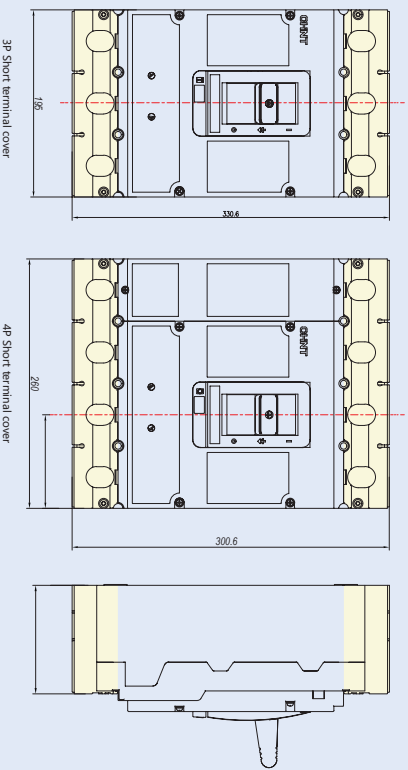
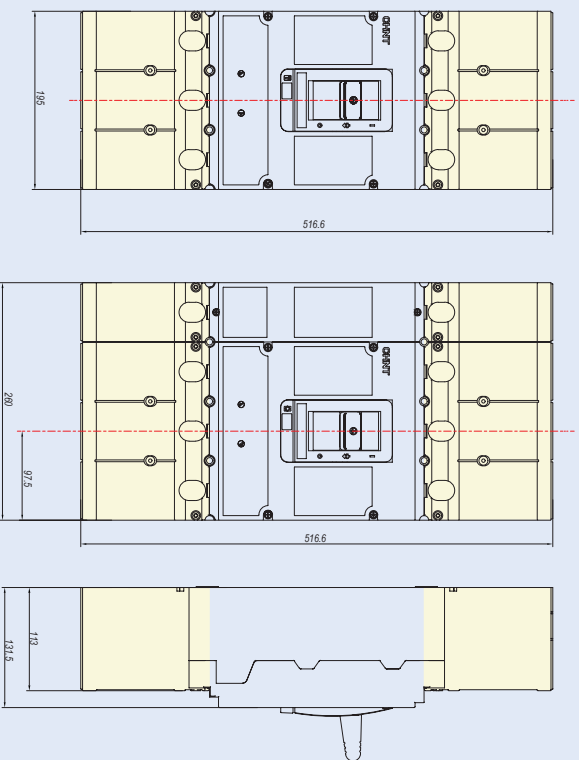


