20


Wiring Diagram | P21


JTM1EL | P22~24


Intelligent Gateway | P25


JTM1E | P26~27




# M63M -F Miniature circuit breaker

## Product Overview

M63M-F This product is primarily designed for use in circuits with a 50 Hz AC frequency, a rated voltage of 240/415 V AC, and a rated current up to 63 A. It provides protection against overloads, short circuits, overvoltage, and undervoltage, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, this product features remote control, electrical parameter measurement (voltage, current, power), and terminal over-temperature warning.
It can be networked with external devices via an RS485 communication interface or through various methods such as Bluetooth, 4G, and Wi-Fi.

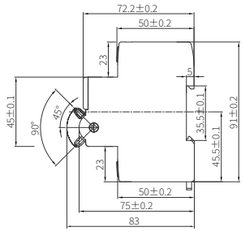
Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, electrical parameter measurement, remote switching

## Model and Meaning

| M63M | -F | 1 | C | 63 | 2P |
|---|---|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Function Code:<br>1: Energy Measurement<br>2: Remote Switching<br>3: Energy Measurement + Remote Switching<br>4: Energy Measurement + Temperature Monitoring<br>5: Remote Switching + Temperature Monitoring<br>6: Energy Measurement + Remote Switching + Temperature Monitoring | Trip Type | Rated current (A) | The number of poles |

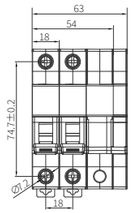
## Appearance and Mounting Dimensions

Side View

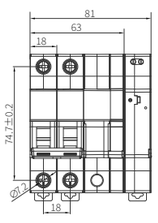



M63M -F

【2P】Front View

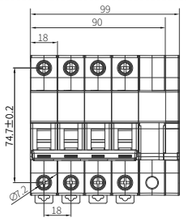



-F1 / -F4

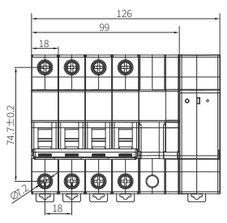



-F2 / -F3 / -F5 / -F6

【4P】Front View




-F1 / -F4




-F2 / -F3 / -F5 / -F6

## Technical Specifications

| | | |
|---|---|---|
| Product Model | | M63M -F |
| Rated current (A) | | 1、2、4、6、10、16、20、25、32、40、50、63 |
| Rated voltage Ue (V) | | AC415V(2P、4P) |
| Rated frequency (Hz) | | 50/60 |
| Number of poles | | 2P、4P |
| Mechanical life (times) | | 30000 (Corporate Standards) |
| Electrical life (times) | | 15000 (Corporate Standards) |
| Rated short-circuit breaking capacity Icn(A) | | 6000 |
| Rated short-circuit breaking capacity Ics(A) | | 6000 |
| Rated insulation voltage Ui(V) | | 440 |
| Rated impulse withstand voltage Uimp (kV) | | 4 |
| Dielectric test voltage (V) | | 2000(50Hz、1min ) |
| Vibration-resistant (IEC/EN60068-2-6) | | No significant vibrations or shocks |
| Terminal block | Minimum connectable conductor cross-sectional area($mm^2$) | 1 |
| | Maximum connectable conductor cross-sectional area ($mm^2$) | 35 |
| | Standard Torque (N·m) | 3.5 |
| | Maximum torque capacity (N·m) | 5 |
| | Wire insertion depth (mm) | 10 |
| | Temperature Measurement of Terminal Blocks (℃) | 45~150 (Alarms and actions are configurable; action temperature >5℃) |
| Reference temperature (℃ ) | | 30 |
| Operating temperature (℃ ) | | -35~+70 |
| Storage temperature (℃ ) | | -35~+85 |
| Applicable Altitude (m) | | ≤2000 |
| Overvoltage and undervoltage protection (parameters are configurable; values in the table are factory defaults) | | Overvoltage trip threshold range:280V±5V |
| | | Overvoltage recovery threshold range:250V±5V |
| | | Minimum non-drive time during overvoltage：3s |
| | | Undervoltage trip threshold range：165V±5V |
| | | Undervoltage recovery threshold range：190V±5V |
| | | Minimum non-drive time during under-voltage：3s |
| | | Overvoltage and undervoltage recovery time≥ 10s |
| Communication Protocol | | Jamit Private Agreement、Modbus-RTU |
| Communication Interface | | RS485Interface：A ,B ; RJ45Interface ; Wifi、4GInterface |
| Electrical parameter measurement function | | ±0.5% |
| Instantaneous trip characteristic | Type B | 3In~5In |
| | Type C | 5In~10In |
| | Type D | 10In~20In |
| Wiring entry type | | Unlimited |
| Installation Method | | TH35-7.5 Standard Guide Rail |
| Pollution Level | | 2 |
| Protection Level | Direct installation | IP20 |
| | Installed inside the distribution panel | IP40 |
| Modular accessories | | None |




# M63M -S Miniature circuit breaker

## Product Overview

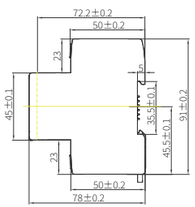
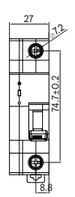
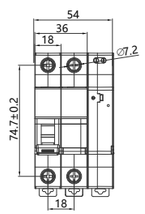
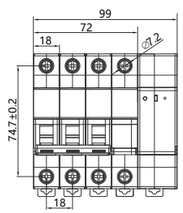
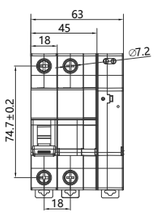
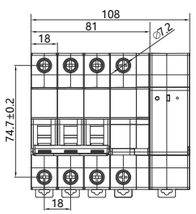
M63M-S This product is primarily designed for use in circuits with a 50 Hz AC frequency, a rated voltage of 240/415 V AC, and a rated current up to 63 A. It provides protection against overloads, short circuits, overvoltage, and undervoltage, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, this
product features remote control, electrical parameter measurement (voltage, current, power), and terminal over-temperature warning.

Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, electrical parameter measurement, remote switching

## Model and Meaning

| M63M | -S | 1 | C | 63 | 1P |
|---|---|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Function Code:<br>1: Energy Measurement<br>2: Remote Switching<br>3: Energy Measurement + Remote Switching<br>4: Energy Measurement + Temperature Monitoring<br>5: Remote Switching + Temperature Monitoring<br>6: Energy Measurement + Remote Switching + Temperature Monitoring | Trip Type | Rated current (A) | The number of poles |

## Appearance and Mounting Dimensions

| Side View | 【1P】Front View | 【1P+N】Front View | 【3P+N】Front View |
|---|---|---|---|
|  |  |  -S1 / -S2 / -S3 |  -S1 / -S2 / -S3 |
| M63M -S | -S1 / -S2 / -S3<br>-S4 / -S5 / -S6 |  -S4 / -S5 / -S6 |  -S4 / -S5 / -S6 |



## Technical Specifications

| Product Model | | M63M -S |
|---|---|---|
| Rated current (A) | | 1、2、4、6、10、16、20、25、32、40、50、63 |
| Rated voltage Ue (V) | | AC240/415V(1P)<br>AC240V(1P+N)<br>AC415V(3P+N) |
| Rated frequency (Hz) | | 50/60 |
| Number of poles | | 1P/1P+N/3P+N |
| Mechanical life (times) | | 30000 (Corporate Standards) |
| Electrical life (times) | | 15000 (Corporate Standards) |
| Rated short-circuit breaking capacity Icn(A) | | 6000 |
| Rated short-circuit breaking capacity Ics(A) | | 6000 |
| Rated insulation voltage Ui(V) | | 440 |
| Rated impulse withstand voltage Uimp (kV) | | 4 |
| Dielectric test voltage (V) | | 2000(50Hz、1min ) |
| Vibration-resistant (IEC/EN60068-2-6) | | No significant vibrations or shocks |
| Terminal block | Minimum connectable conductor cross-sectional area($mm^2$) | 1 |
| | Maximum connectable conductor cross-sectional area ($mm^2$) | 35 |
| | Standard Torque (N·m) | 3.5 |
| | Maximum torque capacity (N·m) | 5 |
| | Wire insertion depth (mm) | 10 |
| | Temperature Measurement of Terminal Blocks (℃) | 45~150 (Alarms and actions are configurable; action temperature >5℃) |
| Reference temperature (℃ ) | | 30 |
| Operating temperature (℃ ) | | -35~+70 |
| Storage temperature (℃ ) | | -35~+85 |
| Applicable Altitude (m) | | ≤2000 |
| Overvoltage and undervoltage protection (parameters are configurable; values in the table are factory defaults) | | Overvoltage trip threshold range:280V±5V |
| | | Overvoltage recovery threshold range:250V±5V |
| | | Minimum non-drive time during overvoltage：3s |
| | | Undervoltage trip threshold range：165V±5V |
| | | Undervoltage recovery threshold range：190V±5V |
| | | Minimum non-drive time during under-voltage：3s |
| | | Overvoltage and undervoltage recovery time≥ 10s |
| Communication Protocol | | Parallel assembly, rail PCBA connection |
| Electrical parameter measurement function | | ±0.5% |
| Instantaneous trip characteristic | Type B | 3In~5In |
| | Type C | 5In~10In |
| | Type D | 10In~20In |
| Wiring entry type | | Unlimited |
| Installation Method | | TH35-7.5 Standard Guide Rail |
| Pollution Level | | 2 |
| Protection Level | Direct installation | IP20 |
| | Installed inside the distribution panel | IP40 |
| Modular accessories | | None |




# M63M -DS Miniature circuit breaker

## Product Overview

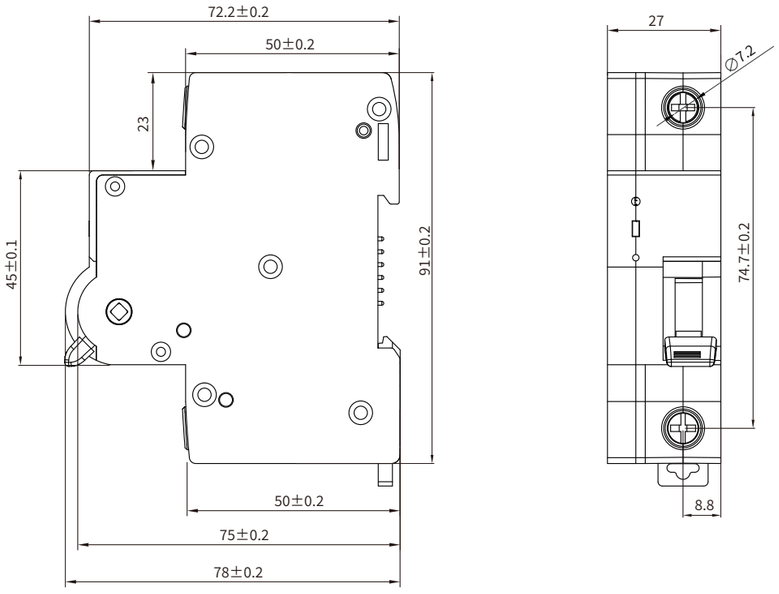
M63M-DS This product is primarily designed for use in DC circuit systems with a rated voltage of 250 V DC and a rated current of up to 63 A. It provides protection against overloads, short circuits, overvoltage, and undervoltage, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, this product features remote control, power measurement (voltage, current, and power), and terminal over-temperature warning.

Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, electrical parameter measurement, remote switching

## Model and Meaning

| M63M | -DS | 1 | C | 63 | 1P |
|---|---|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Function Code:<br>1: Energy Measurement<br>2: Remote Switching<br>3: Energy Measurement + Remote Switching<br>4: Energy Measurement + Temperature Monitoring<br>5: Remote Switching + Temperature Monitoring<br>6: Energy Measurement + Remote Switching + Temperature Monitoring | Trip Type | Rated current (A) | The number of poles |

