

Distribution Apparatus

YCM3 Series MCCB



YCM3T/A



YCM3RT



YCM3E

General

YCM3 Series moulded case circuit breaker, is new products, with small compact, modular, high break, double breakpoints, zero arcing, green environmental protection. Suitable for AC 50Hz, 60Hz, rated operating voltage 690V and below, rated current 12.5A to 1600A distribution network, used to distribute electrical energy and protection lines and power supply equipment from overload, short circuit and undervoltage failure hazards. It can also be used as a non-frequent conversion of the line under normal conditions and in the infrequent start of the motor.

YCM3 circuit breaker equips with intelligent controller as well, which not only makes its current adjustable but also grants protection against overload(long delay), short-circuit(short delay), short-circuit.instantaneous & undervoltage. It'll certainly improve the entire power system's reliability, continuity & security. RS485 interface,MODBUS-RTU protocol. With MODBUS modul equipped,customers can choose options as below. Remote signal: Switching ON/OFF, tripping, alarm & malfunction singal indication.

Remote control: Switching ON/OFF,reset.Remote test: 3-phase cuttent & N-pole current, grounding current. Remote adjustment: accept and execute remote command to debug remote control .Tripping unit memory recording function, last three time' tripping records can be well traced. YCM3 circuit breaker also obtains isolation function(Can be used as an alternative load switch).

Standard: IEC 60947-2.

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Operating conditions

1. The altitude of the installation site does not exceed 2000m;
2. The YCM3 thermomagnetic type with temperature of the surrounding medium is -5°C~ +40°C, and the average temperature of 24 h is not more than +35°C. The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of +40°C; at lower temperatures, there may be a higher relative humidity; the average minimum temperature of the wettest month does not exceed +25°C for the average of the month The maximum relative humidity is not more than 90%, and the condensation on the surface of the product due to temperature changes is considered.
3. YCM3 intelligent type with temperature of the surrounding medium is -40°C~+80°C.
4. The product is used in non-explosive hazardous media, and the media does not have enough to corrode metals and destroy insulating gases and conductive dust.
5. In places where there is rain protection and no water vapor.
6. The installation category is Class III.
7. The pollution level is level 3.
8. The basic installation of the circuit breaker is vertical (ie vertical) or horizontal (ie horizontal).
9. The incoming line is either the up line or the down line.
10. Circuit breakers can be divided into fixed and plug-in types.

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YCM3Y



YCM3Y

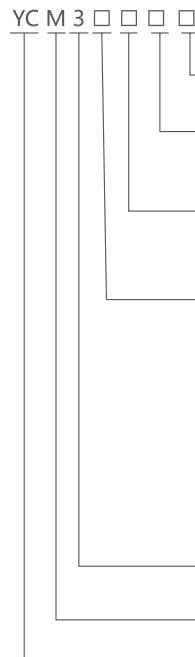
With communication



YCM3LE

With residual current module

Type designation



Number of poles: 3 for 3P, 4 for 4P

Breaking capacity code:

N:Standard;H:High Breaking type

Frame size current:

100, 160, 250, 400, 630, 1600

Release type code:

MA:Single magnetic

T/A : overload adjustable

RT: Overload+short circuit adjustable

E : Electronic(2.0E,3.0E)

Y: LCD intelligent electronic

YV: Voltage measurement type

YP:Power measurement

LE: Earth leakage type

Design sequence number

MCCB

Company code

Note:

Other requirements at the time of ordering are subject to textual instructions.

Release:

The type of stripper is divided into: thermal magnetic stripper and Intelligent stripper

1. Thermal magnetic stripper is divided into types according to protection type

Distribution Protection Code: TM; Motor (single-magnetic) protection Code: MA.

2. Intelligent stripper According to the function is divided into three kinds:

ordinary type, liquid crystal type and with voltage detection type.

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Circuit breaker protection settings are shown in table 1

Table 1

| Type of Stripper | Type | Overload long delay setting current(IR) | Overload long delay (6-IN) Fix buckle time | Short-circuit shorter delay tuning current (ISD) | Short-circuit shorter delay setting time (TSD) | Short-circuit transient tuning current (Ii) | Grounding Protection setting current (IG) | Grounding Protection setting time (TG) |
|--------------------------------------|--|---|--|--|--|---|---|--|
| MA: Single magnetic | YCM3MA-100 YCM3MA-160 YCM3MA-250 YCM3MA-400 YCM3MA-630 | / | / | / | / | 12In | / | / |
| T/A: Overload adjustable | YCM3T/A-100 YCM3T/A-160 YCM3T/A-250 | (0.8~1)In | / | / | / | 10In | / | / |
| RT:Overload+short circuit adjustable | YCM3RT-250 (200~250A) | (0.8~1)In | / | / | / | (5~10)In | / | / |
| | YCM3RT-400 YCM3RT-630 | (0.7~1)In | | | | | | |
| E(2.0E): Electronic 2.0E | YCM3E-100 2.0E YCM3E-160 2.0E YCM3E-250 2.0E YCM3E-400 2.0E YCM3E-630 2.0E | (0.4~1)In | / | (1.5~10)Ir | / | 12In | / | / |
| | YCM3E-1250 2.0E YCM3E-1600 2.0E | (0.4~1)In | 0.5~24s | (1.5~10)Ir | | 12In | | |
| E(3.0E): Electronic 3.0E | YCM3E-100 3.0E YCM3E-160 3.0E YCM3E-250 3.0E YCM3E-400 3.0E YCM3E-630 3.0E | (0.4~1)In | 0.5~12s | (1.5~12)Ir | 0.1s~0.4s | (2~15)In | (20%~100%)In | / |
| | YCM3E-1250 3.0E YCM3E-1600 3.0E | (0.4~1)In | 0.5~24s | (1.5~10)Ir | 0.1s~0.4s | (2~15)In | Optional | / |
| Y:LCD display, Current type | YCM3Y(YV、YP)-100 YCM3Y(YV、YP)-160 YCM3Y(YV、YP)-250 YCM3Y(YV、YP)-400 YCM3Y(YV、YP)-630 | (0.4~1)In | 0.5~12s | (1.5~12)Ir | 0s~0.4s | (2~15)In | (20%~100%)In | 0s~0.4s |
| | YCM3Y(YV、YP)-1250 YCM3Y(YV、YP)-1600 | (0.4~1)In | 0.5~24s | (1.5~12)Ir | 0s~0.4s | (2~15)In | (20%~100%)In | 0s~0.4s |

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YCM3 parameter measurement function is shown in table 2

