



# MOLDED CASE CIRCUIT BREAKER

AceReare

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ARM5

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# Company Profile

Company Profile of Ruirui Electric

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7,000+

Covering an area of more than 7000m<sup>2</sup>

12,000

The standardized workshop covers an area of 12000m<sup>2</sup>

300+

With more than 300 employees

HIGH QUALITY MCCB MANUFACTURER



Ruirui Electric (Zhejiang) Co., Ltd  
HIGH QUALITY MCCB MANUFACTURER

# Company Profile

## Company Profile of Ruirui Electric

### 1. Group Profile

Founded in 2015, Ruirui Electric, headquartered in Yueqing City of Wenzhou, the city of China's electrical appliances, is a modern national high-tech enterprise with R&D as the core and intelligent production as the guide. The company integrates R&D, manufacturing and sales, and has the process production capacity and quality control capacity of the whole process chain of low-voltage circuit breakers. It has become a well-known enterprise brand in the low-voltage circuit breaker manufacturing industry.

The company has two wholly-owned subsidiaries, "Ruirui Electric" and "Kerui Electric". It has established strategic cooperation relationships with nearly 100 high-end customers at home and abroad. Its marketing network covers more than 30 provinces and cities in China mainland, Hong Kong, Macao and Taiwan. Its products are exported to more than 20 countries and regions around the world.

### 2. Introduction to main products

The company's products cover: frame type circuit breakers, thermomagnetic molded case circuit breakers, electronic molded case circuit breakers, leakage molded case circuit breakers, photovoltaic high-voltage molded case circuit breakers, photovoltaic DC molded case circuit breakers, intelligent measurement molded case circuit breakers, double-break molded case circuit breakers and various parts and components.

### 3. Enterprise honor

The company has laboratories with sound testing methods, and is also the drafting unit of national standards and industrial standards. Scientific research cooperation was carried out with Shanghai Jiaotong University, Xi'an University of Architecture and Technology, South China University of Technology and other institutions of higher learning to promote the research and development of building hardware accessories, smart home and other products. It has successively won the honorary titles of National High-tech Enterprise, National Intellectual Property Advantage Enterprise, Wenzhou Enterprise Technology Research and Development Center, Yueqing Enterprise Technology Center, Wenzhou Demonstration Enterprise for Integration of Industrialization and informatization; it has won more than ten invention patents, high-tech products in Zhejiang Province and many other awards.





## Cultural Concept



### Mission

Provide safe and reliable electrical switches and parts for users all over the world



### Core Values

Customer satisfaction, good quality, integrity and law-abiding, sustainable operation



### Vision

Become a domestic first-class and world famous electricproducts manufacturer



### Management Idea

Put customer needs first

# Company Profile

## Development history

### 2015

- Company founded
- Established an independent R&D team
- Obtained various certificates of products

### 2016-2018

- Industrialization of mold design and processing
- Set up a comprehensive product laboratory
- Put into automatic production line

### 2019-2022..

- Built an information data center
- Focusing on informatization, promoting automation process
- Focusing on informatization, promoting management process



LET'S GET STARTED.

# ARM5

## Series Molded Case Circuit Breaker



### Scope of application

ARM5 series molded case circuit breakers (hereinafter referred to as the circuit breaker) are the latest products developed by our company. Their design reflects the latest current limiting principle and manufacturing technology. It is compact, modular, green and environmental with high breaking and zero arcing features. The circuit breaker is suitable for making, breaking and carrying the rated current in the AC 50Hz/60Hz circuit with rated insulation voltage of 1000V, maximum rated working voltage of 690V and rated current of 32A-630A, and can reliably protect the line and electrical equipment in case of overload, short circuit and undervoltage of the line and electrical equipment. It can also be used for infrequent starting and overload, short circuit and undervoltage protection of motor. The circuit breaker can be installed vertically (upright), horizontally (transversely), or from lower incoming line. The circuit breaker has the isolation function, and its corresponding symbols are: "——/⊗".

Executive standard:

The circuit breaker shall comply with IEC60947-1 (General rules) and GB140481; IEC60947-2 (circuit breakers), GB14048.2

IEC60947-4-1 (motor starters), GB14048.4.

The environmental test shall conform to IEC60068-2-1 (low temperature) and GB/T2423.1; IEC60068-2-2 (dry heat), GB/T2423.2

IEC60068-2-11 (salt spray test), GB/T2423.17; IEC60068-2-30 (damp heat), GB/T2423.4

### Model and its meaning

AR	M	5	—	□	□	□	/	□	□	□	□
①	②	③		④	⑤	⑥		⑦	⑧	⑨	⑩

- |   |                                   |
|---|-----------------------------------|
| ① Ruirui Electric (Zhejiang) Co., Ltd                           | ⑥ Operation mode (Note 2)         |
| ② Molded case circuit breaker                                   | ⑦ Number of poles                 |
| ③ Design code   | ⑧ Release mode and accessory code |
| ④ Rated current of frame size                                   | ⑨ Usage code (Note 3)             |
| ⑤ Rated ultimate short-circuit breaking capacity level (Note 1) | ⑩ N-pole type A, B, C, D (Note 4) |

Note:

- It is classified into S type (basic type), L type (standard type), M type (medium breaking type) and H type (high breaking type) according to the rated ultimate short-circuit breaking capacity. (Please specify on the special order contract)
- No code for direct operation of handle; Electric operation is represented by P; The rotation handle is represented by Z.
- No code for power distribution protection, and motor protection is represented by 2.
- It is classified into three poles and four poles according to the number of poles. There are four types of neutral pole (N-pole) in the four pole products:

Type A: The N-pole is not equipped with an over-current release, and the N-pole is always connected, not closed or opened with other three poles.

Type B: N-pole is not equipped with over-current release, and N-pole is closed and opened together with other three poles (N-pole is closed first and then opened).

Type C: N-pole is equipped with over-current release, and N-pole is closed and opened together with other three poles (N-pole is closed first and then opened).

Type D: N-pole is equipped with over-current release, and the N-pole is always connected, not closed and opened with other three poles.

## Normal working environment

- Altitude: ≤2000M
- Ambient temperature: - 5°C~+40°C
- Be able to withstand the influence of moisture
- Can withstand the influence of salt mist and oil mist
- In the place where there is no explosive medium, and the medium is free of gas and conductive dust that can corrode metal and damage insulation
- The maximum inclination is 22.5°
- Installation category III
- The pollution level is 3
- In a place free from rain and snow

## Technical data of circuit breaker

### Derating factor of ambient temperature change

1. Tripping characteristics change due to ambient air temperature change, see Table 1 for correction

Table 1

Ambient air	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
Temperature correction	1.225	1.2	1.175	1.15	1.125	1.1	1.075	1.05	1.25	1.0	0.975	0.95	0.925	0.9	0.875	0.85

Note: when the temperature is lower than 50°C, derating is not considered.

### Derating factor of circuit breaker altitude

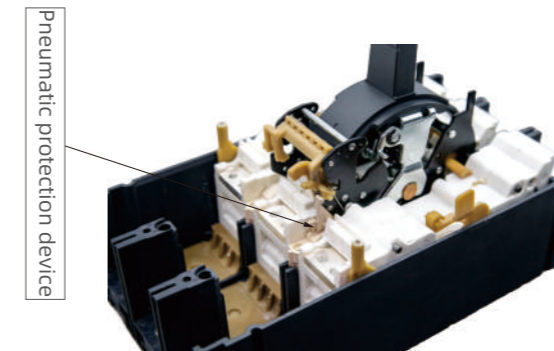
2. When the ambient temperature is 40°C and the altitude is greater than 2000 meters, the tripping characteristics will change in consideration of the insulation characteristics and cooling capacity of the air, which should be corrected, as shown in Table 2.