## Appearance and Mounting Dimensions




## Technical Specifications

| | | |
|---|---|---|
| Product Model | | M63M -DS |
| Rated current (A) | | 1、2、4、6、10、16、20、25、32、40、50、63 |
| Rated voltage Ue (V) | | DC250V(1P) |
| Number of poles | | 1P |
| Mechanical life (times) | | 30000 (Corporate Standards) |
| Electrical life (times) | | 15000 (Corporate Standards) |
| Rated short-circuit breaking capacity Icu(A) | | 6000 |
| Rated short-circuit breaking capacity Ics(A) | | 6000 |
| Rated insulation voltage Ui(V) | | 440 |
| Rated impulse withstand voltage Uimp (kV) | | 4 |
| Dielectric test voltage (V) | | 2000(50Hz、1min ) |
| Vibration-resistant (IEC/EN60068-2-6) | | No significant vibrations or shocks |
| Terminal block | Minimum connectable conductor cross-sectional area($mm^2$) | 1 |
| | Maximum connectable conductor cross-sectional area ($mm^2$) | 35 |
| | Standard Torque (N·m) | 3.5 |
| | Maximum torque capacity (N·m) | 5 |
| | Wire insertion depth (mm) | 10 |
| | Temperature Measurement of Terminal Blocks (℃) | 45~150 (Alarms and actions are configurable; action temperature >5℃) |
| Reference temperature (℃ ) | | 30 |
| Operating temperature (℃ ) | | -35~+70 |
| Storage temperature (℃ ) | | -35~+85 |
| Applicable Altitude (m) | | ≤2000 |
| Overvoltage and undervoltage protection (parameters are configurable; values in the table are factory defaults) | | Overvoltage trip threshold range:280V±5V |
| | | Overvoltage recovery threshold range:250V±5V |
| | | Minimum non-drive time during overvoltage：3s |
| | | Undervoltage trip threshold range：165V±5V |
| | | Undervoltage recovery threshold range：190V±5V |
| | | Minimum non-drive time during under-voltage：3s |
| | | Overvoltage and undervoltage recovery time≥ 10s |
| Communication Protocol | | Parallel assembly, rail PCBA connection |
| Electrical parameter measurement function | | ±0.5% |
| Instantaneous trip characteristic | Type B | 3In~5In |
| | Type C | 5In~10In |
| | Type D | 10In~20In |
| Wiring entry type | | Unlimited |
| Installation Method | | TH35-7.5 Standard Guide Rail |
| Pollution Level | | 2 |
| Protection Level | Direct installation | IP20 |
| | Installed inside the distribution panel | IP40 |
| Modular accessories | | None |




# M63L -F Miniature circuit breaker

## Product Overview

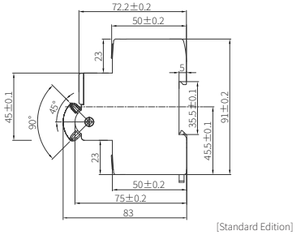
M63L-F This product is primarily designed for use in circuits with a frequency of 50 Hz, a rated voltage of 240/415 V AC, and a rated current of up to 63 A. It provides protection against overloads, short circuits, overvoltage, undervoltage, and ground faults, and can also be used for infrequent switching of circuits under normal operating conditions.
Additionally, this product features remote control, power measurement (voltage, current, power), and terminal over-temperature warning,
It can be networked with external devices via an RS485 communication interface or through various methods such as Bluetooth, 4G, and Wi-Fi.
Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, leak-current protection, electrical parameter measurement, remote switching

## Model and Meaning

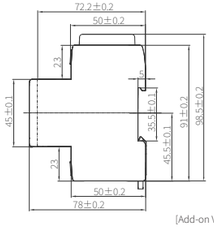
| M63M | -F | 1 | C | 63 | 3P+N |
|---|---|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Function Code:<br>1: Energy Measurement<br>2: Remote Switching<br>3: Energy Measurement + Remote Switching<br>4: Energy Measurement + Temperature Monitoring<br>5: Remote Switching + Temperature Monitoring<br>6: Energy Measurement + Remote Switching + Temperature Monitoring | Trip Type | Rated current (A) | The number of poles |

## Appearance and Mounting Dimensions

Side View



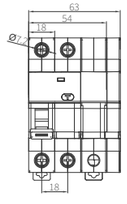

[Standard Edition]



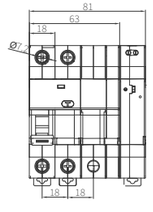

[Add-on Version]

M63L -F

【1P+N】Front View

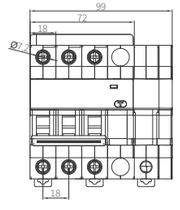



-F1 / -F4

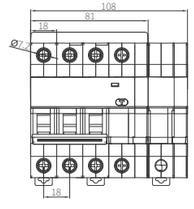



-F2 / -F3 / -F5 / -F6

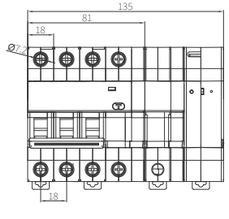
【3P+N】Front View




-F1




-F4




-F2 / -F3 / -F5 / -F6





## Technical Specifications

| | | |
|---|---|---|
| Product Model | | M63L -F |
| Rated current (A) | | 1、2、4、6、10、16、20、25、32、40、50、63 |
| Rated voltage Ue (V) | | AC240V(1P+N)<br>AC415V(3P+N) |
| Rated frequency (Hz) | | 50/60 |
| Number of poles | | 1P+N、3P+N |
| Mechanical life (times) | | 30000 (Corporate Standards) |
| Electrical life (times) | | 15000 (Corporate Standards) |
| Rated short-circuit breaking capacity Icn(A) | | 6000 |
| Rated short-circuit breaking capacity Ics(A) | | 6000 |
| Rated insulation voltage Ui(V) | | 440 |
| Rated impulse withstand voltage Uimp (kV) | | 4 |
| Rated residual operating currentIΔn□mA□ | | Type A、AC:10、30、100、300、500 |
| Types of Residual Current Protection | | Type A、Type AC |
| Tripping Mechanism Types | | Electronic tripping |
| Dielectric test voltage (V) | | 2000(50Hz、1min ) |
| Vibration-resistant (IEC/EN60068-2-6) | | No significant vibrations or shocks |
| Terminal block | Minimum connectable conductor cross-sectional area(mm²) | 1 |
| | Maximum connectable conductor cross-sectional area (mm²) | 35 |
| | Standard Torque (N·m) | 3.5 |
| | Maximum torque capacity (N·m) | 5 |
| | Wire insertion depth (mm) | 10 |
| | Temperature Measurement of Terminal Blocks (℃) | 45~150 (Alarms and actions are configurable; action temperature >5℃) |
| Reference temperature (℃ ) | | 30 |
| Operating temperature (℃ ) | | -35~+70 |
| Storage temperature (℃ ) | | -35~+85 |
| Applicable Altitude (m) | | ≤2000 |
| Overvoltage and undervoltage protection (parameters are configurable; values in the table are factory defaults) | | Overvoltage trip threshold range:280V±5V |
| | | Overvoltage recovery threshold range:250V±5V |
| | | Minimum non-drive time during overvoltage：3s |
| | | Undervoltage trip threshold range：165V±5V |
| | | Undervoltage recovery threshold range：190V±5V |
| | | Minimum non-drive time during under-voltage：3s |
| | | Overvoltage and undervoltage recovery time≥ 10s |
| Communication Protocol | | Jamit Private Agreement、Modbus-RTU |
| Communication Interface | | RS485 Interface：A ,B ; RJ45 Interface ; Wifi、4G Interface |
| Electrical parameter measurement function | | ±0.5% |
| Instantaneous trip characteristic | Type B | 3In~5In |
| | Type C | 5In~10In |
| | Type D | 10In~20In |
| Wiring entry type | | Unlimited |
| Installation Method | | TH35-7.5 Standard Guide Rail |
| Pollution Level | | 2 |
| Protection Level | Direct installation | IP20 |
| | Installed inside the distribution panel | IP40 |
| Modular accessories | | None |