Table 2

| function type | functional category | Specific functions | Monomagnetic | Thermomagnetic | Electronic | | | | | |
|----------------------|-------------------------------------|---|--------------|----------------|------------|------|------|---|----|----|
| | | | MA | T/A | RT | 2.0E | 3.0E | Y | YV | YP |
| Protection function | Current (A) | overload protection | / | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | Short circuit short time delay protection | / | / | / | ■ | ■ | ■ | ■ | ■ |
| | | Instantaneous protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | | Overload warning | / | / | / | ■ | ■ | ■ | ■ | ■ |
| | | Neutral line protection | □ | □ | □ | □ | □ | □ | □ | □ |
| | | Grounding protection | / | / | / | / | ■ | ■ | ■ | ■ |
| | | Current imbalance protection | / | / | / | / | / | ■ | ■ | ■ |
| | Voltage(v) | Zero break protection | / | / | / | / | / | ■ | ■ | ■ |
| | | Voltage imbalance protection | / | / | / | / | / | ■ | ■ | ■ |
| | | Overfrequency and underfrequency protection | / | / | / | / | / | ■ | ■ | ■ |
| | | Phase sequence protection | / | / | / | / | / | ■ | ■ | ■ |
| Measurement function | Current (A) | Phase current | / | / | / | / | / | ■ | ■ | ■ |
| | | Neutral current | / | / | / | / | / | □ | □ | □ |
| | | Percentage of ground faults | / | / | / | / | / | ■ | ■ | ■ |
| | | Current imbalance rate of each phase | / | / | / | / | / | ■ | ■ | ■ |
| | Voltage(V) | Line voltage | / | / | / | / | / | ■ | ■ | ■ |
| | | Phase voltage | / | / | / | / | / | ■ | ■ | ■ |
| | | Average line voltage | / | / | / | / | / | ■ | ■ | ■ |
| | | Average phase voltage | / | / | / | / | / | ■ | ■ | ■ |
| | | Voltage imbalance rate | / | / | / | / | / | ■ | ■ | ■ |
| | | phase sequence | / | / | / | / | / | ■ | ■ | ■ |
| | | frequency | / | / | / | / | / | ■ | ■ | ■ |
| | Power | Meritorious | / | / | / | / | / | / | ■ | ■ |
| | | Reactive power | / | / | / | / | / | / | / | ■ |
| | | Apparent | / | / | / | / | / | / | / | ■ |
| | | Power factor and | / | / | / | / | / | / | / | ■ |
| | Quantity of electricity | Active, reactive, apparent | / | / | / | / | / | / | / | ■ |
| Maintenance function | Accumulated function | Various types of protection tripping times, displacement times, etc | / | / | / | / | / | ■ | ■ | ■ |
| | Event recording | Trip records, alarm records, displacement records, etc | / | / | / | / | / | ■ | ■ | ■ |
| | Contact wear | Contact wear record | / | / | / | / | / | ■ | ■ | ■ |
| | Number of operations | Record of operation times | / | / | / | / | / | ■ | ■ | ■ |
| | RTC function | Real time clock | / | / | / | / | / | ■ | ■ | ■ |
| | Auxiliary/alarm detection function | Auxiliary, alarm detection, and display of circuit breaker status | / | / | / | / | / | □ | □ | □ |
| | Electric operation control function | Remote electric operation control function | / | / | / | / | / | ■ | ■ | ■ |
| | human-computer interaction | LED indication | / | / | / | / | / | ■ | ■ | ■ |
| | | LCD display | / | / | / | / | / | ■ | ■ | ■ |
| | | Key settings | / | / | / | / | / | ■ | ■ | ■ |
| | communication function | Moedbus RTU DL/T645 | / | / | / | / | / | □ | ■ | ■ |

■ Have □ Optional / Without this feature

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Technical data

1.The basic parameters of the circuit breaker are shown in Table 2.

2.The overload delay and short-circuit transient protection action characteristics of the circuit breaker are shown in Table 4 and Table 3.

Table 2

| Type | YCM3-100 | | YCM3-160 | | YCM3-250 | | | |
|---|---|------------------|---|------------------|----------------------------|------------------|--|--|
| Number of poles | 3P, 4P | | 3P, 4P | | 3P, 4P | | | |
| Shell frame maximum rated current Inm(A) | 100 | | 160 | | 250 | | | |
| Rated current In(A) | 12.5/16/20 25/32/40 50/63/80/100 | 100 | 16/20/25/32 40/50/63/80 100/125/160 | 160 | 100/160/180 200/225/250 | 250 | | |
| Type of Stripper | Thermal or single-magnetic | Intelligent type | Thermal or single-magnetic | Intelligent type | Thermal or single-magnetic | Intelligent type | | |
| Rated insulation voltage Ui(V) | 800 | | 800 | | 800 | | | |
| Rated impulse withstand voltage Uimp(kV) | 8 | | 8 | | 8 | | | |
| Rated voltage Ue(V)50-60Hz | AC415/500/690 | | AC415/500/690 | | AC415/500/690 | | | |
| Flying arc Distance(mm) | 0 | | 0 | | 0 | | | |
| Short circuit breaking capability level | N | H | N | H | N | H | | |
| Rated limit Short circuit Breaking capacity Icu(kA) | AC415V | 50 | 85 | 50 | 85 | 50 | | |
| | AC500V | 35 | 50 | 35 | 50 | 35 | | |
| | AC690V | 6 | 6 | 6 | 6 | 6 | | |
| Rated running short circuit Breaking capacity Ics(kA) | AC415V | 75% Icu | | | | | | |
| | AC500V | 75% Icu | | | | | | |
| | AC690V | 75% Icu | | | | | | |
| Rated short time resistant current Icw(kA) (1s) | / | 3 | / | 3 | / | 3 | | |
| Working with categories | A | | A | | A | | | |
| Remaining Current protection | Additional Residual current protection module (See P78-79 LE remaining current module for specific parameters) | | | | | | | |
| Electrical Life Test | AC415V | 10000 | 10000 | 8000 | 8000 | 8000 | | |
| | AC690V | 1500 | 1500 | 1500 | 1500 | 1500 | | |
| Number of mechanical life | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | | |
| Dimensions | Wide(3P/4P) 105/140 | | | 105/140 | | 105/140 | | |
| | Long 161 | | | 161 | | 161 | | |
| | High 86 | | | 86 | | 86 | | |
| Mode of operation | Manual Direct operation、Rotate handle operation、Electric operating mechanism | | | | | | | |
| Mounting method | Fixed type(front of plate)、Fixed type(rear of plate)、Plug-in(front of plate)、Plug-in(rear of plate) | | | | | | | |

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Renew Table 3

| Type | YCM3-400 | | YCM3-630 | | YCM3-1600 | | | | |
|---|---|------------------|-------------------------------|------------------|--------------------|--|--|--|--|
| Number of poles | 3P, 4P | | 3P, 4P | | 3P, 4P | | | | |
| Shell frame maximum rated current Inm(A) | 400 | | 630 | | 1600 | | | | |
| Rated current In(A) | 250/315/ 350/400 | 400 | 400/500/ 600/630 | 630 | 800/1000/1250/1600 | | | | |
| Type of Stripper | Thermal or single-magnetic | Intelligent type | Thermal or single-magnetic | Intelligent type | Intelligent type | | | | |
| Rated insulation voltage Ui(V) | 1000 | | 1000 | | 1000 | | | | |
| Rated impulse withstand voltage Uimp(kV) | 8 | | 8 | | 8 | | | | |
| Rated voltage Ue(V)50-60Hz | AC415/500/690 | | AC415/500/690 | | AC415/500/690 | | | | |
| Flying arc Distance(mm) | 0 | | 0 | | 0 | | | | |
| Short circuit breaking capability level | N | H | N | H | N | | | | |
| Rated limit Short circuitBreaking capacity Icu(kA) | AC415V | 50 | 85 | 50 | 85 | | | | |
| | AC500V | 35 | 50 | 35 | 50 | | | | |
| | AC690V | 10 | 10 | 10 | 10 | | | | |
| Rated running short circuit Breaking capacity Ics(kA) | AC415V | 75% Icu | | | | | | | |
| | AC500V | | | | | | | | |
| | AC690V | | | | | | | | |
| Rated short time resistant current ICW (kA) (1s) | / | 5 | / | 8 | 8 | | | | |
| Working with categories | A | B | A | B | B | | | | |
| Remaining Current protection | (See P78-79 LE remaining current module for specific parameters) | | | | | | | | |
| Electrical Life Test | AC415V | 6000 | 6000 | 5000 | 5000 | | | | |
| | AC690V | 1000 | 1000 | 1000 | 1000 | | | | |
| Number of mechanical life | 10000 | 10000 | 10000 | 10000 | 10000 | | | | |
| Dimensions | Wide(3P/4P) | 140/185 | | 140/185 | | | | | |
| | Long | 255 | | 255 | | | | | |
| | High | 110 | | 110 | | | | | |
| Mode of operation | Manual Direct operation、Rotate handle operation、Electric operating mechanism | | | | | | | | |
| Mounting method | Fixed type(front of plate)、Fixed type(rear of plate)、Plug-in(front of plate)、Plug-in(rear of plate) | | | | | | | | |

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Table 4

| Serial number | Distribution breaker | | | Circumstance temperature |
|---------------|------------------------|--|-----------------------------|---|
| | Test current(times) | Tripping time | Status | |
| 1 | 1.05In | 1h non-tripping (In≤63A) 2h non-tripping (In>63A) | Initial | $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ |
| 2 | 1.3In | 1h tripping (In≤63A) 2h tripping (In>63A) | Following serial 1 | |
| 3 | $10\text{In} \pm 20\%$ | 8In | > 0.2s Tripping | Any suitable temperature |
| 4 | | 12In | $\leq 0.2\text{s}$ Tripping | |