Table 2

Altitude (m)	2000	3000	4000	5000
Working withstand voltage (V)	2000	1800	1600	1400
Average insulation level (V)	1Ui	0.9Ui	0.8Ui	0.7Ui
Maximum working voltage (V)	1Ue	0.9Ue	0.8Ue	0.7Ue
Average working current (+40°C)	1In	0.96In	0.93In	0.9In

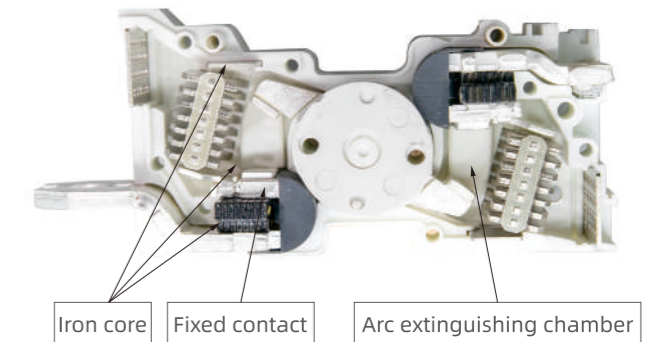
## Main functions and features

### Pneumatic protection device

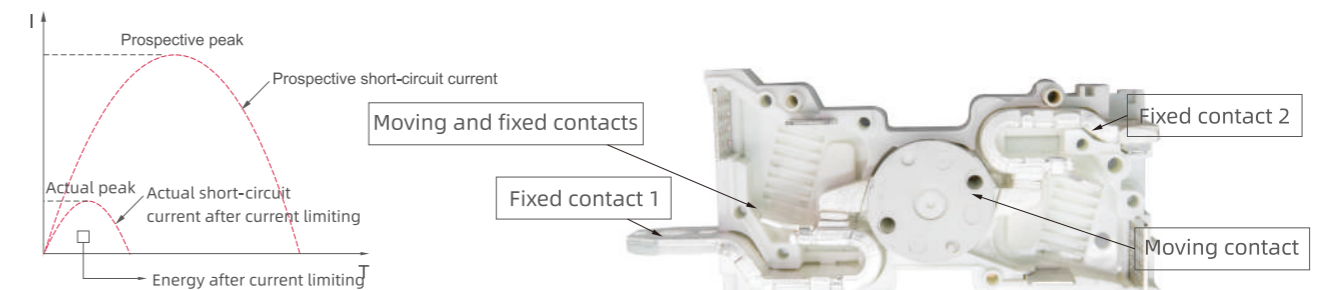


When the circuit breaks with large current, the gas in the contact unit box is rapidly pressurized, and the pneumatic protection device rapidly fluctuates the operating mechanism latch under strong air pressure, greatly reducing the damage of the breaking current to other electrical components and buses.

Magnetic blow design: the current flows through the fixed contact to generate an electromagnetic source, which forms an annular magnetic field arc with the iron core and quickly enters the arc extinguishing chamber under the action of the magnetic field, which is conducive to quickly break the current.

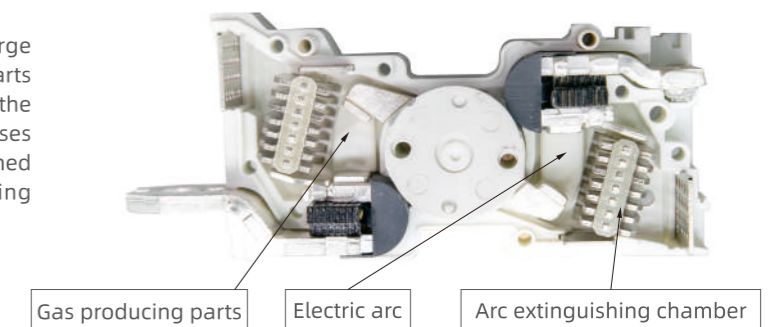


The reasonable structure design of moving and fixed contacts makes the short circuit peak value and energy of this series of products I<sup>2</sup>t much smaller than expected.




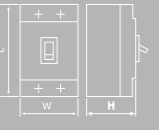
Working principle: the current flows in from the fixed contact 1, flows out from the fixed contact 2 through the moving, fixed silver contact and the moving contact. The moving contact quickly disconnects under the action of strong electric repulsion force (Holm force and Lorentz force) to improve the breaking speed.

Air blowing design: when the short circuit large current occur in the circuit, the gas producing parts will generate gas under the high temperature of the arc, the air pressure in the contact unit box increases rapidly, and a high-speed air flow can be formed through the air outlet of the arc extinguishing chamber, which can effectively extinguish the arc.





### Main performance indexes of circuit breaker

Appearance													
Model	ARM5-160						ARM5-250						
Rated current In (A)40°C	32A、40A、50A、63A、80A、100A、125A、160A						180A、200A、225A、250A						
Rated current of frame size Inm (A)	160A						250A						
Usage category	Category A						Category A						
Rated ultimate short-circuit breaking capacity level	L		M		H		L		M		H		
Number of poles (P)	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	
Rated working voltage Ue (V)	400V/415V						400V/415V						
Rated ultimate short-circuit breaking capacity Icu (kA)	85KA		150KA		200KA		85KA		150KA		200KA		
Rated service short-circuit breaking capacity Ics (kA)	85KA		150KA		200KA		85KA		150KA		200KA		
Rated working voltage Ue (V)	550V/690V						550V/690V						
Rated ultimate short-circuit breaking capacity Icu (kA)	15KA		25KA		35KA		15KA		25KA		35KA		
Rated service short-circuit breaking capacity Ics (kA)	15KA		25KA		35KA		15KA		25KA		35KA		
Rated insulation voltage Ui (V)	1000V						1000V						
Rated impulse withstand current Uinmp (V)	8KV						8KV						
Mechanical life (time)	7000						7000						
Electrical life (time) 400In	1000						1000						
Arcing distance (mm)	0						0						
Release type	Thermomagnetic						Thermomagnetic						
Overall dimension (mm) 	W	105.5	141	105.5	141	105.5	141	105.5	141	105.5	141	105.5	141
	L	162.5						162.5					
	H	97.5						97.5					

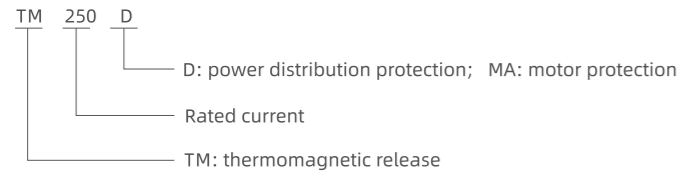
### Main performance indexes of circuit breaker

Appearance													
Model	ARM5-400						ARM5-630						
Rated current In (A)40°C	250A、315A、350A、400A						500A、630A						
Rated current of frame size Inm (A)	400A						630A						
Usage category	Category A						Category A						
Rated ultimate short-circuit breaking capacity level	L		M		H		L		M		H		
Number of poles (P)	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	
Rated working voltage Ue (V)	400V/415V						400V/415V						
Rated ultimate short-circuit breaking capacity Icu (kA)	85KA		150KA		200KA		85KA		150KA		200KA		
Rated service short-circuit breaking capacity Ics (kA)	85KA		150KA		200KA		85KA		150KA		200KA		
Rated working voltage Ue (V)	550V/690V						550V/690V						
Rated ultimate short-circuit breaking capacity Icu (kA)	35KA		50KA		65KA		35KA		50KA		65KA		
Rated service short-circuit breaking capacity Ics (kA)	35KA		50KA		65KA		35KA		50KA		65KA		
Rated insulation voltage Ui (V)	1000V						1000V						
Rated impulse withstand current Uinmp (V)	12KV						8KV						
Mechanical life (time)	7000						7000						
Electrical life (time) 400In	1000						1000						
Arcing distance (mm)	0						0						
Release type	Thermomagnetic						Thermomagnetic						
Overall dimension (mm) 	W	141	185	140	185	140	185	140	185	140	185	140	185
	L	256.5						125.5					
	H	123.5						123.5					

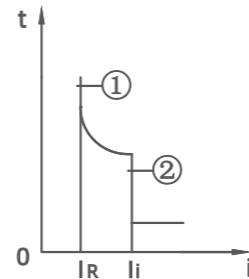
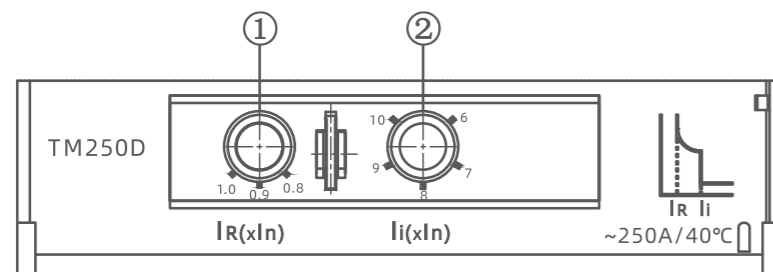
## Circuit breaker purpose type (1): power distribution type

The thermomagnetic release of ARM5-160, 250, 400 and 630 circuit breakers can be adjusted to meet the protection requirements.