# M63L -S Miniature circuit breaker

## Product Overview

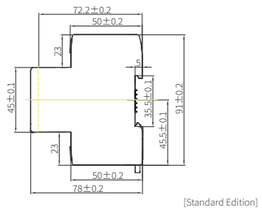
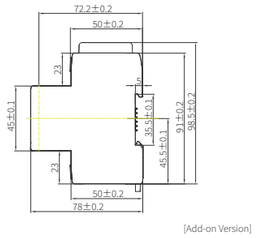
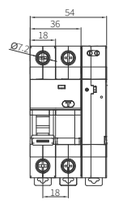
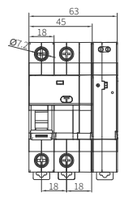
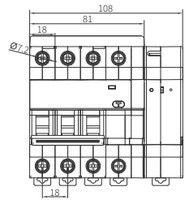
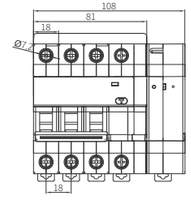
M63L-S This product is primarily designed for use in circuits with 50 Hz AC, a rated voltage of 240/415 V, and a rated current up to 63 A. It provides protection against overloads, short circuits, overvoltage, undervoltage, and leakage current, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally,
this product features remote control, power measurement (voltage, current, power), and terminal over-temperature warning,

Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, leak-current protection, electrical parameter measurement, remote switching

## Model and Meaning

| M63M | -S | 1 | C | 63 | 3P+N |
|---|---|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Function Code:<br>1: Energy Measurement<br>2: Remote Switching<br>3: Energy Measurement + Remote Switching<br>4: Energy Measurement + Temperature Monitoring<br>5: Remote Switching + Temperature Monitoring<br>6: Energy Measurement + Remote Switching + Temperature Monitoring | Trip Type | Rated current (A) | The number of poles |

## Appearance and Mounting Dimensions

| Side View | 【1P+N】Front View | 【3P+N】Front View |
|---|---|---|
|  [Standard Edition]<br> [Add-on Version]<br>M63L -S |  -S1 / -S2 / -S3<br> -S4 / -S5 / -S6 |  -S1 / -S2 / -S3<br> -S4 / -S5 / -S6 |

## Technical Specifications

| | | |
|---|---|---|
| Product Model | | M63L -S |
| Rated current (A) | | 1、2、4、6、10、16、20、25、32、40、50、63 |
| Rated voltage Ue (V) | | AC240V(1P+N)<br>AC415V(3P+N) |
| Rated frequency (Hz) | | 50/60 |
| Number of poles | | 1P+N、3P+N |
| Mechanical life (times) | | 30000 (Corporate Standards) |
| Electrical life (times) | | 15000 (Corporate Standards) |
| Rated short-circuit breaking capacity Icn(A) | | 6000 |
| Rated short-circuit breaking capacity Ics(A) | | 6000 |
| Rated insulation voltage Ui(V) | | 440 |
| Rated impulse withstand voltage Uimp (kV) | | 4 |
| Rated residual operating currentIΔn□mA□ | | Type A、AC:10、30、100、300、500 |
| Types of Residual Current Protection | | Type A、Type AC |
| Tripping Mechanism Types | | Electronic tripping |
| Dielectric test voltage (V) | | 2000(50Hz、1min ) |
| Vibration-resistant (IEC/EN60068-2-6) | | No significant vibrations or shocks |
| Terminal block | Minimum connectable conductor cross-sectional area($mm^2$) | 1 |
| | Maximum connectable conductor cross-sectional area ($mm^2$) | 35 |
| | Standard Torque (N·m) | 3.5 |
| | Maximum torque capacity (N·m) | 5 |
| | Wire insertion depth (mm) | 10 |
| | Temperature Measurement of Terminal Blocks (℃) | 45~150 (Alarms and actions are configurable; action temperature >5℃) |
| Reference temperature (℃ ) | | 30 |
| Operating temperature (℃ ) | | -35~+70 |
| Storage temperature (℃ ) | | -35~+85 |
| Applicable Altitude (m) | | ≤2000 |
| Overvoltage and undervoltage protection (parameters are configurable; values in the table are factory defaults) | | Overvoltage trip threshold range:280V±5V |
| | | Overvoltage recovery threshold range:250V±5V |
| | | Minimum non-drive time during overvoltage：3s |
| | | Undervoltage trip threshold range：165V±5V |
| | | Undervoltage recovery threshold range：190V±5V |
| | | Minimum non-drive time during under-voltage：3s |
| | | Overvoltage and undervoltage recovery time≥ 10s |
| Connection Methods | | Parallel assembly, rail PCBA connection |
| Electrical parameter measurement function | | ±0.5% |
| Instantaneous trip characteristic | Type B | 3In~5In |
| | Type C | 5In~10In |
| | Type D | 10In~20In |
| Wiring entry type | | Unlimited |
| Installation Method | | TH35-7.5 Standard Guide Rail |
| Pollution Level | | 2 |
| Protection Level | Direct installation | IP20 |
| | Installed inside the distribution panel | IP40 |
| Modular accessories | | None |




# Smart Gateway

## Product Overview

This product is a network adapter designed specifically for data conversion and transmission in conjunction with smart miniature circuit breakers. It primarily connects to the circuit breaker via 4G, Wi-Fi, or RJ45 Ethernet cables, enabling the conversion and transmission of data from cloud platforms and host computers to the smart miniature circuit breaker through data protocols, thereby facilitating data collection and remote control of the circuit breaker. The gateway also supports configuration via a cloud platform or mobile app, allowing users to conveniently and quickly switch operating modes. The gateway's design matches that of the smart miniature circuit breaker, enabling seamless integration with existing mounting rails inside terminal boxes, greatly enhancing user convenience.