B

Technical data

Table 5

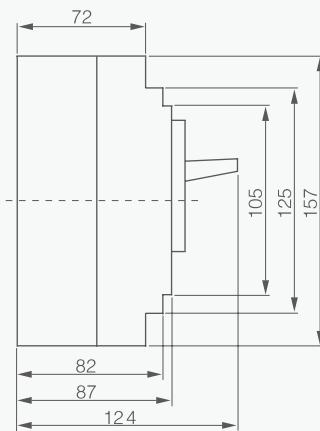
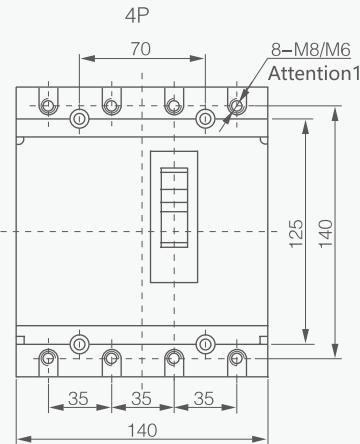
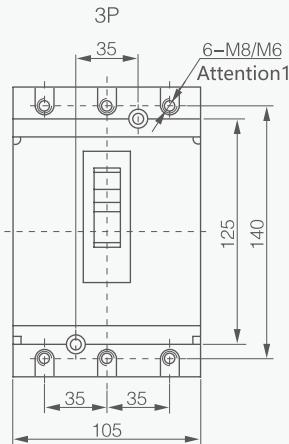
| Serial number | Motor protection breaker | | | Circumstance temperature |
|---------------|--------------------------|-----------------|--|---|
| | Testing current(times) | Tripping time | State | |
| 1 | 1.05In | 2h non-tripping | Initial | $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ |
| 2 | 1.2In | 2h tripping | Following serial 1 | |
| 3 | 1.5In | 4min tripping | The order 1 current reaches the thermal equilibrium and begins | Any suitable temperature |
| 4 | 7.2In | 2~10s Tripping | Initial | |
| 5 | $12\text{In} \pm 20\%$ | 9.6In | > 0.2s Tripping | Any suitable temperature |
| 6 | | 14.4In | $\leq 0.2\text{s}$ Tripping | |

Distribution Apparatus

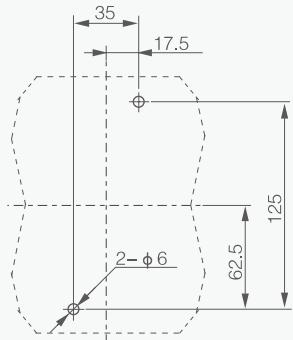
YCM3 Series MCCB

YCM3-100、160、250 Overall and mounting dimensions(mm)

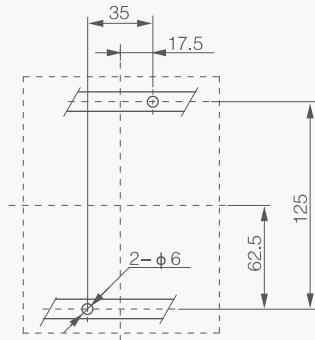
B



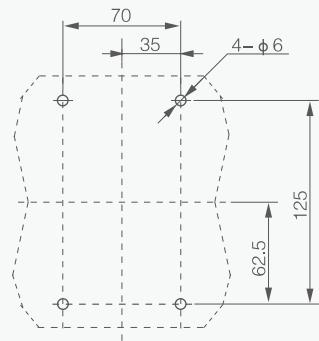
Attention1: when $I_n > 100A$, Fixing screw size should be M8 ; When $I_n \leq 100A$, fixing screw size should be M6.



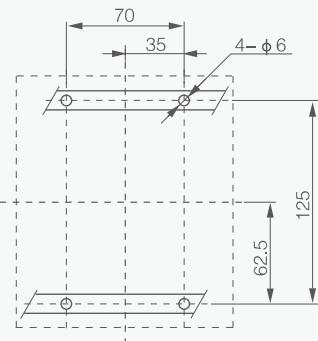
3P : Installed on the panel



3P : Installed on leading rails



4P : Installed on the panel

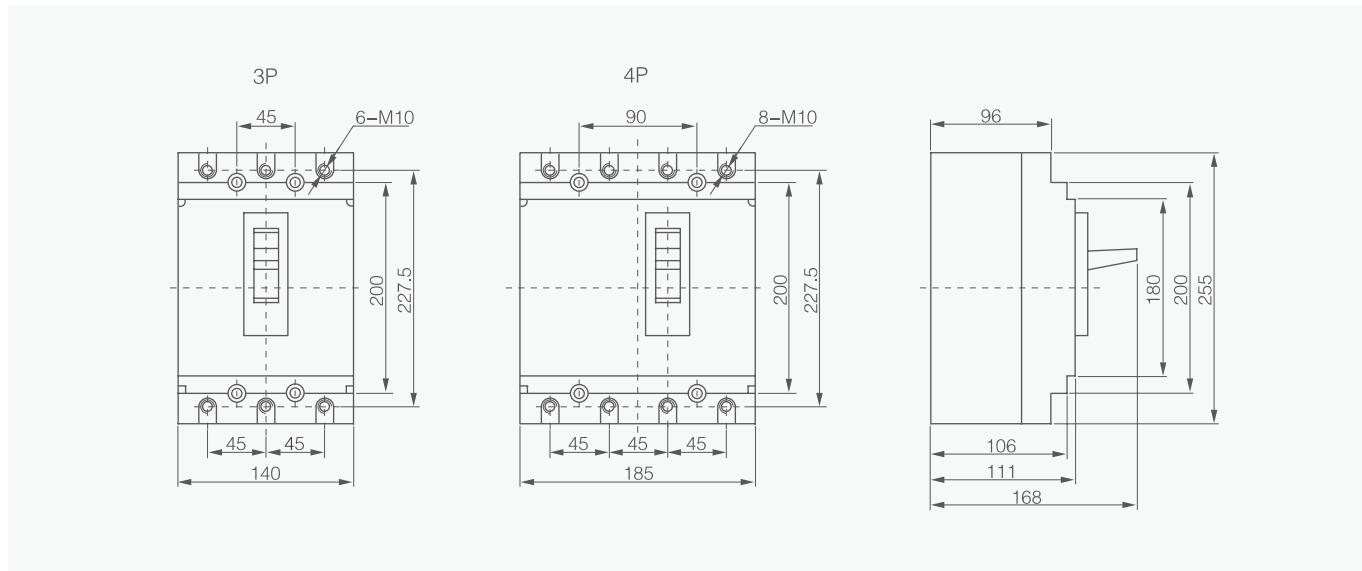


4P : Installed on leading rails

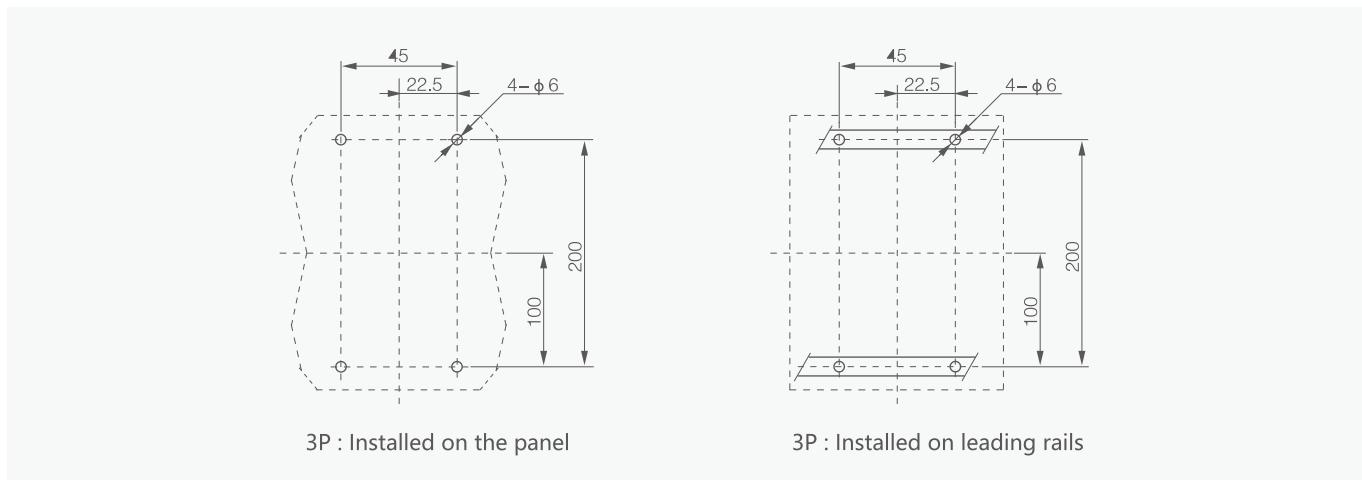
Distribution Apparatus

YCM3 Series MCCB

YCM3-400、630 Overall and mounting dimensions(mm)

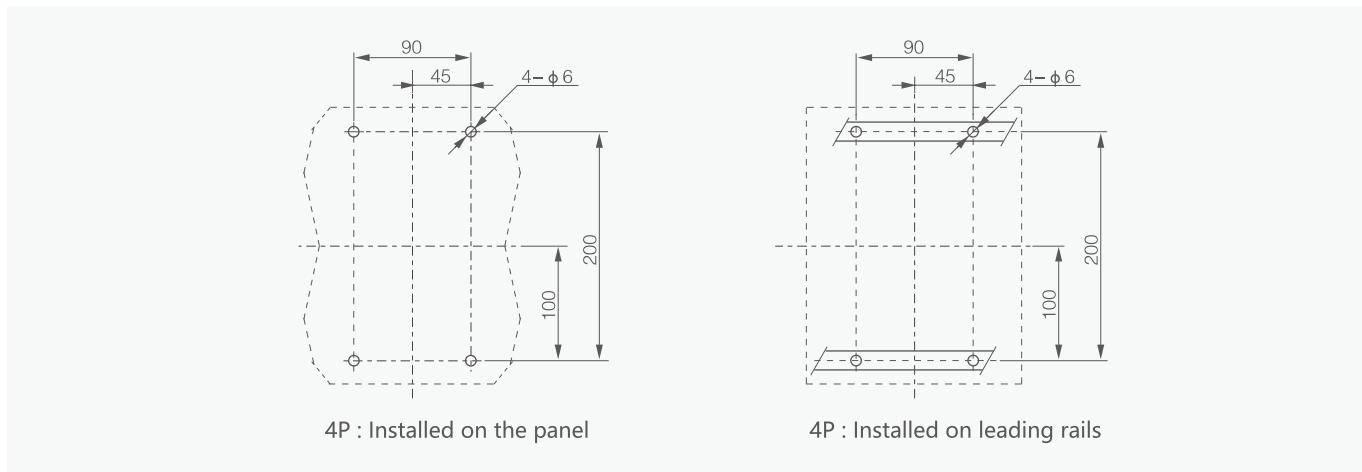


B



3P : Installed on the panel

3P : Installed on leading rails



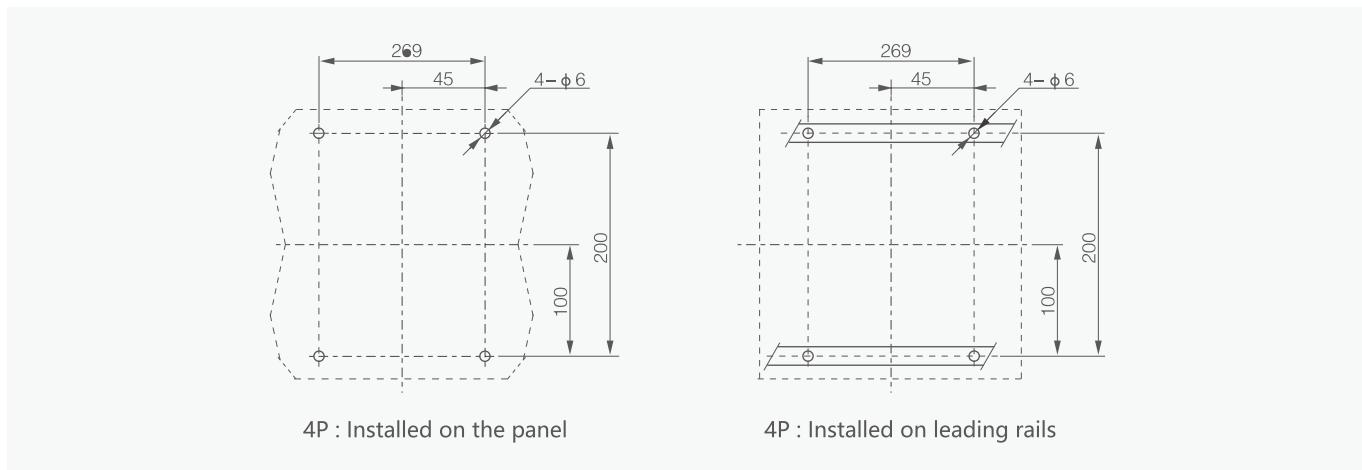
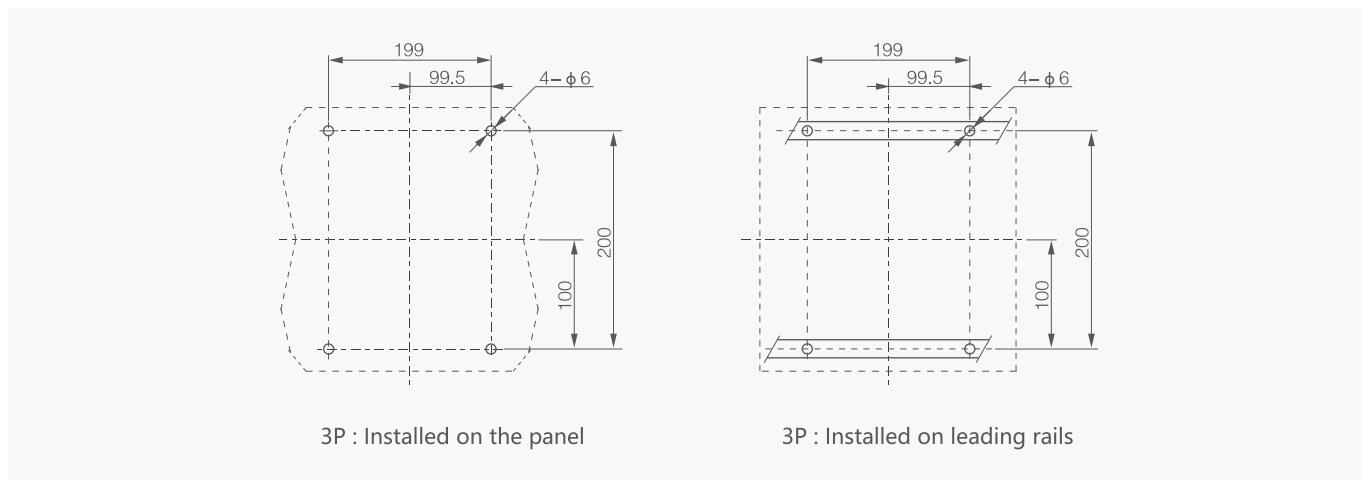
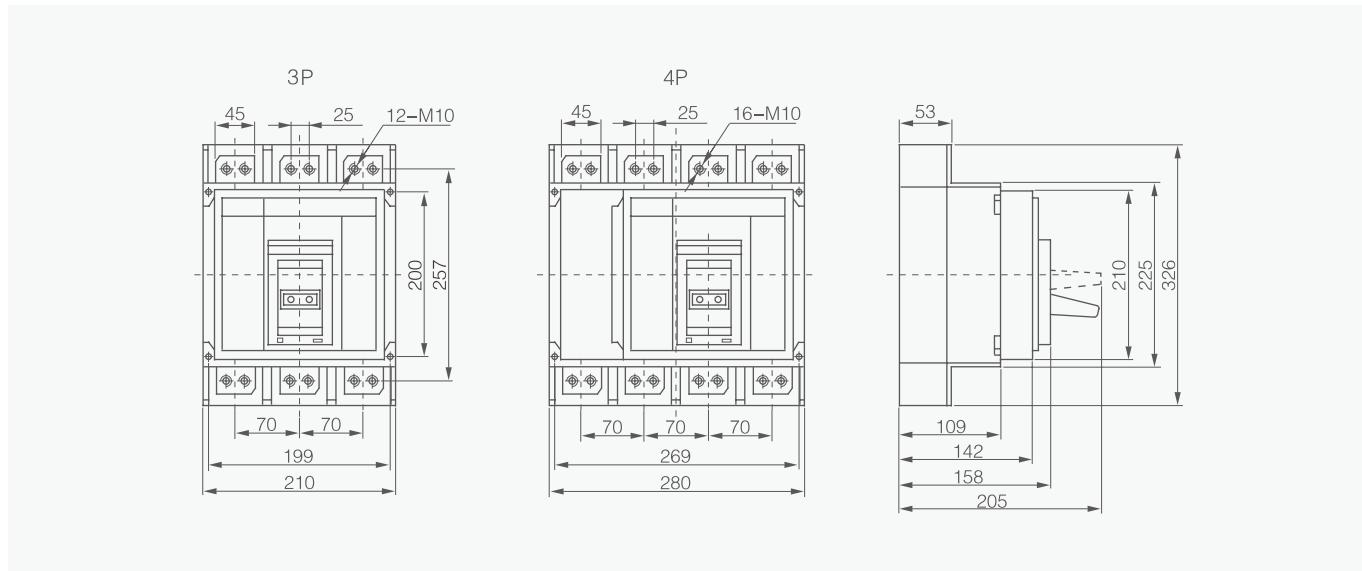
4P : Installed on the panel