Release model explanation



The setting of overload protection is adjustable 1, and the setting value of short-circuit protection is adjustable or fixed 2



Release type: thermal release+magnetic release; Overload+short-circuit protection

Protection function	Frame size	Rated current In (A)	Setting value of overload protection current Ir1 (A)	Action characteristics
Overload protection	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	(0.8-0.9-1.0)In, 32-63A unavailable	1.05 In(cold state)≥2h(In > 63A), ≥1h(In ≤ 63A)
	250	180A,200A,225A,250A	(0.8-0.9-1.0)In	1.3In(hot state)2h(In > 63A), <1h(In ≤ 63A)

Protection function	Frame size	Rated current In (A)	Setting value of overload protection current Ir1 (A)	Action characteristics
Short circuit protection	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	(6-7-8-9-10)In,32-63Aunavailable	Instantaneous action
	250	180A,200A,225A,250A	(6-7-8-9-10)In	
Action tolerance		±10%		

Protection function	Frame size	Rated current In(A)	Setting value of neutral pole overload protection current Ir1N(A)	Setting value of short-circuit protection current of neutral pole Ir3N(A)
Neutral pole protection, type C/D (4P circuit breaker)	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	Ir1,Ir3	The neutral pole overload protection current setting value Ir1N (A) and neutral pole short-circuit protection current setting value Ir3N (A) can be provided, which shall be noted when ordering.
	250	180A,200A,225A,250A	Ir1/InX125,Ir3/InX125	
	400	250A,315A,350A,400A	Ir1/InX400,Ir3/InX400	
	630	500A,630A		
Type A/B	Full range	32~630	Unprotected	

## Circuit breaker purpose type (2): motor protection type

Release type: thermal release+magnetic release; Overload+short-circuit protection

Protection function	Frame size	Rated current In (A)	Overload protection current setting value Ir1 (A)	Action characteristics
Overload protection	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	(0.8-0.9-1.0)In, 32-63AUnavailable	Press I <sup>2</sup> t to act When In≤63A, no action within 1h 1.0In (cold state), no action within 2h 1.2In (hot state), action within 2h
	250	180A,200A,225A,250A	(0.8-0.9-1.0)In	When 16A≤In≤250A 1.5In (hot state) ≤4min action(ARM5-160, 250) ≤8min action (ARM5-400,630)
	400	250A,315A,350A,400A		
	630	500A, 630A		
				7.2In (cold state) 4s < Tps10 action(ARM5-160, 250) 6s < Tps20s action (ARM5-400,630)

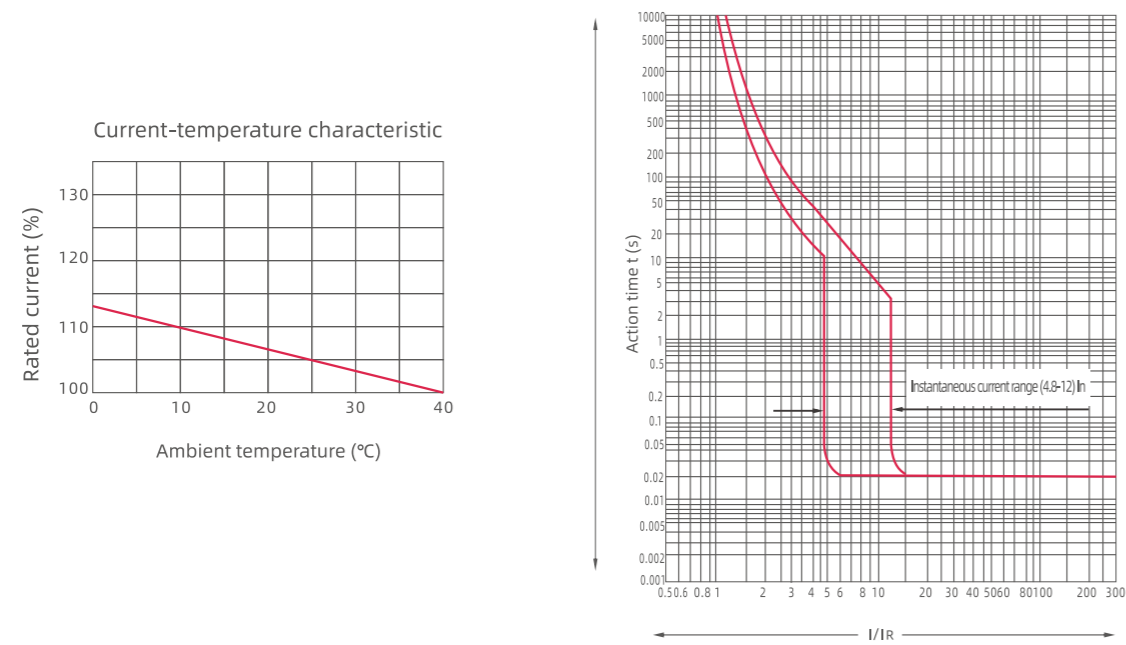
Protection function	Frame size	Rated current In(A)	Setting value of short-circuit protection current Ir1(A)	Action characteristics
Short circuit protection	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	(9-10-11-12-13-14)In, 32-63AUnavailable	Instantaneous action
	250	180A,200A,225A,250A	(9-10-11-12-13-14)In	
	400	250A,315A,350A,400A		
	630	500A,630A		
Action tolerance			±20%	

Protection function	Frame size	Rated current In(A)	Neutral pole overload protection current setting value Ir1N(A)	Setting value of short-circuit protection current of neutral pole Ir3N (A)
Neutral pole protection, type C/D (4P circuit breaker)	160	32A,40A,50A,63A,80A,100A,125A,140A,160A	Ir1,Ir3,32-63AAUnavailable	The neutral pole overload protection current setting value Ir1N (A) and the neutral pole short-circuit protection current setting value Ir3N(A) can be provided, which shall be noted when ordering.
	250	180A,200A,225A,250A	Ir1/InX125,Ir3/InX125	
	400	250A,315A,350A,400A	Ir1/InX400,Ir3/InX400	
	630	500A,630A		
Type A/B	Full range	32~630	Unprotected	

## Characteristic curve of circuit breaker

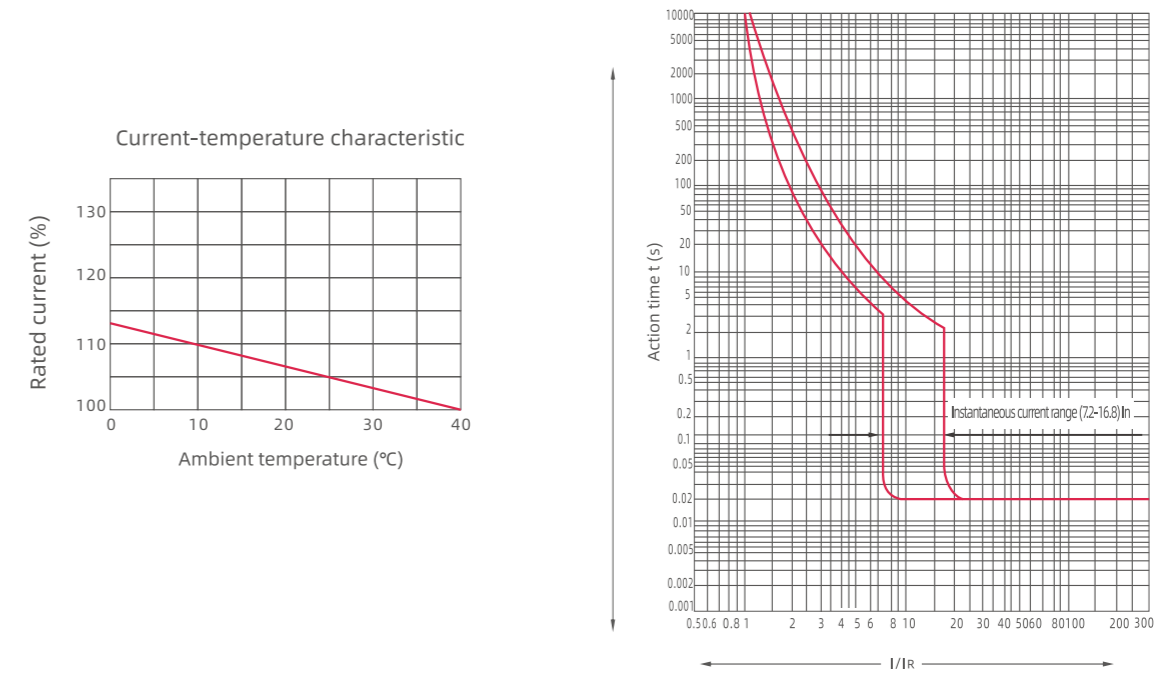
Tripping characteristic curve of circuit breaker distribution protection

