Shanghai Liangxin Electrical Co., Ltd.

NDM3-1600 Product Specification

(IPD-ENG-DEV-T20 A1 2016-09-23)

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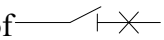
Countersigned by	杨文学	Date	2023-06-26
Approved by	丁飞	Date	2023-06-26

Revision History					
Version	Revision Reason/Content	Implementation Date	Prepared by	Reviewed by	Approved by
0	Newly added	5/8/2020	Yang rongrong	Zhang jun	Ding Fei
1	Update the product appearance picture and product dimension outline drawing	30/9/2021	Yang rongrong	Zhang jun	Ding Fei
2	Add attachment information	12/12/2022	Yang rongrong	Zhang jun	Ding Fei
3	Update attachment list	26/06/2023	Yang rongrong	Zhang jun	Ding Fei

1. Applicable Scope and Purpose of Circuit Breaker

The NDM3-1600 molded case circuit breaker (hereinafter referred to as circuit breaker) applies to infrequent switching of circuits with the AC50/60Hz, the working voltage of AC690V and working current of 1250A as well as infrequent motor starting. With the overload, short circuit and under-voltage protection functions, the circuit breaker can protect lines and power equipment from damage.

The circuit breaker has an isolating function with the corresponding symbol of  ;

Comply with standards: IEC60947-2, GB/T 14048.2.

Products comply with CCC、CE、TUV and CB certification.

2. Product Picture of Circuit Breaker (The picture is for reference only; the specific kind prevail)

Picture of the Product

3. Specification and Model Description of Circuit Breaker

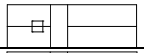
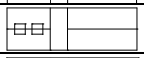
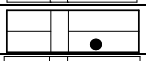
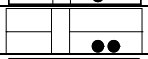
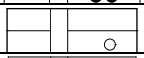
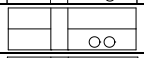
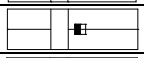
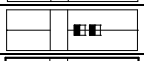
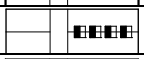
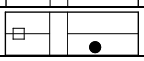
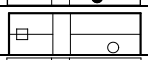
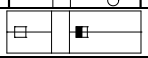
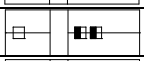
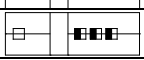
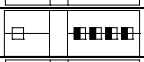
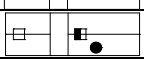
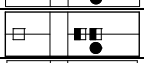
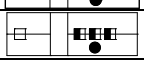
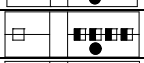
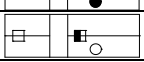
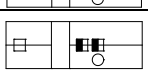
ND	M	3	-	1600	□	□	/	□	□	□	□	□	□	□	□	□
1	2	3		4	5	6		7	8	9	10	11	12	13	14	15

SN	SN name	NDM3
1	Enterprise code	ND: “Nader” low-voltage apparatus
2	Product code	M: Molded case circuit breaker (MCCB)
3	Design SN	3
4	Shell frame level	1600
5	Breaking capacity level	M: Relatively high breaking type
6	Operation mode	No code: Direct handle-operated mode
		P: Motor-operated
		Z: Rotary operation
7	Number of poles	3, 4
8	Release code	0: Release (none)
		2: Instantaneous tripper only
		3: Complex tripper
9	Accessory code	See Table 1
10	Application code	No code: Power distribution type
		2: Motor protection type
11	N-pole (neutral pole)type of the 4P product	B: The N-pole isn't installed with an overcurrent release, but on-off with the other three poles
		C: The N-pole is installed with an overcurrent tripper, and on-off with the other three poles
12	Rated current	See Table 2
13	Cabling type	No code: Normal product
		P: Connection busbar
		HZ1: Rear-plate horizontal connection
		CZ1: Rear-plate vertical connection
14	Other code	CS2-A/150: Circular eccentric hole rotary handle + shaft length 150mm
		CS2-A/200: Circular eccentric hole rotary handle + shaft length 200mm
		CS2-A/300: Circular eccentric hole rotary handle + shaft length 300mm
		CS2-A/350: Circular eccentric hole rotary handle + shaft length 350mm
		CS2-A/650: Circular eccentric hole rotary handle + shaft length 650mm
		DC1 24V:Electric operation voltage DC24V

		DC1 110V: Electric operation voltage AC/DC110V
		DC1 220V: Electric operation voltage AC230V/DC220V
		DC1 380V: Electric operation voltage AC380/400/415V
		230V: Shunt release/Under-voltage release operation voltage AC230V/DC220V
		AC380V: Shunt release/Under-voltage release operation voltage AC380V/AC400V/AC415V
		110V: Shunt release operation voltage AC/DC110V
		Z: Terminal housing(only 3p)
		MS2：MS2 lock
15	Special code	Pin 35：default 800A/1000A
		Pin 40：default 1250A

Note：The setting current is factory set to the rated current by default. If you need to set to other settings, please contact the sales person.
2: Default length of wiring screw: 800A/1000A: nail 35; 1250A: Pin 40. If you need other wiring sc rew lengths, please refer to Table 8;
3: The length of the wiring screw is reflected after the model, with model description characters exc eeding 40, and the nail length is not reflected.

Table 1: Comparison Table of Accessory Code:

Accessory code	Accessory name	Installation 3P、4P
00	None	—
08	Alarm contact	
98	Two sets of alarm contact	
10	Shunt release	
K01	Two sets of shunt release	
30	Under-voltage release	
A01	Two sets of under-voltage release	
21	Single auxiliary contact	
61	Two sets of single auxiliary contact	
23	There sets of single auxiliary contact	
24	Four sets of single auxiliary contact	
18	Shunt release、alarm contact	
38	Under-voltage release、alarm contact	
22	Alarm contact、alarm contact	
88	Two sets of alarm contact、alarm contact	
26	There sets of alarm contact、alarm contact	
25	four sets of alarm contact、alarm contact	
42	Shunt release、alarm contact、alarm contact	
44	Shunt release、two sets of single auxiliary contact、alarm contact	
46	Shunt release、there sets of single auxiliary contact、alarm contact	
14	Shunt release、four sets of single auxiliary contact、alarm contact	
75	Under-voltage release、alarm contact、alarm contact	
77	Under-voltage release、Two sets of single auxiliary contact、alarm contact	
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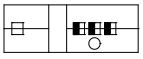
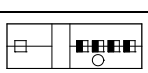
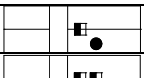
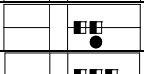
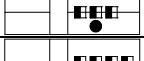
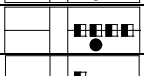
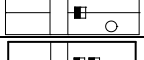
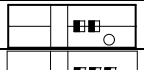
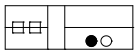
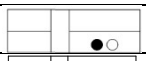
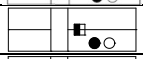
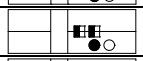
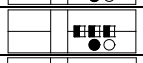
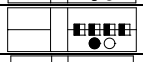
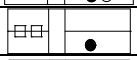
82	Under-voltage release、four sets of single auxiliary contact、alarm contact	
41	Shunt release、alarm contact	
11	Shunt release、Two sets of single auxiliary contact	
12	Shunt release、there sets of single auxiliary contact	
13	Shunt release、four sets of single auxiliary contact	
71	Under-voltage release、alarm contact	
72	Under-voltage release、two sets of single auxiliary contact	
73	Under-voltage release、there sets of single auxiliary contact	
74	Under-voltage release、four sets of single auxiliary contact	
31	Under-voltage release、shunt release、alarm contact	