4P : Installed on leading rails

Distribution Apparatus

YCM3 Series MCCB

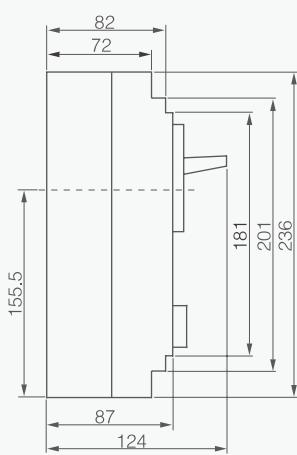
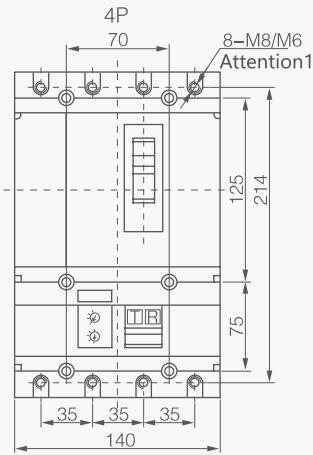
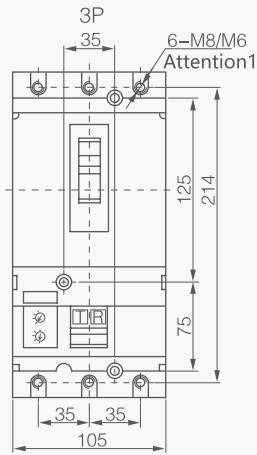
YCM3-1600 Overall and mounting dimensions(mm)



Distribution Apparatus

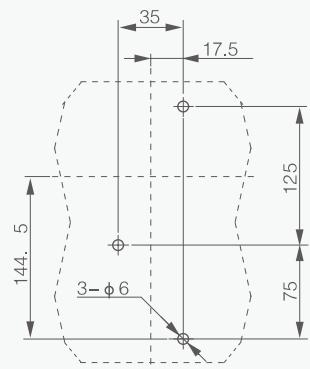
YCM3 Series MCCB

YCM3-100、160、250 (with residual current module) Overall and mounting dimensions(mm)

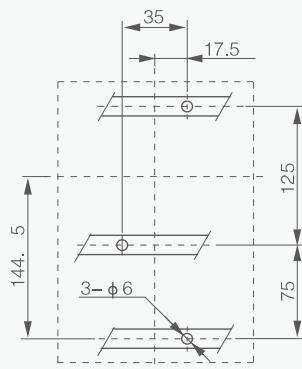


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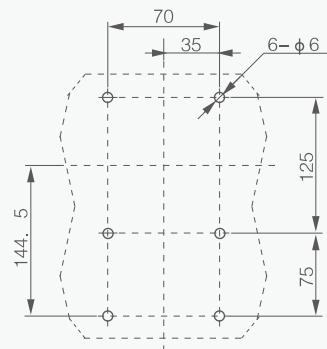
Attention1: when $I_{N} > 100A$, Fixing screw size should be M8 ; When $I_{N} \leq 100A$, fixing screw size should be M6.