Key Functions: Data acquisition, protocol conversion, data transmission
Certifications: SRRC

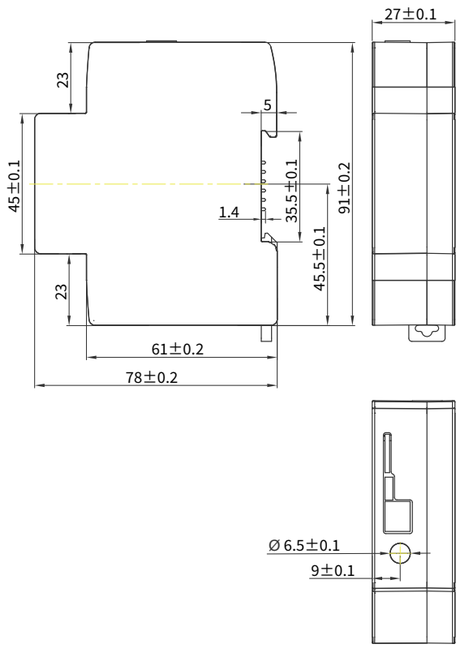
## Model and Meaning

| M63 | G | 0 | A |
|---|---|---|---|
| Enterprise Identification Code 6kA breaking capacity | Product Series Code | Basic Feature Code<br>0： RS485、DIDO(2 选 1)<br>1： 4G+RS485、DIDO(2 选 1)<br>2： wifi+RS485、DIDO(2 选 1)<br>3： RJ45 Ethernet+RS485、DIDO(2 选 1) | Add-on Feature Code<br>A:Bluetooth<br>B:encryption module<br>C:Bluetooth+encryption module |

## Technical Parameters

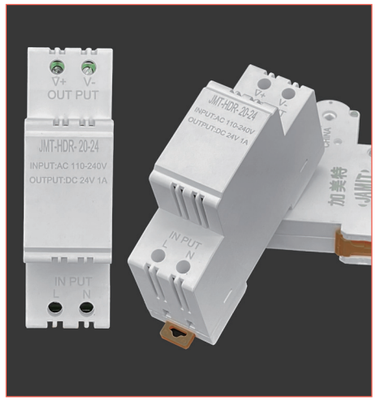
| | |
|---|---|
| Product Model | M63G |
| Rated operating voltage（V） | DC 24 |
| Input current(A) | 1 |
| Operating power(W) | 20 |
| Operating temperature (℃ ) | -25~70 |
| Storage temperature (℃ ) | -40~70 |
| Applicable Altitude (m) | ≤ 2000 |
| Communication Features | WiFi、BT/BLE、RS485、4G、RJ45 |
| 4G Frequency Bands (MHz) | TDD、FDD |
| Bluetooth Connection Protocol | BLE specification |
| Application Layer Protocol | Modbus-RTU、MQTT |
| Enclosure Flame Retardant Rating | V-0 |
| Installation Method | Installation of the TH35-7.5 Mounting Rail |
| Pollution Level | 2 |
| Protection Class | IP40 |
| Modular accessories | External antenna |
| Draggable loop | 1 to 12 channels |

## Appearance and Mounting Dimensions








# Switching power supply module

## Product Overview

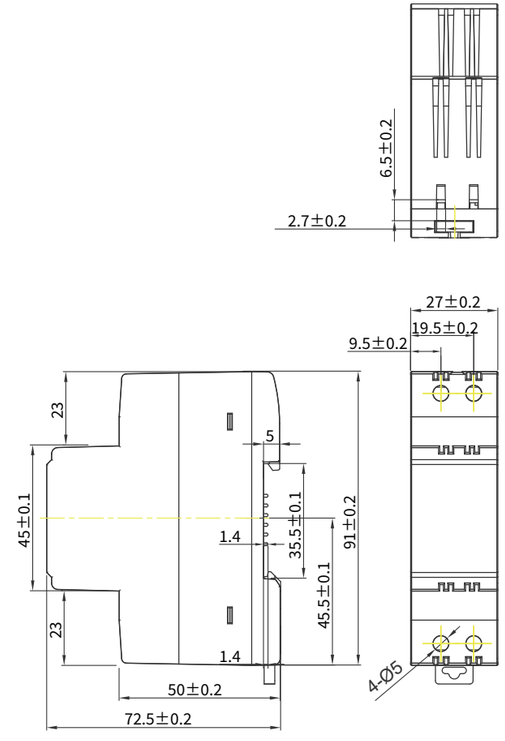
The JMT power supply module (hereinafter referred to as the "module") accepts AC 110–240 V or DC 36–72 V input voltage.It features a wide input voltage range, low temperature rise, low power consumption, high efficiency, high reliability, and high-level safety isolation. It can be used to power gateway communication devices, M63M(L)-S devices, and other equipment. Its modular design facilitates maintenance and upgrades, ensuring reliable and stable output even in harsh environments such as high temperatures.It supports an operating temperature range of -25°C to +70°C, enabling use in more demanding environmental applications.

Key Functions:Overcurrent protection, short-circuit protection, and a stable DC power supply

## Model and Meaning

| JMT | HDR | 20 | 12 |
|---|---|---|---|
| Enterprise Identification Code | HDR：AC Power Input<br>BD：DC Power Input | 20：INPUT：110-240V<br>36：INPUT：36-72V | 12：OUTPUT：DC 12V<br>24：OUTPUT：DC 24V |

## Appearance and Mounting Dimensions




## Technical Parameters

| Product Model | JMT-HDR | JMT-BD |
|---|---|---|
| Input Voltage (V) | AC 110-240 | DC 36~72 |
| Output Voltage (V) | DC 12/24V | DC 24V |
| Input Current (A) | 1 | |
| Working Power (W) | 4 | |
| Pollution Degree | 2 | |
| Motor protection grade | II | |
| Protection class (installed in the distribution box) | IP40 | |



# Induction Radar

## Product Overview

The JRD inductive radar operates on a 12–24 V DC input and features low temperature rise, low power consumption, high efficiency, high reliability, and high-safety isolation. Its modular design facilitates maintenance and upgrades, ensuring reliable and stable performance even in harsh environments such as high-temperature conditions.
It supports an operating temperature range of -25°C to +70°C, making it suitable for applications in more demanding environments.