ARM5-160/250L, M, H time/current characteristic curve

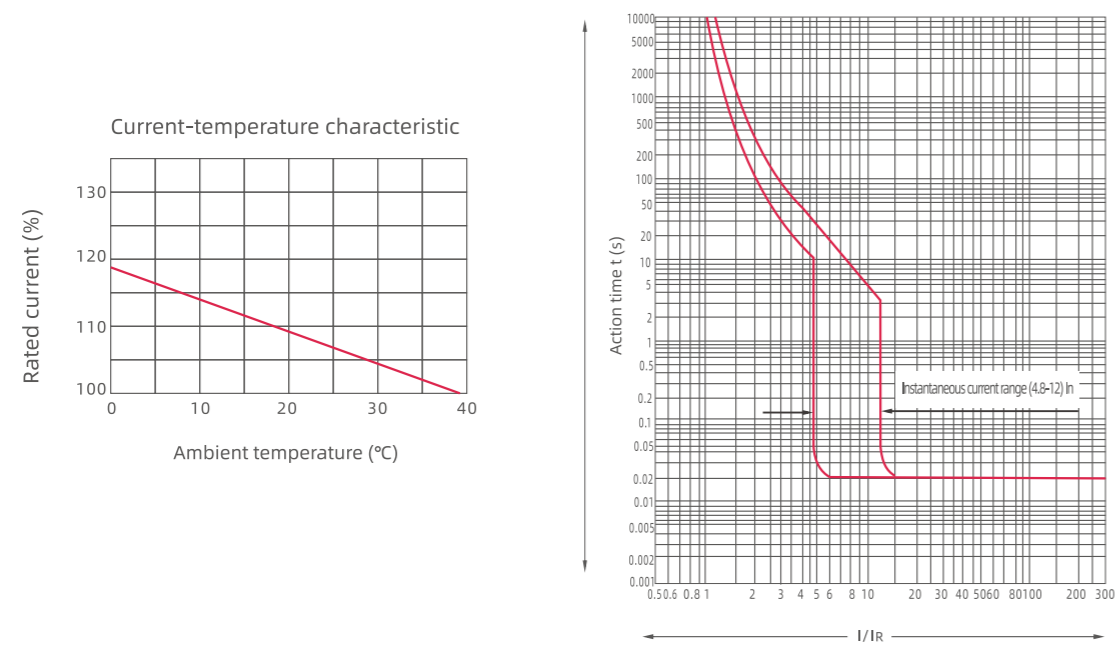


Tripping characteristic curve of circuit breaker motor protection

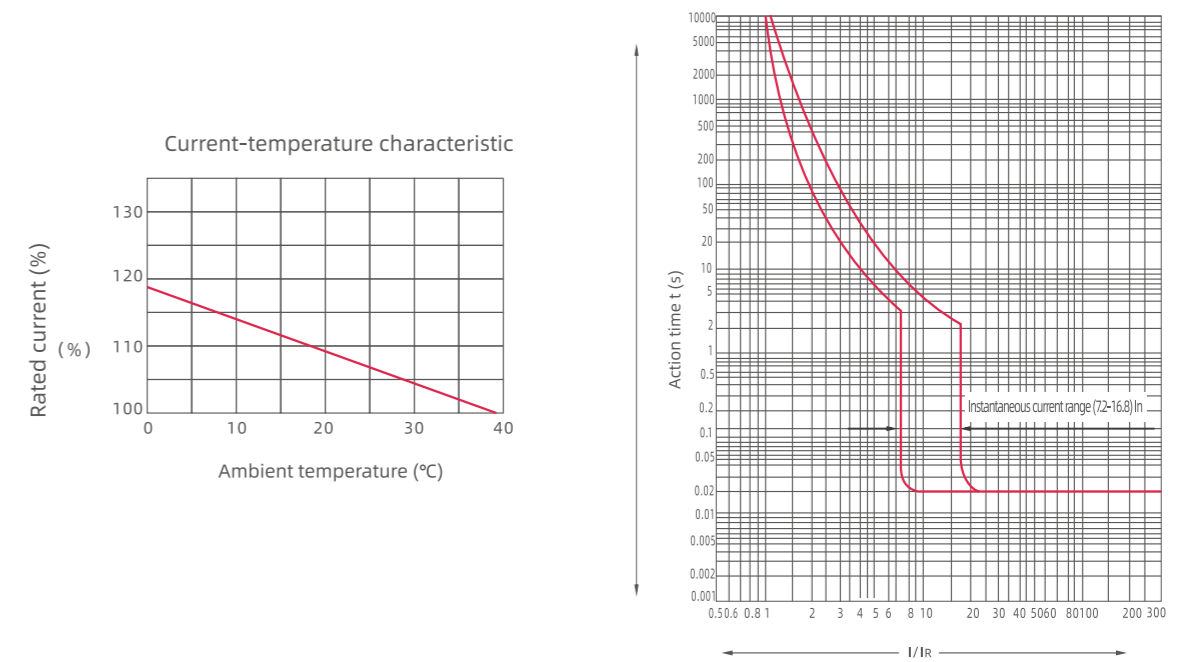
ARM5-160/250L, M, H time/current characteristic curve



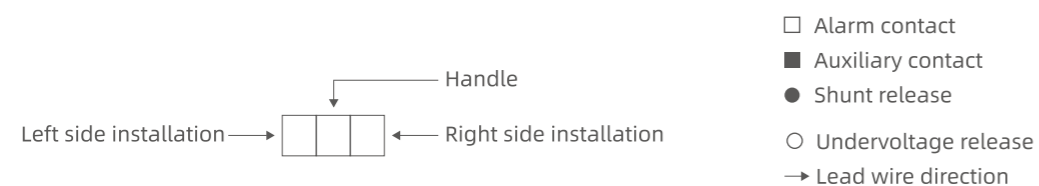
ARM5-400/630L, M, H time/current characteristic curve



ARM5-400/630L, M, H time/current characteristic curve



## Circuit breaker internal accessory code



Release mode and internal accessory code	Accessory name	Model	ARM5 series
300	No accessory code		
308	Alarm contact		
310	Shunt release		
320	Auxiliary contact		
330	Undervoltage release		
340	Shunt release, auxiliary contact		
360	Two sets of auxiliary contacts		
370	Undervoltage release, auxiliary contact		
318	Shunt release, alarm contact		
328	Auxiliary contact, alarm contact		
338	Alarm contact, undervoltage release		
348	Shunt release, alarm contact, auxiliary contact		
368	Two sets of auxiliary contact, alarm contact		
378	Alarm contact, undervoltage release, auxiliary contact		

Note: shunt release and undervoltage release cannot be installed at the same circuit breaker

## Circuit breaker external accessories

Technical parameters of shunt release, undervoltage release, auxiliary contact and alarm contact:

Shunt release, undervoltage release, auxiliary contact and alarm contact are all made into separate modules. Accessories can be easily installed in corresponding positions of the circuit breaker and have reliable working performance.

Shunt release	Working voltage	Energy consumption	
	220A/230A	10KV	ARM5-160 ARM5-250
	380A/400A	10KV	ARM5-400 ARM5-630

Undervoltage release	Working voltage	Energy consumption	
	220A/230A	5KV	ARM5-160 ARM5-250
	380A/400A	5KV	ARM5-400 ARM5-630

Auxiliary contact	Rated working voltage	Rated working current				
	110A	6V	5V	0.6V	0.05V	ARM5-160 ARM5-250
	220A/240A	6V	4V	-	-	ARM5-400 ARM5-630

Alarm contact	Working voltage	Energy consumption		
	380A/400A/440A	6V	15V	ARM5-160
				ARM5-250
				ARM5-400
				ARM5-630

## Accessories

### Introduction to the use of shunt release, undervoltage release, auxiliary contact and alarm contact

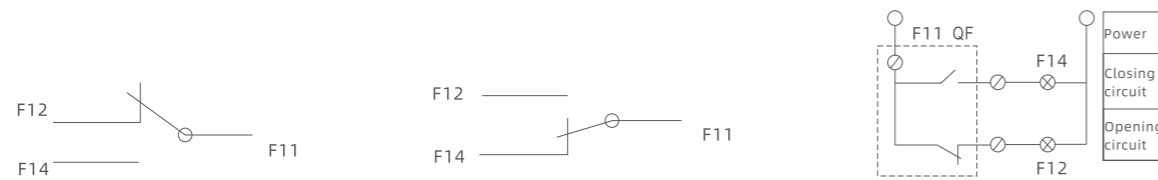
#### Shunt release

When the control supply voltage reaches 70%~110%Us, the circuit breaker shall be reliably disconnected.  
It is prohibited to power on the shunt release for a long time, and the power-on time is less than 5s.

#### Undervoltage release

When the control supply voltage reaches 35%~70%Us, the circuit breaker shall be reliably disconnected.  
When the control supply voltage is greater than or equal to 85%Us, the circuit breaker shall be reliably closed.  
When the control supply voltage is less than 35%Us, the circuit breaker shall be prevented from closing.  
The circuit breaker with undervoltage release can be normally opened and closed only when the control supply voltage is greater than or equal to 85% Us.

