



NM8N HIGH VOLTAGE SERIES

Moulded Case Circuit Breaker



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1.General

This NM8N High-voltage (HV) Series Molded Case Circuit Breaker is specially designed for handling high-voltage electrical system, capable to break heavy loaded electrical circuit systems under wide range of operating temperature of - 40 $^{\circ}$ C $_{\sim}$ + 70 $^{\circ}$ C . The characteristics of this Circuit Breaker is its capability to break circuit with zero arcing, which is an ideal component for meeting the requirements of many systems such as the solar (PV) power generation system. This Circuit Breaker works perfectly up to the maximum working voltage of AC 1150V, which can effectively protects electrical systems like the output loading of the string Inverters, and others such as the loading capacity of the AC combiner box in the photovoltaic systems.

2. Operating conditions

2.1 Temperature:

Operating and storage temperature is -40° C~+70° C; the average value

within 24 hours does not exceed +35° C; when the ambient temperature is

-40° C~+70° C, users need to consider derating or temperature compensation

whose details can be referred to in Page

2.2 Altitude: ≤ 2000m:

2.3 Pollution grade: Grade 3;

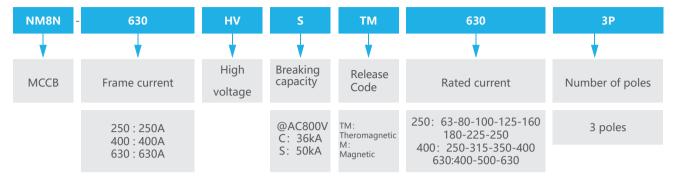
2.4 IP grade: IP40

2.5 Air conditions:

At mounting site, relative humidity not exceed 50% at the max temperature of +40 $^{\circ}\text{C}$, higher relative humidity is allowable under lower temperature. For example, RH could be 90% at +20 °C, special measures should be taken to occurrence of dews.

3. Type designation

Model fast selection guide



Note: example of model purchase

NM8N-630 HV S TM 630 3P

This means to order an NM8N high voltage (HV) series, with 630 frame, breaking capacity of 50kA, thermomagnetic power distribution protection type, rated working current 630A, 3 poles AC moulded case circuit breaker.

4. Technical data

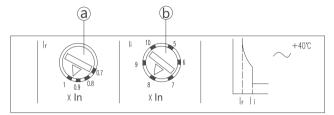
| Model | | NM8N-250HV | | NM8N-400HV | | NM8N-630HV | |
|----------------------|-----------------------------|--|------------------|-----------------|------------|-------------|----|
| Frame Current | Inm(A) | 250 | | 400 | | 630 | |
| Rated Current | In (A),40°C | 63-80-100-125-160 | -180-200-225-250 | 250-315-350-400 | | 400-500-630 | |
| Insulation Volta | age Ui (V) | | | 1250 | | | |
| Rated impulse | withstand voltage Uimp (kV) | 8 | | 12 | | 12 | |
| Rated Voltage | Ue (V) | | | 690/800/ | /1000/1150 | | |
| Number of Po | les | | | 3P | | | |
| Breaking Capa | acity | С | S | С | S | С | S |
| | AC690V | 50 | 80 | 50 | 80 | 50 | 80 |
| Rated Ultimate | AC800V | 36 | 50 | 36 | 50 | 36 | 50 |
| Breaking | AC1000V | 15 | 30 | 25 | 35 | 25 | 35 |
| Capacity Icu (kA) | AC1150V | 10 | 10 | 10 | 10 | 10 | 10 |
| | AC690V | 50 | 80 | 50 | 80 | 50 | 80 |
| Rated Service | AC800V | 36 | 36 | 36 | 50 | 36 | 50 |
| Breaking | AC1000V | 15 | 15 | 15 | 20 | 15 | 20 |
| Capacity Ics (kA) | AC1150V | 10 | 10 | 10 | 10 | 10 | 10 |
| Release type | 2 | TM (Theromagnetic type) ,M (Magnetic type) | | | | | |
| Mechanical | Durability | 15000 | | 15000 | | 15000 | |
| Electrical du | Electrical durability 1500 | | 1500 | | 1500 | | |
| Outline | Width | 106 | | 140 | | 140 | |
| sizes | Height | 200 | | 250 | | 250 | |
| | Depth | 120 | | 135 | | 135 | |



5. Release

5.1 Theromagnetic type Release (TM)

The setting value of Theromagnetic type Release (TM) of NM8N-250HV, 400HV and 630HV High-voltage (HV) Series Molded Case Circuit Breakers can be adjusted to meet the protection requirements.



Theromagnetic Release Data Sheet

| Theromagnetic type Release (TM) | 250 | 400 | 630 | | | |
|--|--|-----------------|-------------|--|--|--|
| Number of Poles | 3P | | | | | |
| Current specification | 63-80-100-125-160-180-200-225-250 | 250-315-350-400 | 400-500-630 | | | |
| Over-load Protection | | | | | | |
| Current setting (A) | 07.00.0040 | | | | | |
| Ir=InX Accuracy | 0.7-0.8-0.9-1.0 | | | | | |
| Short-circuit Instantaneous Protection | | | | | | |
| Current setting (A) | 10(63A ~ 100A) | 5.6.7.0.0.40 | | | | |
| li=InX | 7-8-9-10-11-12(125A ~ 160A) 5-6-7-8-9-10(180A ~ 250A) | 5-6-7-8-9-10 | | | | |
| Accuracy (%) | ±20 | | | | | |

5.2 Magnetic type Release (M)

5.2.1 Motor Startup Characteristics

Most of power motors adopt three-phase asynchronous induction motors (AIM) design for various applications in the industry. Most AIMs use direct startup strategy known as the Full-Voltage starting, which starts the motor by feeding unlimited electric power directly into the motor. The asynchronous motor needs a very large startup current in the range of approximate 4 - 7 times of the rated current to kick start the motor, the high current is needed due mainly to the inertia of the motor when it is kick started from its idle state. Although the revolving speed of the rotor cannot reach its normal rated speed instantaneously during the kick-starting stage, the relatively high speed of the rotor windings cuts the magnetic field at a high speed, thus producing very large current in the motor system. This large current in the rotor induces a large magnetic field which in turn interacts with the stator winding, resulting in a rapidly increase of current loading in the system.