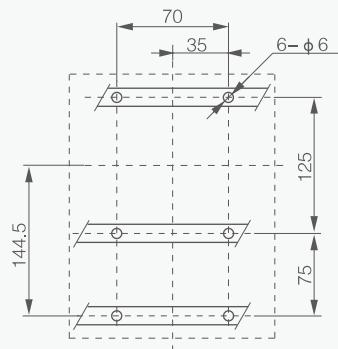
3P : Installed on the panel



3P : Installed on leading rails



4P : Installed on the panel

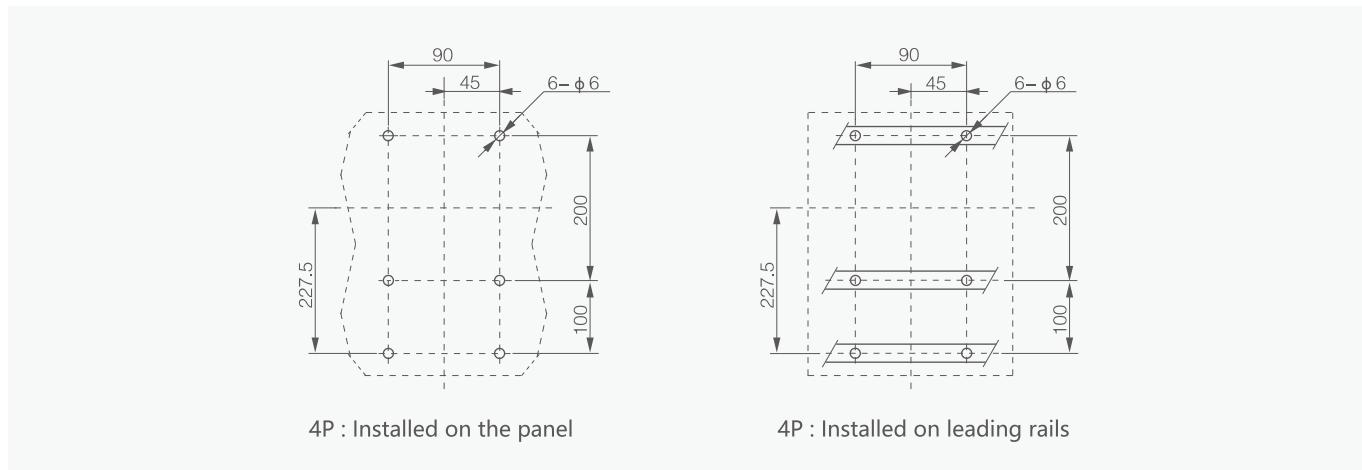
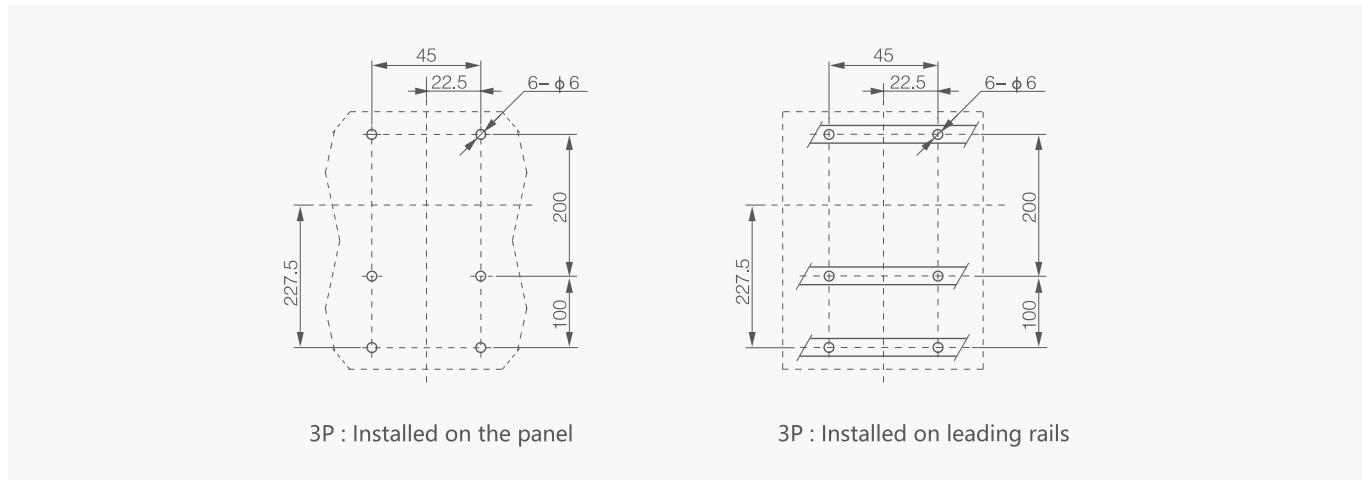
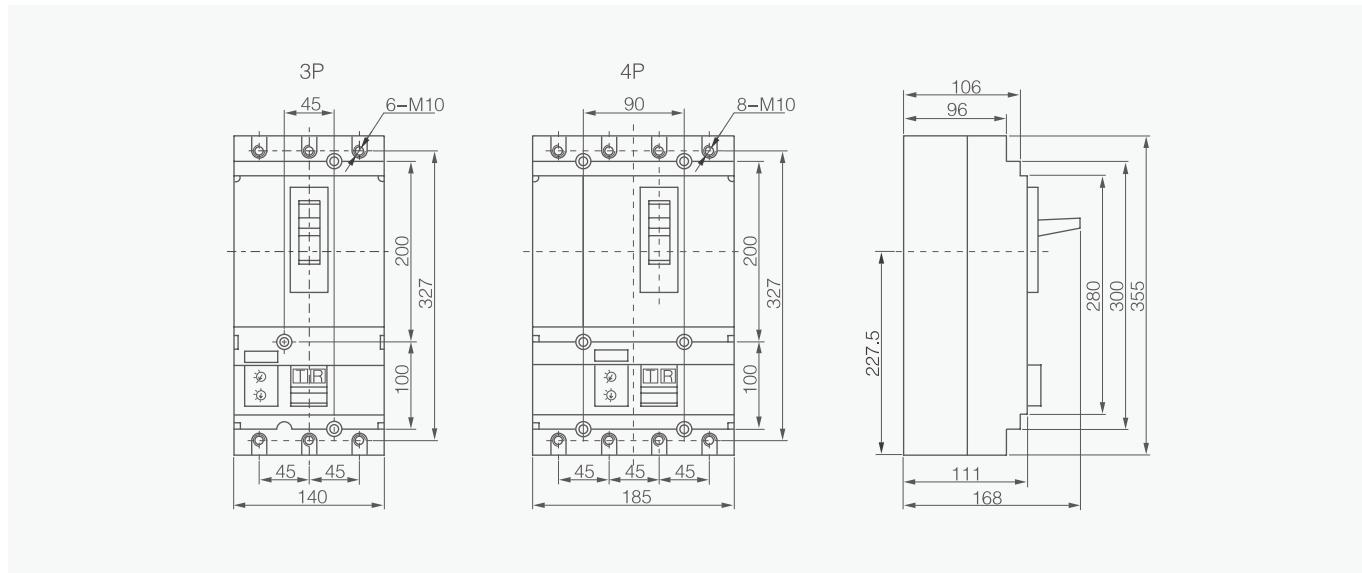


4P : Installed on leading rails

Distribution Apparatus

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YCM3-400、630 (with residual current module) Overall and mounting dimensions(mm)



Distribution Apparatus

YCM3 Series MCCB

LE Residual current Action Protection device module (Leakage protection module)

Provides leakage protection for all three-pole or four-pole YCM3-100 to 630 circuit breakers. The circuit breaker with LE residual current protection module realizes the leakage protection function under the premise of maintaining the overall characteristics of the circuit breaker, and the LE module can directly act on the stripping unit.

Remote indication:

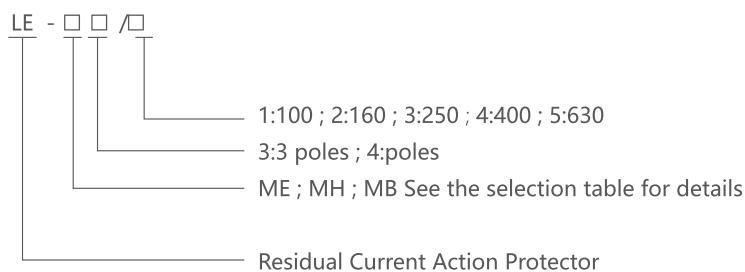
The LE module can be fitted with an auxiliary contact ,which can remotely transmit the buckle caused by leakage fault.

Power:

The LE module can be powered by the power distribution system itself, eliminating the need for any external power supply. It can continue to operate even with AC two-phase power supply.

B

Type designation



Note: LE modules can not be sold separately.

Selection of LE modules

| Model | LE-MH | LE-MB |
|--------------|--------------------|--------------------|
| Polar number | 3、4 ⁽¹⁾ | 3、4 ⁽¹⁾ |
| YCM3-100 | Yes | No |
| YCM3-160 | Yes | No |
| YCM3-250 | Yes | No |
| YCM3-400 | No | Yes |
| YCM3-630 | No | Yes |

| Protective features | | |
|---------------------------------|---|----------------------------|
| Sensitivity $\Delta n(A)$ | Adjustable 0.03-0.3-1-3-10 | Adjustable 0.03-0.3-1-3-10 |
| Whether the delay is adjustable | Adjustable | Adjustable |
| Delay settings | 0-60 ⁽²⁾ -150 ⁽²⁾ -310 ⁽²⁾ | 0-60-150-310 |
| Maximum break time(ms) | <40<140<300<800 | <40<140<300<800 |
| Rated voltage AC50V/60Hz | 200...440-440...500 | 200...440-440...500 |

If the sensitivity is set to 30mA, the stripper is instantaneous clasp.

Distribution Apparatus

YCM3 Series MCCB

Inner accessories

Accessories of YCM3 are the same.

| Model | | YCM3-100 | YCM3-160 | YCM3-250 | YCM3-630 | YCM3-1250 |
|--------------|---|----------|----------|----------|----------|-----------|
| No. of poles | | 3, 4 | 3, 4 | 3, 4 | 3, 4 | 3, 4 |
| Code | Accessory name | | | | | |
| 208, 308 | Alarm contact | | | | | |
| 210, 310 | Shunt release | | | | | |
| 220, 320 | Auxiliary switch | | | | | |
| 230, 330 | Undervoltage release | | | | | |
| 240, 340 | Shunt release, auxiliary switch | | | | | |
| 260, 360 | Two groups of auxiliary switch | | | | | |
| 270, 370 | Auxiliary switch, undervoltage release | | | | | |
| 218, 318 | Shunt release, alarm switch | | | | | |
| 228, 328 | Auxiliary switch, alarm switch | | | | | |
| 238, 338 | Undervoltage release, alarm switch | | | | | |
| 248, 348 | Shunt release, auxiliary switch, alarm switch | | | | | |
| 268, 368 | Two groups of auxiliary switch, alarm switch | | | | | |
| 278, 378 | Auxiliary switch, undervoltage release, alarm switch | | | | | |
| 280, 380 | Two groups of auxiliary switch, shunt release | | | | | |

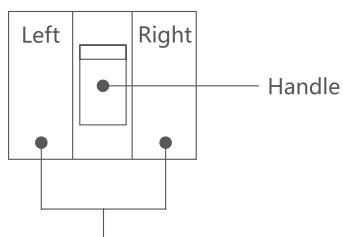
Power

● Alarm switch

○ Auxiliary switch

□ Shunt release

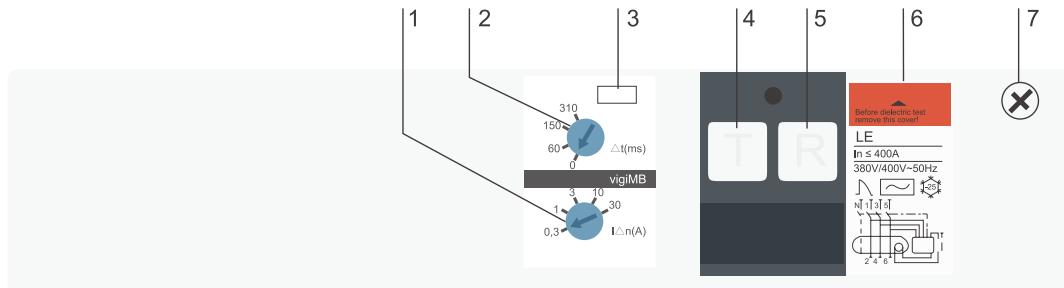
■ Undervoltage release



The blank area cannot
be equipped with accessory

Distribution Apparatus

YCM3 Series MCCB



- 1.Sensitivity setting
- 2.Delay setting(for selective leakage protection)
- 3.Calibration of the seal Sleeve
- 4.Test button-used to simulate leakage failure, to periodically check leakage protection function
- 5.Reset button(after leakage fault buckle must be reset)
- 6.Nameplate
- 7.Location of secondary contacts

Operational safety

LE Modular A user-friendly device that requires regular testing by the user
(tested every 6 months)

Accessories

The internal accessories of the circuit breaker are installed in the inner cavity of the cover plate, and the shunt release, undervoltage release, auxiliary contact and alarm contact are all made into separate modules. Therefore, the installation is simple, convenient, safe and reliable, and the user can install the corresponding position of the circuit breaker by himself. The attached picture is as follows:

| Accessory name | Rated operating voltage | Applicable shell frame |
|----------------|--|--|
| MX | AC220/230V AC380/400V DC220V DC110V | YCM3-100 YCM3-160 YCM3-250 YCM3-400 YCM3-630 |
| | AC220/230V AC380/400V DC220V DC110V | YCM3-1600 |
| MU | AC220/230V AC380/400V | YCM3-100 YCM3-160 YCM3-250 YCM3-400 YCM3-630 |
| | AC220/230V AC380/400V | YCM3-1600 |

Distribution Apparatus

YCM3 Series

| Accessory | Model | Power Supply | Control Type |
|---|-------|--|--|
|  | AX | AC220/230V AC380/400V DC220V DC110V | ON/OFF Control |
| Auxiliar | | | |
|  | AL | AC220/230V AC380/400V DC220V DC110V | ON/OFF Control |
| ON/OFF Control | | | |
|  | LE | 0.03,0.3,1,3,10. YCM3-100 YCM3-160 YCM3-250 YCM3-250 YCM3-400 YCM3-630 | YCM3-100 YCM3-160 YCM3-250 YCM3-250 YCM3-400 YCM3-630 |
| Relay Control | | | |
|  | P | AC220/230V AC380/400V DC220V DC110V | YCM3-100 YCM3-160 YCM3-250 |
| Motor Operator | | | |
|  | P | AC220/230V AC380/400V DC220V DC110V | YCM3-400 YCM3-630 |
| Motor Operator | | | |

| Accessory | Model |
|---|---|
|  A black rectangular switch assembly with a red pushbutton on the left side. | YCM3-100 YCM3-160 YCM3-250 YCM3-400 YCM3-630 |
|  A black rectangular switch assembly with a black pushbutton on the left side. | YCM3-100 YCM3-160 YCM3-250 YCM3-400 YCM3-630 YCM3-1600 |

Distribution Apparatus

YCM3 Series MCCB

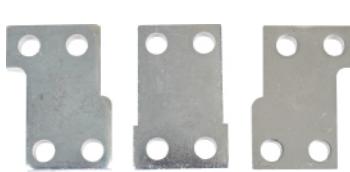
Circuit breaker accessories



1.YCM3-100、160、200
Outer connecting plate



2.YCM3-400、630
Outer connecting plate



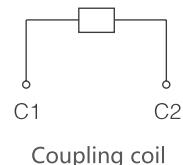
3.YCM3-1600
Outer connecting plate

B

Note: Thermomagnetic and electronic dimensions, mounting dimensions and accessories are identical.

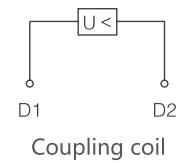
Shunt release

For remote control of the circuit breaker opening, the shunt release can reliably open the circuit breaker between 70% and 110% US. The shunt release should be prohibited from being energized for a long time($\leq 5s$).



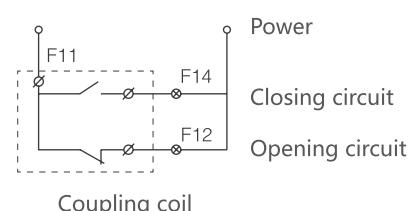
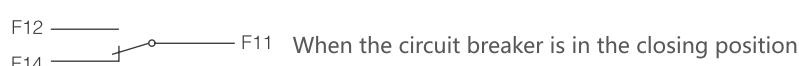
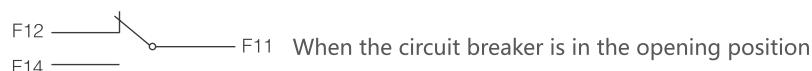
Undervoltage release

When the control voltage drops to 35% to 70%, the undervoltage release should trip and the circuit breaker should be reliably disconnected. When the control voltage is greater than or equal to 85%, the circuit breaker should be reliably closed. When the control voltage is less than 35%, it should be able to prevent the circuit breaker from closing.



Auxiliary contact

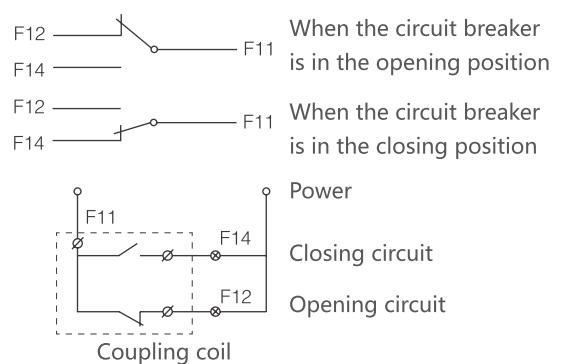
Function: Indicates the opening and closing state of the circuit breaker.



Alarm contact

Function: Indicates the possible cause of tripping of the circuit breaker
a: overload ; b: short circuit ; c: ground fault ; d: undervoltage trip operation ;
e: free trip.

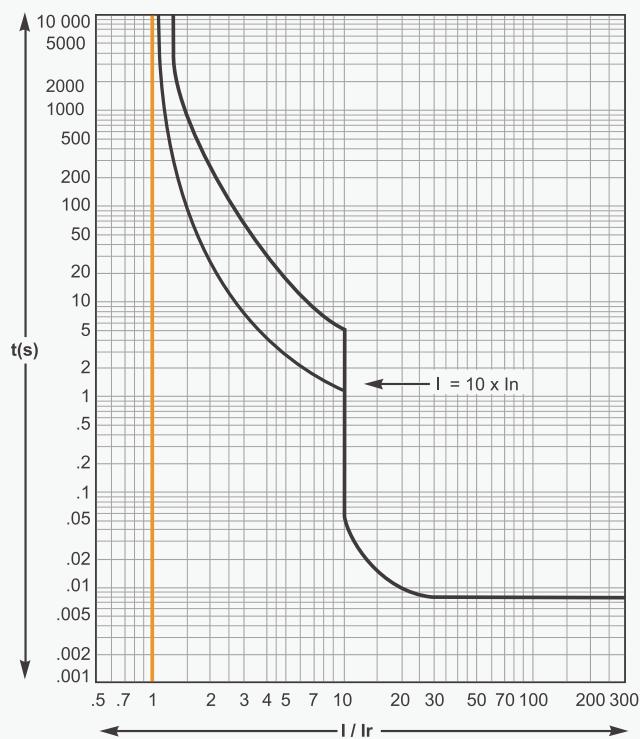
When the circuit breaker is normally closed or opened, the alarm contact does not move, and only after the trip or fault trip occurs, The position of the contact changes, that is, the normally open becomes normally closed, and the normally closed becomes normally open. When the circuit breaker is buckled again, the alarm contact returns to its original position.



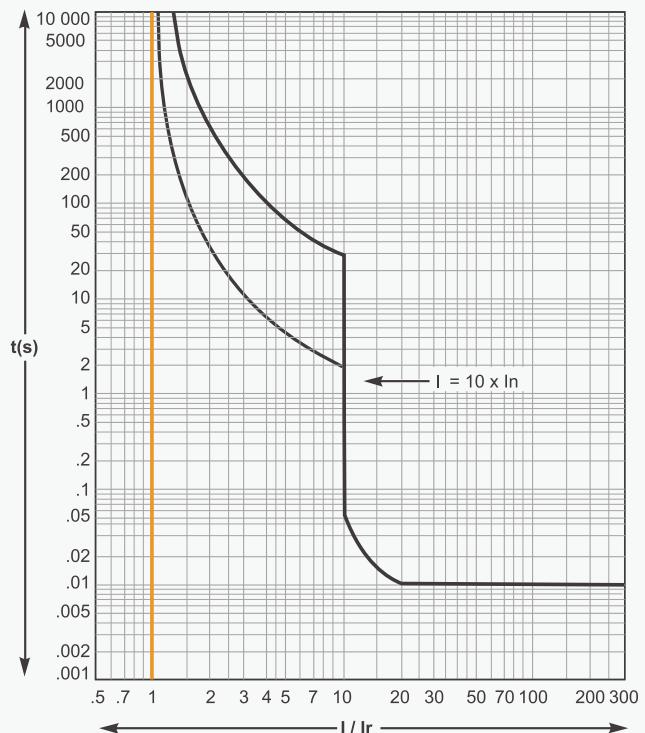
Distribution Apparatus

YCM3 Series MCCB

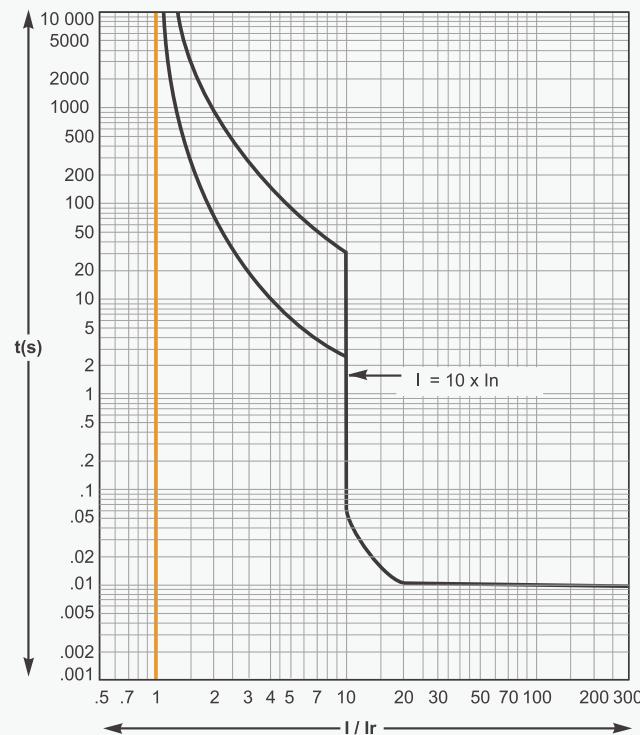
TM12.5A-50A



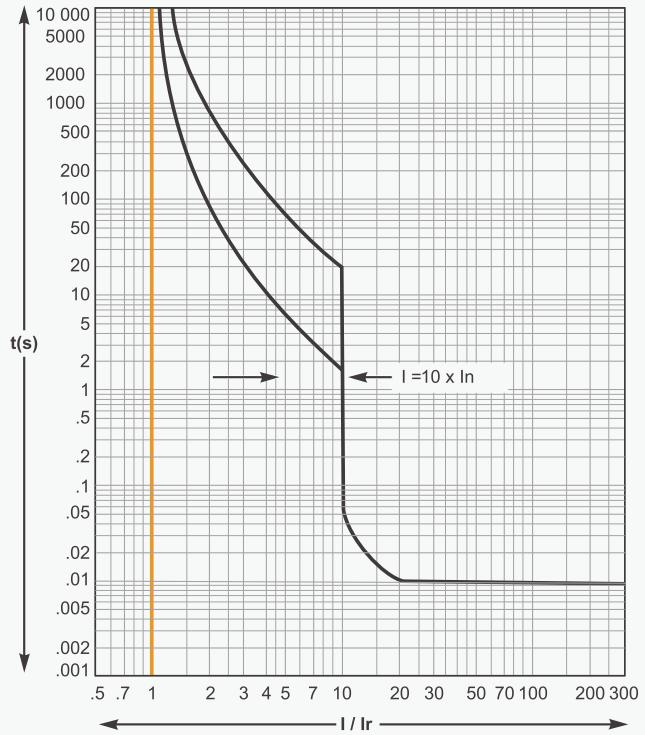
TM63A-100A



TM125A-250A



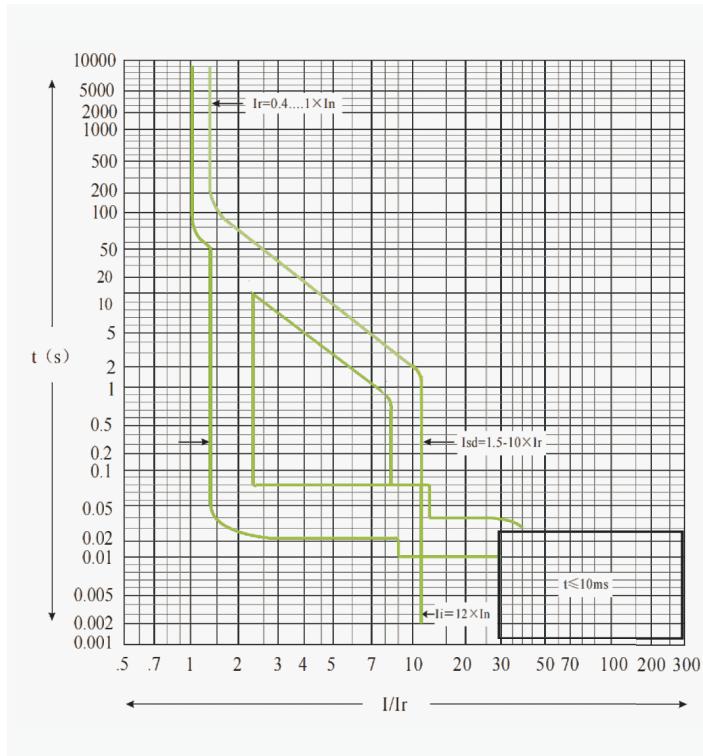
TM315A-600A



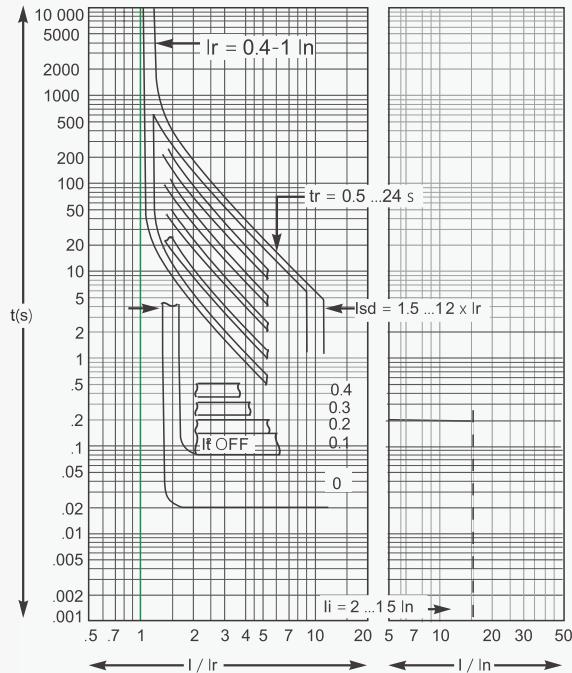
Distribution Apparatus

YCM3 Series MCCB

YCM3E electronic (2.0)100-630A



Micrologic 5.0 Tripping curve In100 - 630 A



B

Micrologic 6.0 tripping curve In100-630 A

(Earth fault protection)