37	Under-voltage release、shunt release、Two sets of alarm contact	
50	Under-voltage release、shunt release	
51	Under-voltage release、shunt release、alarm contact	
52	Under-voltage release、shunt release、Two sets of single auxiliary	
53	Under-voltage release、shunt release、there sets of single auxiliary	
54	Under-voltage release、shunt release、four sets of single auxiliary	
19	Shunt release、two sets of alarm contact	
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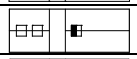
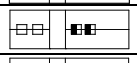
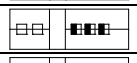
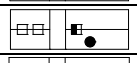
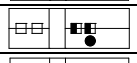
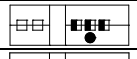
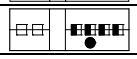
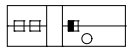
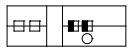
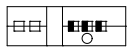
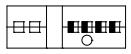
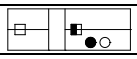
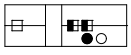
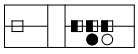
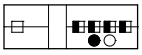
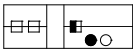
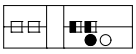
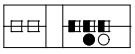
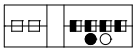
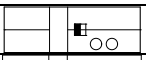
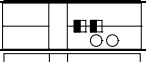
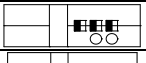
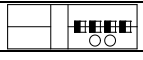
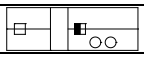
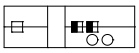
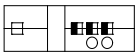
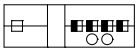
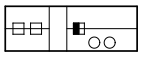
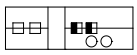
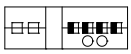
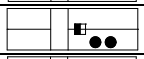
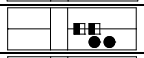
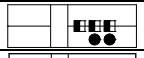
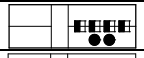
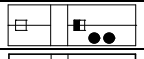
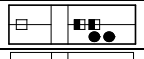
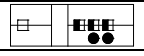
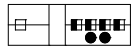
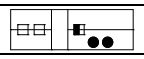
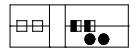
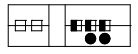
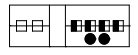
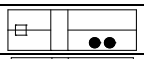
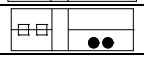
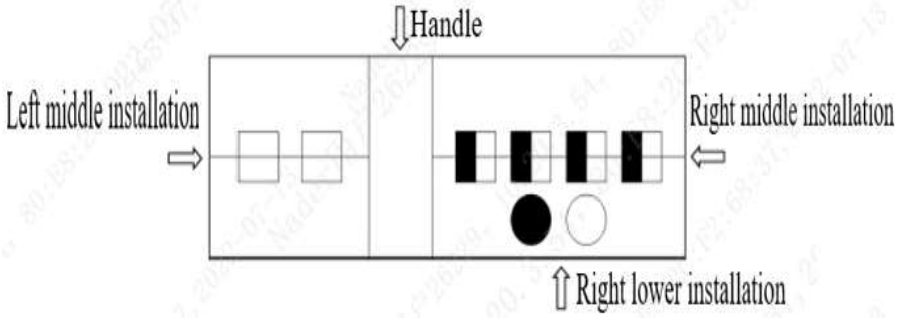
63	Single auxiliary contact、two sets of alarm contact	
64	Two sets of single auxiliary contact、two sets of alarm contact	
65	There sets of single auxiliary contact、two sets of alarm contact	
66	Four sets of single auxiliary contact、two sets of alarm contact	
43	Shunt release、alarm contact、two sets of alarm contact	
45	Shunt release、two sets of alarm contact、two sets of alarm contact	
47	Shunt release、there sets of alarm contact、two sets of alarm contact	
15	Shunt release、four sets of alarm contact、two sets of alarm contact	
76	Under-voltage release、alarm contact、two sets of alarm contact	
80	Under-voltage release、two sets of alarm contact、two sets of alarm contact	
83	Under-voltage release、there sets of alarm contact、two sets of alarm contact	
84	Under-voltage release、four sets of single alarm contact、two sets of alarm contact	
32	Under-voltage release、shunt release、alarm contact、alarm contact	
33	Under-voltage release、shunt release、two sets of alarm contact、alarm contact	
34	Under-voltage release、shunt release、there sets of alarm contact、alarm contact	
35	Under-voltage release、shunt release、there sets of alarm contact、alarm contact	
39	Under-voltage release、shunt release、alarm contact、two sets of alarm contact	
55	Under-voltage release、shunt release、two sets of alarm contact、two sets of alarm contact	
56	Under-voltage release、shunt release、there sets of alarm contact、two sets of alarm contact	
36	Under-voltage release、shunt release、four sets of single alarm contact、two sets of alarm contact	
A02	Two sets of under-voltage release、alarm contact	
A07	Two sets of under-voltage release、two sets of alarm contact	
A08	Two sets of under-voltage release、there sets of alarm contact	
A09	Two sets of under-voltage release、four sets of single alarm contact	

A10	Two sets of under-voltage release、alarm contact、alarm contact	
A12	Two sets of under-voltage release、two sets of alarm contact、alarm contact	
A14	Two sets of under-voltage release、there sets of alarm contact、alarm contact	
A16	Two sets of under-voltage release、four sets of single alarm contact、alarm contact	
A11	Two sets of under-voltage release、alarm contact、two sets of alarm contact	
A13	Two sets of under-voltage release、two sets of alarm contact、Two sets of alarm contact	
A15	Two sets of under-voltage release、there sets of alarm contact、Two sets of alarm contact	
A17	Two sets of under-voltage release、four sets of single alarm contact、Two sets of alarm contact	
A05	Two sets of under-voltage release、alarm contact	
A06	Two sets of under-voltage release、two sets of alarm contact	
K04	Two sets of shunt release、alarm contact	
K06	Two sets of shunt release、two sets of alarm contact	
K07	Two sets of shunt release、there sets of alarm contact	
K08	Two sets of shunt release、four sets of single alarm contact	
K12	Two sets of shunt release、alarm contact、alarm contact	
K09	Two sets of shunt release、two sets of alarm contact、alarm contact	
K10	Two sets of shunt release、there sets of alarm contact、alarm contact	
K11	Two sets of shunt release、four sets of single alarm contact、alarm contact	
K13	Two sets of shunt release、alarm contact、Two sets of alarm contact	
K14	Two sets of shunt release、two sets of alarm contact、Two sets of alarm contact	
K15	Two sets of shunt release、there sets of alarm contact、Two sets of alarm contact	
K16	Two sets of shunt release、four sets of single alarm contact、Two sets of alarm contact	
K02	Two sets of shunt release、alarm contact	
K05	Two sets of shunt release、two sets of alarm contact	

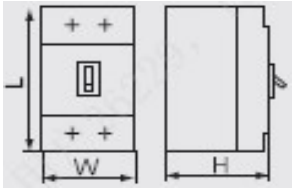
Note: ◧ Single auxiliary contact； □ Alarm contact； ● Shunt release； ○ Under-voltage release



Attachment installation diagram

4. Main Technical Parameters of Circuit Breaker

Table 2 Main Technical Parameters of Circuit Breaker

Model			NDM3-1600	
Rated current of frame Inm (A)			1600	
Rated current In (A)			800, 1000, 1250	
Rated insulation voltage Ui (AC V)			1000	
Rated impulse withstand voltage Uimp (V)			12000	
Rated working voltage Ue (AC V)			400/415, 500, 660/690	
Power frequency withstand voltage U (1min) (V)			3500	
Utilization category			A	
Number of poles			3, 4	
Breaking capacity level			M	
Rated limit short-circuit breaking capacity Icu (kA)		AC400/415V	70	
		AC500V	50	
		AC660/690V	20	
Rated operating short-circuit breaking capacity Ics (kA)		AC400/415V	50	
		AC500V	50	
		AC660/690V	20	
Operating performance (times)	Electrical life	AC400/415V	1000	
		AC500V	800	
		AC690V	500	
	Mechanical life	Maintainable free life	10000（3P）/6000（4P）	
		Maintainable life	20000（3P）/12000（4P）	
Boundary dimension		L(mm)	268	268
		W(mm)	210	280
		H(mm)	152	152
Flashover distance(mm)			≤100	

Note :The overall dimension does not include the dimension of terminal cover。

4.1 Selection of the circuit breaker connecting bus or cable cross-section area:

Table 3 Selection of the Connecting Copper Bar or Cable Cross-section Area

Rated current (A)	800	1000	1250
Copper bar size (mm^2)	50×5	50×6	50×8
Quantity	2	2	2

4.2 Tightening Torque of the Circuit Breaker Terminal and Mounting Screw

Table 4 Tightening Torque of the Circuit Breaker Terminal and Mounting Screw

Model	Thread specification	Torque (N·m)
NDM3-1600	M10	20
	M5	4

4.3 Derating factor of temperature change for the circuit breaker

Table 5 Derating Factor Table of Temperature Change for the Circuit Breaker

Model	Derating factor of product temperature change							
NDM3 -1600	Temperature (℃)	40	45	50	55	60	65	70
	Derating factor	1	0.96	0.92	0.87	0.82	0.76	0.70

Note: 1) When the operating ambient temperature is below 40℃, the product can be used normally without derating capacity.

2) The above derating factors are measured at the frame current.

4.4 High-altitude derating factor of the circuit breaker

Table 6 High-altitude Derating Factor Table of Circuit Breaker

Elevation (m)	Working current correction coefficient	Maximum working current correction coefficient	Power frequency withstand voltage correction coefficient	Isolation voltage correction coefficient
2000	1	690	3500	1000
2500	1	690	3500	1000
3000	0. 98	620	3150	900
3500	0. 97	580	3000	850
4000	0. 95	550	2800	810
4500	0. 94	520	2650	770
5000	0. 93	500	2500	730

4.5 Power loss coefficient of circuit breaker

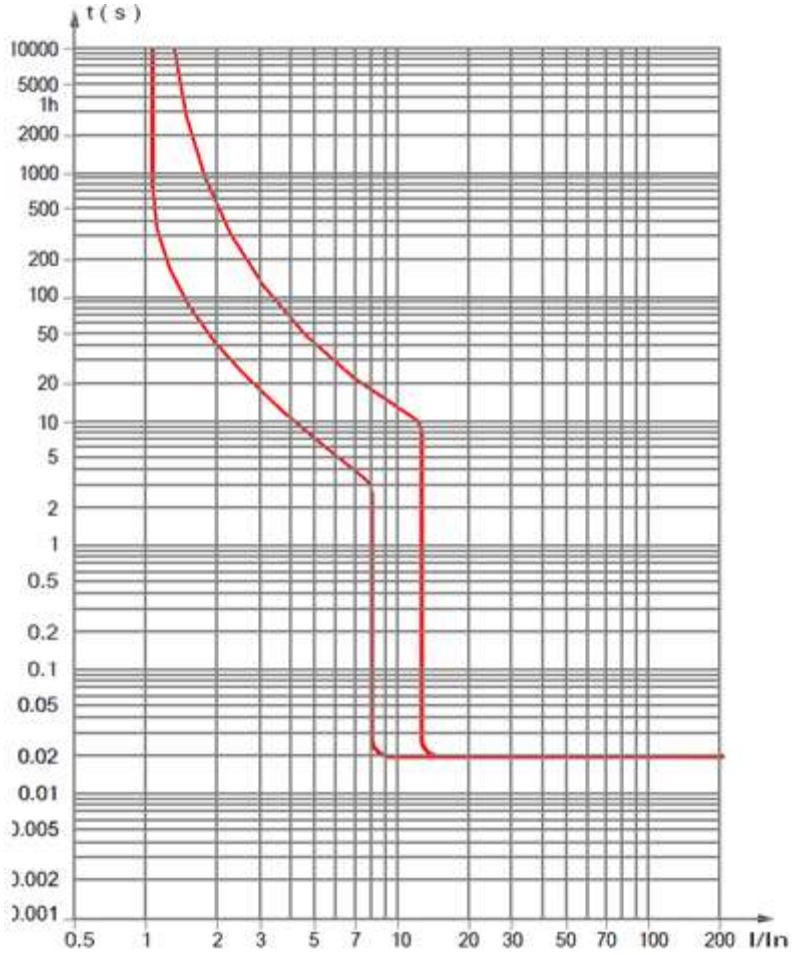
Table 7 Power loss coefficient table of circuit breaker

Model	Energizing current(A)	Total power loss(W)
		Wiring before and after board
NDM3-1600	1250	141

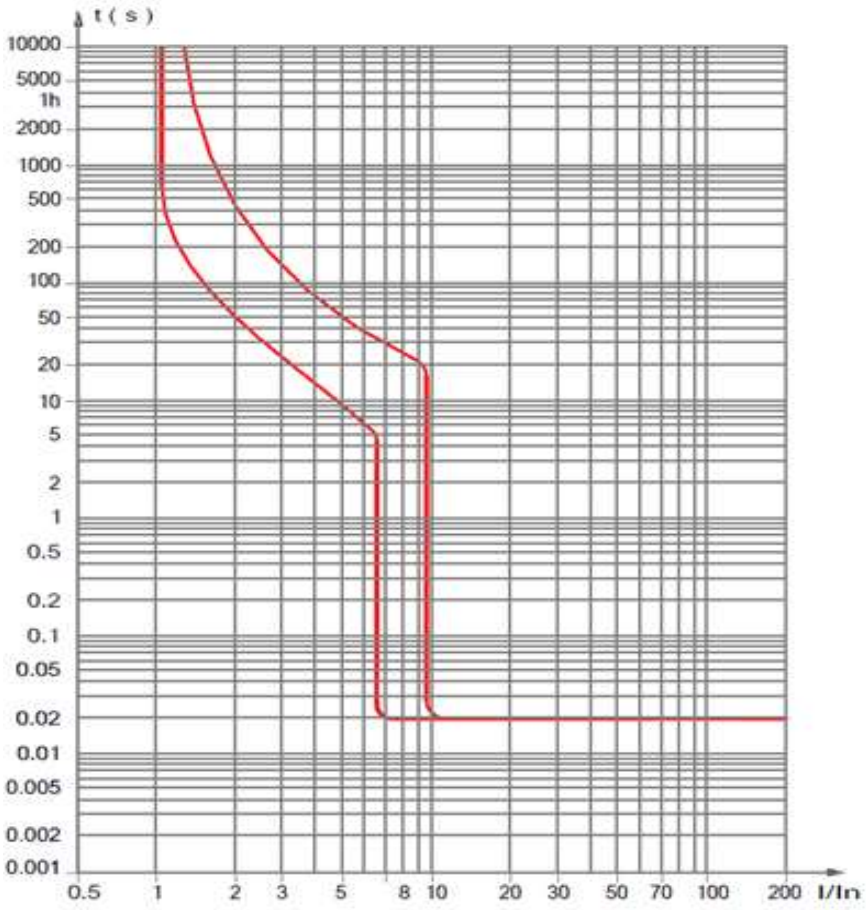
5. Normal Working Environment of Circuit Breaker

1) The altitude of the installation site doesn't exceed 2,500m. See the "High-altitude Derating Factor Table of Circuit Breaker" for the derating factor at the altitude;
2) The ambient temperature is -35℃~ +70℃; the average within 24h shall not be more than +35℃. If the ambient temperature is higher than +40℃, the user needs to reduce the capacity. See the " Derating Factor Table of Temperature Change for the Circuit Breaker" for the derating factor;
3) Wet heat resistance: Meets the standard IEC60086-2-30 wet heat (95% relative humidity at 40℃);
4) The product can withstand the effects of wet air, salt mist, oil mist and mould;
5) The installation category of the circuit breaker connected to the main loop is: Category Ⅲ (power distribution and control level), The installation category of the circuit breaker not connected to the main loop is: Category Ⅱ (load level);
6) The pollution level is Level 3;
7) The product should be installed in places that are free from explosive media, media corrosive to metal, insulation damaging gas, and conductive dust, which should be also avoided from snow and rain;
8) In case of stricter user conditions than the above description, negotiate with the manufacturer.

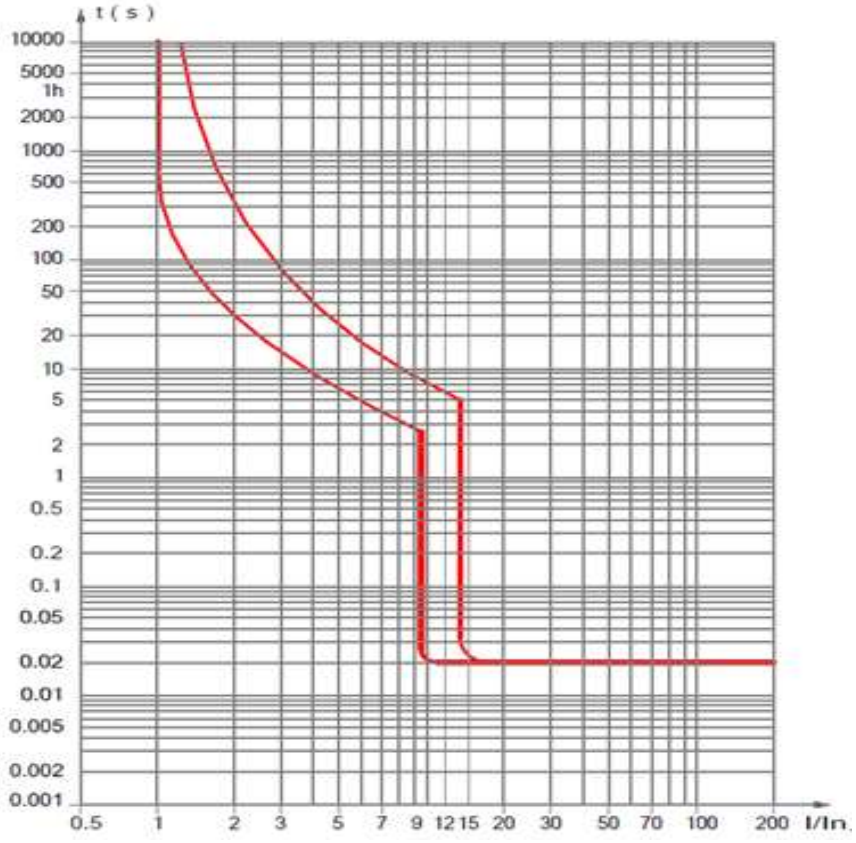
6. Short-circuit Overload Protection Characteristic Curve of Circuit Breaker



Power distribution type time/current characteristic curve (800A, 1000A)



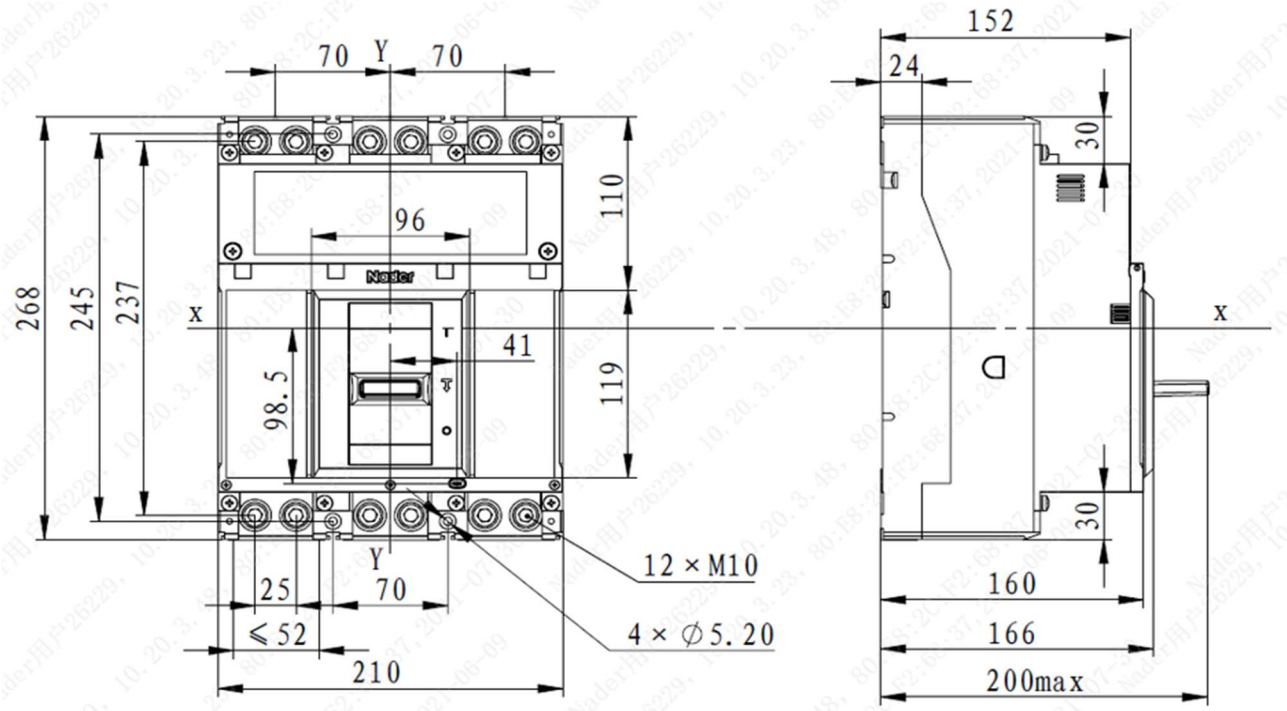
Power distribution type time/current characteristic curve (1250A)



Motor type time/current characteristic curve (800A, 1000A)

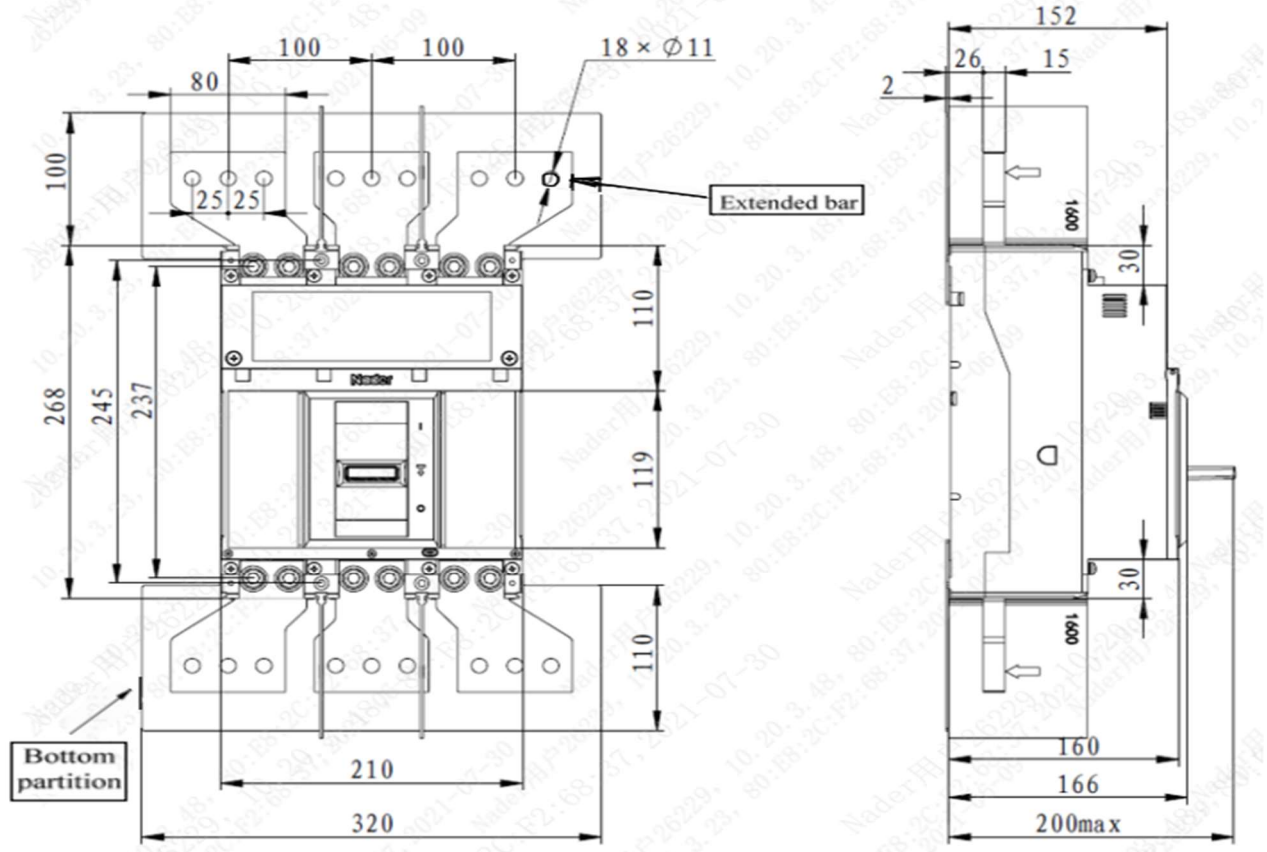
7. Outline and Mounting Hole Dimensions of Circuit Breaker

7.1 External dimensions of 3P front-plate connection products



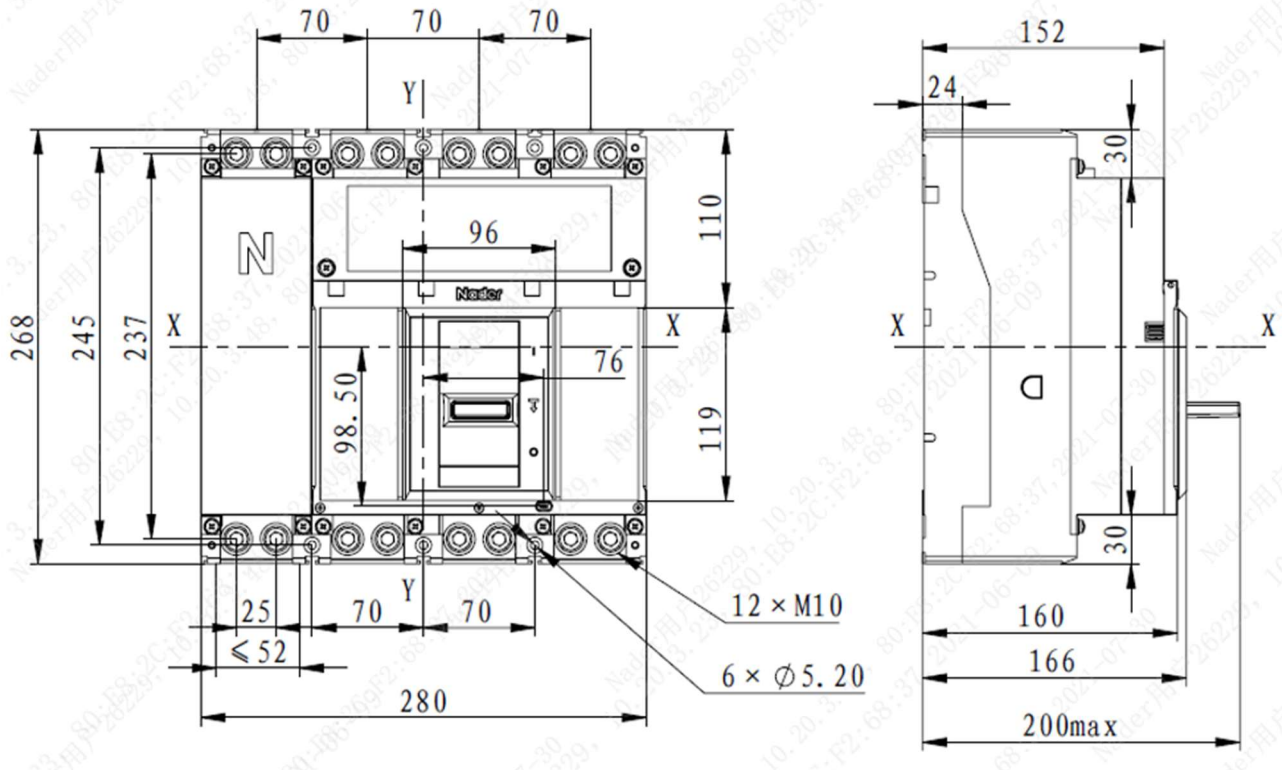
Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

7.2 External dimensions of 3P extended front-plate connection products



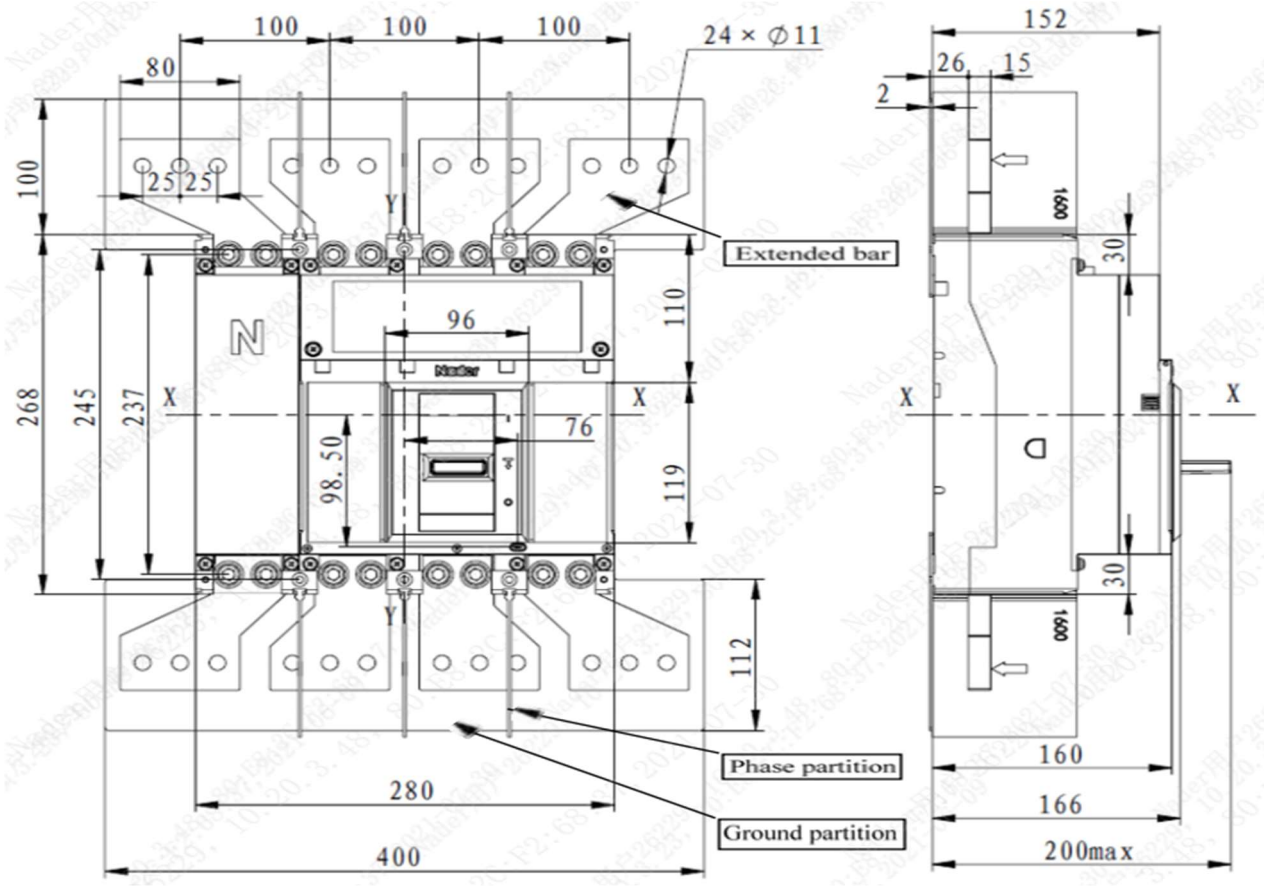
Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

7.3 External dimensions of 4P front-plate connection products



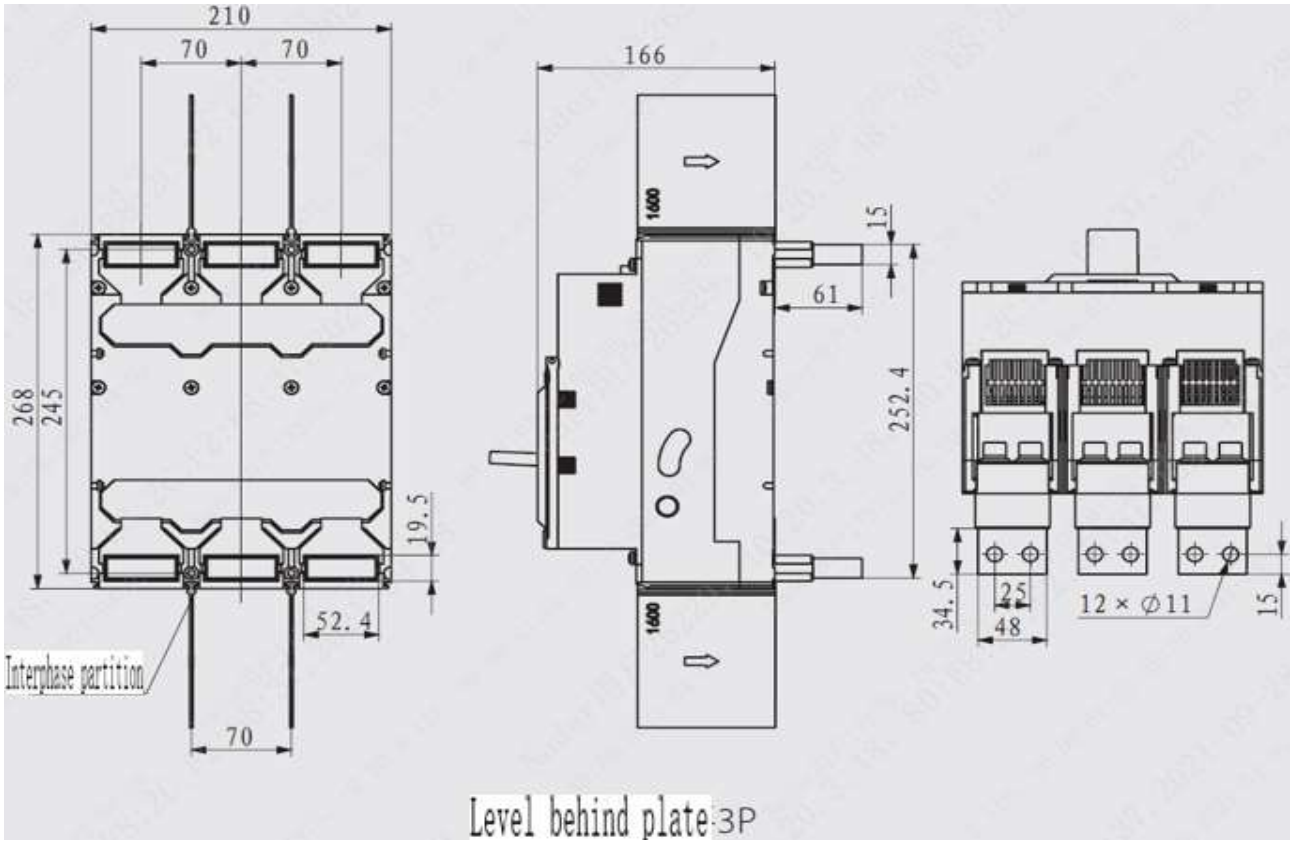
Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

7.4 External dimensions of 4P extended front-plate connection products

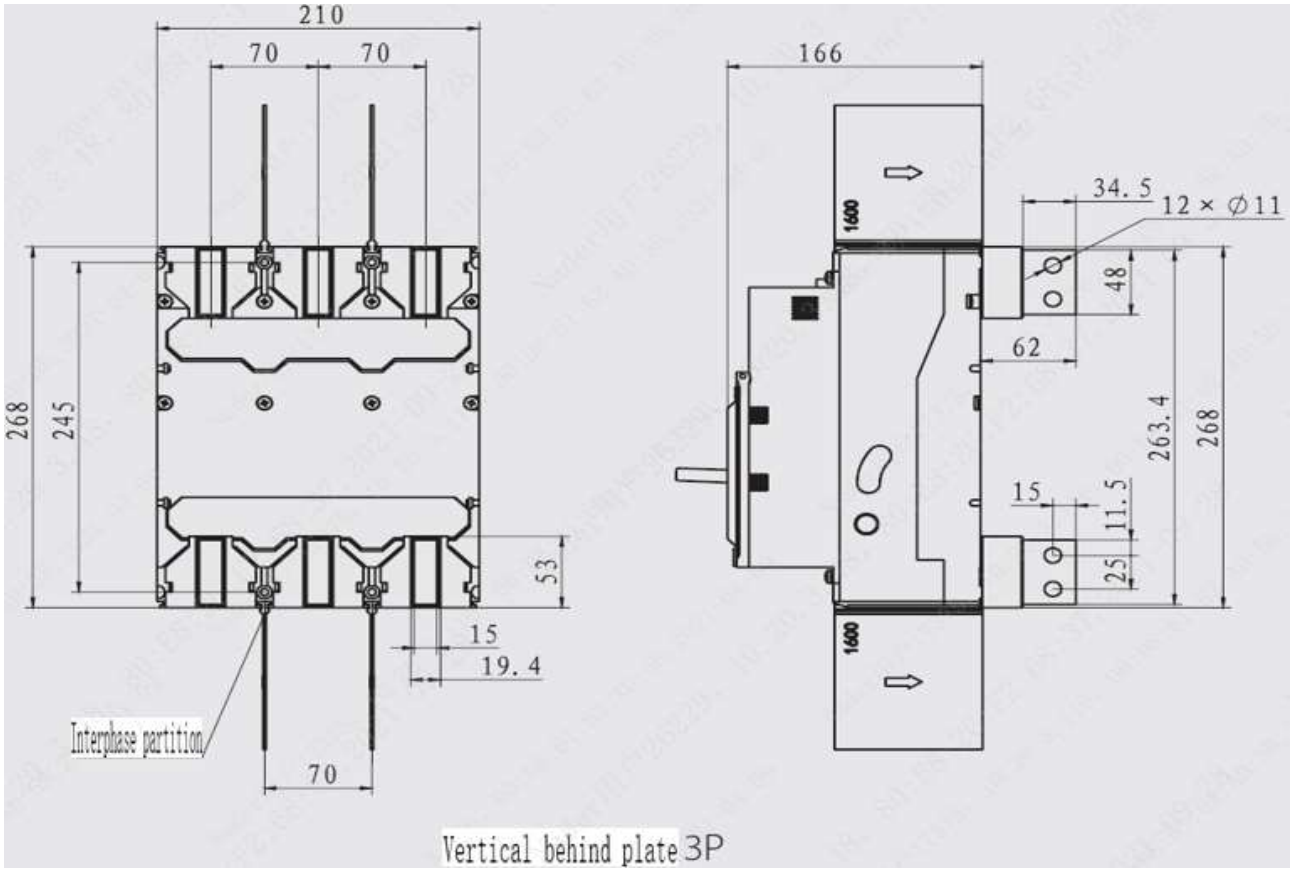


Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

7.5 3P Rear panel wiring

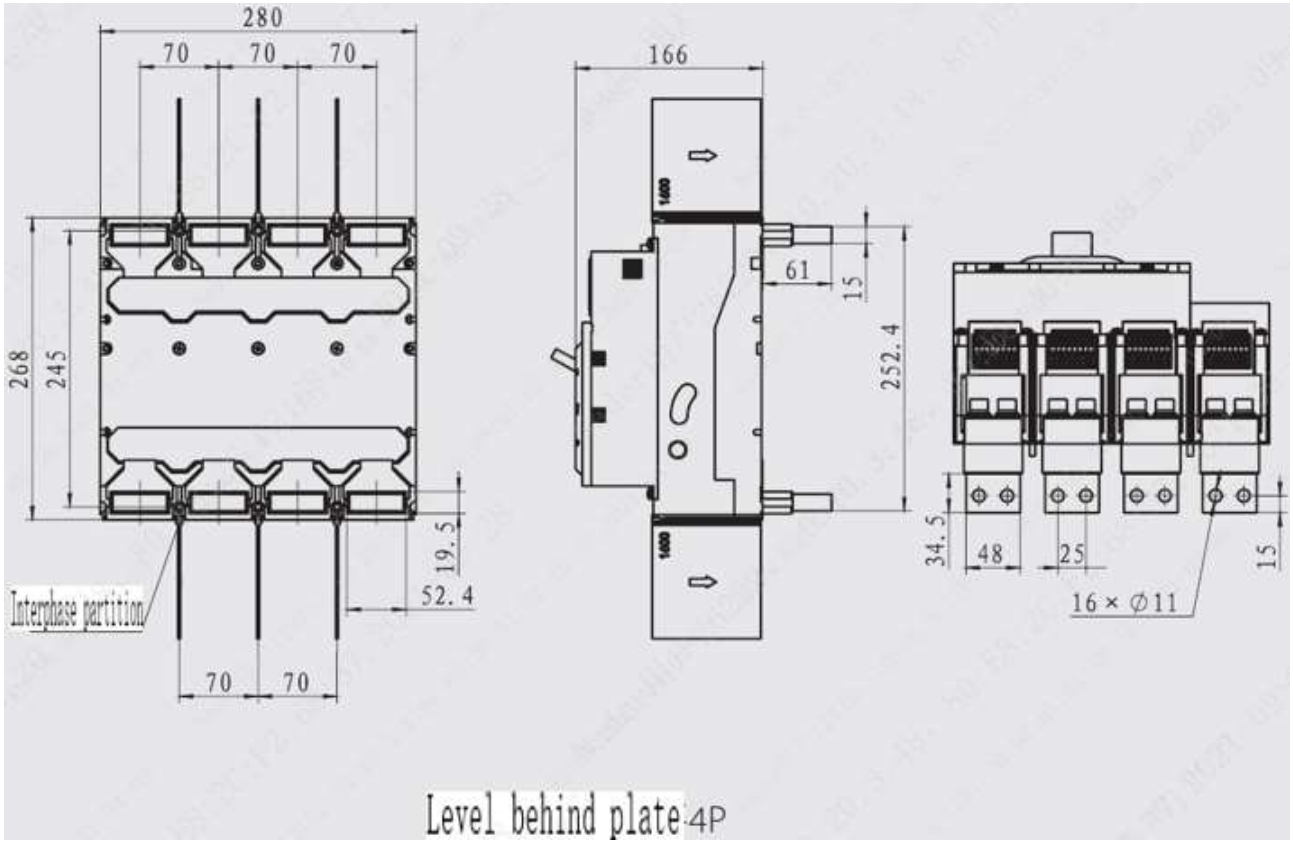


Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

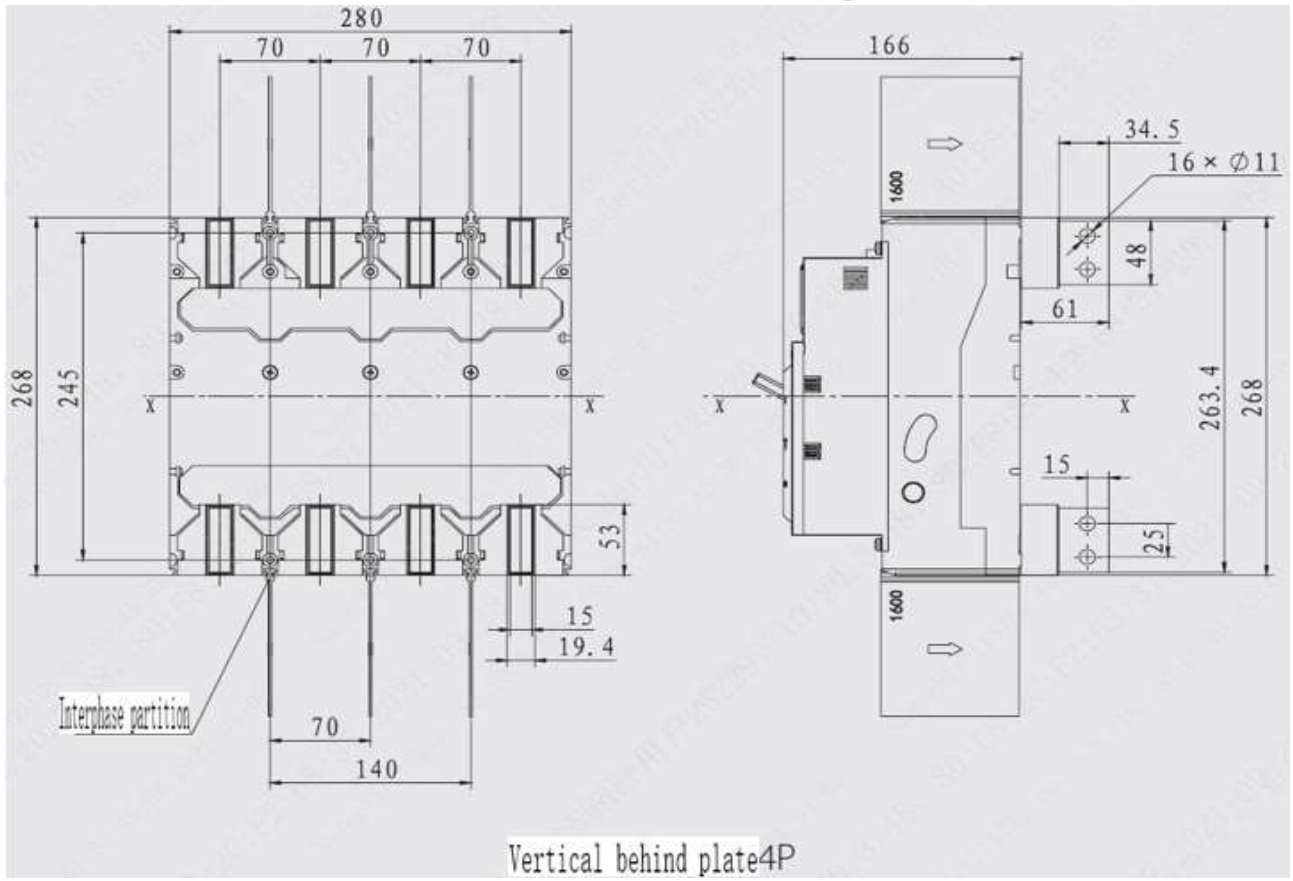


Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

7.6 4P Rear panel wiring

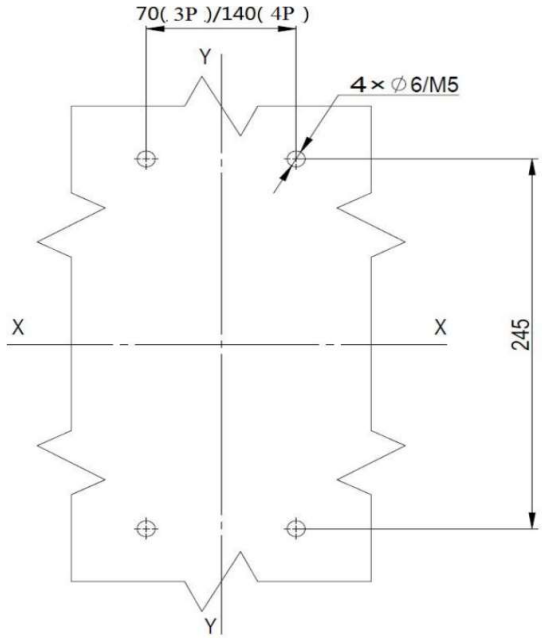


Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.



Note: the unmarked dimensional tolerance shall be in accordance with GB / T 1804-c.

7.7 Mounting hole dimensions



Note: The limit deviation not indicated with the tolerance dimensions is as per GB/T 1804-c.

Table 8 Wiring Copper Bar Thickness and Screw Length

SN	Thickness of the wiring	Wiring hexagon screw length
1	6, 8	M10X30
2	10, 12	M10X35
3	15	M10X40
Note: The hexagon screw length shall be indicated when ordering.		