5.2.2 Startup Parameters

Rated Current (In): The rating of the electric current of the motor under normal operation.

Startup Current (Id): The start up current of the motor which is rated at an average of 7.2xIn, dependent on the operation conditions. Startup Peak Current (Id'): The transient current during the first two half cycling waves after the motor is powered up is generally in the order of 14xIn.

Startup Time (td): The startup time for starting the motor from idle to fully operation stage is generally approximate 0.5s - 20s.

5.2.3 The Important Roles of the Protection Device in the Direct Startup System

When the conventional tripping current of the magnetic Release is not set properly in the electric rotor system, the Circuit Breaker may operate mistakenly by considering the large startup current of the motor as the system is in the short-circuit state. Similarly, the heat that has been generated by the large startup current during the kick start state of the motor, will cause the thermal relay to trip off the system mistakenly. In the case of a contactor system it is necessary to ensure the current can be disconnected from the motor during the startup stage, especially when the motor needs an electric or regenerative braking capability. This can be achieved by reducing the capacity of the system generally. Hence to avoid the misoperation of protection device within the motor system that caused by the influence of the start up current, the following conditions are advised to follow:

- --To ensure the entire inverse time characteristic curve of the independent thermal relay well above the start up current.
- --To ensure the short-circuit current trip setting of the Circuit Breaker that with magnetic protection capacity, should be greater than the peak startup current of the motor.

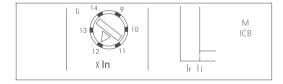
5.2.4 Protection Scheme

This NM8N-HV Series Product has been designed for providing solutions for the starting up, to control and to protect all different variants of three-phase asynchronous motor systems.

Three elements protection adopts: electromagnetic Protection Circuit Breaker + Contactor + Thermal Relay

Electromagnetic Protection Circuit Breaker can be used for short-circuit protection, the Contactor can be used for motor operation, and the Thermal Relay can be used for system overload, phase loss and phase imbalance protections.

The current range of Electromagnetic Protection Circuit Breaker is 63-630A, the adjustable range is 9~14In, and the accuracy is 20%. It is especially suitable for application in the classical three elements protection scheme.

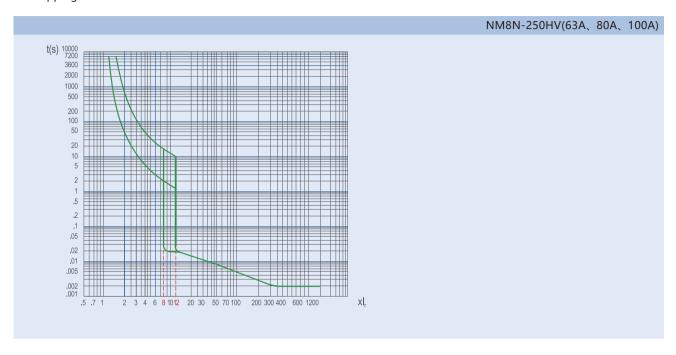


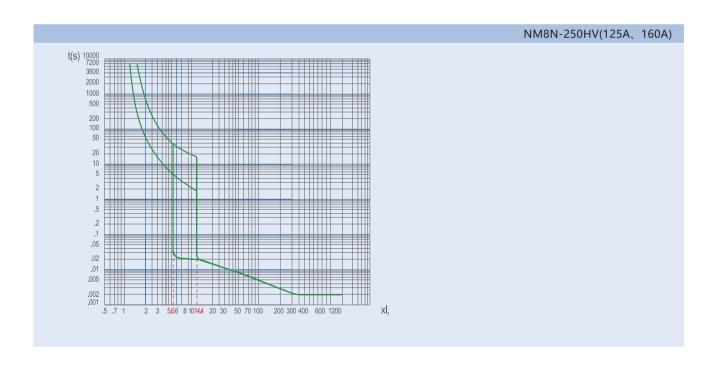
Magnetic Release Data Sheet

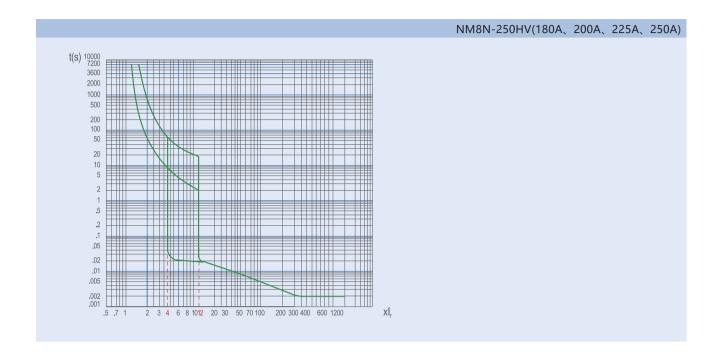
| Magnetic type Release (M) | 250 | 400 | 630 |
|--|-------------------------------|------------------|-----|
| Number of Poles | 3P | | |
| Short-circuit Instantaneous Protection | | | |
| Current setting (A) | 12(63A ~ 100A) | 0.40.41.40.40.41 | |
| li=InX | 9-10-11-12-13-14(125A ~ 250A) | 9-10-11-12-13-14 | |
| Accuracy (%) | ±20 | | |