#### Auxiliary contact



Circuit breaker in "OFF" position

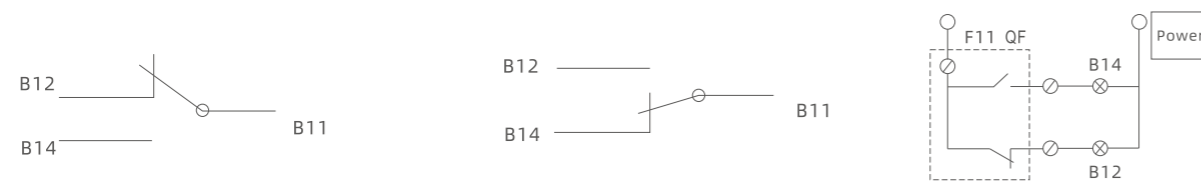
The circuit breaker in "ON" position

Wiring diagram

#### Alarm contact

The function of alarm contact is to indicate the operation or free tripping of overload, short circuit, ground fault or undervoltage tripping.

When the circuit breaker is normally closed and opened, the alarm contact does not act. Only when the circuit breaker is in free trip (or fault) condition, the alarm will be given, and the contact position will change, that is, normally open to normally closed, and normally closed to normally open. When the circuit breaker is reset, the alarm contact will return to its original position.



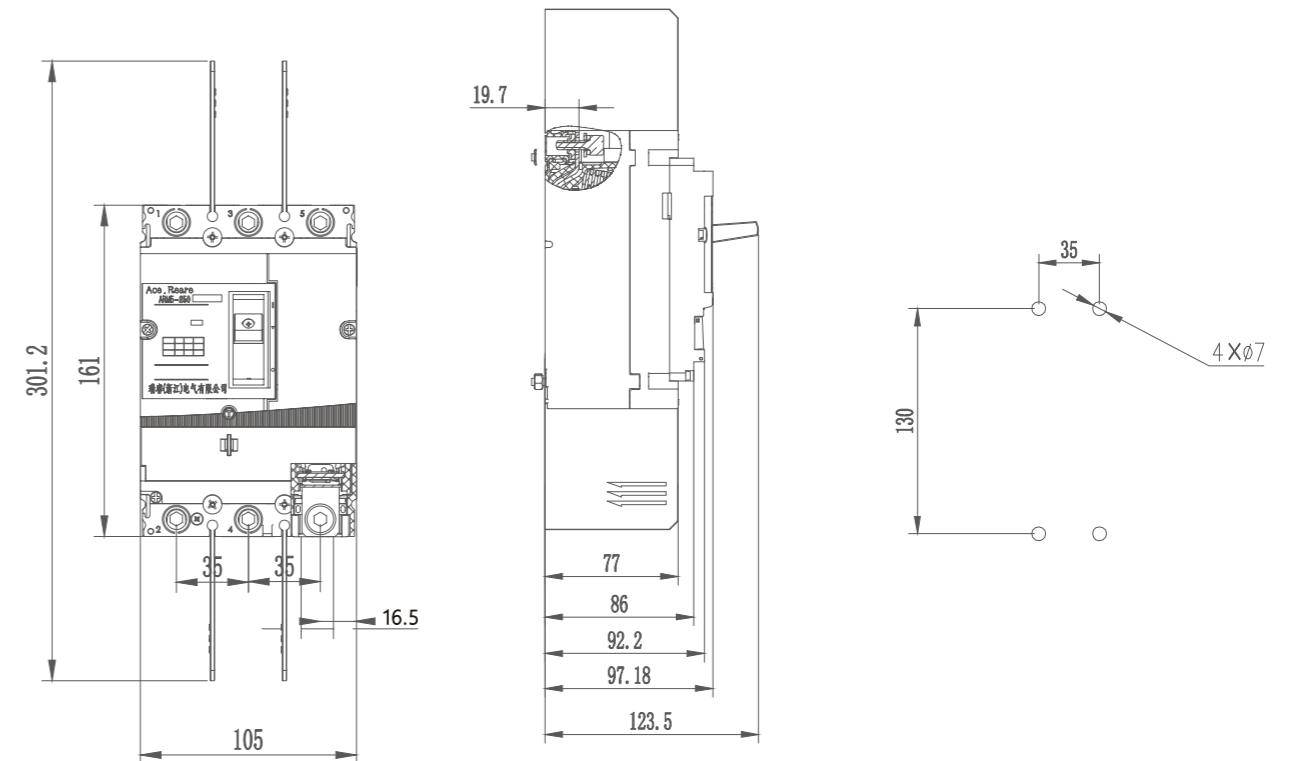
Circuit breaker in "OFF" and "ON" positions