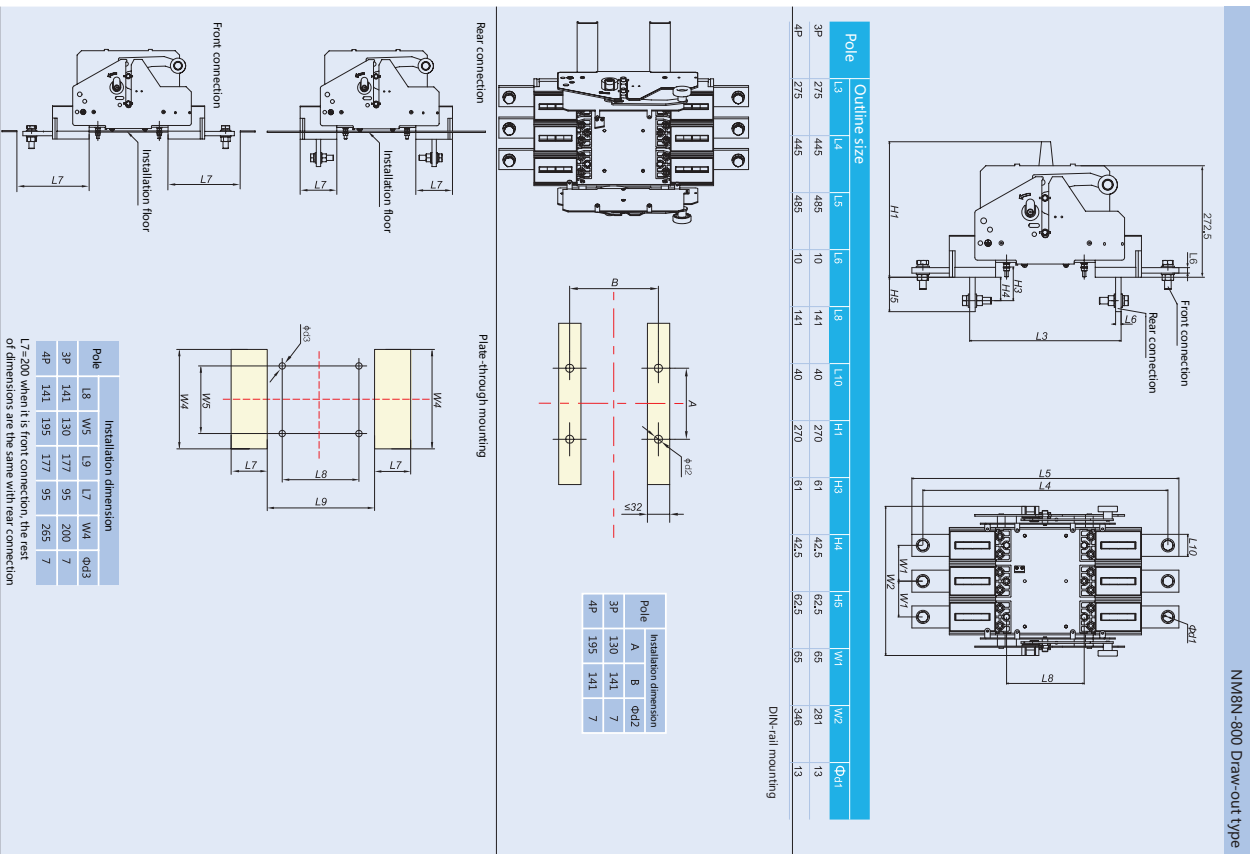
NM8N-800 Mechanical Interlock



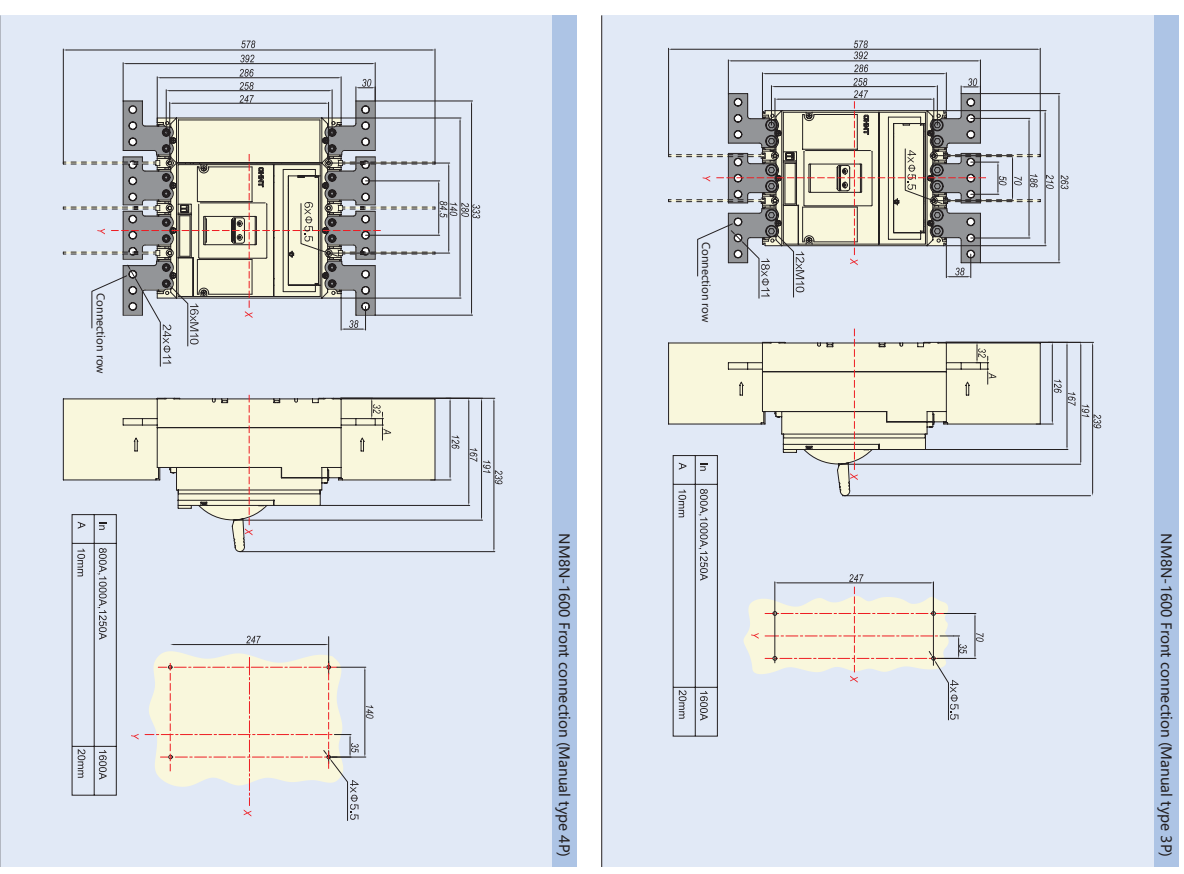
NM8N-800 Short terminal cover

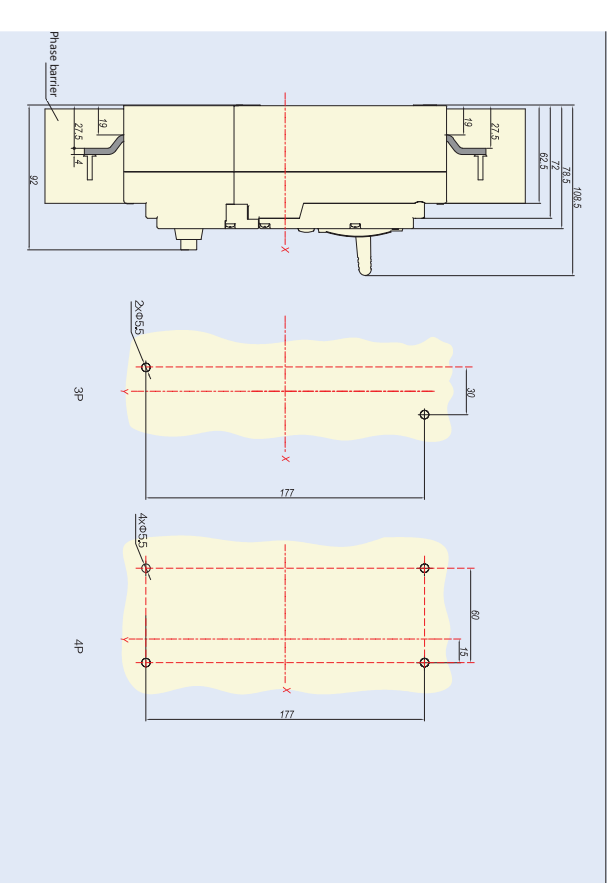
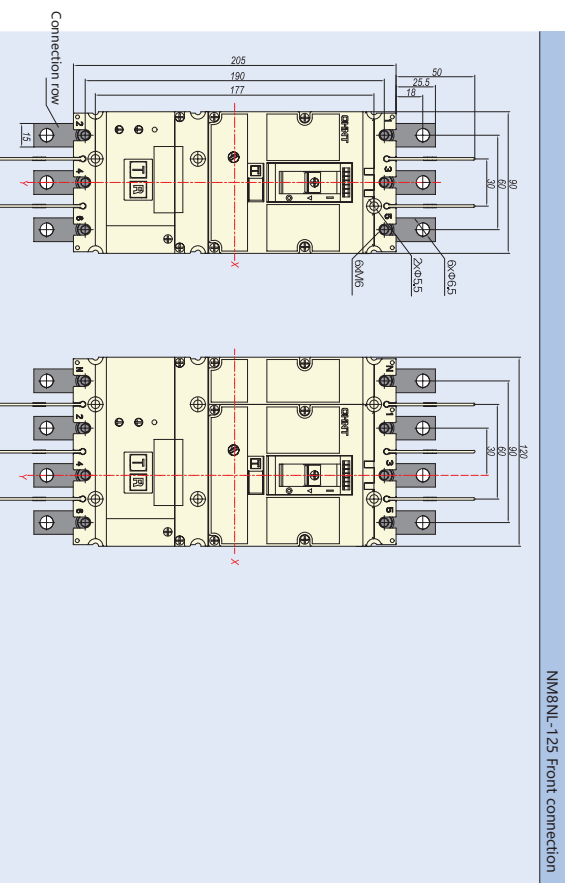
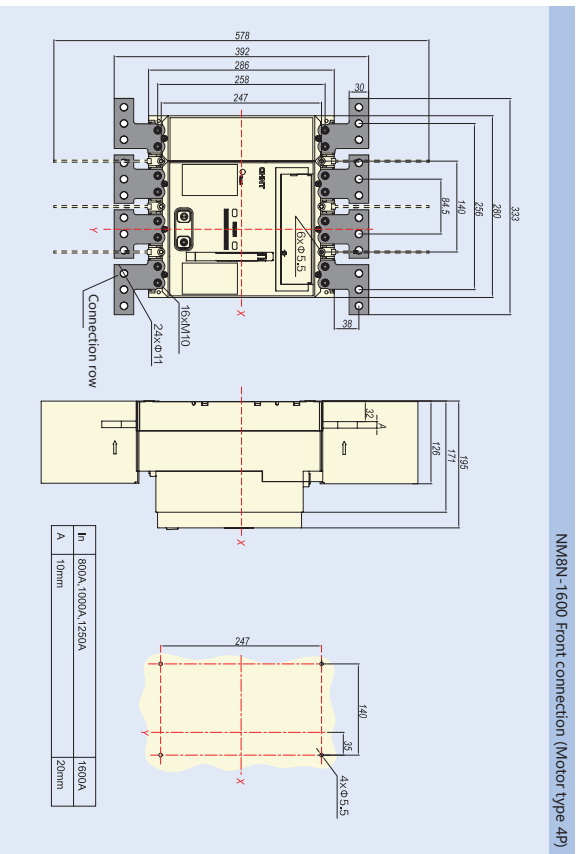
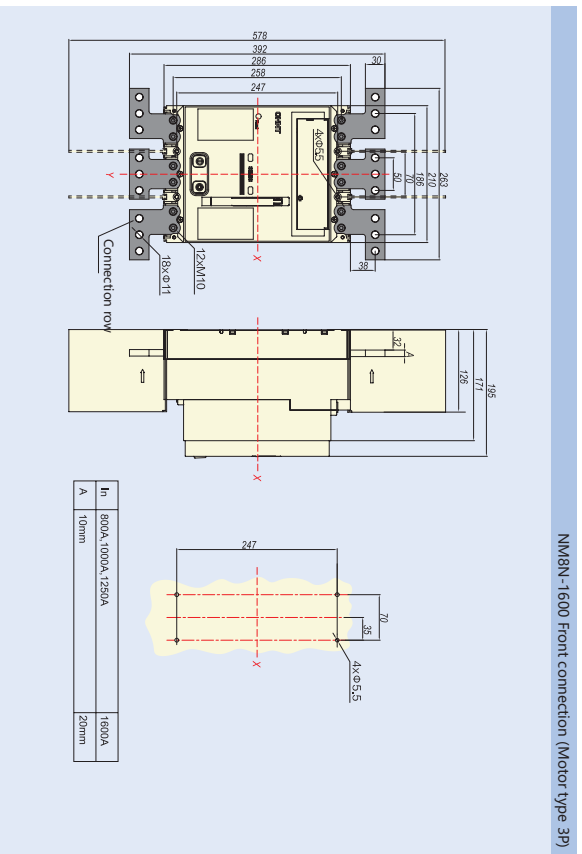


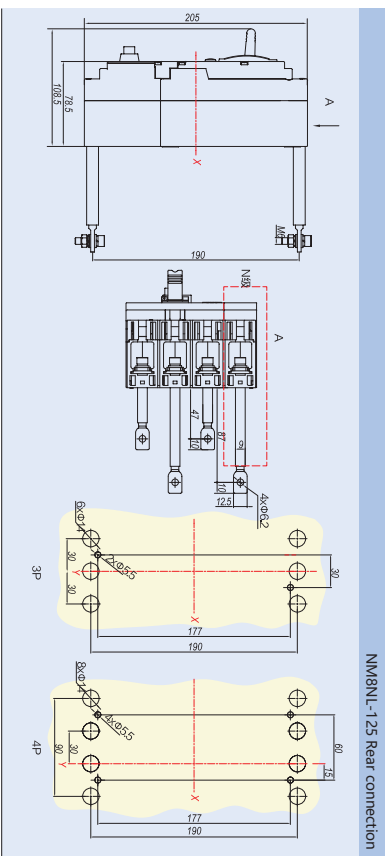
NM8N-800 Long terminal cover



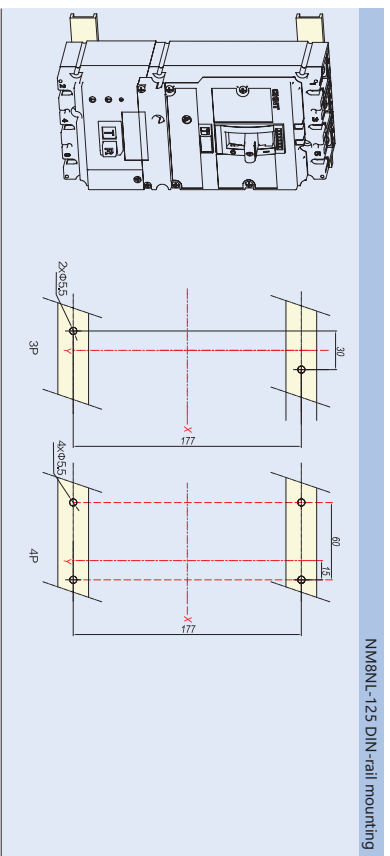
8.5 NM8N-1600



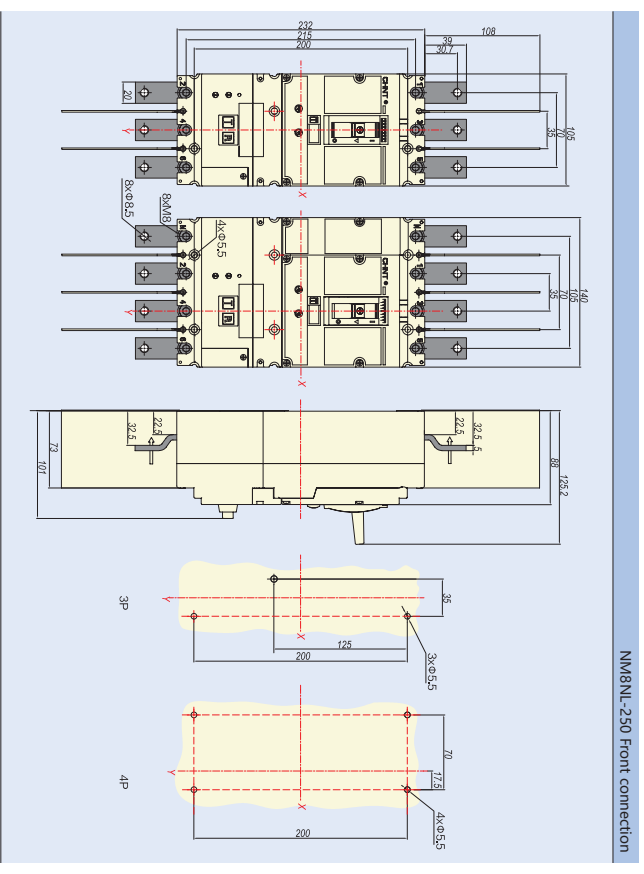




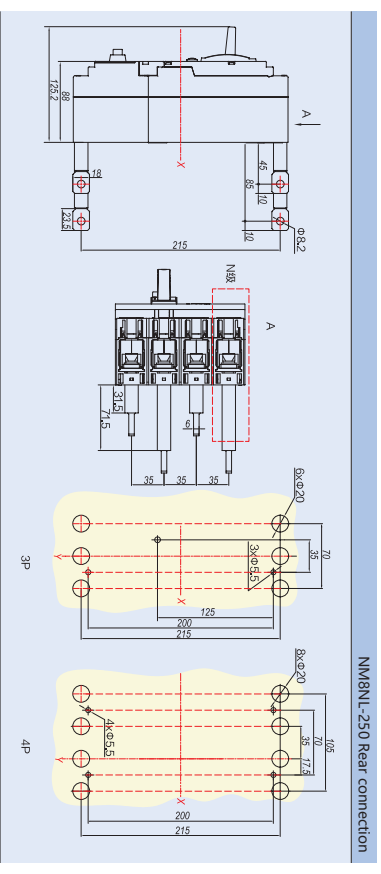
NM8NL-125 Rear connection



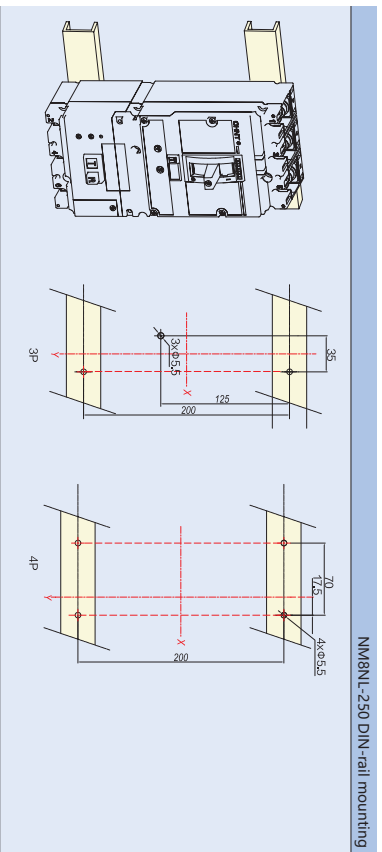
NM8NL-125 DIN-rail mounting



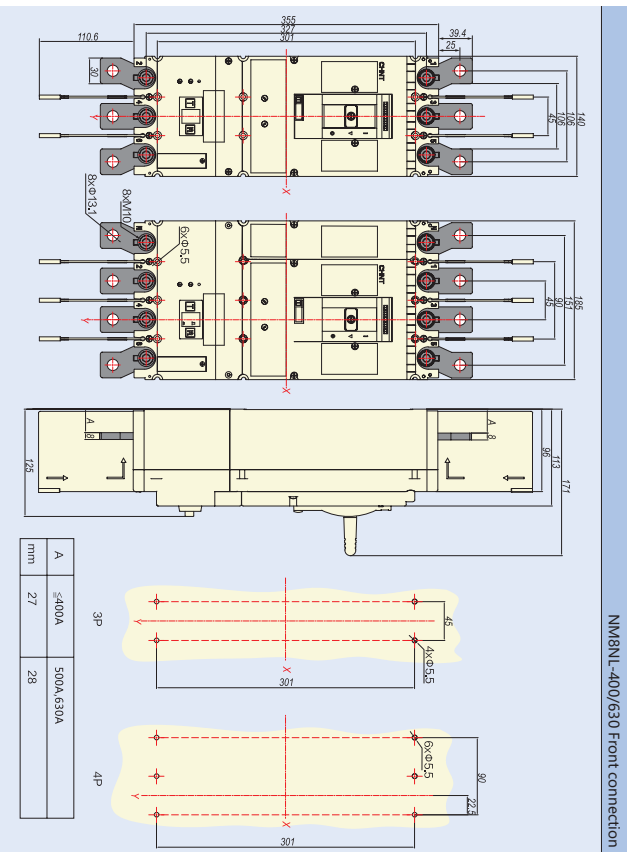
NM8NL-250 Front connection



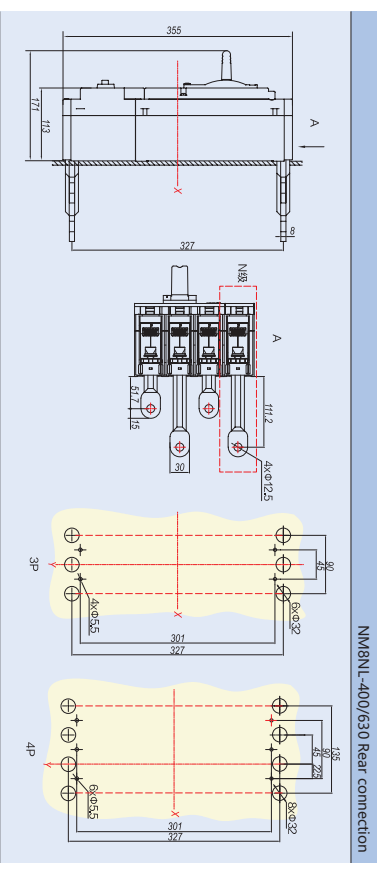
NM8NL-250 Rear connection



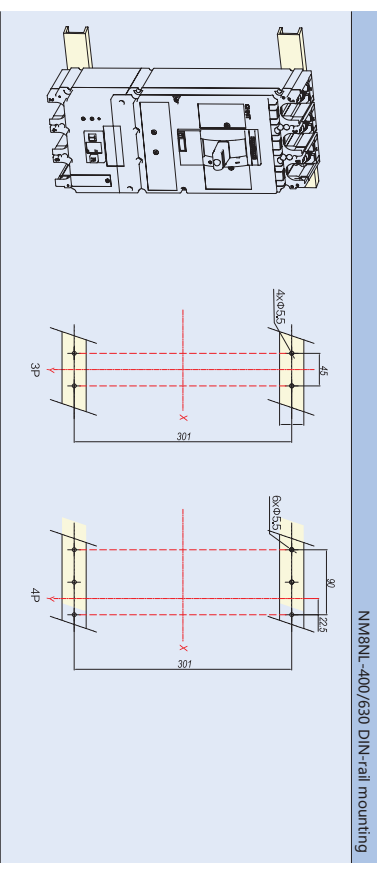
NM8NL-250 DIN-rail mounting



NM8NL-400/630 Front connection

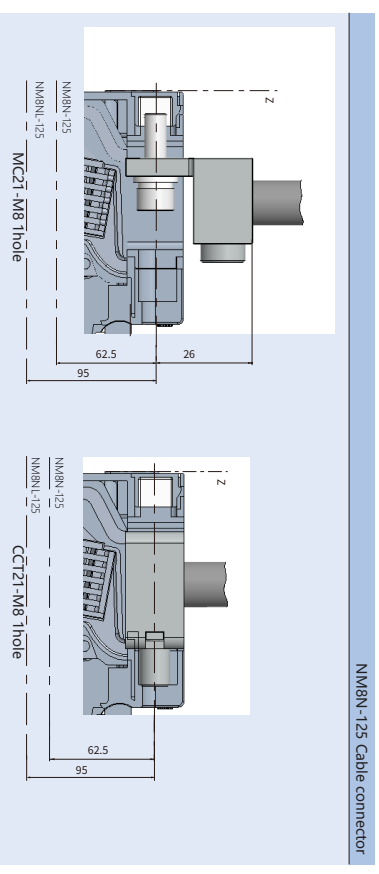


NM8NL-400/630 Rear connection

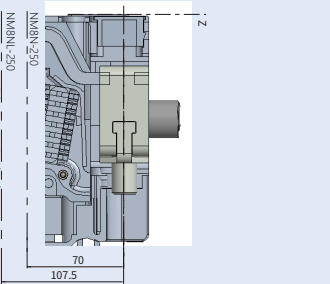


NM8NL-400/630 DIN-rail mounting

8.7 NM8N Wiring diagram



NM8N-125 Cable connector

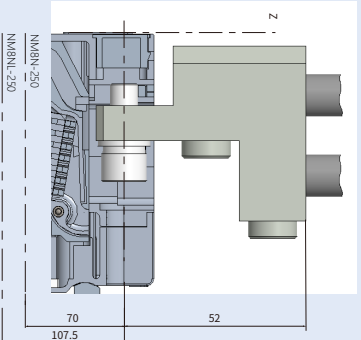


CCT22-M8 1 hole

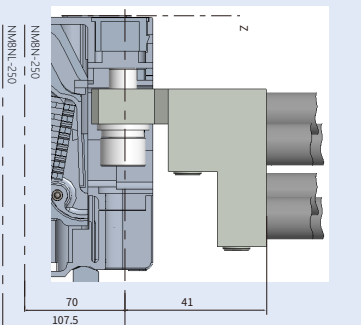


MC22-M8 1 hole

NM8N-250 Cable connector

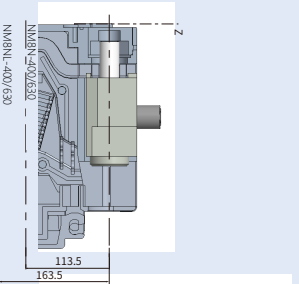


MC22-M8 2 hole

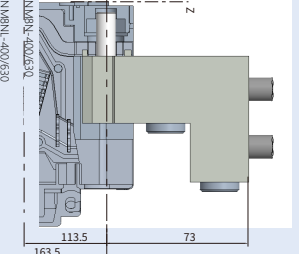


MC22-M8 6 hole

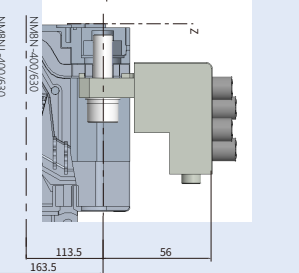
NM8N-250 Cable connector



CCT23-M8 1 hole

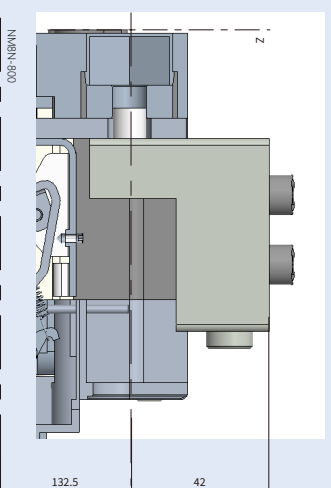


MC23-M8 2 hole



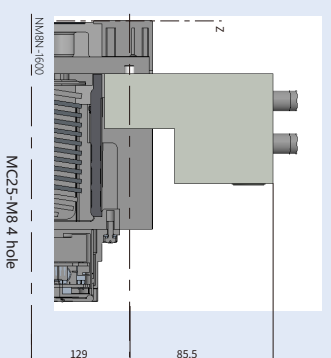
MC23-M8 4 hole

NM8N-630 Cable connector

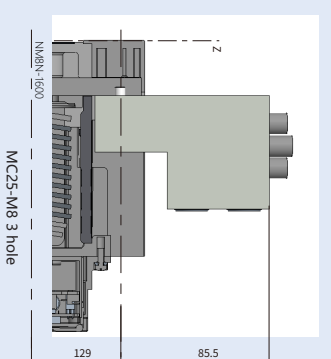


MC24-M8 2 hole

NM8N-800 Cable connector



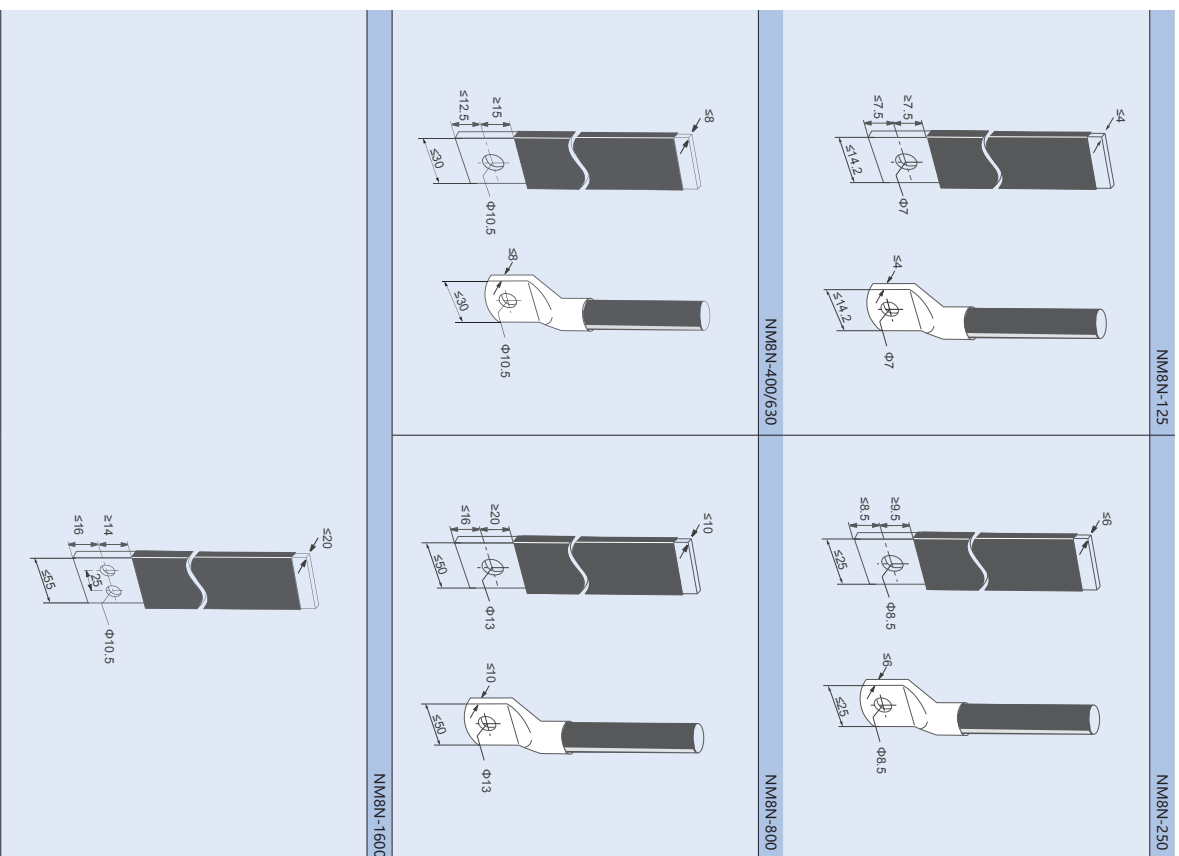
MC25-M8 4 hole



MC25-M8 3 hole

NM8N-1600 Cable connector

8.8 Wiring



9 Accessories characteristics and installation

NM8N moulded case circuit breaker has various accessory modules, which can be found in P84 for more details

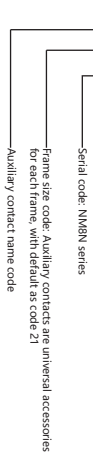
9.1 AX Auxiliary contact

9.1.1 Function

Remotely indicate the circuit breaker's making (on) or breaking / tripping (OFF) status, connected to the auxiliary circuit of the circuit breaker.

9.1.2 Model description

AX 21-M8

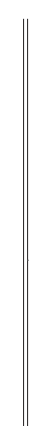


9.1.3 Indication of circuit breaker status

Circuit breaker is at breaking status



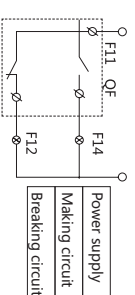
Circuit breaker is at making status



9.1.4 Electrical characteristics

Rated Voltage (V)	Rated current (A)	DC-13
AC-15	5	—
AC 110	4	—
AC 240	2	—
AC 415	—	0.25
DC 110	—	0.25
DC 220	—	0.25

9.1.5 Wiring diagram





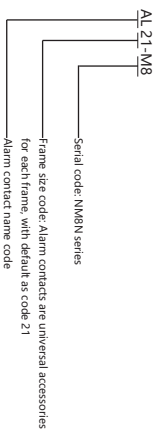
9.2 AL Alarm contact

9.2.1 Function
It is mainly used to provide a signal when the load of the circuit breaker is overloaded, short-circuited or under-voltage, or tripped.

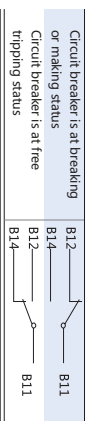
The reasons for the failure of the alarm signal are:

- Over-load or short-circuit
- Under-voltage trip
- Residual current action trip
- Manual free trip

9.2.2 Model description



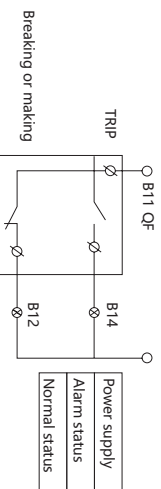
9.2.3 Indication of circuit breaker status



9.2.4 Electrical characteristics

Rated voltage (V)	Rated current (A)
AC15	DC13
AC110	5
AC240	4
AC415	2
DC110	—
DC220	025

9.2.5 Wiring diagram

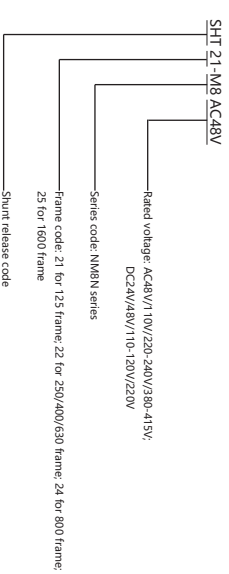


9.3 SHT Shunt release

9.3.1 Function

Shunt releases operate according to electrical signals, enabling remote control and automatic control of circuit breakers. When the supply voltage When the voltage is equal to any voltage between 70% and 110% of the rated control power supply voltage, the shunt release should enable the circuit breaker to operate reliably.

9.3.2 Model description



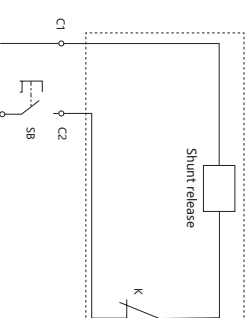
9.3.3 Electrical characteristics

Frame size	Power consumption (W)							
	AC48V	AC110V	AC220-240V	AC380-415V	DC24V	DC48V	DC110-120V	DC220V
125A	2.2	2.2	2	2.5	2.5	2.2	2.2	2
250/400/630A	2.3	2.5	2.2	2.5	2.2	2.2	2.5	2.5
800A	2.3	2.5	2.2	2.5	2.2	2.5	2.5	2.5
1600A	110	195	480	560	230	110	95	160

9.3.4 Action characteristics

Can be powered for a long time. Response time: pulse type $\geq 20\text{ms}$, $\leq 60\text{ms}$

9.3.5 Wiring diagram



Note: When the rated control power supply voltage DC24V shunt release is used, the maximum length of the copper wire (each of the two wires) must meet the following table:

Rated control supply voltage(U _c ,DC24V)	Conductor cross-sectional area	
	1.5mm ²	2.5mm ²
100%U _c	15.0m	2.50m
85%U _c	10.0m	1.60m

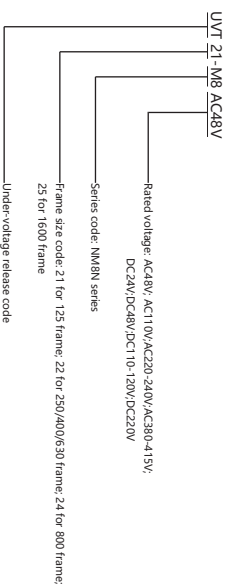


9.4 UVT Under-voltage release

9.4.1 Function

Realize the under-voltage protection function of the circuit breaker, open the circuit breaker when the power supply voltage is too low, and protect the electrical equipment.

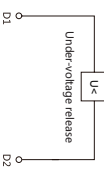
- When the supply voltage drops (even slowly) to 70% to 35% of the rated control supply voltage, the undervoltage trips. The breaker should open the circuit breaker reliably.
- When the supply voltage is equal to or greater than 85% of the rated control supply voltage of the undervoltage release, the circuit breaker should be guaranteed to close.
- When the supply voltage is less than 35% of the rated control supply voltage of the undervoltage release, the undervoltage release should prevent the circuit breaker



9.4.3 Electrical characteristics

Frame size	Power consumption (W)							
	AC48V	AC110V	AC220V/240V	AC380-415V	DC24V	DC48V	DC110-120V	DC220V
125A	1.6	1.6	2	3	1.2	1.6	2	2.2
250/400/630A	1.5	1.5	2.2	3	0.8	1.5	2	2.5
800A	1.5	1.5	2.2	3	0.8	1.5	2	2.5
1600A	2.6	2.2	1.7	0.7	2.8	2.5	2.2	1.8

9.4.4 Wiring diagram



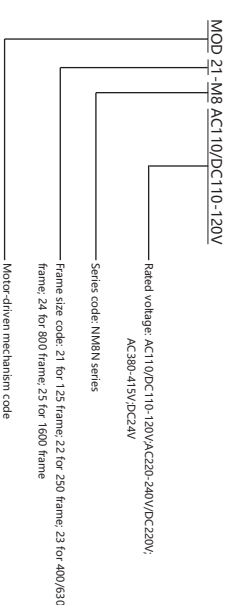
9.5 MOD Motor-driven mechanism

9.5.1 Function

It is suitable for closing, opening and re-opening of circuit breakers at long distances, as well as automation applications.

- A: Protection level: IP40
 - Reliable insulation;
 - With isolation function indication;
 - O (open), I (closed) and free trip 3 position indications;
 - Free circuit breaker trip;
 - Manually or automatically operated circuit breakers for closing and opening.
- B: manual operation
Pull the "manual / auto" switch to the manual position and turn the operation handle to switch on and off the circuit breaker.
- C: automatic operation
Pull the "manual / auto" switch to the automatic position, and remotely press the "close or open" button to switch on and off the circuit breaker.
- D: Automatically switch on or off by pulse or self-holding signal control.
- E: Only when the control voltage is $\geq 85\% U_n$ and $\leq 110\% U_n$ can the circuit breaker be reliably switched on and off.

9.5.2 Model description



Note: The 1600 frame motor-driven mechanism is assembled in the factory and is suitable for electronic circuit breakers and disconnectors according to the inside of the circuit breaker.

9.5.3 Electrical characteristics

Frame size	Rated operational voltage	Life(CO recycle)	Power consumption	Action current	Making duration	Breaking duration	Minimum duration of ON (OFF) signal pulse
125A	AC110V/DC110-120V	10000	150 VA	$\geq 3A$	$\leq 500ms$	$\leq 500ms$	300ms
250A	AC110V/DC110-120V	10000	150 VA	$\geq 3A$	$\leq 500ms$	$\leq 500ms$	300ms
400/630A	AC220-240V/DC220V	8000	300 VA	$\geq 3A$	$\leq 1000ms$	$\leq 1000ms$	300ms
800A	AC380-415V/DC24V	4000	300 VA	$\geq 3A$	$\leq 1000ms$	$\leq 1000ms$	300ms
1600A		7000	75VA	$\geq 3A$	$\leq 1000ms$	$\leq 1000ms$	300ms

9.5.4 Wiring diagram