7.8 Safe mounting distance of circuit breaker

Table 9 Minimum Safety Distance during Installation (Unit: mm)

Mounting distance	A (inlet wire end to the cabinet face)		B (distance from side to the cabinet face)	C (outlet wire end to the cabinet face)
Model	With a terminal cover	Without a terminal cover		
NDM3-1600	25	110	35	35

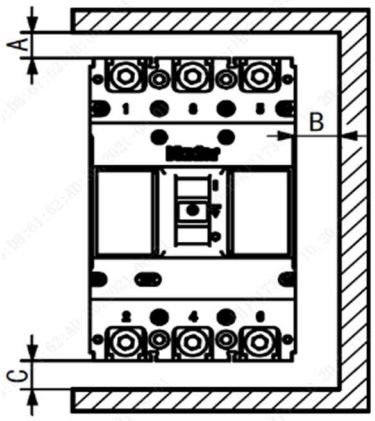


Table 10 Minimum Center Distance between Rowed Circuit Breakers (Unit: mm)

Model	Width of circuit breaker		I Center distance	
	3 poles	4 poles	3 poles	4 poles
NDM3-1600	210	280	250	320

Note: Check the connected busbar or cable during rowing or stacking of the circuit breaker to ensure that the air insulation distance won't be reduced.

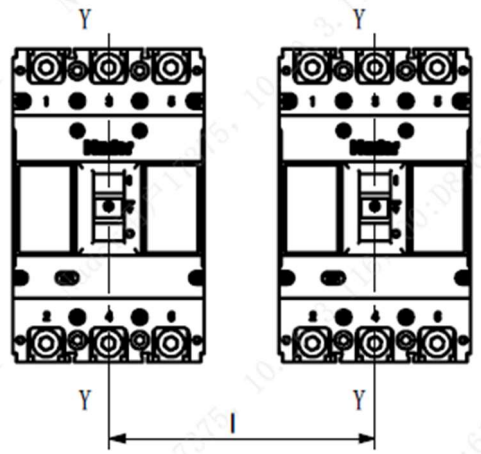


Table 11 Minimum Distance between Stacked Circuit Breakers (Unit: mm)

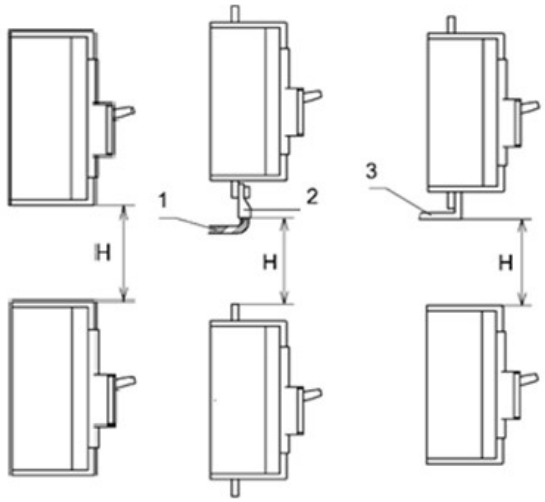
Model	H (distance of circuit breaker from bottom)	
	With a terminal cover	Without a terminal cover
NDM3-1600	/	155

Note: 1) Bare cable connection

2) Cable insulating connection

3) Connection without insulation

Requirements: Check whether the terminal cover or phase partition is assembled properly before products are energized.



8. Accessories Function Description

8.1 Under-voltage release

When the power voltage drops to the range (35%~70%) of the under-voltage release, the release can break the circuit breaker reliably;

When the power voltage is 35% lower than the rated working voltage of the under-voltage release, the release can prevent closing of the circuit breaker;

When the power voltage is 85% higher than the rated working voltage of the under-voltage release, the release can guarantee reliable closing of the circuit breaker.

Table 12 Voltage Specifications and Power Consumption of Undervoltage Release

Accessory name	Under-voltage release		
Voltage specifications (V)	AC/DC 110	AC/DC 230	AC 400
Retention power consumption (W)	7	8	10
Instantaneous power consumption (W)	230	500	270

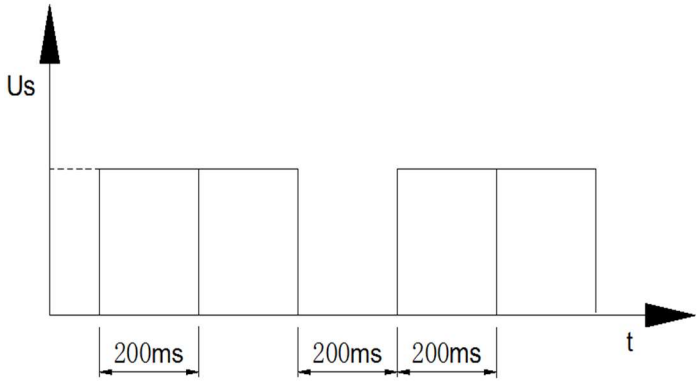
8.2 Shunt release

When the external voltage of the shunt release is between 70% and 110% of the rated control power voltage, the release can break the circuit breaker reliably.

Table 13 Voltage Specifications and Power Consumption of Shunt Release

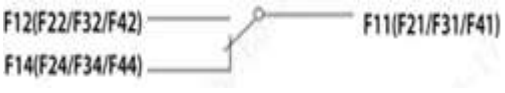
Accessory name	Shunt release		
Voltage specifications (V)	DC 24	AC/DC 110	AC/DC 230
Retention power consumption (W)	3.5	3.5	3.5
Instantaneous power consumption (W)	240	230	300

Note: Working principle of the shunt release: a single pulse action (the suggested power-on time above 200ms). If another action is required, the shunt release can only be operated after being off (the suggested interval time above 200ms), reset and energized. The time from power on of the shunt release (receiving signal) to product tripping is 100ms.



8.3 Rated parameters of the auxiliary contact

Table 14 Rated Parameters of the Auxiliary Contact

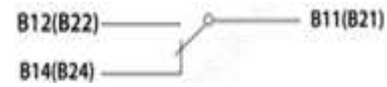
Accessory name		Auxiliary contact (conventional)	Auxiliary contact(Low power consumption)
Voltage specifications (V)/conventional (Ith)		AC250V/10A、AC400V/3A、DC220V/0.2A	DC30V/0.1A
Wiring diagram	On, off		
	Free tripping		
Internal resistance		＜30mΩ	＜50mΩ

Note1)：If need DC30V/0.1A Auxiliary contact，please explain when ordering。

2): The first auxiliary harness is identified as F11 (red), F12 (white), F14 (yellow), and the second auxiliary harness is identified as F21 (red), F22 (white), F24 (yellow), and so on. At most four groups of auxiliary harness are installed.

8.4 Rated parameters of the alarm contact

Table 15 Rated Parameters of the Alarm Contact

Accessory name		Alarm contact (conventional)	Alarm contact(Low power consumption)
Voltage specifications (V)/conventional (Ith)		AC250V/10A、AC400V/3A、DC220V/0.2A	DC30V/0.1A
Wiring diagram	On, off		
	Free tripping		
Internal resistance		＜30mΩ	＜50mΩ

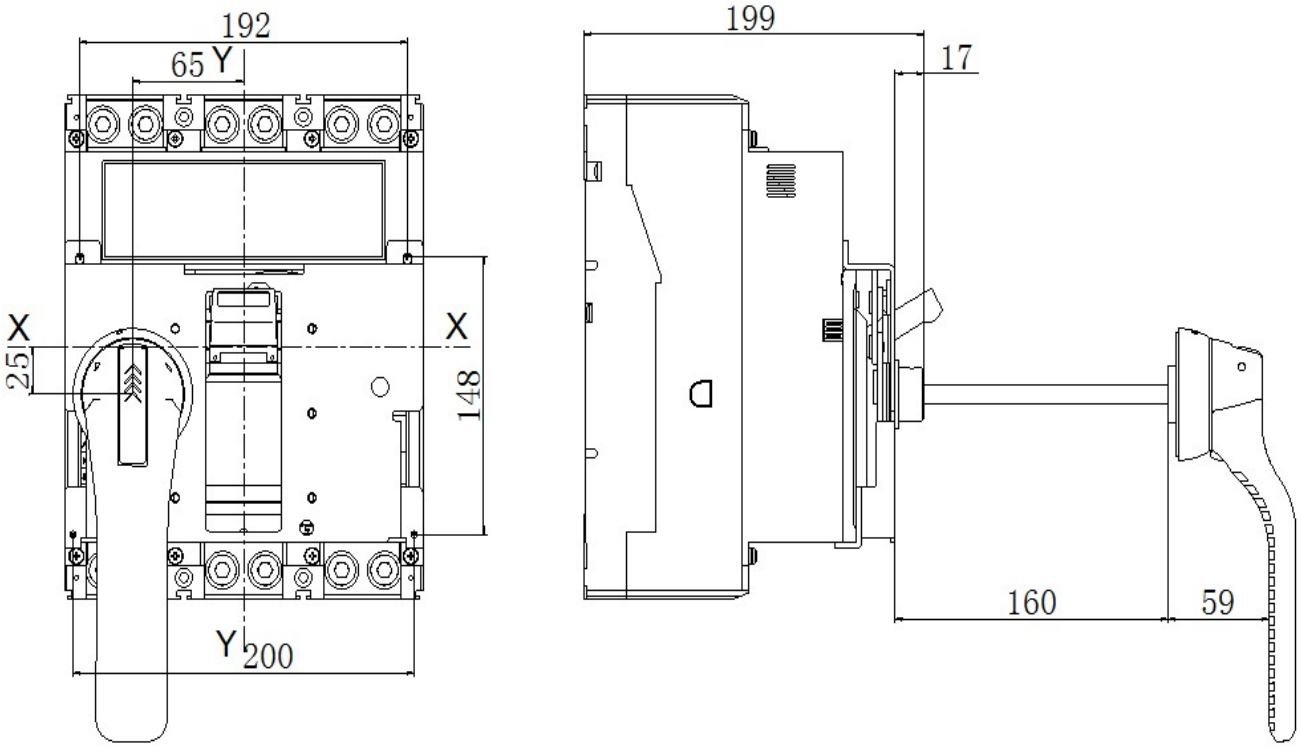
Note 1)：If need DC30V/0.1A Auxiliary contact，please explain when ordering。

2)The first alarm harness is identified as B11 (red), B12 (white), B14 (yellow), and the second auxiliary harness is identified as B21 (red), B22 (white), B24(yellow), and so on. At most two groups of alarms are installed.

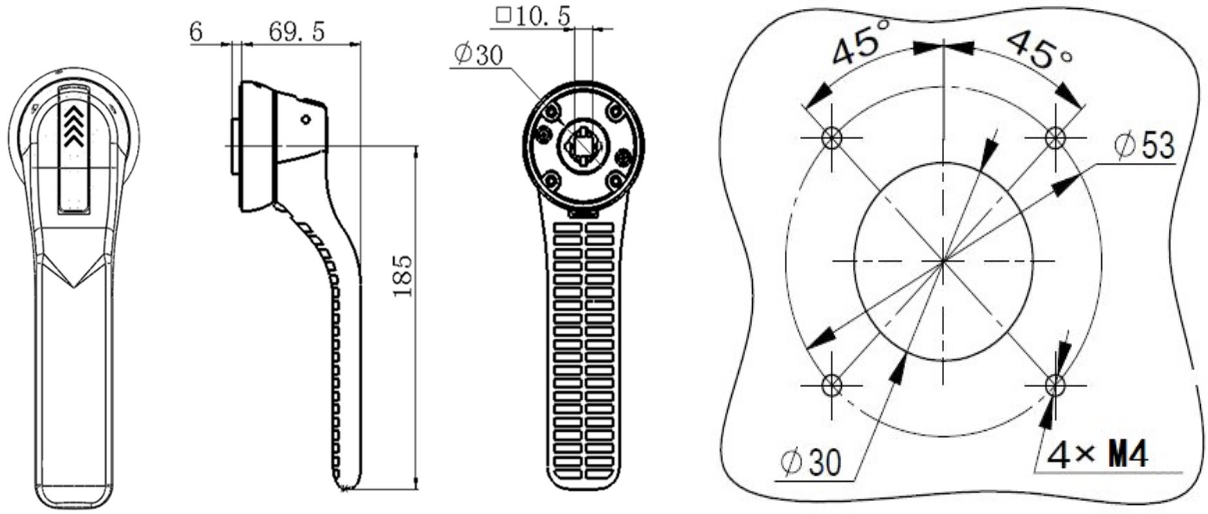
Note: The standard wire length of the under-voltage release, shunt release, auxiliary contact and alarm contact wiring is 0.7m, 1m、2m、4m can be customized according to the requirements.

8.5 Operating mechanism of the rotation handle (CS2)

Manual operation—the handle mounting hole diagram and external dimension diagram of manual operation are shown as below:



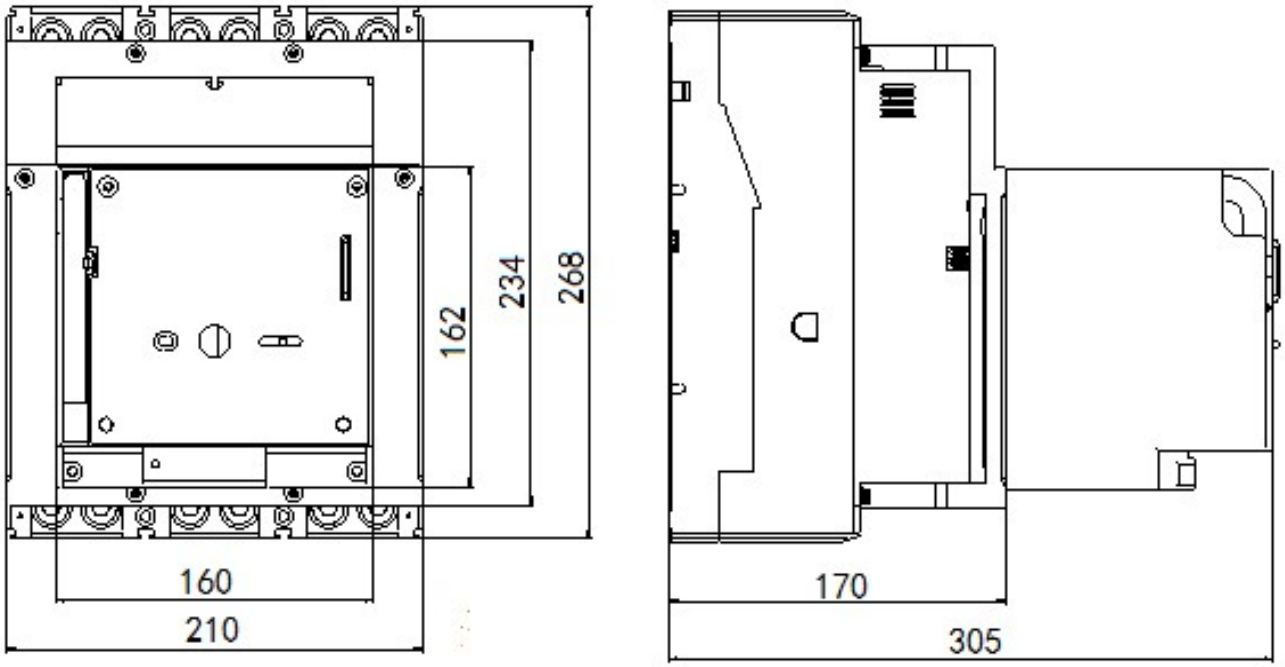
External Dimension Diagram of Manual Operation

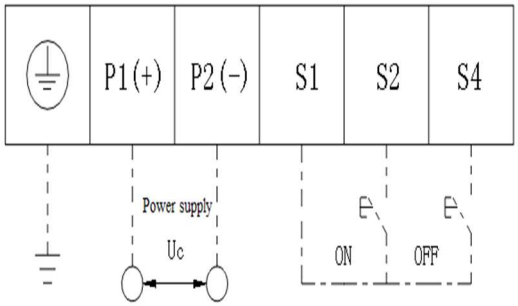


Handle Mounting Hole Diagram

8.6 Electric operating mechanism

Electric operation-the external dimensions of the circuit breaker and its electric operating mechanism installed:





Note: For manual operation, operate it 180° in the clockwise direction while operation in the counterclockwise direction is prohibited;
For electric operation connection, it is prohibited to connect P1 and P2 with S1, S2 and S4.

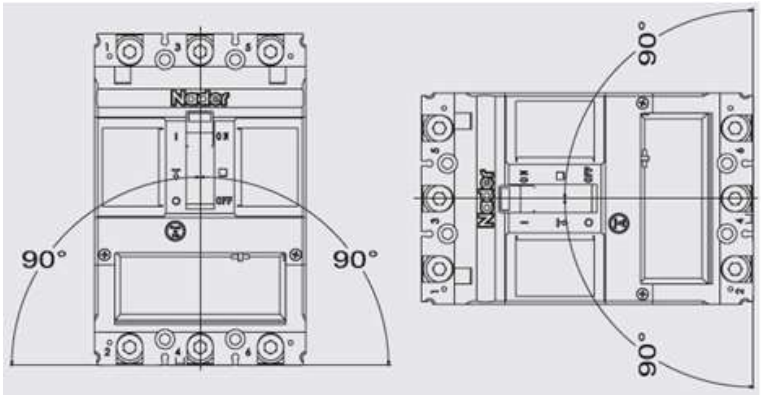
Table 16 Voltage Specifications and Power of Electric Operation

Accessory name	Electric operating mechanism			
Voltage specifications	DC24V	AC110V/DC110V	AC230V/DC220V	AC400V
Power	240W	400W	400W	400W

9. Installation Direction of Circuit Breaker

For vertical installation of the product, the gradient between the installation surface and the vertical plane is no more than ±5°.

Horizontal installation of the product.



Vertical Installation Horizontal Installation

10. Packaging and Storage of Circuit Breaker

Minimum packaging quantity: 1 piece/box. The packaged products should be stored in a warehouse with the air ventilation and the relative humidity no more than 80% when the ambient temperature is -40℃~+75℃. No acidic alkaline or other corrosive gas exists in the ambient air in the warehouse. Under the conditions above, the storage period shall be no more than three years since the manufacturing date.

11. List of Accessories and Installation

SN	Name	Specification	3P Quantity/Set	4P Quantity/Set
1	Cross small pan-head screw	M5×100	4	4
2	Hexagon nut	M5	4	4
3	Spring washer	5	4	4
4	Plain washer	5	4	4
5	Phase partition	——	4	6
6	Ground partition	——	2	2
7	Extended handle	——	1	1
8	Terminal screw*	see Table 8*	12	16

Note：Terminal screw see Table 8 Wiring Copper Bar Thickness and Screw Length.

12. Circuit Breaker Notes

1) Various characteristics and accessories of the circuit breaker are set in the factory. The circuit

breaker, tripping unit or other accessories can only be adjusted, installed and maintained by the trained or qualified professionals according to the parameter requirements of the line design;

2) Ensure that the power supply is off before installing or removing any device;

3) The circuit breaker handle can be located in three positions, indicating three states: on, off and free tripping. When the handle is in the free tripping position, pull the handle in the off direction when the circuit breaker is connected and on.