Circuit breaker in free tripping (alarm) position

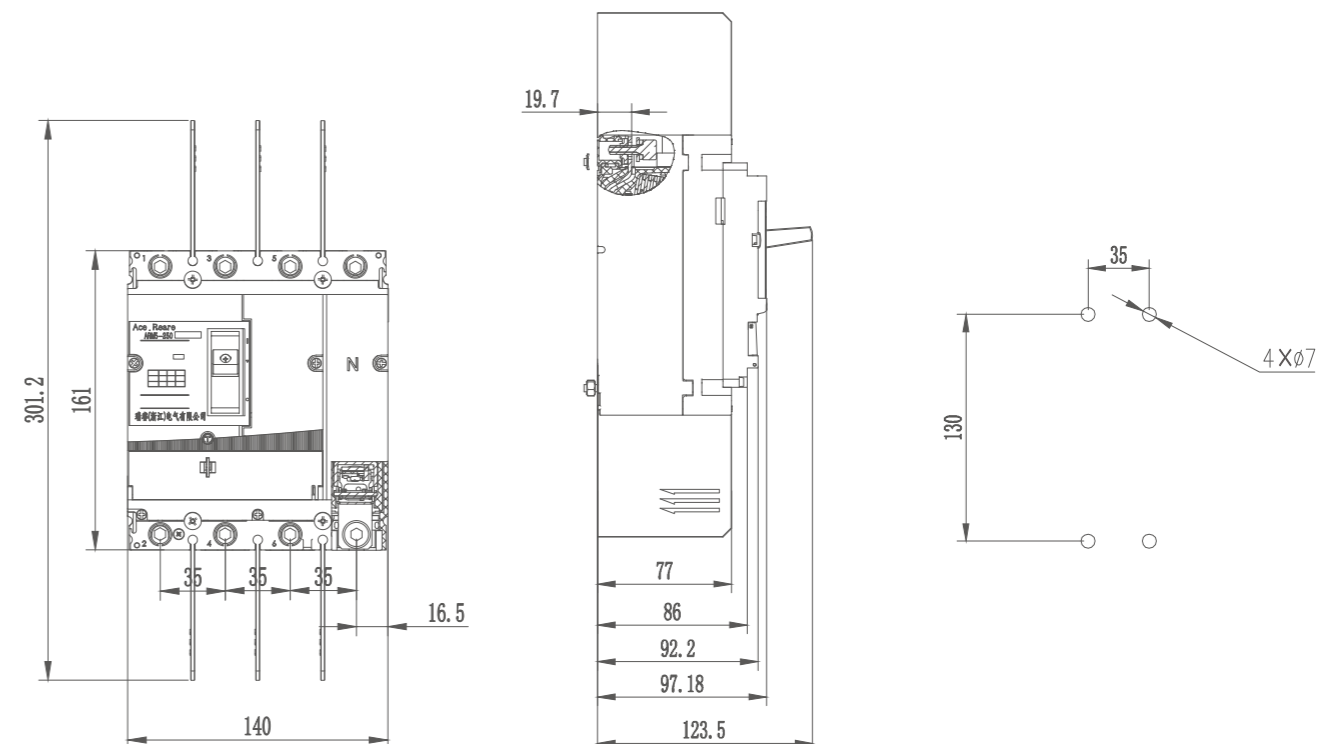
Wiring diagram

## Overall and installation dimensions of circuit breaker

### ARM5-160-3300 overall and installation dimensions

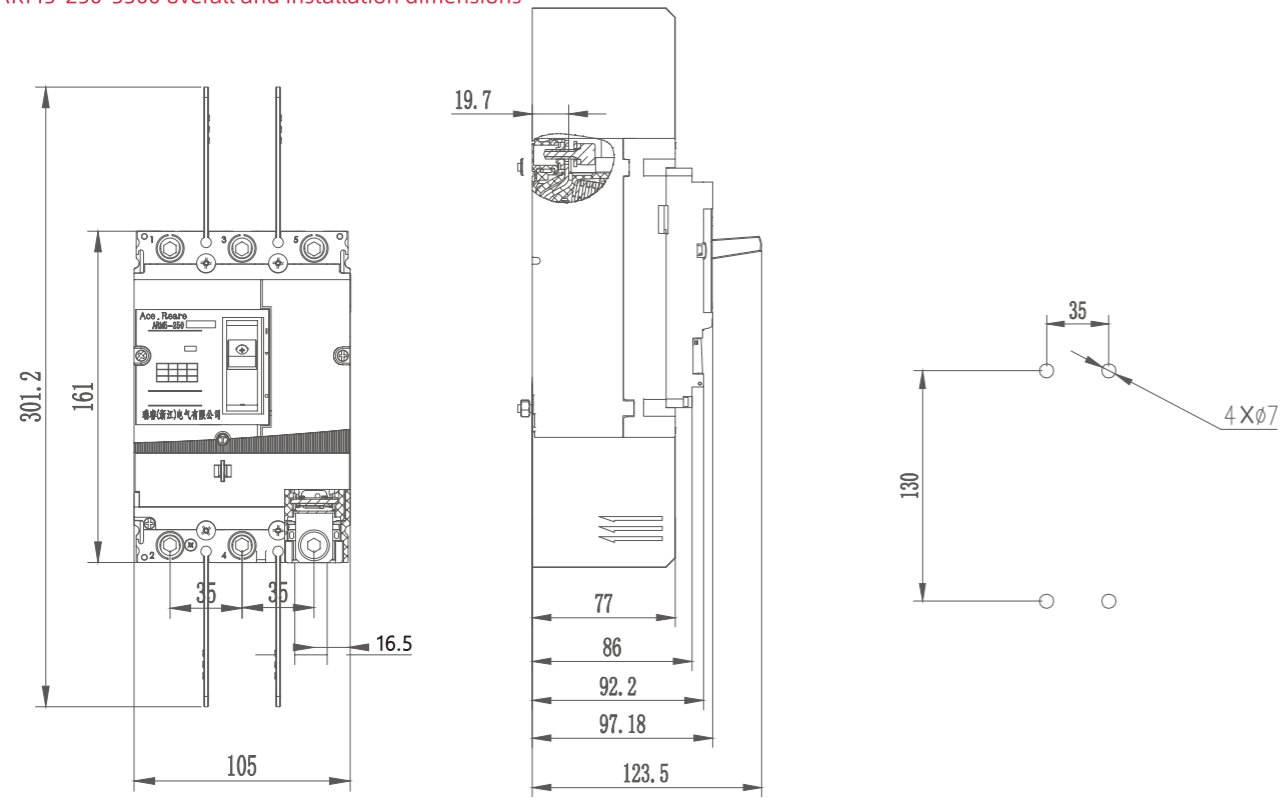


### ARM5-160-4300 overall and installation dimensions



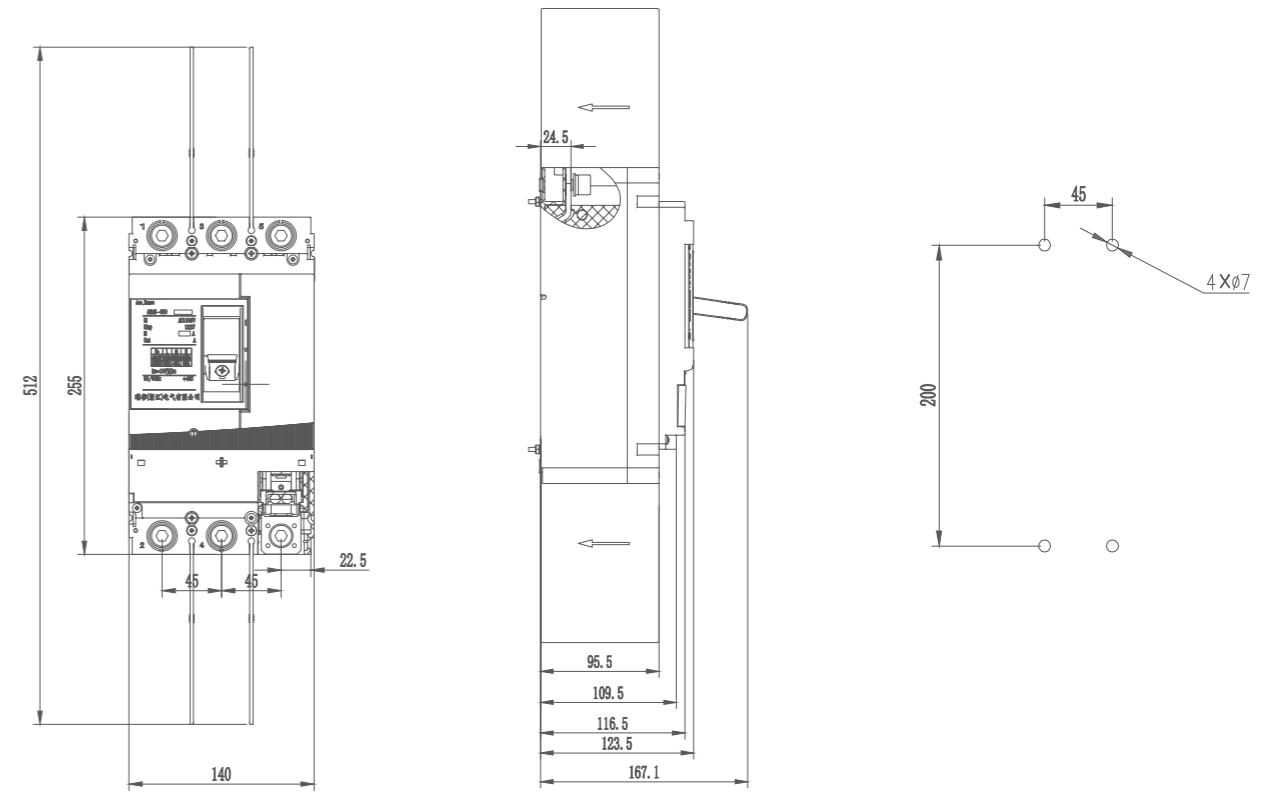
## Overall and installation dimensions of circuit breaker