Key Functions:Human Body Induction

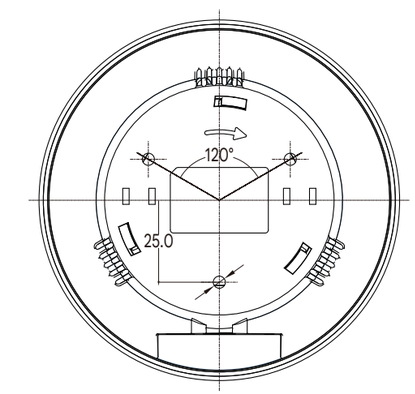
## Model and Meaning

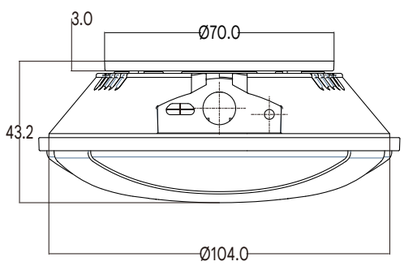
| | |
|---|---|
| JRD03 | R485 |
| Enterprise Identification Code | Communication method |

## Technical Parameters

| | |
|---|---|
| Product Model | JRD03-R485 |
| Input Voltage（V） | DC 12~24 |
| Operating Voltage（V） | DC 12~24 |
| Input Current（A） | 1 |
| Operating power（W） | 20 |
| Communication Interface | RS485Communication interface |
| Polluting capacity | 2 |
| Motor Protection Class | II |
| Protection degree (installed in the distribution box) | IP40 |

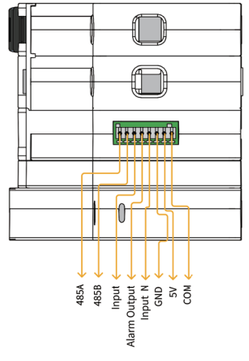
## Appearance and Mounting Dimensions



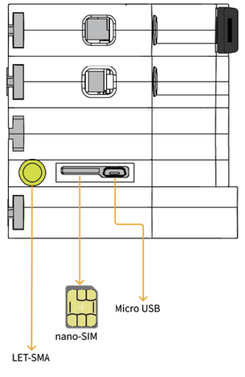




## -F Product Wiring Diagram

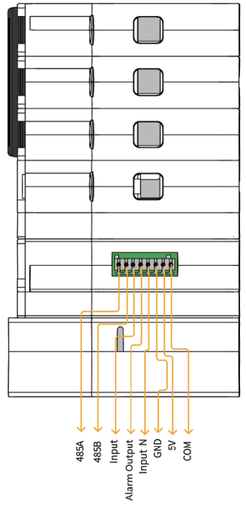
Single-phase power input



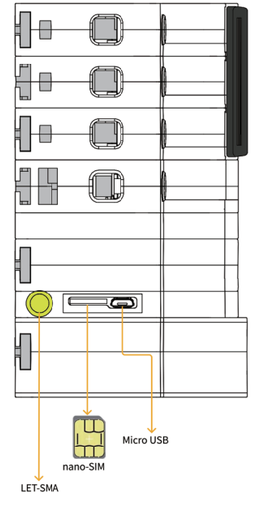

Single-phase power output



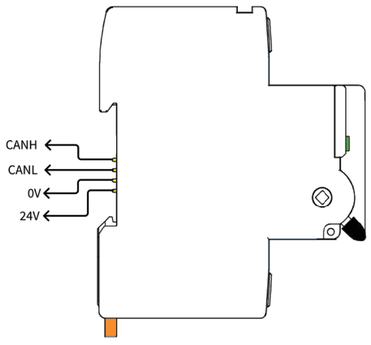

Three-phase power input

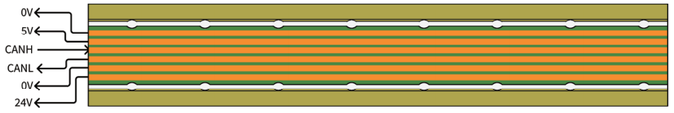



Three-phase power output

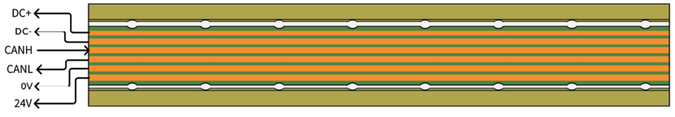



## -S Product Wiring Diagram




AC DIN Rail




DC DIN Rail




# JTM1EL Molded-case circuit breaker

## Product Overview

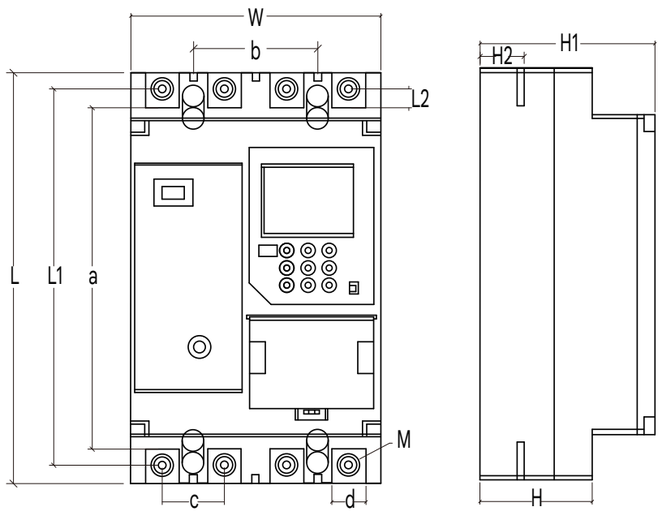
JTM1ELThis product is primarily designed for use in circuits with a frequency of 50 Hz, a rated voltage of 400 V AC, and a rated current of up to 800 A. It provides protection against overloads, short circuits, overvoltage, and undervoltage, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, this product features remote control, electrical parameter measurement (voltage, current, power), internal over-temperature alarms, and terminal over-temperature warnings.
It can be networked with external devices via an RS485 communication interface or through various methods such as Bluetooth, 4G, and Wi-Fi.

Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, electrical parameter measurement, remote switching

## Model and Meaning

| JTM1EL | 400 | M | - | 400A | 3PN |
|---|---|---|---|---|---|
| Enterprise Characteristic Code | Frame Grade | Breaking capacity | | Rated current （A） | Number of Poles |

## Appearance and Mounting Dimensions




| Model Specification | Dimensions | | | | Mounting Dimensions | | | | | | Clamping screw | C-C Distance | Inlet and Outlet Dimensions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | H1 | a | b | ϕ | L1 | L2 | H2 | M | c | d |
| 125/250 | 240 | 142 | 87 | 122 | 201 | 70 | 6*ϕ5 | 219 | 10 | 24 | 8 | 35 | 25 |
| 400 | 335 | 196 | 98 | 180 | 272 | 96 | 6*ϕ6 | 305 | 15 | 36 | 10 | 48 | 36 |
| 630 | 335 | 196 | 98 | 180 | 272 | 96 | 6*ϕ6 | 305 | 15 | I-38 O-39 | 10 | 48 | 36 |
| 630/800 | 355 | 240 | 104 | 188 | 282 | 116 | 6*ϕ6 | 312 | I-46 O-44 | | 12 | 58 | 42 |

## Technical Specifications

| | | | | | |
|---|---|---|---|---|---|
| Frame rating current Inm(A) | | 250 | 400 | 630 | 800 |
| Number of Poles | | 3P+N / 4P | | | |
| Rated voltageUe (V) | | AC 400 50HZ | | | |
| Rated insulation voltageUi (V) | | AC 1000 | | | |
| Rated impulse withstand voltageUimp | | 12kV | | | |
| Arc distance(mm) | | ≤50 | ≤100 | | |
| Rated ultimate short-circuit breaking capacity Icu(kA) M/H | | 50/85 | 65/85 | 65/ 85 | 100 |
| Rated service short-circuit breaking capacity Ics (kA) M/H | | 35/65 | 50/65 | 50/ 65 | 65 |
| Rated short-time withstand current Icw | | 5kA/1s | 10kA/1s | | |
| Residual Current Operating Characteristics | | AC | | | |
| Rated residual operating current I△n(mA) | | 50、100、200、300、500、800、1000、OFF、Automatic (Customizable) | | | |
| Residual operating time characteristics | | Time delay, non-time delay | | | |
| Breaking time(s) | Time-delay type | ≤0.3;≤0.5 | | | |
| | Non time-delay type | ≤0.3 | | | |
| Maximum non-driving time(s) | | 21△n:0.06/0.1/0.2 （Customizable） | | | |
| Automatic Reclosing Time(S) | | 20 ~ 60 | | | |
| Overload and short-circuit characteristics | | Three-stage protection, electronically adjustable. For details, refer to the protection characteristics. | | | |
| Overvoltage protection threshold(V) | | Default: 285 ± 5% (user-configurable) | | | |
| Undervoltage protection threshold(V) | | Default: 165±5% (user-configurable) | | | |
| Total voltage loss, phase failure, and neutral wire break protection | | Disabled by default | | | |
| Features and Specifications | | | | | |
| Communication Protocol | | It features a variety of local interfaces, including an HPLC communication module interface, an infrared communication interface, and one RS-485 interface. The HPLC technical solution adopted must comply with the relevant technical standards of State Grid Corporation and be interoperable with mainstream technical solutions. The communication protocol must meet the relevant technical standards of State Grid Corporation. | | | |
| Telemetry | | Equipped with telemetry capabilities, it measures parameters such as current, voltage, active power, reactive power, energy, and power factor. Accuracy is ±1%, with 0.5% accuracy available upon request. | | | |
| Metering Function | | Data such as active energy, reactive energy, voltage, current, and power meet the accuracy class requirements for Class 1 electricity meters. Voltage readings support one decimal place. Energy-related data supports storage and retrieval for a period of at least 8 days. Load records, including voltage, current, power, power factor, and total active energy, support a data volume of at least 8 days with a 15-minute interval. Meter readings are taken in accordance with the technical requirements for smart electricity meters. The meter provides a pulse output proportional to the measured energy (active/reactive). | | | |
| Remote control | | It supports remote control, enabling functions such as remote tripping, closing, and checking operational status. | | | |




# JTM1EL Molded-case circuit breaker

## Product Overview

JTM1ELThis product is primarily designed for use in circuits with a frequency of 50 Hz, a rated voltage of 400 V AC, and a rated current of up to 800 A. It provides protection against overloads, short circuits, overvoltage, and undervoltage, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, this product features remote control, electrical parameter measurement (voltage, current, power), internal over-temperature alarms, and terminal over-temperature warnings.
It can be networked with external devices via an RS485 communication interface or through various methods such as Bluetooth, 4G, and Wi-Fi.

Key Features: Overload protection, short-circuit protection, overvoltage protection, undervoltage protection, electrical parameter measurement, remote switching

## Technical Specifications

| | |
|---|---|
| Short-circuit protection | Identify and quickly clear faults such as three-phase short circuits, two-phase short circuits, three-phase-to-ground short circuits, two-phase-to-ground short circuits, and single-phase-to-ground short circuits. |
| Overload protection | A preset overload current value is set, and when the circuit current exceeds this value, an alarm is triggered or the fault is cleared after a delay, in accordance with the specified menu settings. |
| Phase loss protection | Detect a phase line break in the incoming circuit. Clear the fault or alarm according to the preset menu. |
| Neutral Loss Protection | Detect neutral wire break faults at the incoming line end. Cut off the fault or issue an alarm according to the preset menu. |
| Overvoltage and Undervoltage Protection | Set the upper and lower limits of the line voltage. When the line voltage exceeds the upper limit or falls below the lower limit, the fault shall be cut off or an alarm shall be issued according to the preset menu. |
| Display, monitoring, recording, storage | It has functions such as displaying the setting values of residual current, as well as displaying, monitoring and recording the number of trips for residual current and fault phases in the low-voltage power grid. |
| Display and monitor the voltage and current of the line operation. | It is equipped with the functions of displaying and monitoring the operating current and voltage of the line. It features a Chinese LCD display that can show the real-time operating status of the circuit breaker, including current current, voltage, active power, residual current, switch status, closing status, protection setting parameters, protection, alarm, tripping events, etc. |
| Automatic reclosing | Equipped with one automatic reclosing function. Manual reset is required after locking. The activation and deactivation of automatic reclosing can be set via the menu. |
| Menu Function | Protection parameter setting, operation parameter menu and other functions can be realized via keys or communication. |
| Alarm | In places where power interruption is not allowed, the device is equipped with an alarm function. During fault maintenance, the residual current protection and tripping functions of the protector are disabled. After the residual current protection is turned off, the corresponding indicator status can be viewed via the panel display and communication port. |
| Upgrade and Maintenance | Supports software upgrade via local interface, and allows local and remote reading and writing of basic information and operation information of the equipment. |
| Residual Current Protection | When the residual current exceeds the set value, the fault shall be cleared within the specified time. |
| Auxiliary contact | The intelligent molded case circuit breaker is equipped with one group of normally open relay or auxiliary contact output switching contacts (closed when switched on, open when switched off), which can provide the switching status signal of the equipment to the terminal management equipment. |
| DC Auxiliary Power Supply | Equipped with a DC 12V 300mA power output interface. |
| Remote Control | It supports remote control, enabling remote switching-off, switching-on and operation status query functions. |





# Smart Gateway

## Product Overview

This product is a network adapter designed specifically for data conversion and transmission with the JTM1EL smart molded-case circuit breaker. It primarily connects to the circuit breaker via 4G, Wi-Fi, or an RJ45 Ethernet cable, enabling the conversion and
transmission of data from cloud platforms and host computers to the smart molded-case circuit breaker through data protocols, thereby facilitating data collection and remote control of the circuit breaker. The gateway also supports configuration via a cloud platform or mobile app, allowing users to conveniently and quickly switch operating modes. Featuring a built-in design, the gateway requires no separate power supply, greatly enhancing user convenience.

**Key Functions** Data acquisition, protocol conversion, data transmission

**Certifications** SRRC

**Model and Meaning**

| JMT | CRS00 | G0 | Feature Description |
|---|---|---|---|
| Enterprise Identification Code | Auxiliary code | Function Code | JMT-CRS00G0 4G<br>JMT-CRS00G0A 4G + Bluetooth<br>JMT-CRS00G0B 4G + Encryption Module<br>JMT-CRS00G0C 4G + Bluetooth + Encryption Module<br>JMT-CRS00G1 Wi-Fi<br>JMT-CRS00G1A Wi-Fi + Bluetooth<br>JMT-CRS00G1B Wi-Fi + Encryption Module<br>JMT-CRS00G1C Wi-Fi + Bluetooth + Encryption Module<br>JMT-CRS00G2 RJ45 Ethernet<br>JMT-CRS00G2A RJ45 Ethernet + Bluetooth<br>JMT-CRS00G2B RJ45 Ethernet + Encryption Module<br>JMT-CRS00G2C RJ45 Ethernet + Bluetooth + Encryption Module |



# JTM1E Molded-case circuit breaker

## Product Overview

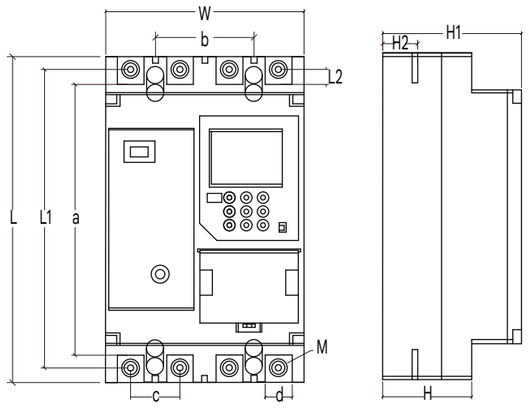
JTM1E This product is primarily designed for use in circuits with a 50 Hz AC frequency, a rated voltage of 400 V AC, and a rated current of up to 800 A. It provides protection against overloads, short circuits, overvoltage, undervoltage, and phase loss, and can also be used for infrequent switching of circuits under normal operating conditions. Additionally, the product features energy measurement capabilities (voltage, current, and power) and can be networked with external devices via various methods, including an RS485 communication interface, 4G, and Wi-Fi.

Key Features: Overload protection, short-circuit protection, overvoltage and undervoltage protection, phase loss protection, electrical parameter measurement

## Model and Meaning

| JTM1E | 250 | M | - | 250A | 3PN |
|---|---|---|---|---|---|
| Enterprise Identification Code | Frame Grade | Breaking capacity | | Rated current（A） | Number of poles |

## Appearance and Mounting Dimensions




| Model Specification | | JTM1E-250 | | (UP-rated) JTM1E-630 JTM1E-400 | | JTM1E-800 JTM1E-630 | |
|---|---|---|---|---|---|---|---|
| Number of Poles | | 3 | 4 | 3 | 4 | 3 | 4 |
| Panel cutout dimensions (mm) | W | 107 | 142 | 150 | 200 | 210 | 280 |
| | L | 165 | | 257 | | 280 | |
| | H | 165 | | 146 | | 155 | |
| | a | 35 | 70 | 44 | 94 | 70 | 140 |
| | b | 126 | | 194 | | 243 | |
| | ϕ | 4.5 | | 7 | | 7 | |

## Technical Specifications

| | | | | | |
|---|---|---|---|---|---|
| Frame rating current Inm(A) | | 250 | 400 | 630 | 800 |
| Setting current Ir1(A) | | Adjustable from 100 to 250 | Adjustable from 160 to 400 | Adjustable from 252 to 630 | Adjustable from 320 to 800 |
| Number of poles | | 3P | | | |
| Rated operating voltage Ue | | AC400/690V | | | |
| Rated insulation voltage Ui | | 1000V | | | |
| Rated impulse withstand voltage Uimp | | 12KV | | | |
| Rated short-time withstand current Icw | | 5kA/1s | 10kA/1s | 10kA/1s | 10kA/1s |
| Rated ultimate short-circuit breaking capacityIcu(kA) | | Type M：50<br>Type H：85 | Type M：65<br>Type H：85 | Type M：70<br>Type H：85 | Type M：70<br>Type H：85 |
| Rated service short-circuit breaking capacity Ics(kA) | | Type M：35<br>Type H：65 | Type M：50<br>Type H：65 | Type M：50<br>Type H：65 | Type M：50<br>Type H：70 |
| Rated short-time withstand current Icw/1s(kA) | | -- | 5 | 10 | 10 |
| Usage Category | | Class A | Class B | Class B | Class B |
| Arc distance (up/down, mm) | | ≤50 | ≤100 | ≤100 | ≤100 |
| Operational Performance | Power-on (times) | 1000 | 1000 | 1000 | 500 |
| | Power-off (times) | 7000 | 4000 | 4000 | 3000 |
| Overvoltage protection | | The default factory setting is enabled. The setpoint is adjustable between 250 and 320 V; the default factory setting for the standard model is 280 V. (The action delay for the standard model is adjustable between 1 and 10 seconds; the default factory setting is 3 seconds. The action delay for the standard model is adjustable between 1 and 5 seconds; the default factory setting is 0–10 seconds. The default factory setting is 10 g.) | | | |
| Undervoltage protection | | Factory default: enabled; adjustable range: 140–200 V; factory default: 140 V. Standard model activation delay: adjustable from 1 to 5 seconds; factory default: 5 seconds. (Factory default setting for model 35: activation delay adjustable from 1 to 5 seconds; factory default: 10 seconds.) | | | |
| Phase loss protection | | Disabled by default. Set value: 50–220 V (default: 100 V), response delay: ⩽ 1 s. | | | |
| Communication Protocol | | RS-485 communication interface: DL/T-645 communication protocol: Baud rate: 600–19,200 adjustable (default 2,400) | | | |