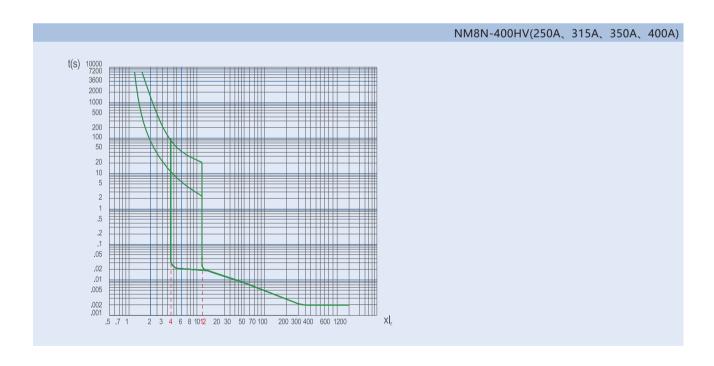
6.Tripping Curve

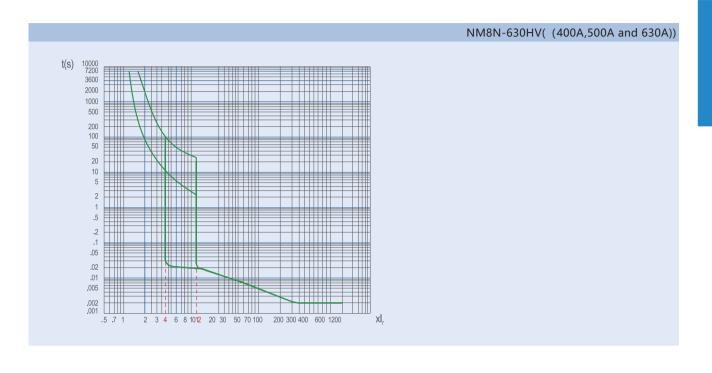
6.1 Tripping Characteristic Curve of Power distribution Protection



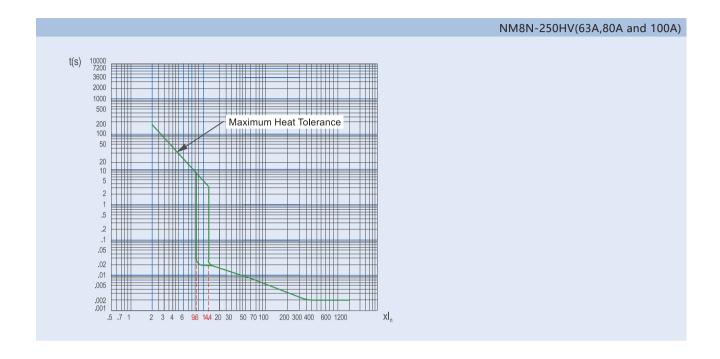


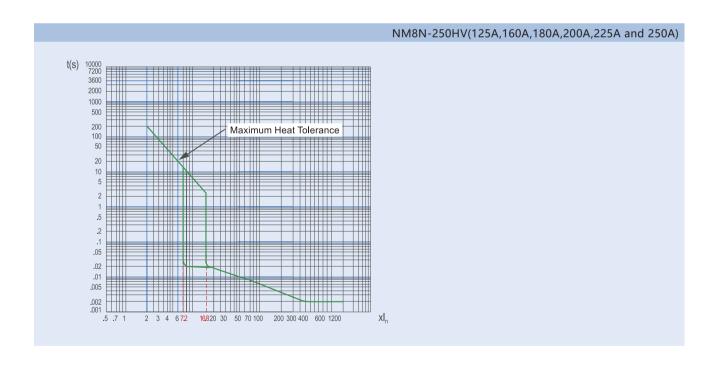


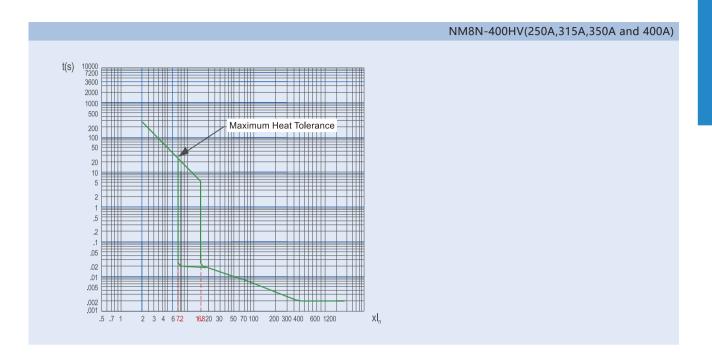


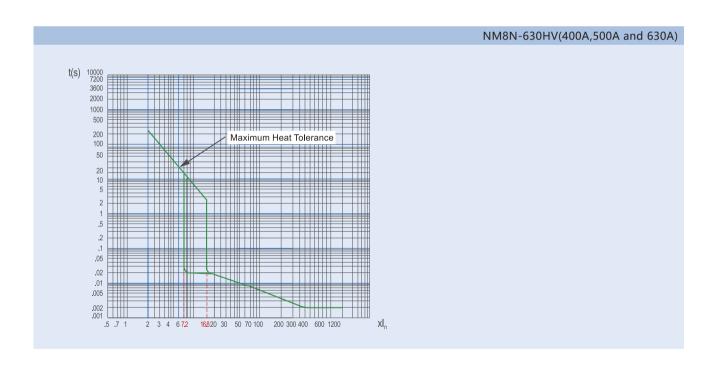


6.2 Tripping Characteristic Curve of Motor Protection

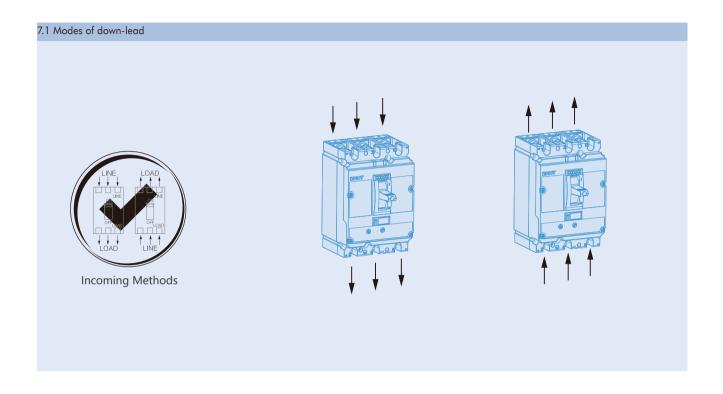


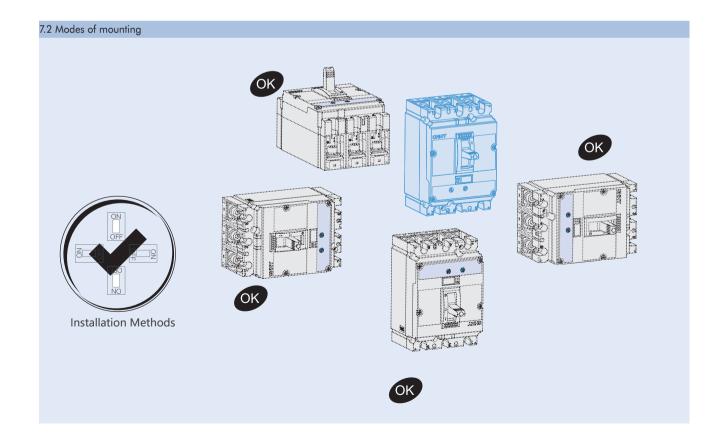




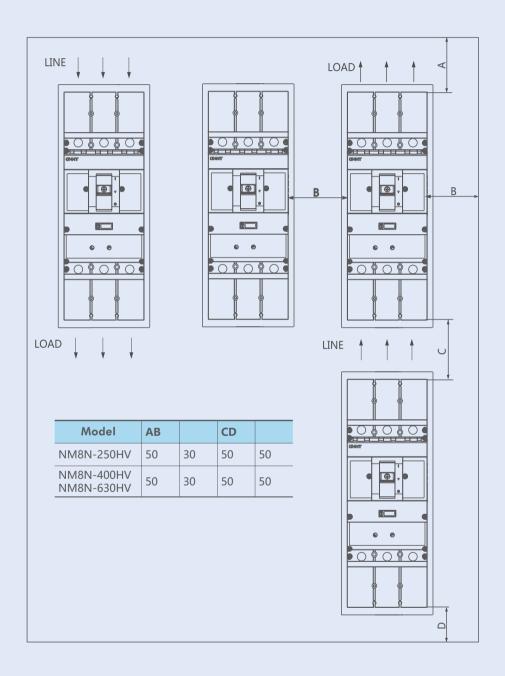


7. Mounting of circuit breaker





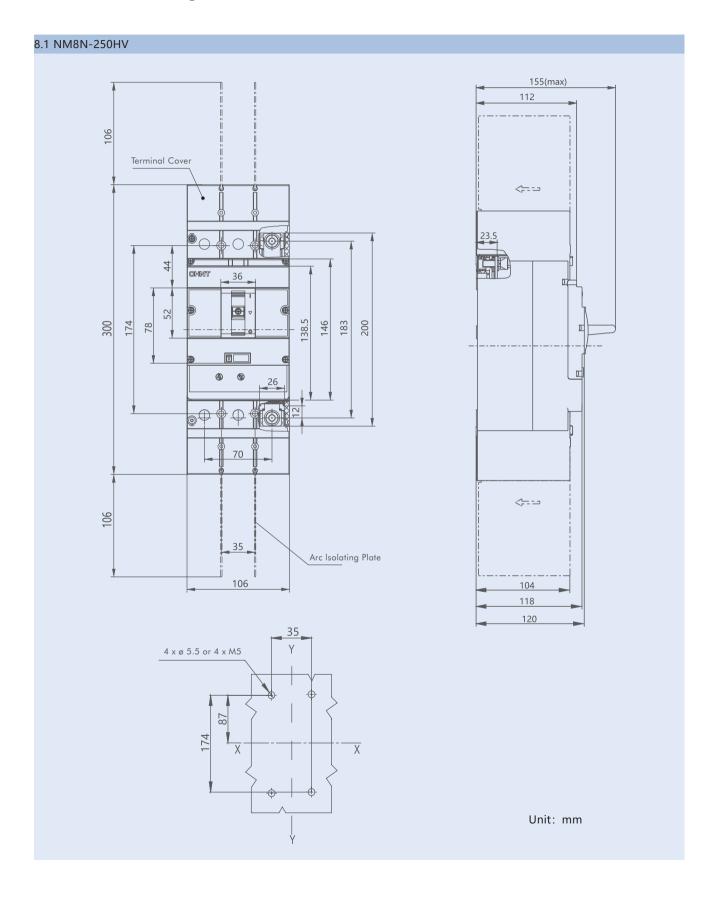
7.3 Safe distance



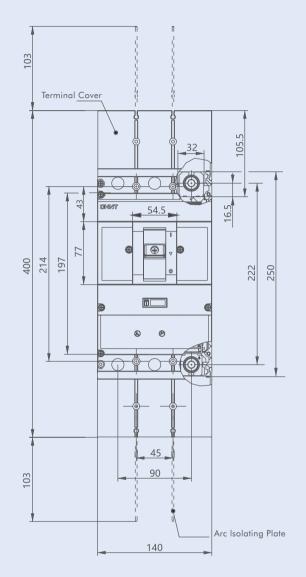


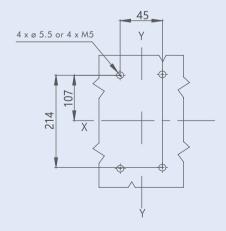
Minimum Mounting distance must be ensured.

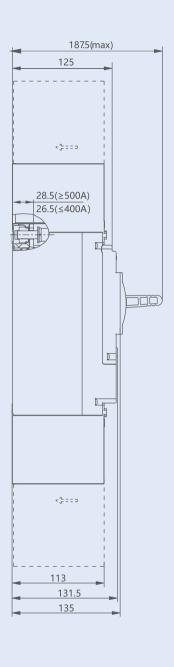
8. Overall and Mounting Dimensions



8.2 NM8N-400/630HV



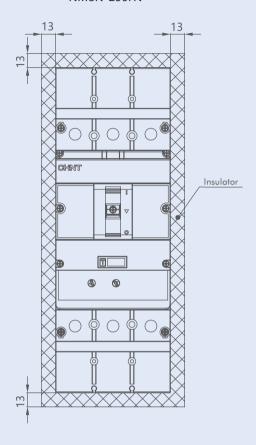




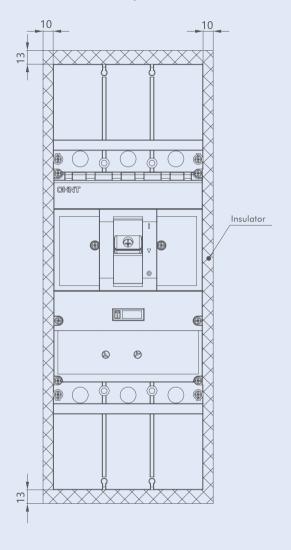
Unit: mm

8.2 NM8N-400/630HV

NM8N-250HV

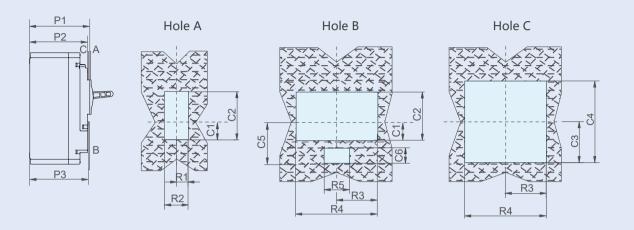


NM8N-400/630HV

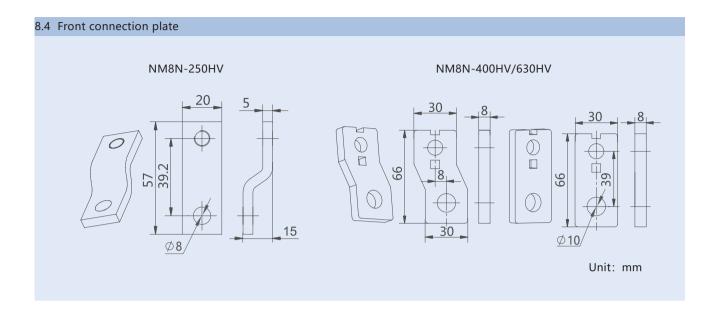


Unit: mm

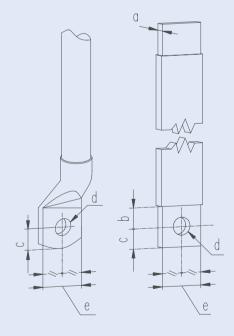
8.3 Panel front hole opening



| at . | Size code | Product Model | | | |
|--------------|-----------|---------------|------------------|--|--|
| Size type | | NM8N-250HV | NM8N-400HV/630HV | | |
| | P1 | 121 | 136 | | |
| | P2 | 112.5 | 126 | | |
| | P3 | 118.5 | 132 | | |
| | R1 | 18.5 | 28 | | |
| | R2 | 37 | 56 | | |
| | R3 | 53.5 | 70.5 | | |
| opening size | R4 | 107 | 141 | | |
| opeg 5.25 | R5 | 29 | / | | |
| | C1 | 9.5 | 13.5 | | |
| | C2 | 53 | 78 | | |
| | C3 | 73.5 | 99 | | |
| | C4 | 139.5 | 190 | | |
| | C5 | 35.5 | / | | |
| | C6 | 12 | / | | |



8.5 Wiring



Unit: mm

| Size | a | b | С | d | е |
|--------------------------|---|-------|--------|-------|------|
| NM8N-250HV | 6 | ≥ 9.5 | ≤ 12 | Ф8.5 | ≤ 25 |
| NM8N-400HV NM8N-630HV | 8 | ≥ 15 | ≤ 12.5 | Ф10.5 | ≤ 30 |

9. Accessories characteristics and installation

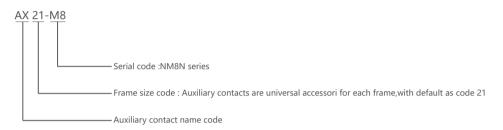
9.1 AX Auxiliary contact

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



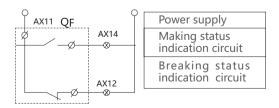
9.1.3 Circuit Breaker status indication

| Breaker is at breaking / free trip status | AX12AX11 |
|---|----------|
| Breaker is at making status | AX12AX11 |

9.1.4 Electrical characteristics

| Rated | Rated current (A) | | | | | |
|-------------|-------------------|------|--|--|--|--|
| voltage (V) | AC-15 DC-13 | | | | | |
| AC 110 | 5 | _ | | | | |
| AC 240 | 4 | _ | | | | |
| AC 415 | 2 | _ | | | | |
| DC 110 | _ | 0.25 | | | | |
| DC 220 | _ | 0.25 | | | | |

9.1.5 Wiring diagram



9.2 AL Alarm contact

9.2.1 Function

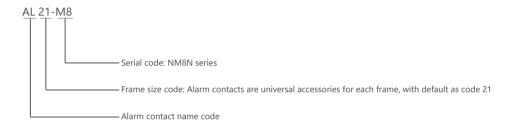


It is mainly used to provide a signal when the load of the circuit breaker is overloaded, short-circuited or undervoltage, or tripped.

The reasons for the failure of the alarm signal are:

- Over-load or short-circuit
- Undervoltage trip
- Manual free trip

9.2.2 Model description



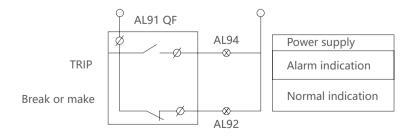
9.2.3 Circuit Breaker status indication

| Breaker is at breaking / Making status | AL92AL91 |
|--|----------|
| | AL94 |
| | AL92AL91 |
| Breaker is at free trip status | AL94 |

9.2.4 Electrical characteristics

| Rated | Rated current (A) | |
|-------------|-------------------|-------|
| voltage (V) | AC-15 | DC-13 |
| AC 110 | 5 | _ |
| AC 240 | 4 | _ |
| AC 415 | 2 | _ |
| DC 110 | _ | 0.25 |
| DC 220 | _ | 0.25 |

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 1 10% of the rated control power supply voltage, the shunt release should enable the circuit breaker to operate reliably.

9.3.2 Model description



Note: Shunt release of 400/630A frame and 250A frame is compatible.

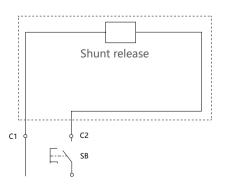
9.3.3 Electrical characteristics

| _ | Power lo | ` ′ | | | | | | |
|--------------|----------|--------|----------------|----------------|-------|-------|------------|--------|
| Frame | AC48V | AC110V | AC220- 240V | AC380- 415V | DC24V | DC48V | DC110-120V | DC220V |
| 250/400/630A | 2.3 | 2.5 | 2.2 | 2.5 | 2.2 | 2.5 | 2.5 | 2.5 |

9.3.4 Trip characteristics

Can be powered for a long time. Response time: pulse type > 20ms, <60ms

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:

| Conductor cross-sectional area voltageUs(DC24V) | 1.5mm² | 2.5mm ² |
|---|--------|--------------------|
| 100%U _s | 150m | 250m |
| 85%U₅ | 100m | 160m |

9.4 UVT Under-voltage release

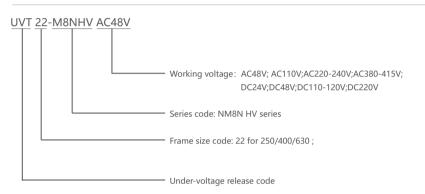
9.4.1 Function



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.

9.4.2 Model description

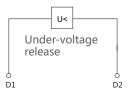


Note: Shunt release of 400/630A frame and 250A frame is compatible.

9.4.3 Electrical characteristics

| | Power loss (W) | | | | | | | |
|--------------|----------------|--------|----------------|----------------|-------|-------|----------------|--------|
| Frame | AC48V | AC110V | AC220- 240V | AC380- 415V | DC24V | DC48V | DC110- 120V | DC220V |
| 250/400/630A | 1.5 | 1.5 | 2.2 | 3 | 0.8 | 1.5 | 2 | 2.5 |

9.4.4 Wiring diagram



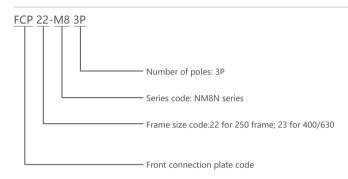
9.5 FCP front connection plate

9.5.1 Function

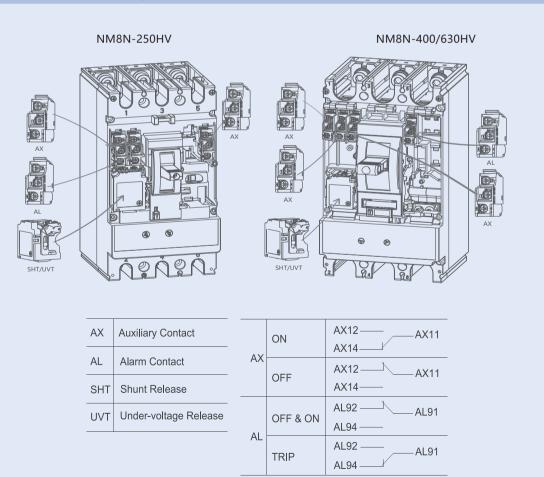


Make the circuit breaker have a flexible wiring mode. By installing this accessory, the pole spacing can be increased to increase the electrical gap between adjacent poles at the inlet and outlet ends of the circuit breaker and enhance the safety between lines.

9.5.2 Model description



9.5.3 Internal accessories installation diagram



9.6 CRH Extended rotary handle

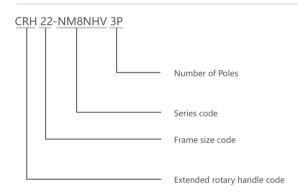
9.6.1 Function



Using a unique design driving structure, by rotating the handle to achieve the circuit breaker closing, switch and re-close operation.

- Three position indication includes O (open), I (closed) and free tripping;
- The circuit breaker can hang 1 to 3 padlocks at OFF position, with a diameter of 5 to 8 mm, thus, in order to prevent the circuit breaker to close and switch gear to open;
- When the circuit breaker is at ON position, cabinet door cannot open under the action of the rotating handle (cabinet door can be opened by the emergency unlocking device on the handle in emergency situation).

9.6.2 Model description

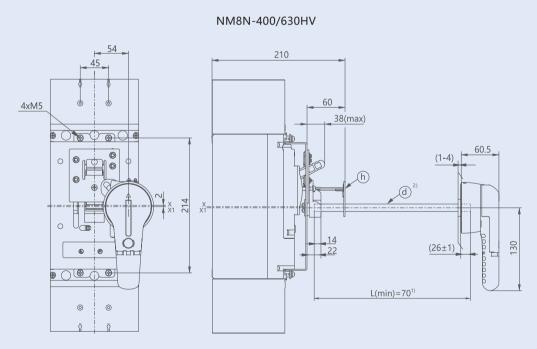


9.6.3 Handle size drawing

NM8N-250HV 195 4xM5 60.5 (1-4)14 130 (26±1) L(min)=50¹⁾

Note: 1) When L ≥ 150, in order to avoid the shaft sagging, h support plate need to be installed; When $50 \le L \le 90$, support plate is not needed;

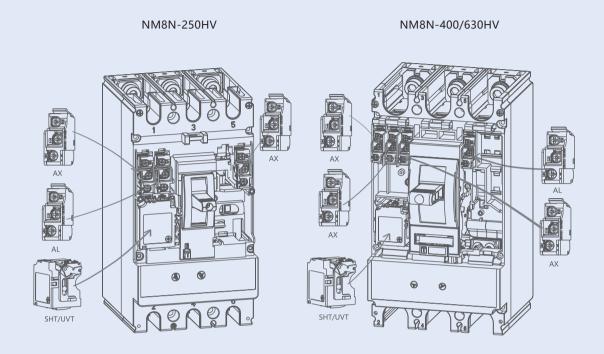
2) Standard length of rotating shaft L=320.



Note: 1) When $L \ge 150$, in order to avoid the shaft sagging, h support plate need to be installed; When $70 \le L \le 90$, support plate is not needed;

2) Standard length of rotating shaft L=260.

9.6.4 Installation diagram



| AX | Auxiliary Contact |
|-----|-----------------------|
| AL | Alarm Contact |
| SHT | Shunt Release |
| UVT | Under-voltage Release |

| | ON | AX12AX11 |
|----|----------|--------------|
| AX | OIV | AX14 |
| | OFF | AX12——AX11 |
| | 011 | AX14 |
| | OFF & ON | AL92 —— AL91 |
| ٨١ | OTT & ON | AL94 |
| AL | TRIP | AL92 —AL91 |
| | HMF | AL94 |
| | | |

10.Supplemented Technical Information

10.1 Power loss

| Altitude derating coefficient table | Product model Rated current (A) | Fixed breaker internal resistance per pole (mΩ) | Power loss per pole (W) | | |
|-------------------------------------|---------------------------------|---|-------------------------|--|--|
| | 63 | 1.7 | 6.7 | | |
| | 80 | 1.3 | 8.3 | | |
| | 100 | 0.88 | 8.8 | | |
| | 125 | 0.7 | 10.9 | | |
| NM8N-250HV | 160 | 0.55 | 14.1 | | |
| | 180 | 0.55 | 17.8 | | |
| | 200 | 0.55 | 22.0 | | |
| | 225 | 0.4 | 20.3 | | |
| | 250 | 0.4 | 25.0 | | |
| | 250 | 0.35 | 21.9 | | |
| | 315 | 0.25 | 24.8 | | |
| NIMONI 400UV/620UV/ | 350 | 0.25 | 30.6 | | |
| NM8N-400HV/630HV | 400 | 0.20 | 32.0 | | |
| | 500 | 0.12 | 30.0 | | |
| | 630 | 0.12 | 47.6 | | |

10.2 Temperature compensation coefficient table

| Air tempe | erature | -40°C | -35℃ | -25℃ | -15℃ | -5°C | -0°C | 10℃ | 20°C | 30°C | 40°C | 50°C | 60°C | 70°C |
|-------------|---------|-------|------|------|------|------|------|-----|------|------|------|------|------|------|
| | 63 | 88 | 86.5 | 83 | 80 | 77 | 75 | 72 | 69 | 66 | 63 | 58.5 | 53 | 46 |
| | 80 | 112 | 110 | 106 | 102 | 98 | 96 | 92 | 88 | 84 | 80 | 74.5 | 67 | 56 |
| | 100 | 140 | 137 | 132 | 127 | 122 | 120 | 115 | 110 | 105 | 100 | 93 | 84 | 80 |
| | 125 | 175 | 172 | 165 | 159 | 153 | 150 | 144 | 137 | 131 | 125 | 118 | 106 | 96 |
| NM8N-250HV | 160 | 224 | 220 | 212 | 204 | 196 | 192 | 184 | 176 | 168 | 160 | 152 | 136 | 120 |
| | 180 | 252 | 247 | 238 | 229 | 220 | 216 | 207 | 198 | 189 | 180 | 171 | 157 | 144 |
| | 200 | 280 | 275 | 265 | 255 | 245 | 240 | 230 | 220 | 210 | 200 | 190 | 175 | 166 |
| | 225 | 315 | 309 | 300 | 288 | 276 | 270 | 259 | 247 | 236 | 225 | 213 | 196 | 180 |
| | 250 | 350 | 343 | 332 | 319 | 306 | 300 | 287 | 275 | 262 | 250 | 237 | 218 | 207 |
| | 250 | 350 | 343 | 332 | 319 | 306 | 300 | 287 | 275 | 262 | 250 | 237 | 225 | 212 |
| | 315 | 441 | 433 | 418 | 402 | 386 | 378 | 362 | 346 | 331 | 315 | 300 | 286 | 271 |
| NM8N- | 350 | 490 | 481 | 465 | 447 | 429 | 420 | 402 | 385 | 367 | 350 | 332 | 295 | 276 |
| 400HV/630HV | 400 | 560 | 550 | 530 | 510 | 490 | 480 | 460 | 440 | 420 | 400 | 380 | 360 | 320 |
| | 500 | 700 | 687 | 662 | 637 | 612 | 600 | 575 | 550 | 525 | 500 | 450 | 406 | 360 |
| | 630 | 882 | 865 | 834 | 802 | 770 | 756 | 725 | 693 | 661 | 630 | 567 | 511 | 454 |

10.3 Altitude derating coefficient table

| Altitude (m) | | 2000m | 2000m 3000m | | 5000m |
|---------------------------------|---------------------------|-------|--------------|------|--------|
| Rated current (A) | | 1×In | 1×In 0.96×In | | 0.9×In |
| Rated voltage Ue (V) | | 1150 | 1030 | 950 | 850 |
| Rated Insulation voltage Ui (V) | | 1250 | 1120 | 1000 | 880 |
| Dielectric propertie | Dielectric properties (V) | | 2300 2050 | | 1800 |
| Rated impulse | NM8N-250HV | 8 | 8 | 8 | 8 |
| withstand voltage | NM8N-400HV | 12 | 10 | 8 | 0 |
| | NM8N-630HV | 12 | 10 | 0 | 8 |

P-026 Moulded Case Circuit Breakers | NM8N

| Note | | | |
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Europe

Italy

CHINT ITALIA INVESTMENT S.R.L.

Add: Via A. Pacinotti 28, 30033 Noale (VE) Tel: +39 041.446614 Fax +39 041.5845900 Cell: +39 335 626 5032

Turkey

CHINT TURCA ELEKTRIK SANAYI VE TİCARET ANONİM SİRKETİ

Add: ZÜMRÜTEVLER MAHALLESİ Ural Sokak No:22 No:22/18 Nas Plaza B Block Kat 1 Maltepe / Istanbul

Tel: +90216 621 00 55 Fax.:+90216 621 00 50 E-mail: fatura@chint.com.tr

Spain

CHINT ELECTRICS S.L.

Add: Calle José Echegaray, Num 8.Parque Empresarial Las RozasEdifificio 3, Planta Baja, Ofificina 7-8.C.P: 28232 Las Rozas (Madrid) Tel: +34 91 645 03 53

E-mail: info@chint.eu

Czech Republic

NOARK ELECTRIC EUROPE S.R.O.

Add: Sezemická 2757/2, 193 00 Praha 9, Czech Republic Registered at Municipal Court in Prague, Section C, Insert 181277

Tel.: +420 226 203 120 www.noark-electric.cz

North America

Mexico

CHINT SOLAR MEXICO S DE RL DE CV

Add: Av. Paseo de la Reforma 296, Piso 37, Oficina 123 Juárez, Ciudad de México, 06600 Tel: +52 1-55-8881-6127 E-mail: marie.casillas@chint-mexico.com

United States of America

NOARK Electric (USA) Inc.

Add: 2188 Pomona Blvd, Pomona, CA,91768,USA Tel:+1-626-330-7007 Fax: +1-626-330-8035 Email: nasales@noark-electric.com

Canada

NOARK ELECTRIC (USA) INC.

Add:150 N Michigan Avenue, 3300, Chicago, Illinois, United States, 60601

Kazakhstan

TOO CHINT KZ

Netherland

CHINT ELECTRICS NETHERLANDS B.V.

Add: DE-Entree 139-141,1101 HE Amsterdam, the Netherlands

Romania

NOARK ELECTRIC S.R.L

Add:Electromagnetica BUSINESS PARK Calea Rahovei nr. 266 - 268 Corp 3, et. 1, camera 09 Sector 5 , Bucuresti Romania Tel.: +40 371 444 920

Poland

NOARK ELECTRIC SP. Z O.O.

Add:ul. Romana Maya 1, 61-371 Pozna Poland Tel.: +48 61 222 67 67 www.noark-electric.pl

United Kingdom

CHINT GLOBAL (UK) LIMITED

Add: 4th Floor 1-3 Pemberton Row, London, United Kingdom EC4A 3GB Email: chintuk@chintglobal.com

Latin America

Brazil

CHINT ELECTRICS SOUTH AMERICA LTD

Add: Avenida Paulista nº 2073 – Conjunto Nacional – Edifício Horsa 1 - Conjunto Room 1407/1408 , No. 1 Horsa, No. 2073 Paulista, Sao Paulo 01311-300 Tel: 0055-(11) 3266-7654 Fax: 0055- (11) 3142-9601 E-mail: chintlatinamerica@chint.com

Peru

CHINT LATAM(PERU) S.A.C.

Add.: Camino Real 348 oficina 603, San Isidro, Lima

Tel.: +51 1 763 4917

Email: chintlatamperu@chint.com



CHINT GLOBAL PTE. LTD.

Building A3, 3655 SiXian Road, Songjiang District, Shanghai, China Tel: +86-21-5677 7777 Web: www.chintglobal.com E-mai: global-sales@chintglobal.com

A **CHNT** COMPANY