ARM5-250-3300 overall and installation dimensions

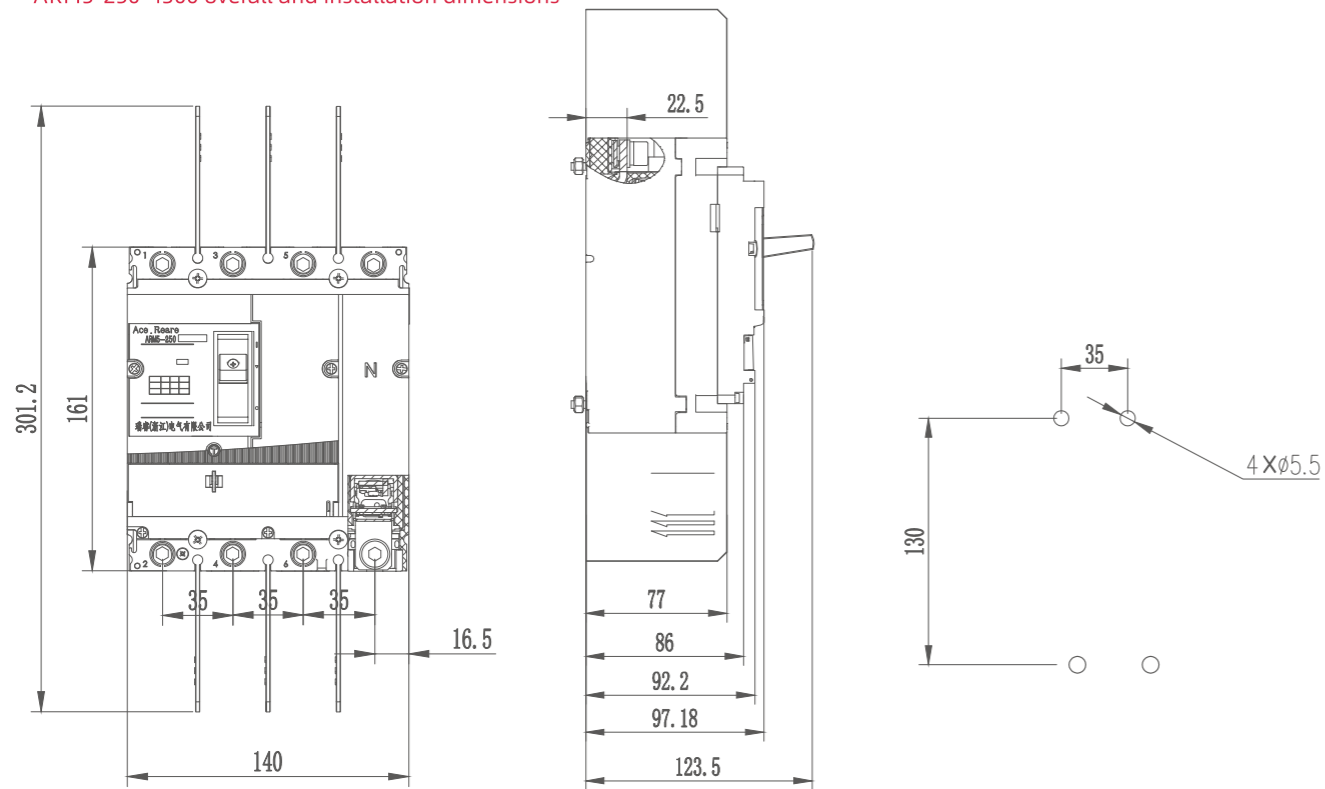


## Overall and installation dimensions of circuit breaker

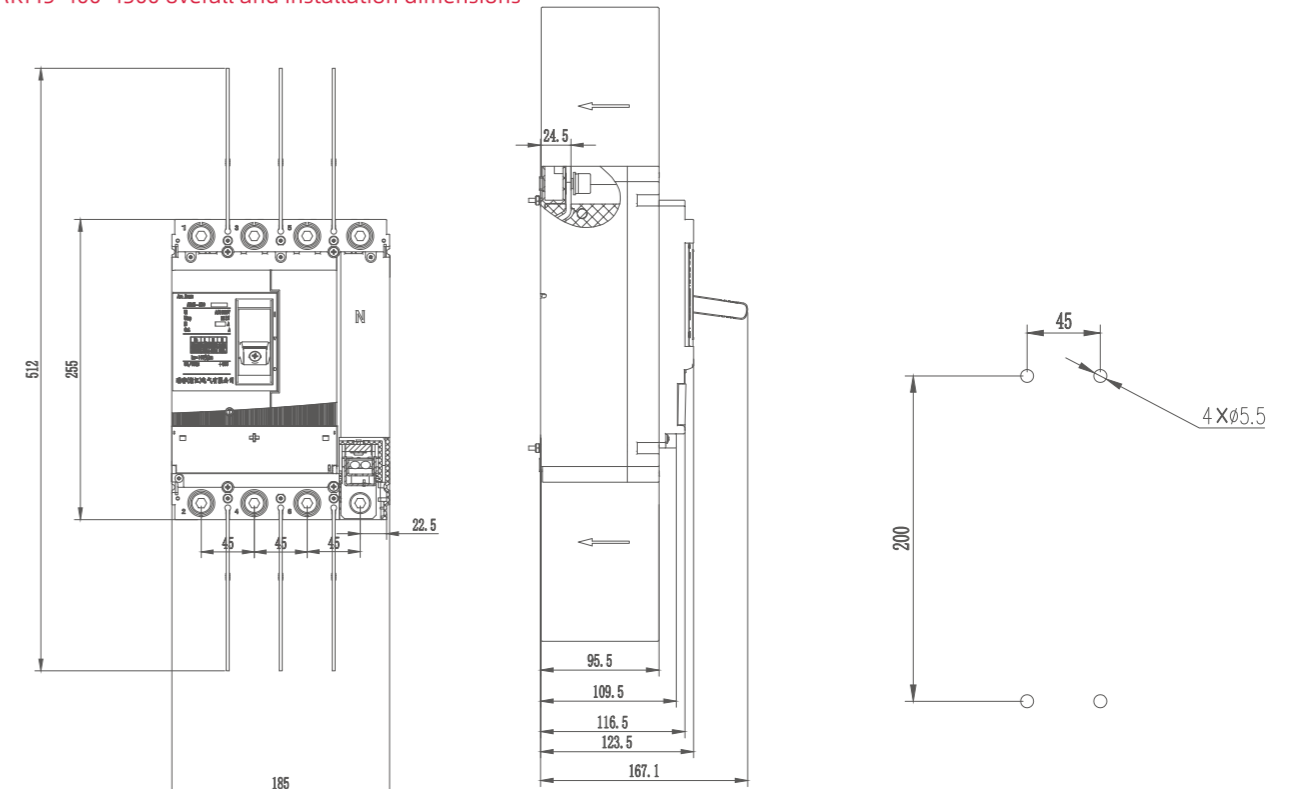
ARM5-400-3300 overall and installation dimensions



ARM5-250-4300 overall and installation dimensions

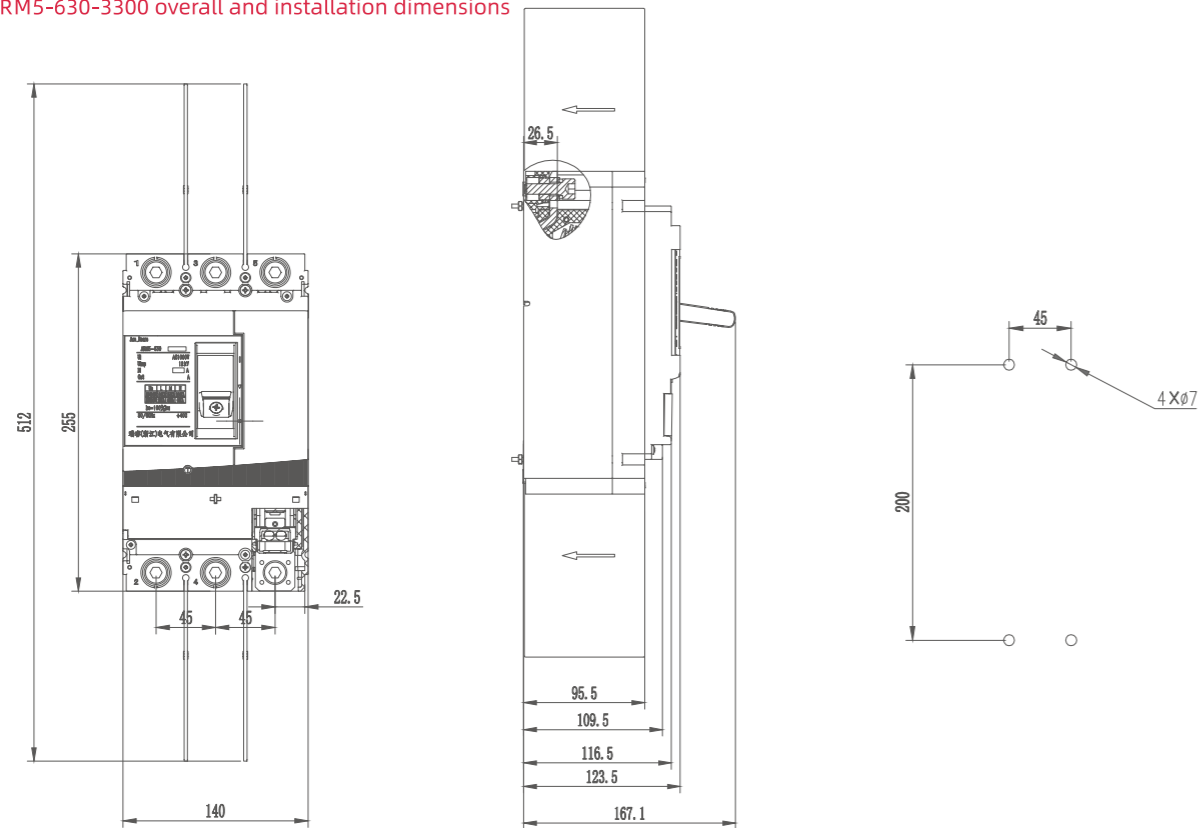


ARM5-400-4300 overall and installation dimensions

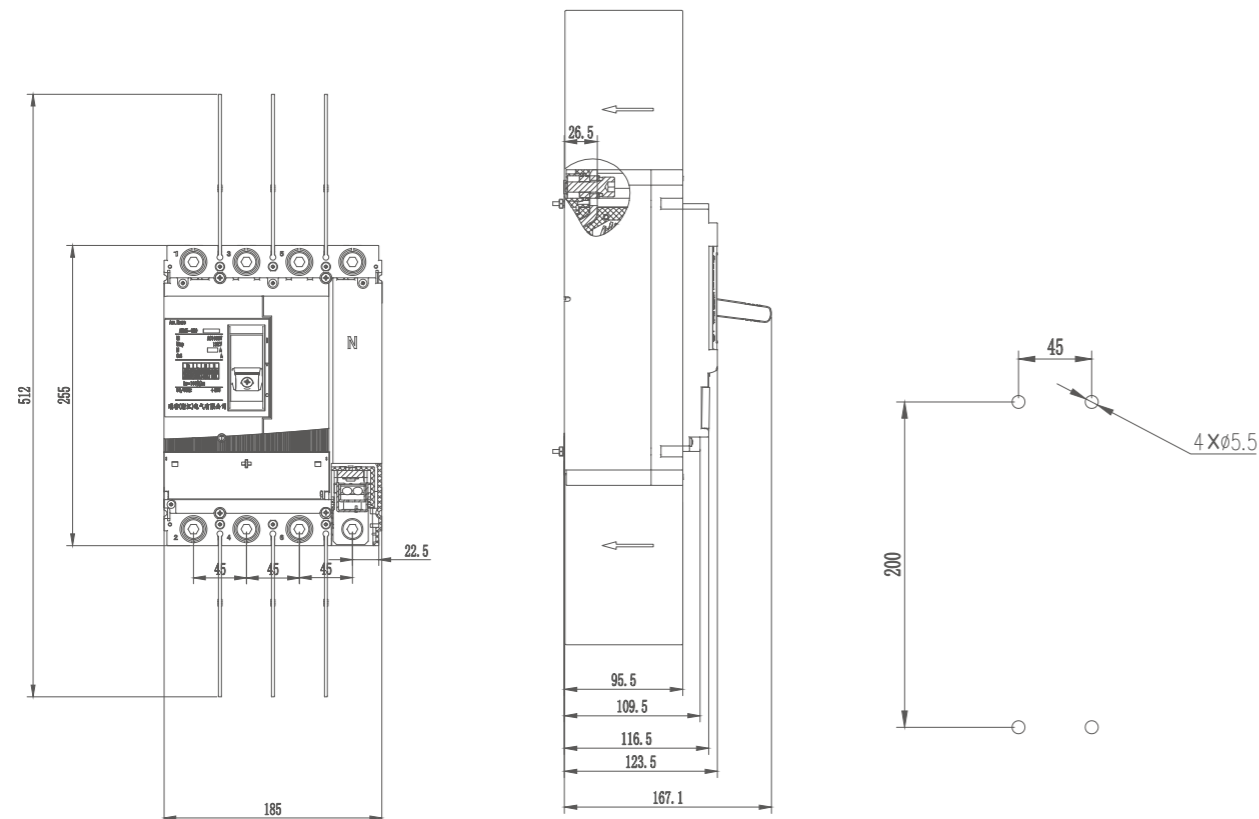


## Overall and installation dimensions of circuit breaker

ARM5-630-3300 overall and installation dimensions



ARM5-630-4300 overall and installation dimensions



## Ordering specification table

Product model: \_\_\_\_\_ ; Purchase quantity: \_\_\_\_\_ ;

AR	XM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	-	<input type="checkbox"/>	/	3	300	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1	2	3				4				5	6	7	8	9	10	11

- 1 M: Regular/XM: new
- 2 Design No.
- 3 None: thermomagnetic type/  
L: leakage type/E: electronic type
- 4 Frame size
- 5 Breaking capacity
- 6 Code for number of poles
- 7 Accessory
- 8 Product purpose
- 9 Level N description
- 10 Rated current
- 11 Wiring mode

Product selection (additional requirements need to be checked, default values do not need to be checked)

### 1. Design No.:

ARM1 No middle cover, only upper cover ; ARM3, ARXM3 Upper cover+middle cover ;  
ARM5 Double break ; ARM6 Capacity increased and new energy ;

### 2. Number of poles: each product frame has 3 poles, and some products have 2 poles and 4 poles. The following are the main descriptions.

Remark: The red mark indicates that the products are under planning of mold development

2P product list														
ARM1	125	L												
	250	L	M											
ARM1DC	250													
ARM6DC	250													
4P product list														
ARM1	63	M		ARXM3	125	C	M		ARM5	250	L	M		
	125	M			250		L	M		H	630	L	M	
	250	M			400			M	H	ARM6	160		M	
	400	M	H		630			M	H		320		M	
	630	M	H		800			M	H		630		M	
	800	M	H		125			M			1000	L	M	
	1250				160		M		ARM6DC	250				
ARM1E	125	M		ARM3	250		M			400				
	160	M			400			M		H	800			
	250	M			630			M	H	800				
	400	M	H		800			M	H	125				
ARM1L	125	M		ARM3E	250			M	H	400				
	250	M			400			M	H	800				
	400	M			800			M	H	250			M	H
ARM1DC	250			ARM3L	400			M	H	630			M	H
	630				630			M	H	800			M	H
					800			M	H					

3. See the attached table for the frame size and breaking capacity: [example M1E-250L]

3P product list																	
ARM1	63		L	M	ARXM3	125	C	S	L	M	H	ARM5	125		L	M	
	125	S	L	M		250	S	L	M	H	250			L	M		
	250	S	L	M		400		L	M	H	400			L	M		
	400		L	M		H	630		L	M	H		630		L	M	
	630		L	M		H	800			M	H		160		L	M	
	800			M		H	125	S	L	M			320	S		M	
	1250						250		L	M			630		L	M	
ARM1E	125			M	ARM3	400		L	M	H	ARM6HU	250					
	160			M		630		L	M	H		400					
	250			M		800			M	H		630					
	400		L	M	H	ARM3E	125			M		H	ARM6Z	250			
	630		L	M	H		250			M		H	ARM6DC	250			
	800			M	H		400		L	M		H		400			
	1250						630		L	M		H		500			
ARM1L	125			M	ARM3L	800			M	H	Note: ARM6HU is high voltage type ARM6Z is an intelligent measuring switch						
	250			M		125			M	H							
	400			M		H	250			M		H					
	630			M		H	400			M		H					
ARM1DC	250					630			M	H							
	630					800			M	H							

4. Rated current (A) \_\_\_\_\_

5. Tripping type:

Electromagnetic+thermomagnetic compound tripping[code 300](default value); only electromagnetic tripping [code200] ;

Without over-current release [used as disconnecter] [code 000];

Leakage alarm non-tripping function  Leakage alarm tripping function ;

Electronic overload alarm non-tripping function [code I] Electronic overload alarm tripping function ;

Thermomagnetic overload alarm non-tripping function [code I] ;

6. Product use:

For power distribution[no code] (default value); for motor protection [code 2];

7. Type of N-pole:

Type B: N-pole always ON, which is connected with other three poles before opening [default];

Typ A: N-pole always ON, which is not connected with other three poles ;

Type C: N-pole with over-current protection, closing and opening together with other three poles ;

Type D: N-pole with over-current protection, and N-pole is always ON, and does not close or open with other three poles ;

8. Wiring mode:

Front panel (default); rear panel H ; plug-in front panel CRQ ; plug-in type rear panel CRH ;

Draw-out type (125 frame without draw-out type);

9. Operation mode:direct operation (default);

Electric operating mechanism P voltage level: AC230V ; AC400V ; DC24V ;

Electric operation type: CD2 [default]; CDM [for frame size of 250 and below]; CD [for frame size above 250] ;

Note: AC or DC power supply can be used for CD2 electric operation power supply, while only AC power supply can be used for CDM and CD electric operation power supply;

Manual operating mechanism Z: operating mechanism Cs1  Cs2  rotating handle F  A

Connection terminal: none [default]; JBC ; JGC ;

Terminal block: none [default]; added ;

Mechanical interlocking mechanism: none [default]; added ;

Mounting base of front panel wiring guide: none [default]; added ;

Wiring method of internal accessories: lead wire [default]; terminal block ;

10. Alarm with trip ; alarm without trip (leakage type and electronic type can be selected) ;

11. Shunt release:AC230V ; AC400V ; AC220V ;DC24V ;

12. Undervoltage release:AC230V ; AC400V ; AC220V ;DC24V ;

13. Auxiliary switch: 1 set ; 2 sets

14. Length of accessory wire: 50cm (default); 100cm [chargeable] ; customized length [chargeable] ;

15. Operating handle:none [default]; added ;

#### Leakage type product selection

1. Rated residual operating current I $\Delta$ n (mA)

Type I: leakage current gear 100/300/500

125/250: 100 ; 300 ; 500 ;

Type II: leakage current gear 125/250; frame size: 30/100/300;400/630frame size: 300/500/1000

125/250: 30 ; 100 ; 300 ;

400/630: 300 ; 500 ; 1000 ;

2. Delay time  $\Delta$ t(s): non-delay ; 0.1 ; 0.5 ; 1 ;

#### Supplementary notes

1. Label:

2. Package:

3. Others: