

Asia Pacific

China

Zhejiang CHINT Electrics Co., Ltd.

Add (Shanghai): A3 Building, No. 3655 Sixian Road, Songjiang Shanghai 201614
Tel: +86-21-5677 7777
Fax: +86-21-5677 7777
E-mail: global-sales@chintglobal.com

Singapore

CHINT GLOBAL PTE. LTD.

Add: 8 Kallang Avenue #04-06/09 Aperia Office Tower 1 Singapore 339509
Tel: +65 6329 3110
Fax: +65 6329 3159

SUNLIGHT ELECTRICAL Singapore

Address: 1 Third Chin Bee Road Singapore 618679
Tel: +65 6741 9055
Fax: +65 6265 4586
Email: sales@sunlightgroup.com

India

CHINT India Energy Solution Private limited

Discovery Tower Plot No. A-17 Ground Floor Industrial Area Sector 62 Noida -201309
India Hotline: - 18002707977
Company: +91 1202975057
E-mail: marketing@chint.co.in

Philippines

CHINT ELECTRIC CO., LTD. PHILIPPINE BRANCH

Add: Unit 201, Taipan Place, F. Ortigas Jr. Road, Ortigas Center, Pasig City, Metro Manila,
Philippines

Indonesia

PT. CHINT INDONESIA

Add: Prima Center 1 Complex, Block C 9-10 Pool PPD Road. Pesisir Posogor No. 11. Jakarta
Barat - 11710
Tel: +62-21-5436-3000

Vietnam

CHINT Vietnam Holding Co., Ltd

Add: So 2Bis-4-6, Le Thanh Ton, P. Ben Nghe Quan 1, Ho Chi Minh
Tel: +84 028 38270015
E-mail: Marketing.vn@chintglobal.com

SUNLIGHT ELECTRICAL VIETNAM

Add: 20 Doc Lap Ave, VSIP, Thuan An City, Binh Duong Province, Vietnam
Tel: +84-0274-3743505
Email: sales.sev@sunlightgroup-vn.com.vn

Cambodia

SCHNEITEC CHINT CO., LTD.

Add: Anisor Kdam Village, Sna Ansa Commune, Krokor District, Pursat Province,
Kingdom of Cambodia
Tel: +855 095353268

Europe

Italy

CHINT Italia Investment Srl

Add: Via Bruno Maderna 7 30174 Venezia
Tel: +39 041.446614
Fax +39 041.5845900
E-mail: info@chint.it

Czech Republic

NOARK Electric Europe s.r.o.

Add: Sezemicá 2757/2, 193 00 Prague 9
Tel: +420 226 203 120
Email: europe@noark-electric.com

Turkey

CHINT Turca Elektrik Sanayi VE Ticaret Anonim Sirketi

Add: Zumrutvler Mahallesi Ural Sokak 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

North America

United States

NOARK Electric (USA) Inc

Add: 2188 Pomona Blvd., Pomona, CA 91768
Tel: 626-330-7007
Fax: 626-330-8035
E-mail: nasales@noark-electric.com

Mexico

CHINT SOLAR MEXICO S DE RL DE CV

Add: Miguel Cervantes Saavedra 169 Piso 11 Col. Granada Del. Miguel Hidalgo C.P. 11520 CDMX, México
Tel: +52 1-55-8881-6127
E-mail: marie.casillas@chint-mexico.com

West Asia & Africa

Egypt

CHINT Electrics (Egypt) Co., Ltd

Add: Building B16 - Smart village, Abu Rawash - Giza, Egypt
Tel: +20 1097173769
P.O BOX : 00202
Email: chinteg@chintglobal.com

Kenya

ZHENGTAI ELECTRICS(KENYA) CO., LIMITED

Add: OFFICE 1A, 8TH FLOOR, KISM TOWERS, LR No. 209/945/1- NGONG ROAD – NAIROBI, KENYA
Tel: +254113958911
Email: zhangyuans@chint.com

Spain

CHINT Electrics S.L.

Add: Calle José Echegaray, Num 8.Parque Empresarial Las RozasEdificio 3, Planta Baja, Oficina 7-8.C.P: 28232 Las Rozas (Madrid)
Tel: +34 91 645 03 53
E-mail: info@chint.eu

Russia

ООО “Чинт Электрик”

Юридический адрес: 109544, г. Москва, б-р Энтузиастов, д. 2, этаж 10, ком.26
Фактический адрес: РФ, 109544, г. Москва, б-р Энтузиастов, д. 2
Tel: +7 (495) 540-61-41
Tel: +7 (800) 222-61-41
E-mail: info@chint.ru

Latin America

Brazil

CHINT Elétricos América do Sul Ltda

Add: Av. Paulista, 1765 - Edifício Scarpa-Conj.22
Bela Vista –CEP 01311-200-São Paulo- SP
Tel: 0055-11-3266-7654
E-mail: chintlatinamerica@chint.com

Peru

CHINT LATAM (PERU) S.A.C.

Add.: Av. Camino Real No.348, Torre El Pilar, Oficina 603, San Isidro, Lima 27, Peru
Tel.: +51 1 763 4917
Email: chintlatamperu@chint.com

U.A.E

CHINT MIDDLE EAST AND AFRICA DMCC

Add: Unit No: 2101, 21085,2109 , Jumeirah business center 1, Cluster G,
Jumeirah Lakes Towers, Dubai, UAE
Tel: +97145571532 P.O BOX: 337555
E-mail: global-sales@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-mail: global-sales@chintglobal.com

A CHNT COMPANY



Printed by CHINT GROUP. No part of this brochure may be used or reproduced in any manner whatsoever without written permission. CHINT is the only publisher that can modify or change the content. Parts of the pictures used in the brochure are from the Internet. Please contact us in any case of copyright.



©CHINT GROUP ALL RIGHTS Reserved Recycle Paper Printed
2021.08

CHINT

Empower the World



Series Automatic Transfer Switching Equipment

Series Automatic Transfer Switching Equipment

NXZ Series Automatic Transfer Switching Equipment

| | |
|--|-------|
| General | P-001 |
| Model definition and description | P-002 |
| Functions and characteristics | P-003 |
| Mode of connection of the main part and controller | P-008 |
| Overall and installation dimension | P-012 |

NXZ(H)B/NXZ(H)M Series Automatic Transfer Switching Equipment

| | |
|--|-------|
| General | P-014 |
| Model definition and description | P-016 |
| Functions and characteristics | P-017 |
| Mode of connection of the main part and controller | P-023 |
| Overall and installation dimension | P-029 |



NXZ Series Automatic Transfer Switching Equipment

1. General

1.1 Scope of Application

1.1.1 NXZ series Automatic Transfer Switching Equipment is applicable to the three-phase four-wire duplicate supply power grid of AC 50Hz, rated voltage 400V/415V and below, and rated current up to 630A. It can automatically connect one or several load circuits from one power source to the other to ensure the normal power supply for the load circuit.

1.1.2 This product is applicable to industrial and commercial power use places, high-rise buildings, and residential houses.

1.2 Applicable standards

1.2.1 Product standard

IEC 60947-1.

IEC 60947-6-1.

1.2.2 Standards for use in extreme environment

IEC 60068-2-1. (Low Temperature)

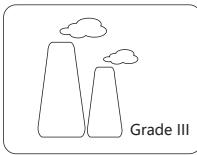
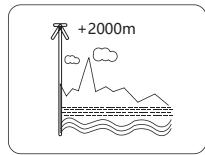
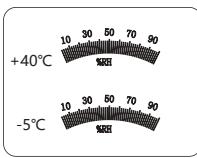
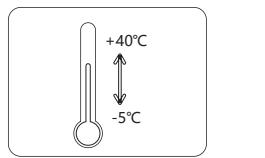
IEC 60068-2-2. (High Temperature)

IEC 60068-2-30. (Cyclic Damp Heat)

IEC 60068-2-11. (Salt mist)

1.2.3 Certification : CB、CE、KEMA

1.3 Normal working conditions



1.3.1 Ambient temperature

5°C ~ +40°C; Users can custom-tailor relevant product to be used in the environment of -25°C ~ +70°C, and use the product according to the temperature compensation table.

1.3.2 Sea level elevation

Equal to 2000m or below; if it needs to work above 2000m altitude, it shall be used according to the table of capacity reduction of different altitudes.

1.3.3 Atmospheric conditions

The relative humidity shall not exceed 50% when the surrounding air temperature is +40°C; the relative humidity can be higher when the temperature is lower; the average monthly maximum relative humidity in the wettest month is 90%, and the average monthly minimum temperature shall be +20 °C. Special measures may be necessary in cases of occasional condensation due to variations in temperature.

1.3.4 Pollution degree: class 3

1.3.5 Installation category

Installation category of the switching equipment of main circuit is category IV.

Installation category of auxiliary circuit is category III.

Installation category of conversion controller is category II.

1.3.6 Utilization category: AC-33B

Electromagnetic compatibility (EMC)

Electrostatic discharge (IEC 61000-4-2) Level 2

Radio-frequency electromagnetic field-radiated

electromagnetic field immunity (IEC 61000-4-3) Level 3,

Fast transient bursts (IEC 61000-4-4) Level 3,

Surges (IEC 61000-4-5) Level 3,

Radio-frequency electromagnetic field-conducted immunity

(IEC 61000-4-6) Level 3,

Radiation grade (CISPR11) grade B,

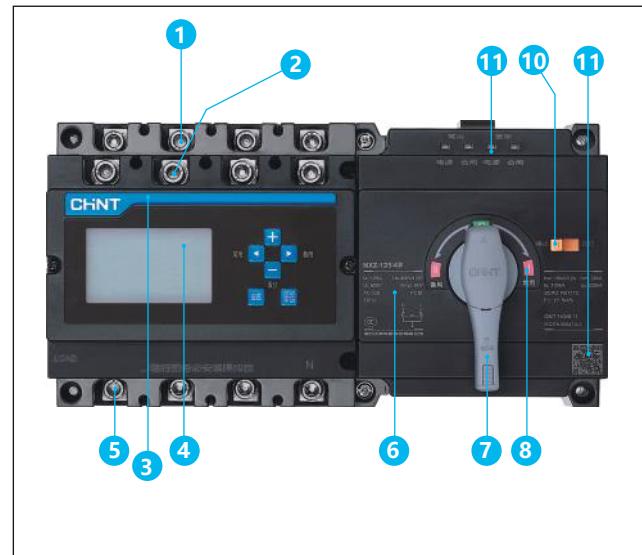
2. Model definition and description

Structural Features of the Automatic Transfer Switching Equipment

| | | | | | | | |
|-----|---|-----|---|---|---|------|---|
| NXZ | - | 125 | / | 4 | A | 100A | |
| | | | | | | | Rated current code: 80A, 100A, 125A, 160A, 200A, 250A, 315A, 320A, 400A, 500A, 630A |
| | | | | | | | Controller code: A: standard type B: intelligent type |
| | | | | | | | Pole code: 3: 3 pole 4: 4 pole |
| | | | | | | | Frame current code: 125A 250A 630A |
| | | | | | | | Product code: NXZ: series automatic transfer switching equipment (PC grade) |

Type selection example:

NXZ-125/4A 125A: To order an Automatic Transfer Switching Equipment of which the frame current is 125A, number of poles is 4P, rated current is 125A, with a standard controller
Note: when the controller is installed in split type, the split wire needs to be ordered separately.



- 1 Terminal on the normal supply side
- 2 Terminal on the alternative supply side
- 3 Trade mark
- 4 Display and operation module of the controller
- 5 Terminal on the load side
- 6 Nameplate
- 7 Handle
- 8 Switching-off/switching-on indicator
- 9 QR Code
- 10 Manual/electric dial switch
- 11 Controller processing module

Comparison Table of Frame Current and Rated Current

| Rated current (A) | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 320 | 400 | 500 | 630 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Frame current (A) | 125 | ■ | ■ | ■ | | | | | | | |
| | 630 | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

3. Functions and characteristics

Technical parameters of NXZ (Class PC)

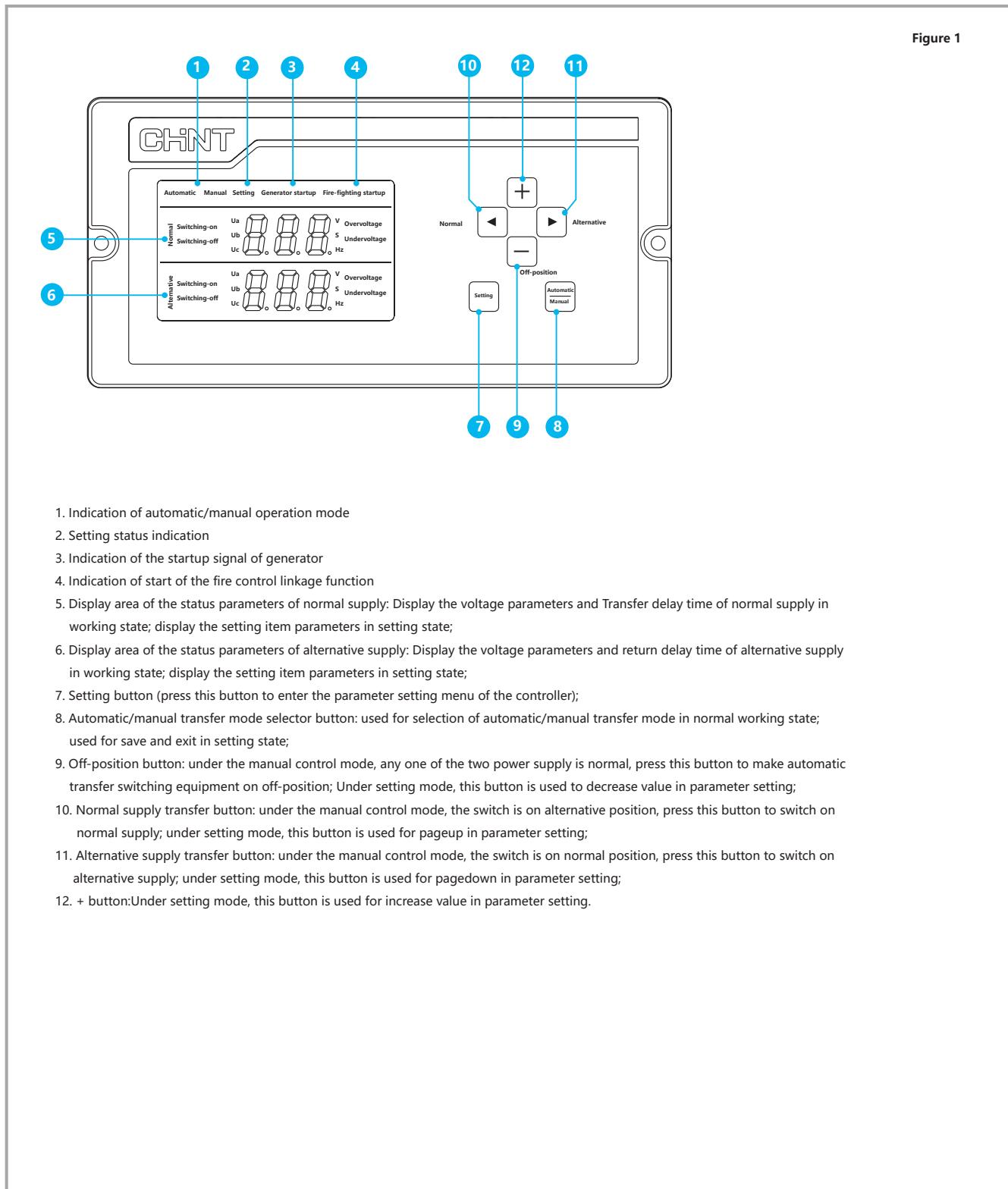
| Model | NXZ-125 | NXZ-250 | NXZ-630 |
|--|---|--------------|---------------------|
| Electrical characteristics | | | |
| Frame current (A) | 125 | 250 | 630 |
| Rated current (A) | 80,100,125 | 160,200,250 | 315,320,400,500,630 |
| Rated operational voltage Ue (V) | 400/415 50Hz | | |
| Rated insulation voltage Ui (V) | AC800 | | |
| Rated impulse withstand voltage Uimp (kV) | 8 | | |
| Utilization category | AC-33B | | |
| Number of poles | 3P/4P | | |
| Rated conditional short-circuit current Iq (kA) | 100 | | |
| Rated short-circuit making capacity Icm (kA) | 20 | 30 | 50 |
| Rated short time withstand current Icw/0.2s (kA) | 10 | 10 | 25 |
| Contact transfer time (S) | 0.6× (1±50%) | 1× (1±10%) | 1.5× (1±10%) |
| Operating transfer time (S) | 1.2× (1±10%) | 2.1× (1±10%) | 3.3× (1±10%) |
| Mechanical endurance (times) | 8500 | 7000 | 3000 |
| Electrical endurance (times) | 1500 | 1000 | 1000 |
| Overall dimension | | | |
| Width x height x depth (mm) | 245×130×126 | 295×175×175 | 430×272×230 |
| Controller characteristics | | | |
| Controller model | A type (standard), B type (intelligent) | | |
| Installation mode | Integrated, split | | |
| Rated control power supply voltage Us (V) | 230/240 50/60Hz | | |
| Control voltage range | 85%~110%Ue | | |

Parameters of controller

| Function | Model | A type (standard) | B type (intelligent) |
|---|--------------------|--|--|
| Manual/automatic transfer | ■ | ■ | ■ |
| Main contact positions | | | |
| Normal position | ■ | ■ | ■ |
| Alternative position | ■ | ■ | ■ |
| Off-position | ■ | ■ | ■ |
| Automatic control | | | |
| Normal supply of monitoring | | ■ Phase failure/loss of voltage, undervoltage, overvoltage fault | ■ Phase failure/loss of voltage, undervoltage, overvoltage fault |
| Alternative supply of monitoring | | ■ Phase failure/loss of voltage, undervoltage, overvoltage fault | ■ Phase failure/loss of voltage, undervoltage, overvoltage fault |
| Automatically transfer and restore operation | ■ | ■ | ■ |
| Automatically transfer and nonautomatically restore operation | ■ | ■ | ■ |
| Grid-grid | ■ | ■ | ■ |
| Grid-generator | ■ | ■ | ■ |
| Phase failure/loss of voltage transfer | ■ | ■ | ■ |
| Under voltage transfer | ■ | ■ | ■ |
| Over voltage transfer | ■ | ■ | ■ |
| Delay adjustable | ■ | ■ | ■ |
| Transfer delay | 0s~300s adjustable | 0s~300s adjustable | 0s~300s adjustable |
| Return delay | 0s~300s adjustable | 0s~300s adjustable | 0s~300s adjustable |
| Generator control | ■ | ■ | ■ |
| Fire control linkage | ■ | ■ | ■ |
| Indication | | | |
| Switching-on/switching-off/Off-position indication | ■ | ■ | ■ |
| Normal/alternative supply indication | ■ | ■ | ■ |
| Parameter setting indication | ■ | ■ | ■ |
| Others | | | |
| Communication function | - | ■ | ■ |
| Display module | ■ LED | ■ LED | ■ LED |

4. Functions and characteristics

Operation interface of the display module of controller



Parameter setting of the display module of controller

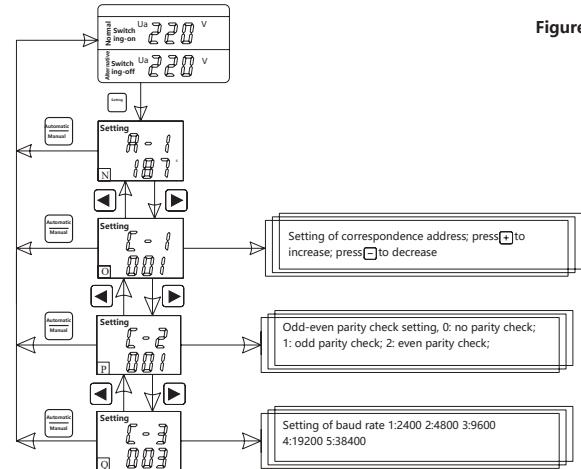
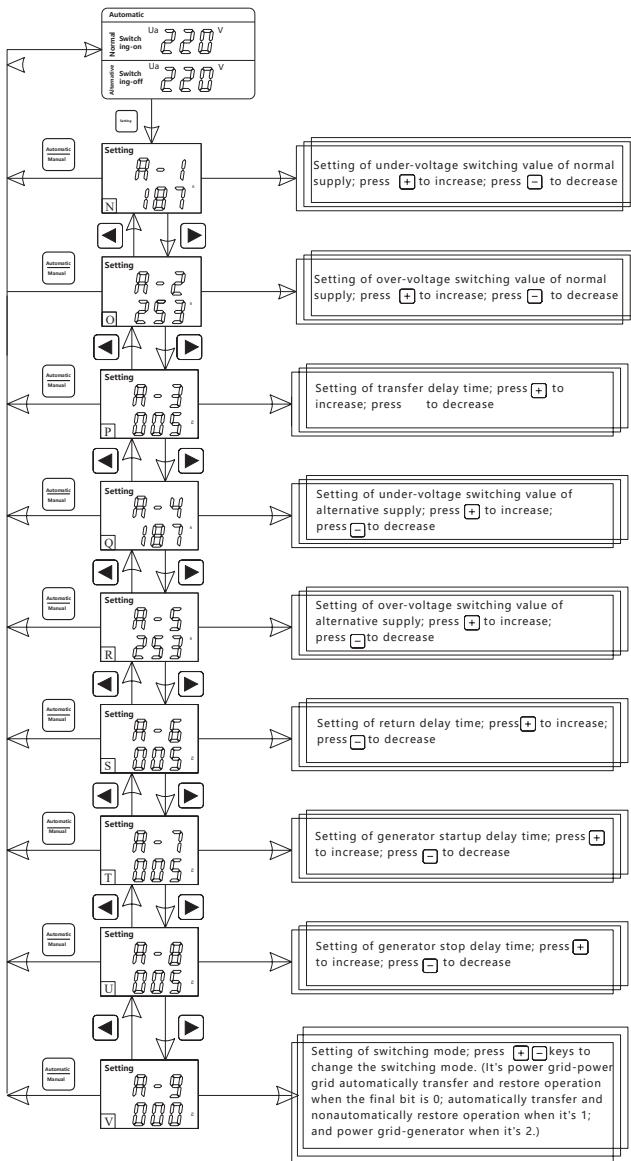


Figure 2

Note: The functional parameters of the display module and communication module are set as follows:

Setting of under-voltage switching value: Default to 187V, user-settable 160V~200V;

Setting of over-voltage switching value: Default to 263V, user-settable 240V~290V;

Transfer delay setting: Default to 5s, user-settable 0s~300s;

Return delay setting: Default to 5s, user-settable 0s~300s;

Generator startup delay setting: Default to 5s, user-settable 0s~300s;

Generator stop delay setting: Default to 5s, user-settable 0s~300s;

Switching and power source mode: Default setting: automatically transfer and restore operation (grid - grid), and user can set automatically transfer and nonautomatically restore operation (grid - grid), automatically transfer and restore operation (grid - power generation)..

Default parameter setting for communication function: address: 1; Baud rate: 9600bps; parity check bit: odd parity; data bit: 8; stop bit: 1

■ Buttons:

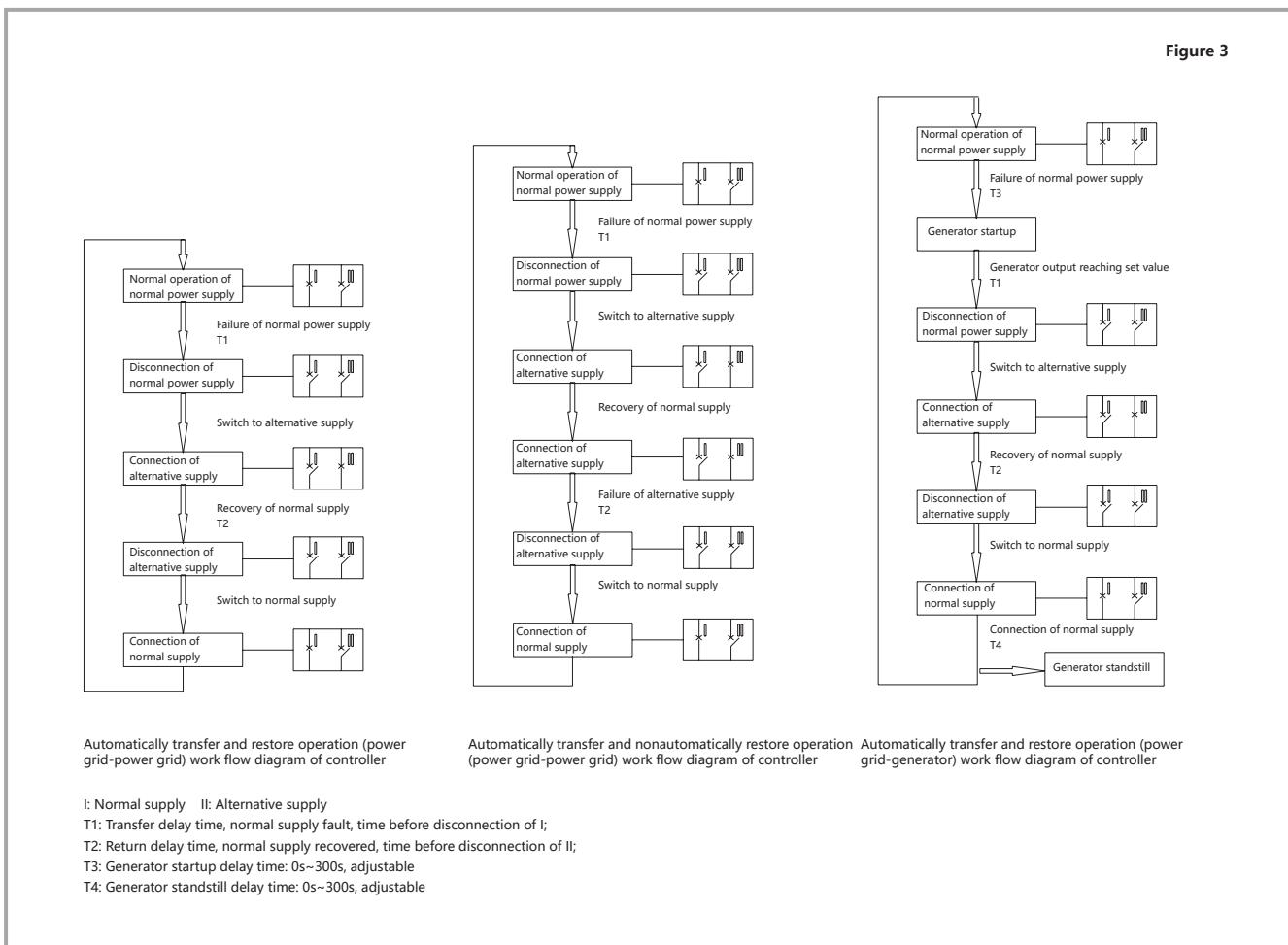
Press setup key to enter the setting interface when the controller is working. Press " [] " " [] " to page up or down the setting menu.

Press manual/automatic key to exit from the setting menu. Press " [] " " [] " to revise the parameters.

Parameter setting of communication function (note: please ask for the communication agreement from our after-service staff)

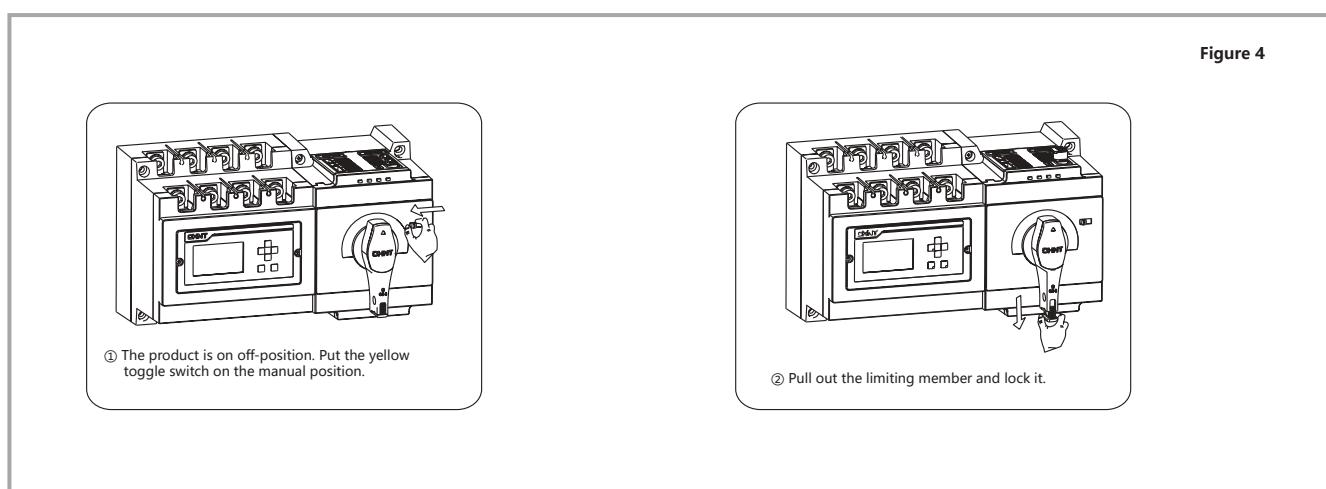
5. Functions and characteristics

Controller action flow



Padlocking function

Padlock apertureΦ5~Φ8 (mm)

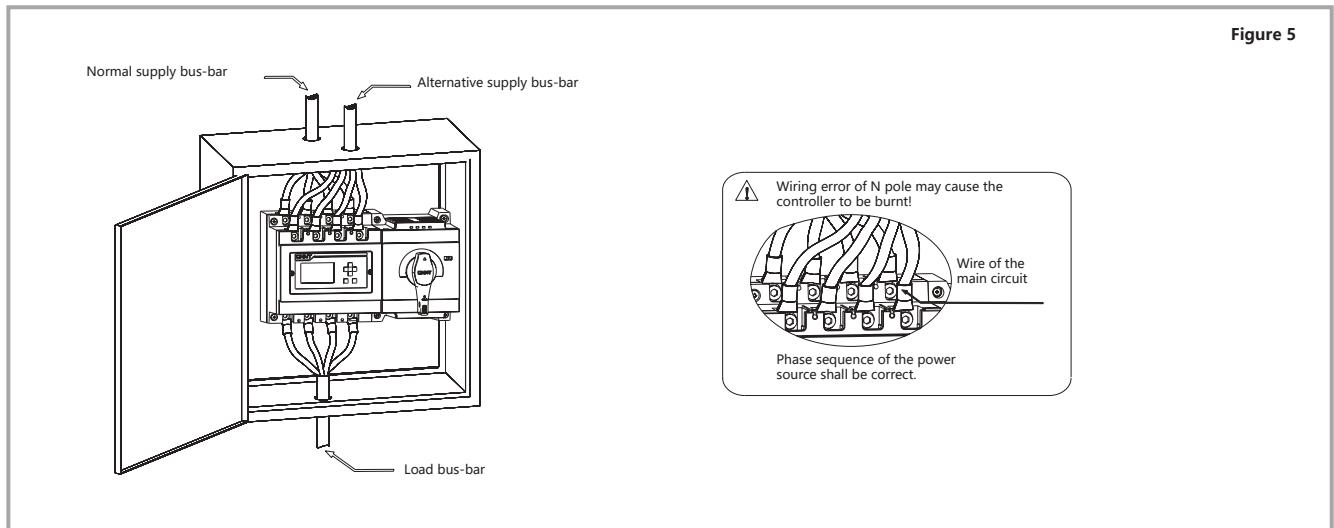


Communication function

Modbus protocol; RS485 interface.

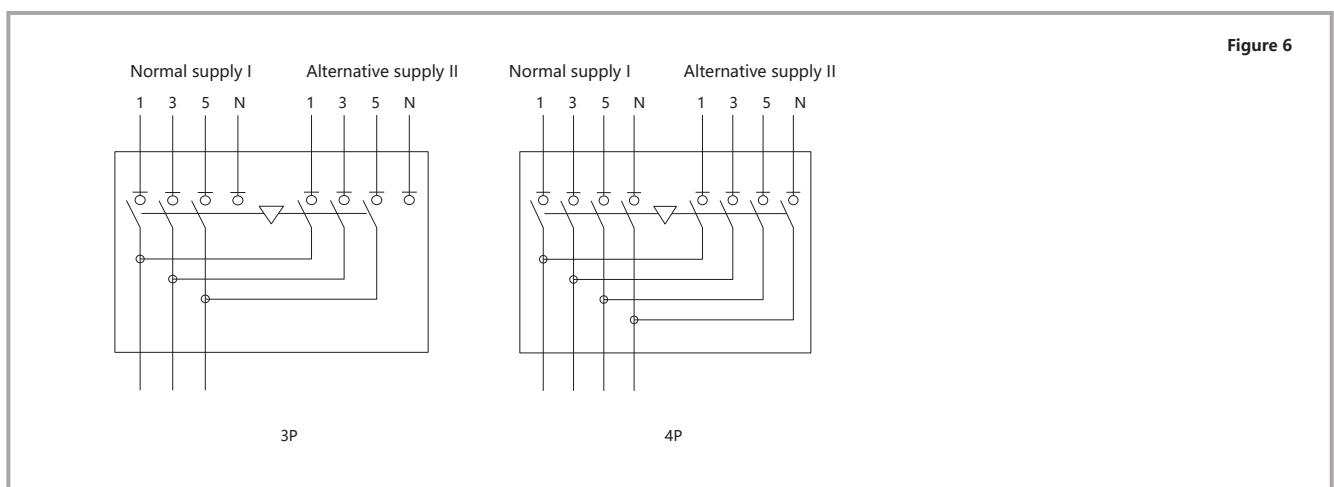
6. Mode of connection of the main part and controller

Product incoming mode: upper incoming



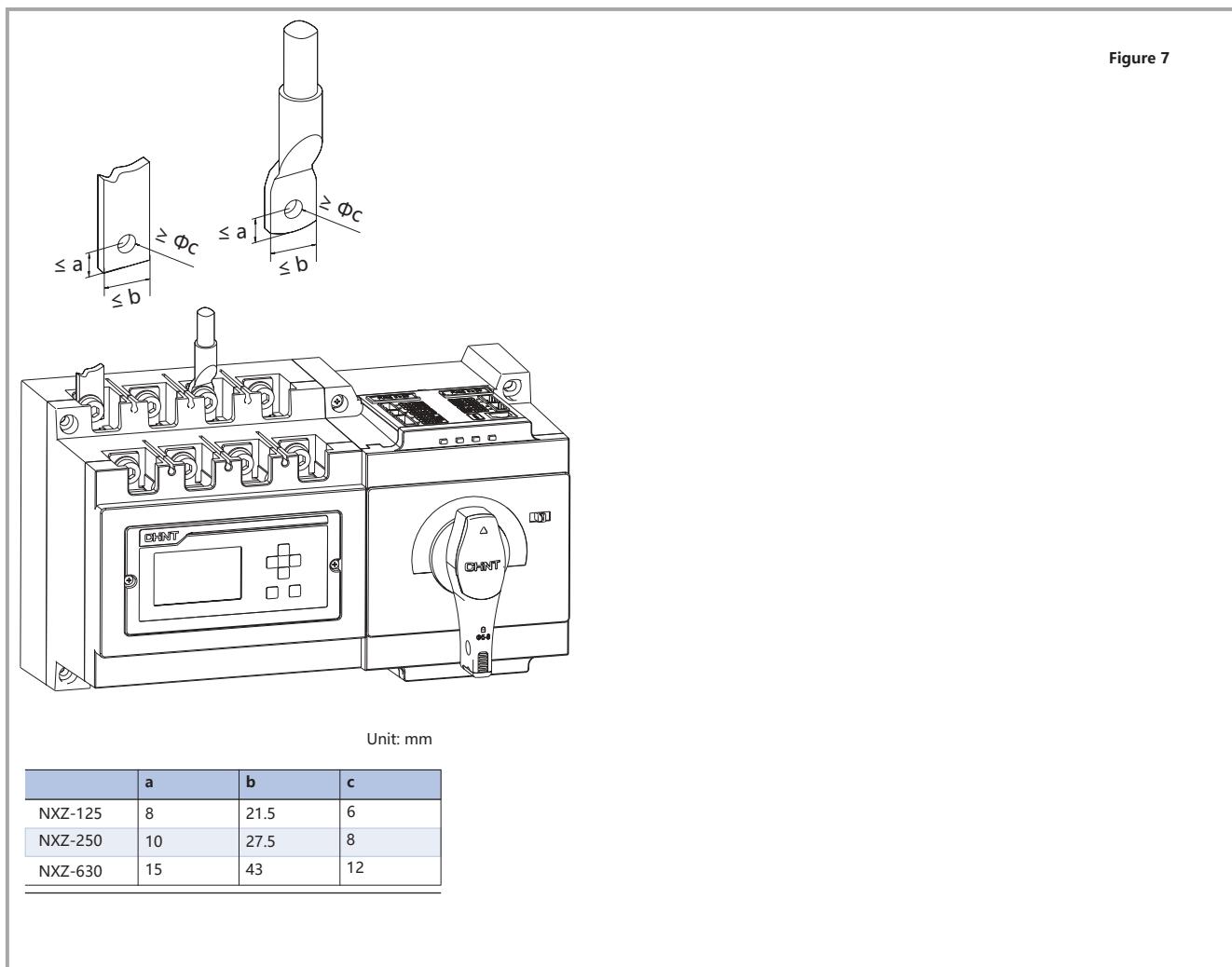
Installation mode: vertical or horizontal

Product wiring

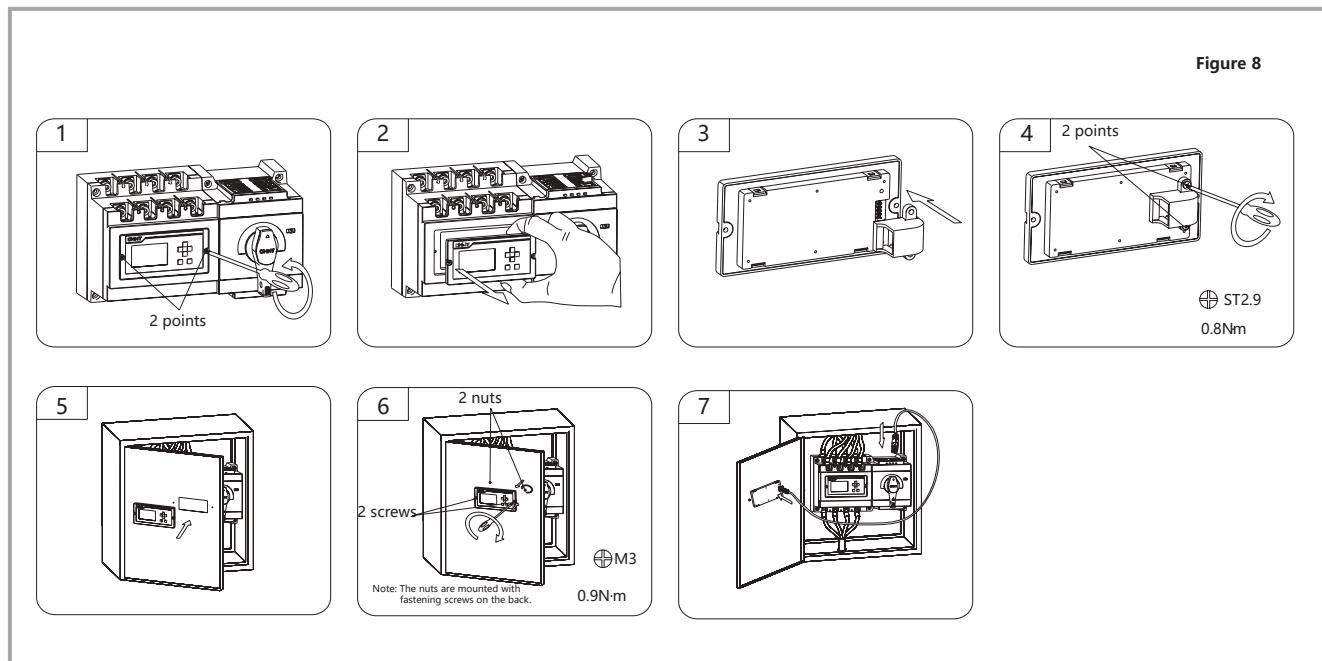


7. Mode of connection of the main part and controller

Wire connection



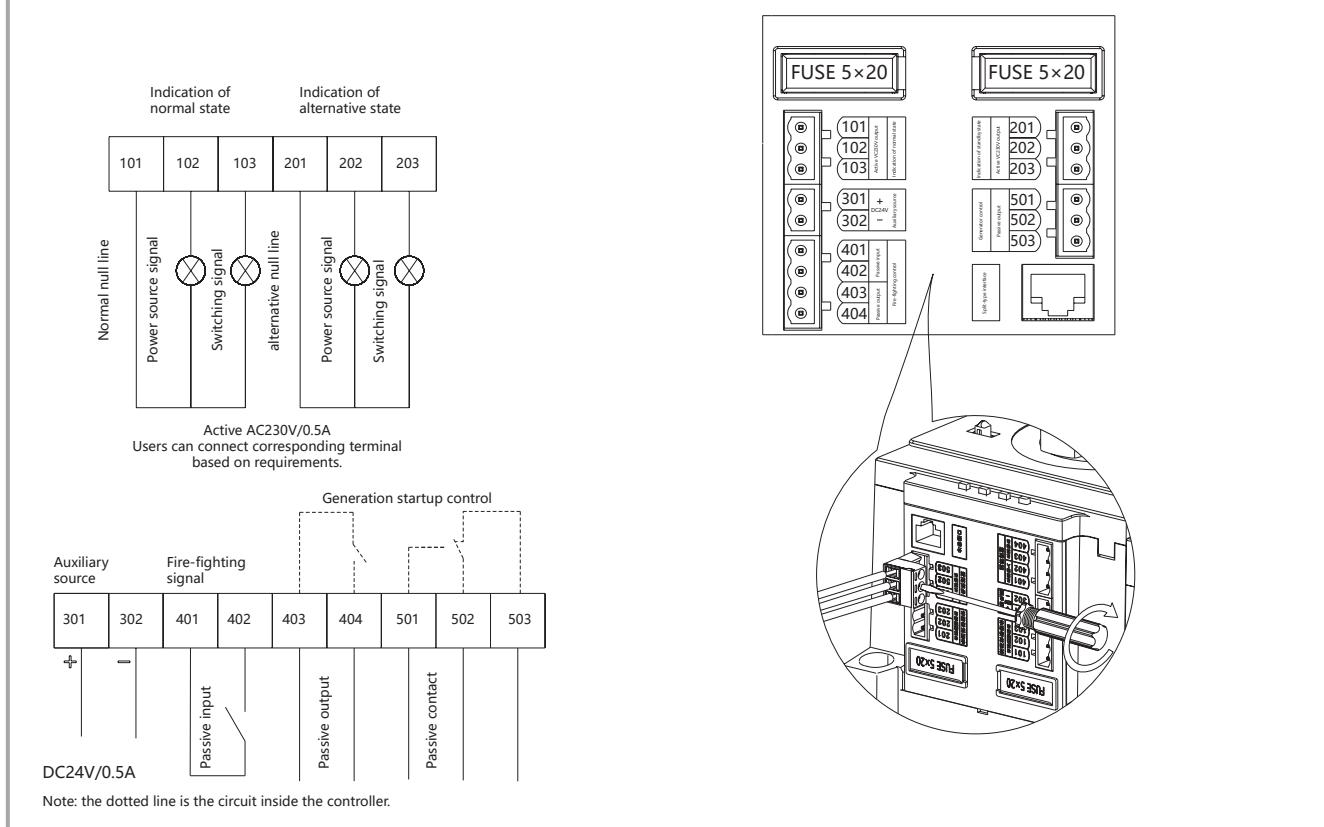
Split type installation of the display module (cabinet)



Wiring of signal and control terminal

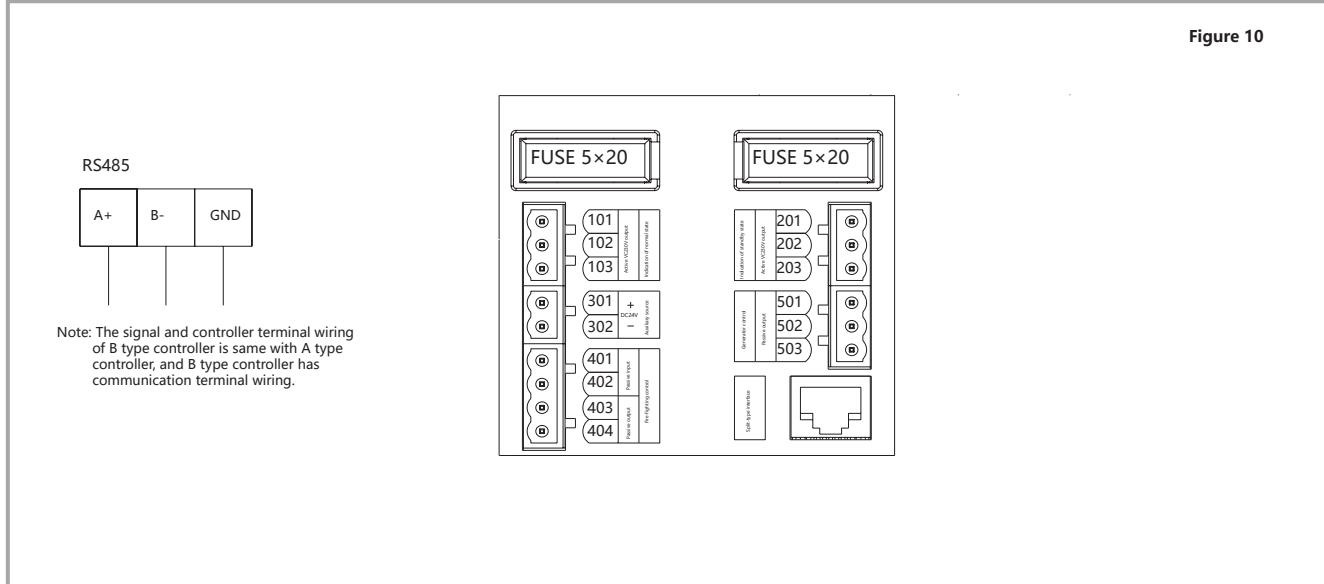
A type controller

Figure 9



P

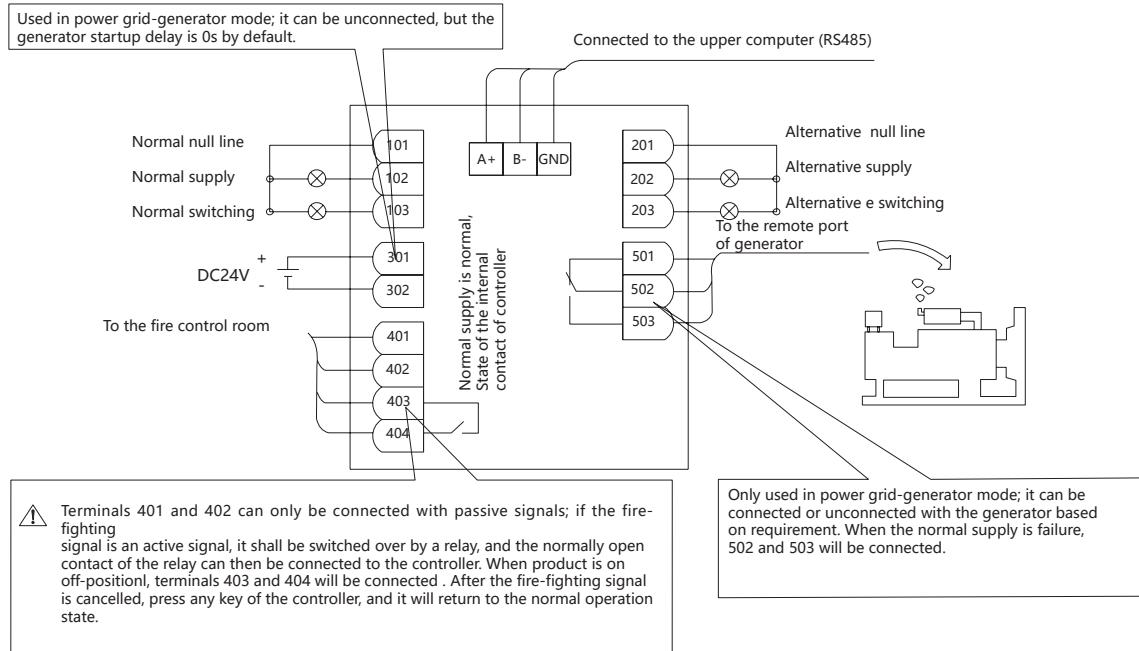
Figure 10



8. Mode of connection of the main part and controller

Typical application

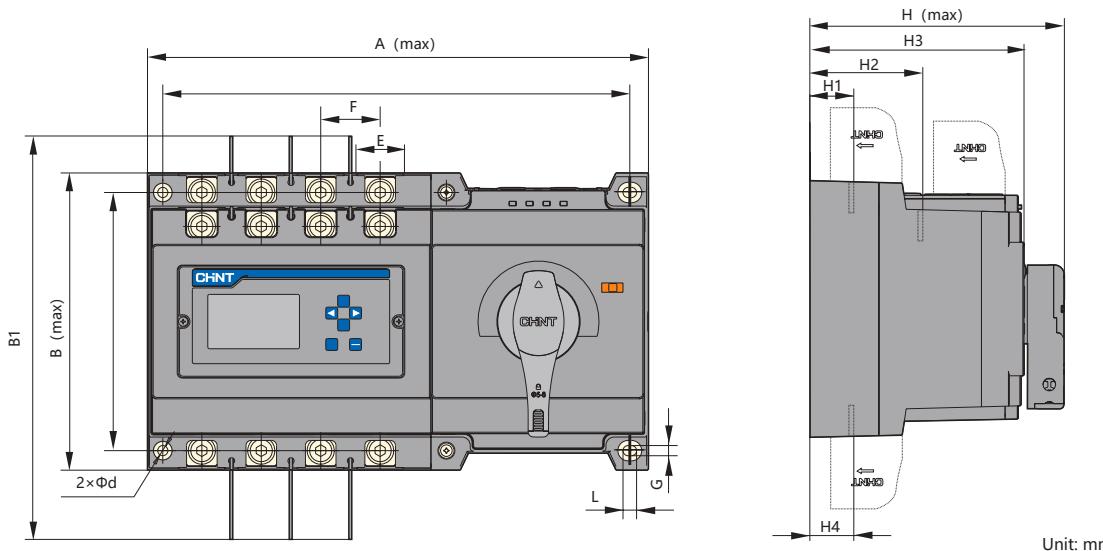
Figure 11



9. Overall and installation dimension

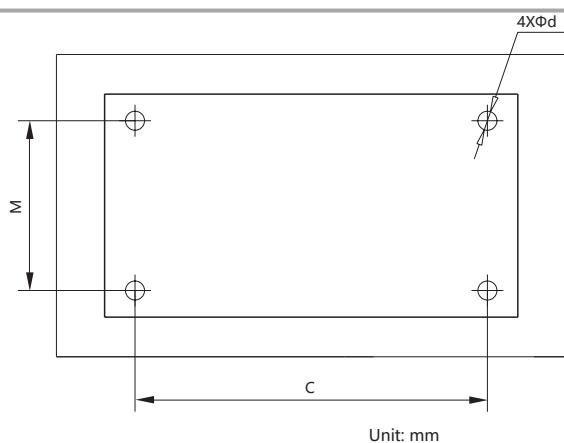
Product overall and installation dimension

Figure 12



Hole size of the product installation plate

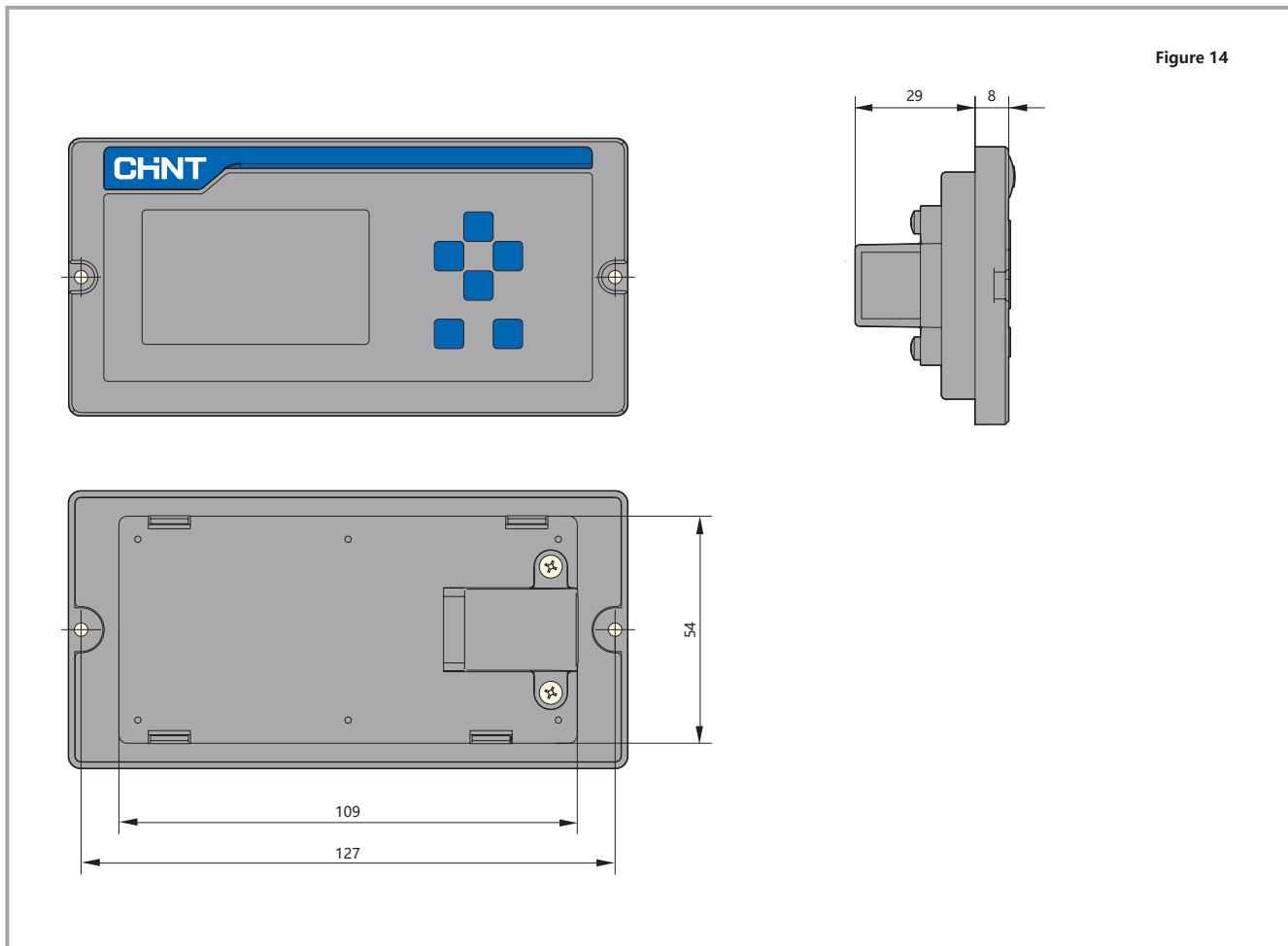
Figure 13



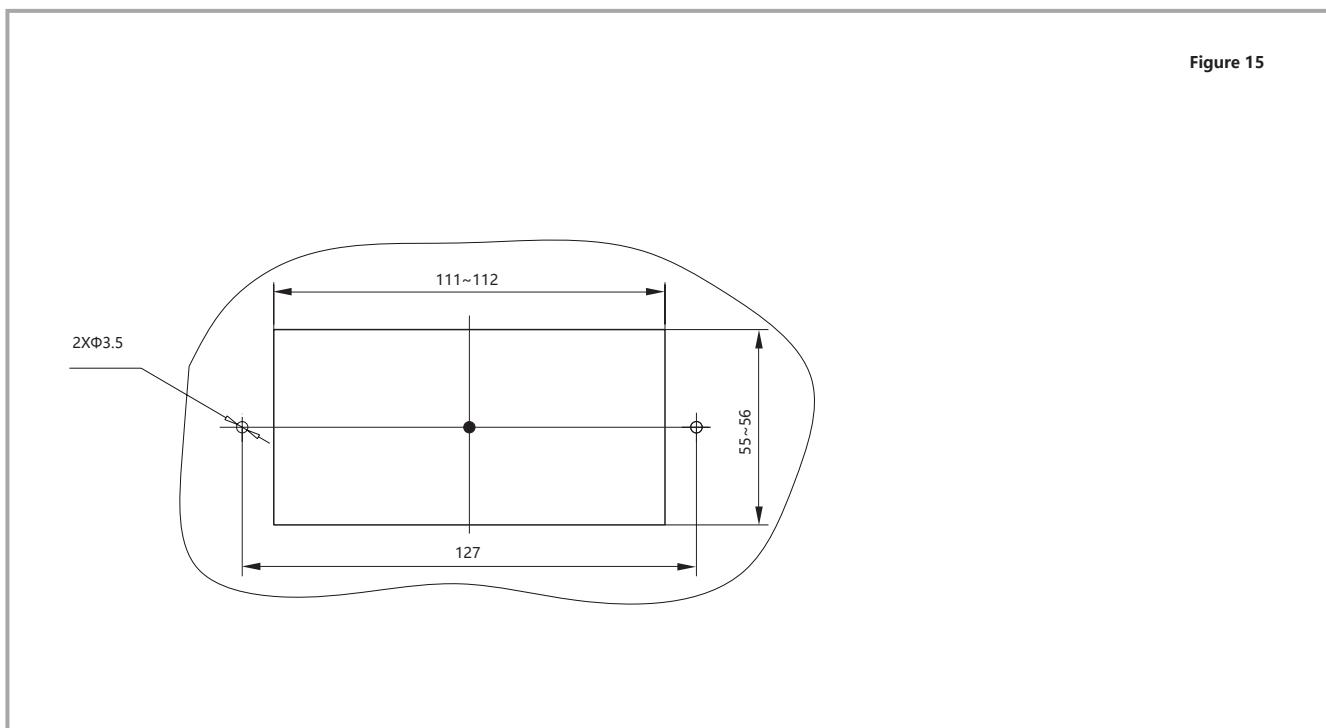
| Product code | C | M | D |
|--------------|-------|-----|-----|
| NXZ-125 | 229.5 | 113 | 4.5 |
| NXZ-250 | 275 | 152 | 6 |
| NXZ-630 | 400 | 240 | 9 |

10. Overall and installation dimension

Overall dimension of split type module (unit: mm)



Size of the installation cabinet of split type module (unit: mm)





NXZ(H)B、NXZ(H)M Series ATS

1. General

1.1 Scope of Application

1.1.1 NXZ(H)B/NXZ(H)M Series Automatic Transfer Switching Equipment is applicable to three-phase four-wire duplicate supply grid of AC 50/60Hz, rated voltage 400V/415V and below, rated current 800A, and can switch one or several load circuits from one power source to the other to ensure the normal power supply of the load circuit.

1.1.2 This product is applicable to industrial and commercial power use places, high-rise buildings, and residential houses.

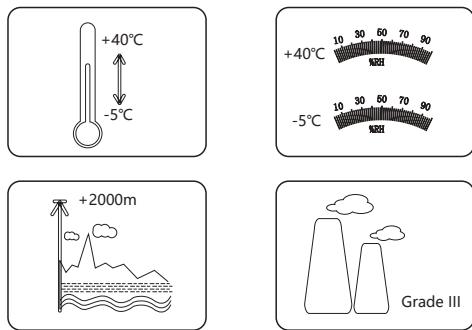
1.2 Applicable standards

1.2.1 Product standard
IEC 60947-1.
IEC 60947-6-1.

1.2.2 Standards for use in extreme environment

IEC 60068-2-1. (Low Temperature)
IEC 60068-2-2. (High Temperature)
IEC 60068-2-30. (Cyclic Damp Heat)
IEC 60068-2-11. (Salt mist)

1.3 Normal working conditions



1.3.1 Ambient temperature

-5°C ~ +40°C; Users can custom-tailor relevant product to be used in the environment of -25°C ~ +70°C, and use the product according to the temperature compensation table.

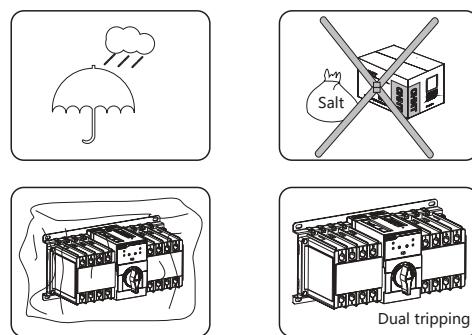
1.3.2 Sea level elevation

Equal to 2000m or below; if it needs to work above 2000m altitude, it shall be used according to the table of capacity reduction of different altitudes.

1.3.3 Atmospheric conditions

The relative humidity shall not exceed 50% when the surrounding air temperature is +40°C; the relative humidity can be higher when the temperature is lower; the average monthly maximum relative humidity in the wettest month is 90%, and the average monthly minimum temperature shall be +20°C. Special measures may be necessary in cases of occasional condensation due to variations in temperature.

1.3.4 Pollution degree: class 3



1.3.5 Installation category

Installation category of the switching equipment of main circuit is category IV.

Installation category of auxiliary circuit is category III.

Installation category of conversion controller is category II.

1.3.6 Utilization category:

NXZB: AC-33iB
NXZ (H) B: AC-33B
NXZ (H) M: AC-33B

1.3.7 Electromagnetic compatibility (EMC)

Electrostatic discharge (IEC 61000-4-2) Level 2
Radio-frequency electromagnetic field-radiated electromagnetic field immunity (IEC 61000-4-3) Level 3,
Fast transient bursts (IEC 61000-4-4) Level 3,
Surges (IEC 61000-4-5) Level 3, Radio-frequency electromagnetic field-conducted immunity (IEC 61000-4-6) Level 3, Radiation grade (CISPR11) grade B,

2. Model definition and description

NXZB-63 (Class CB)

Type selection example:
NXZB-63H/4C C63:To order a class CB automatic transfer switching equipment, the frame current is 63A, number of poles is 4P, the breaking capability is 10kA, rated current is 63A, the tripping type is C type, with an intelligent controller (C type).

Comparison Table of Frame Current and Rated Current

| Rated current (A) | | 10 | 16 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 180 | 200 | 225 | 250 | 315 | 320 | 350 | 400 | 500 | 630 | 700 | 800 |
|-------------------|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Frame current (A) | 63 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | |
| | 125 | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | |
| | 160 | | | | | | | | | ■ | ■ | | | | | | | | | | | | | |
| | 250 | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | |
| | 320 | | | | | | | | | | | ■ | | | | | ■ | | | | | | | |
| | 400 | | | | | | | | | | | ■ | ■ | | | | ■ | ■ | | | | | | |
| | 630 | | | | | | | | | | | | ■ | ■ | | | | | | | | | | |
| | 800 | | | | | | | | | | | | | | | | | | ■ | ■ | | | | ■ |

NXZM (Class CB)

Type selection example:
NXZM-250H/4A 160A:To order a class CB automatic transfer switching equipment, the frame current is 250A, number of poles is 4P, H breaking capability, rated current is 160A, with a standard controller (A type) and generator protection.

NXZHB-63 (Class PC)

| | | | | | | | | |
|---|---|----|---|---|---|---|-----|--|
| NXZB | - | 63 | / | 4 | A | T | 63A | |
| Rated current code: 16A, 32A, 63A | | | | | | | | |
| Function code: Empty: no communication function T: communication function | | | | | | | | |
| Controller code: A: standard type C: intelligent type | | | | | | | | |
| Pole: 3: 3 poles 4: 4 poles | | | | | | | | |
| Frame current code: 63A | | | | | | | | |
| Product code: NXZHB: automatic transfer switching equipment | | | | | | | | |

Type selection example:

NXZHB-63/4A 63A: To order a PC grade automatic transfer switching equipment, the frame current is 63A, number of poles is 4P, rated current is 63A, with a standard controller (A type).

NXZHM (Class PC)

| | | | | | | | | |
|---|---|-----|---|---|---|------|--|--|
| NXZHM | - | 250 | / | 4 | A | 160A | | |
| Rated current code: 10A~800A | | | | | | | | |
| Controller code: A: standard type B: intelligent type | | | | | | | | |
| Pole: 3: 3 poles 4: 4 poles | | | | | | | | |
| Frame current code: 63A, 125A, 160A, 250A, 320A, 400A, 630A, 800A | | | | | | | | |

Product code:

NXZHM:
automatic transfer
switching equipment

Type selection example:

NXZHM-250/4A 250A: To order a PC grade automatic transfer switching equipment, the frame current is 250A, number of poles is 4P, rated current is 250A, with a standard controller (A type)

Comparison Table of Frame Current and Rated Current

| Rated current (A) | | 10 | 16 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 180 | 200 | 225 | 250 | 315 | 320 | 350 | 400 | 500 | 630 | 700 | 800 | |
|-------------------|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Frame current (A) | 63 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | |
| | 125 | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| | 160 | | | | | | | | | ■ | ■ | | | | | | | | | | | | | | |
| | 250 | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | |
| | 320 | | | | | | | | | | | ■ | | | | | | | | | | | | | |
| | 400 | | | | | | | | | | | ■ | ■ | | | | | | | | | | | | |
| | 630 | | | | | | | | | | | | ■ | | | | | | | | | | | | |
| | 800 | | | | | | | | | | | | ■ | ■ | | | | | | | | | | | |

P

3. Functions and characteristics

Technical parameters of NXZB-63 (class CB)

| Model | NXZB-63S | NXZB-63H |
|--|---|--------------------------------|
| Electrical characteristics | | |
| Execution body | NXB-63 | NXB-63H |
| Frame current (A) | 63 | 63 |
| Rated current (A) | 10, 16, 20, 25, 32, 40, 50, 63 | 10, 16, 20, 25, 32, 40, 50, 63 |
| Rated operational voltage Ue (V) | 400 | 400 |
| Rated insulation voltage Ui (V) | 500 | 500 |
| Rated impulse voltage Uimp (kV) | 4 | 4 |
| Utilization category | AC-33iB | AC-33iB |
| Number of poles | 3P、4P | 3P、4P |
| Rated short-circuit making capacity Icm (kA) | 9 | 17 |
| Rated short-circuit breaking capacity Icn (kA) | 6 | 10 |
| Tripping curve type | C、D | C、D |
| Mechanical endurance (times) | 10000 | 10000 |
| Electrical endurance (times) | 3000 | 3000 |
| Controller characteristics | | |
| Controller model | A type (standard), C type (intelligent) | |
| Operating transfer time (s) | 1.4× (1±10%) | |
| Controller installation mode | Built in | |
| Rated control power source voltage Us(V) | 230 50Hz | |
| Control voltage range | 85%Ue~110%Ue | |

Technical parameters of NXZM (class CB)

Technical parameters of NXZHB-63 (class PC)

| Model | NXZHB-63 |
|---|---|
| Electrical characteristics | |
| Frame current (A) | 63 |
| Rated current (A) | 16, 32, 63A |
| Rated operational voltage Ue (V) | 400 |
| Rated insulation voltage Ui (V) | 500 |
| Rated impulse voltage Uimp (kV) | 4 |
| Utilization category | AC-33B |
| Number of poles | 3P、4P |
| Rated conditional short-circuit current Iq (kA) | 100 |
| Mechanical endurance (times) | 10000 |
| Electrical endurance (times) | 1500 |
| Controller characteristics | |
| Controller model | A type (standard), C type (intelligent) |
| Operating transfer (s) | 1.4× (1±10%) |
| Controller installation mode | Built in |
| Rated control power source voltage Ue(V) | 230 50Hz |
| Control voltage range | 85%Ue~110%Ue |

Technical parameters of NXZHM (class PC)

4. Functions and characteristics

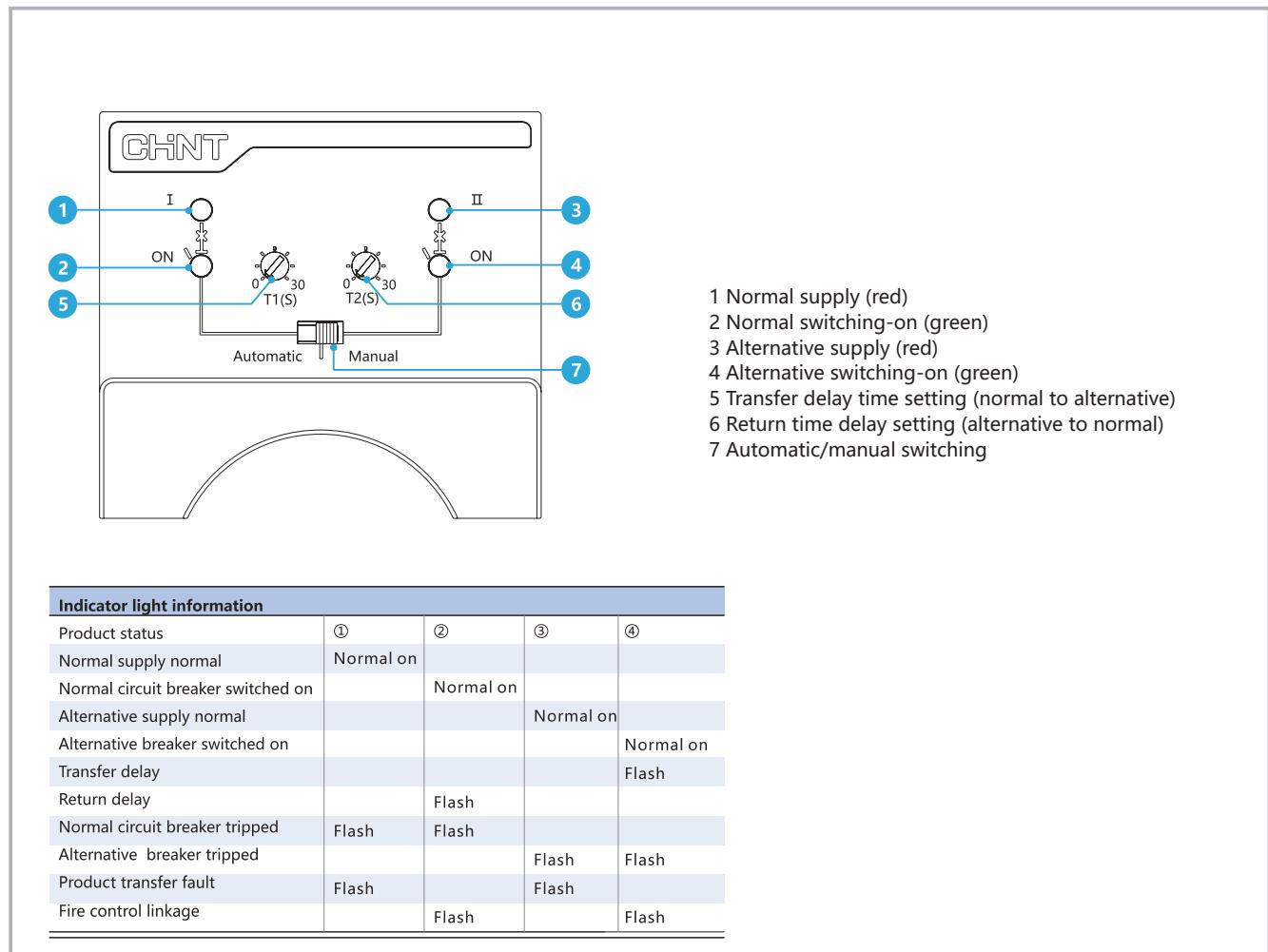
Functional parameters of NXZ (H) B controller

| Function | Model | A type (standard) | C型 |
|---|--|--|--|
| Manual/automatic transfer | ■ | ■ | ■ |
| Main contact positions | | | |
| Normal position | ■ | ■ | ■ |
| Alternative position | ■ | ■ | ■ |
| Off-position | ■ | ■ | ■ |
| Automatic control | | | |
| Normal supply of monitoring | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault |
| Alternative supply of monitoring | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault |
| Automatically transfer and restore operation | ■ | ■ | ■ |
| Grid-grid | ■ | ■ | ■ |
| Phase failure/loss of voltage transfer | ■ | ■ | ■ |
| Undervoltage transfer | ■ | ■ | ■ |
| Delay adjustable | ■ | ■ | ■ |
| Transfer delay | 0s~30s adjustable | 0s~30s adjustable | 0s~30s adjustable |
| Return delay | 0s~30s adjustable | 0s~30s adjustable | 0s~30s adjustable |
| Generator control | - | Optional | Optional |
| Fire control linkage | ■ | ■ | ■ |
| Fire control feedback | ■ | ■ | ■ |
| Indication | | | |
| Switching-on/switching-off/dualtrippingindication | ■ | ■ | ■ |
| Normal/alternative supply indication | ■ | ■ | ■ |
| Parameter setting indication | | | |
| Others | | | |
| Communication function | Optional | Optional | Optional |

Table of main functional parameters of NXZ (H) M controller

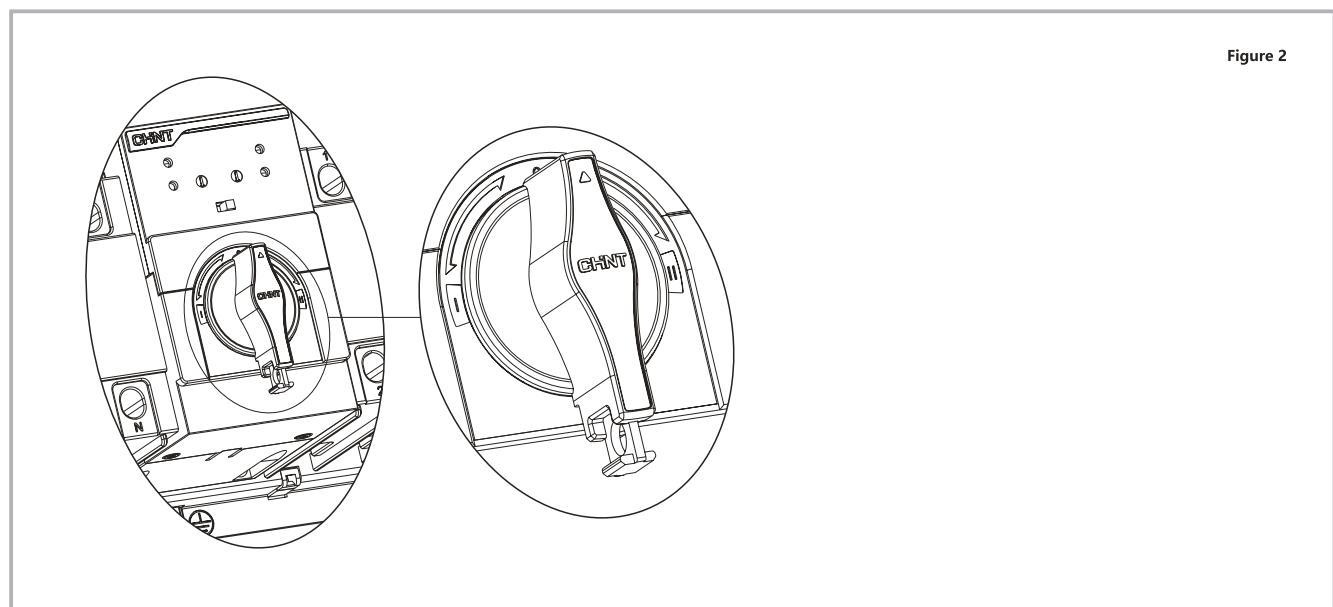
| Function | Model | A type (standard) | B type (intelligent) |
|---|--|--|--|
| Manual/automatic transfer | ■ | ■ | ■ |
| Main contact positions | | | |
| Normal position | ■ | ■ | ■ |
| Alternative position | ■ | ■ | ■ |
| Off-position | ■ | ■ | ■ |
| Automatic control | | | |
| Normal supply of monitoring | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault |
| Alternative supply of monitoring | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault | ■ Phasefailure/lossofvoltage,undervoltage,overvoltagefault |
| Automatically transfer and restore operation | ■ | ■ | ■ |
| Automatically transfer and nonautomatically restore operation | ■ | ■ | ■ |
| Grid-grid | ■ | ■ | ■ |
| Grid-generator | - | - | - |
| Phase failure/loss of voltage transfer | ■ | ■ | ■ |
| Undervoltage transfer | ■ | ■ | ■ |
| Overvoltage transfer | ■ | ■ | ■ |
| Delay adjustable | ■ | ■ | ■ |
| Transfer delay | 0s~180s adjustable | 0s~180s adjustable | 0s~180s adjustable |
| Return delay | 0s~180s adjustable | 0s~180s adjustable | 0s~180s adjustable |
| Generator control | - | ■ | ■ |
| Fire control linkage | ■ | ■ | ■ |
| Fire control feedback | ■ | ■ | ■ |
| Indication | | | |
| Switching-on/switching-off/off-position | ■ | ■ | ■ |
| Normal/alternative supply indication | ■ | ■ | ■ |
| Parameter setting indication | ■ | ■ | ■ |
| Fault tripping indication | ■ | ■ | ■ |
| Others | | | |
| Communication function | Optional | Optional | Optional |
| Display module | ■ LED | ■ LED | ■ LED |

Functional description of NXZ (H) B



Lock system

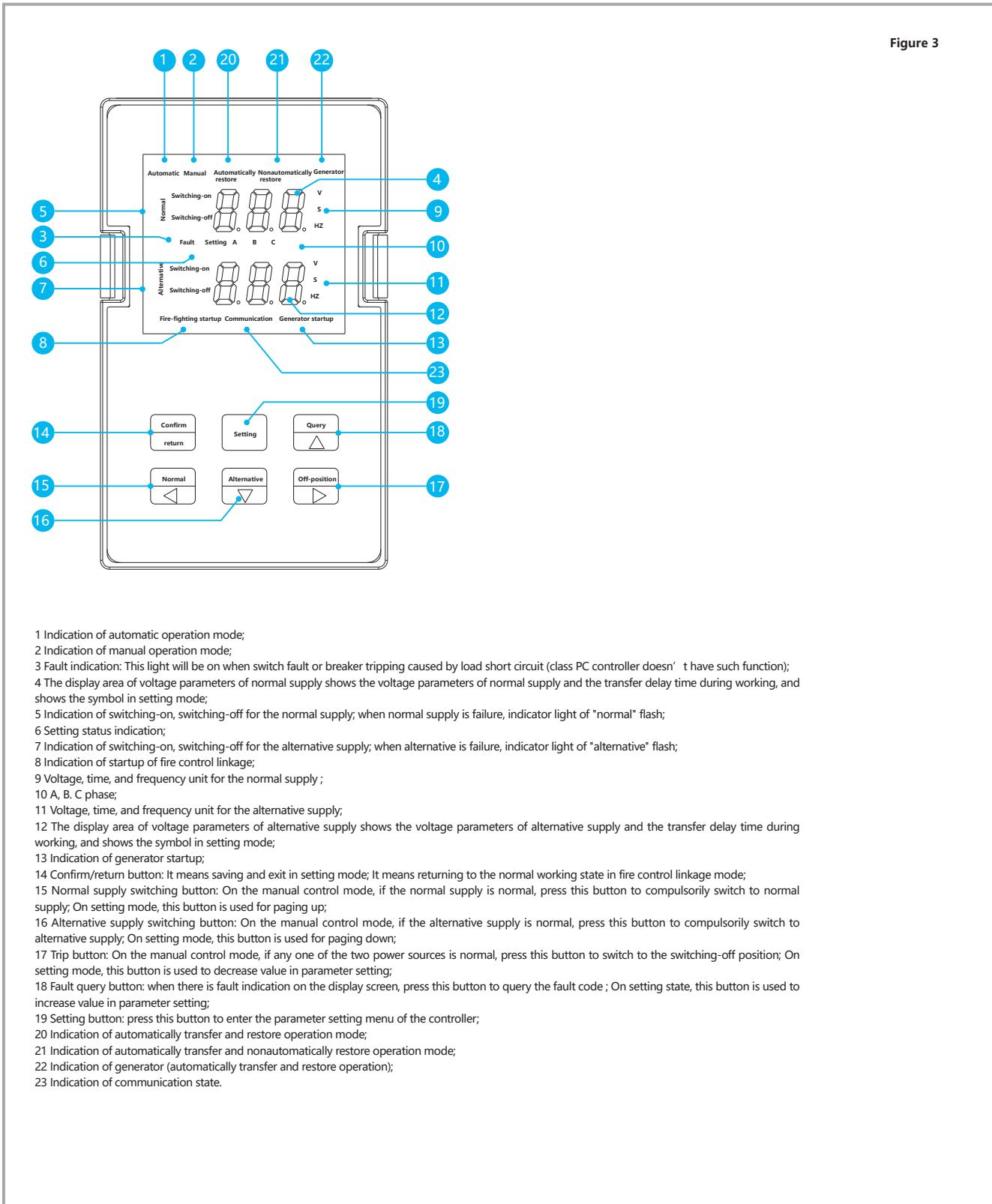
During line repair or fault-based maintenance, put the product on off-position, and then pull out the locking system of the handle, then lock it. The lock hole diameter is $\Phi 5.5$.



5. Functions and characteristics

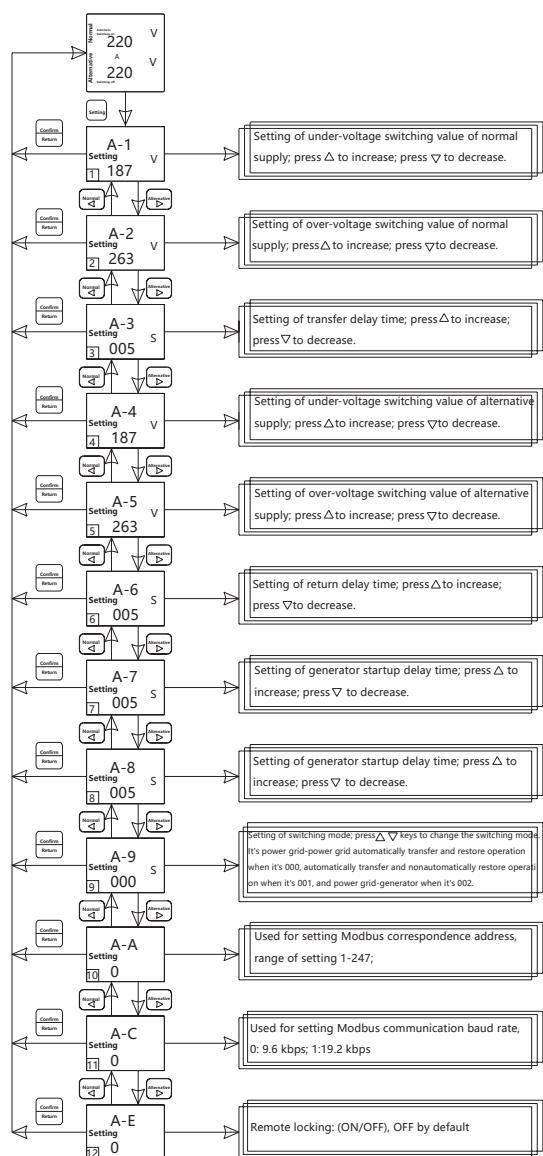
Functional description of NXZ (H) M

Operation interface of the display module of controller



Parameter setting of the display module of controller

Figure 4



Operation interface for parameter setting of controller

- 1 Setting of under-voltage switching value: Default to 187V; user-settable 160V-200V;
- 2 Setting of over-voltage switching value: Default to 263V; user-settable 240V-290V;
- 3 Transfer delay setting: Default to 5s; user-settable 0s-180s;
- 4 Return delay setting: Default to 5s; user-settable 0s-180s;
- 5 Generator startup delay setting: Default to 5s; user-settable 0s-180s;
- 6 Generator standstill delay setting: Default to 5s; user-settable 0s-180s;

■ Note of buttons:

Pressure setup key when the controller is working, and the screen shows the parameter setting menu. Press "◀" "▶" in the setting menu to turn up or down. Press "Confirm/return" key to exit from menu setting; press "▽" "△" to revise parameter.

6. Mode of connection of the main part and controller

Mode of connection of NXZB and NXZHB

Product wiring

The incoming line is connected from the top of product; the outgoing line is connected from the bottom of product; the product can be installed vertically or horizontally.

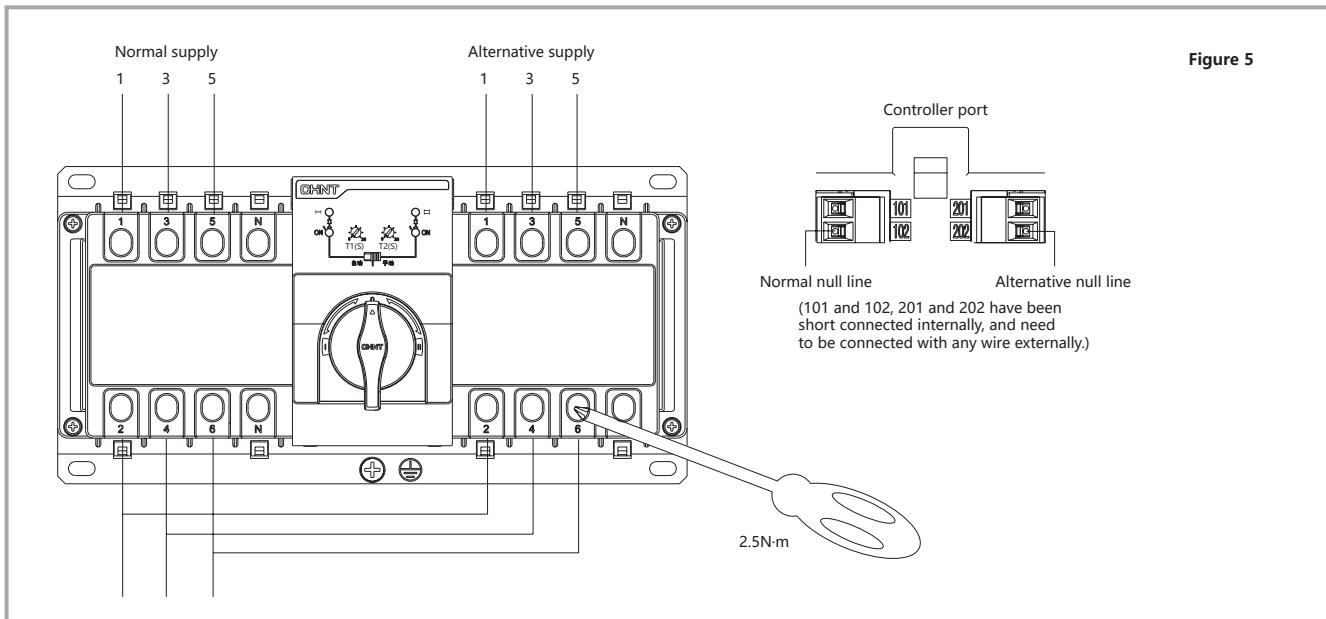
Wiring as follows. The power phase sequence shall be correct; in particular, N pole shall not be wrongly connected.

The connecting wire (electric cable) adopts single core Polyvinyl chloride (PVC) insulated conductor or copper bar of the equivalent effect. Advice as follows:

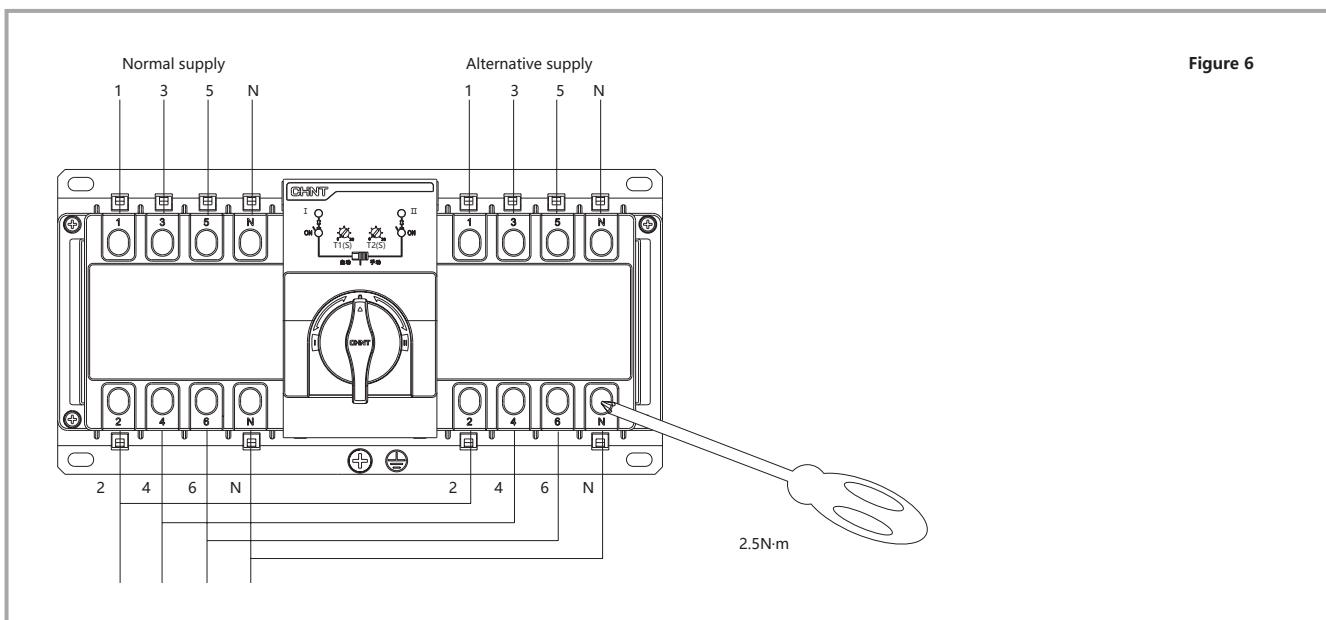
Cross-sectional area of copper conductor

| Safe ampacity (A) | 20 | 25 | 32 | 40 | 50 | 63 |
|---|-----|----|----|----|----|----|
| Cross-sectional area of copper conductor (mm ²) | 2.5 | 4 | 6 | 10 | 10 | 16 |

3P product

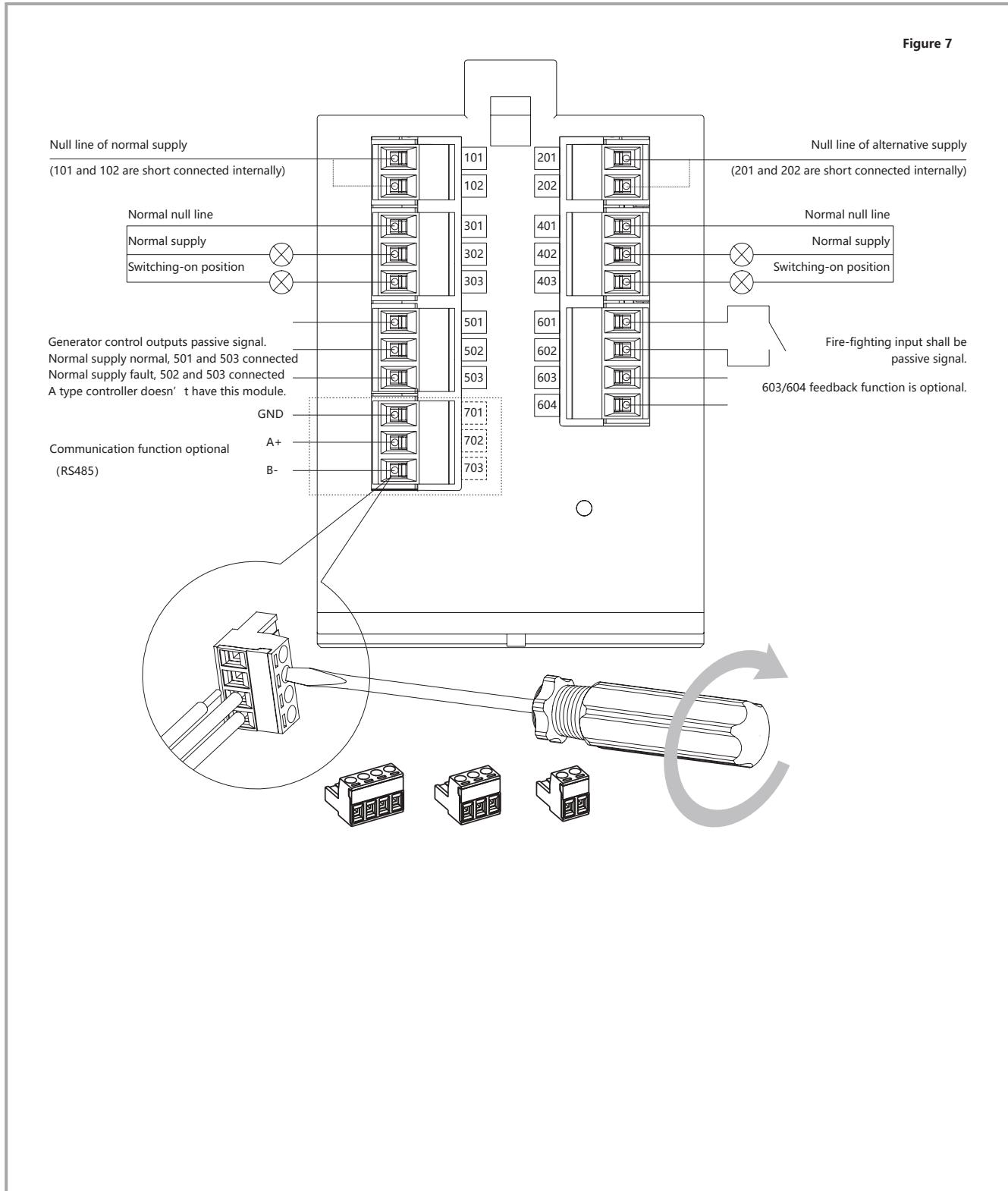


4P product



Signal and control terminal wiring

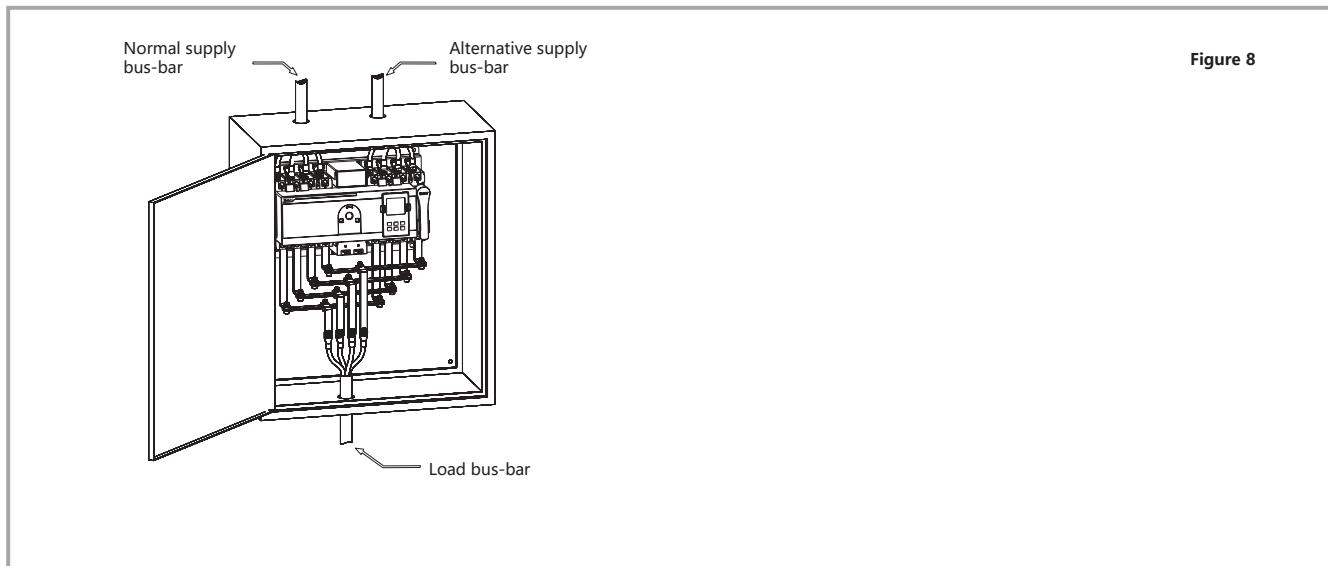
Figure 7



7. Mode of connection of the main part and controller

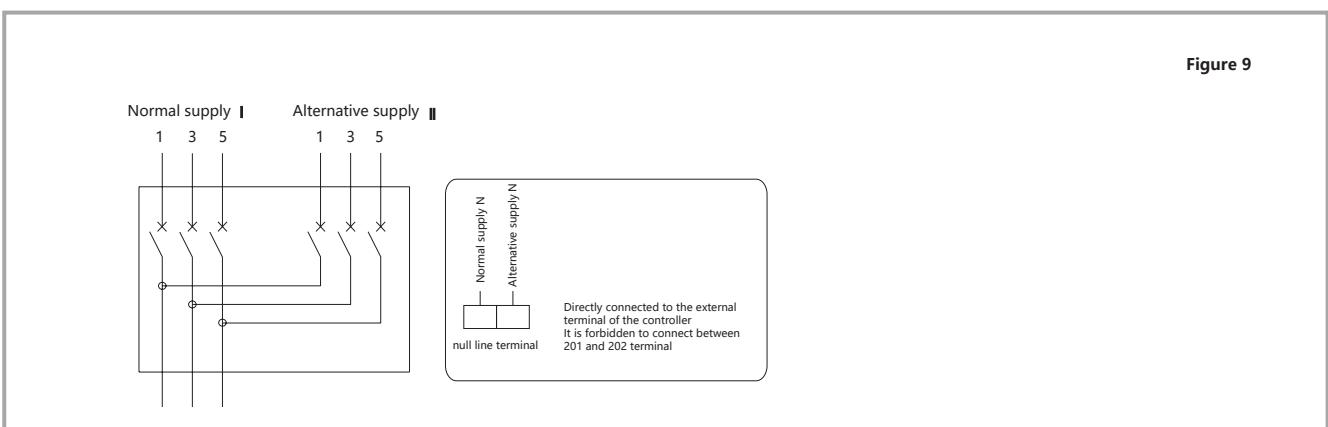
Mode of connection of NXZM and NXZHM

Product incoming line mode: incoming line at the top of product; outgoing line at the bottom of product
 Installation mode: vertically or horizontally

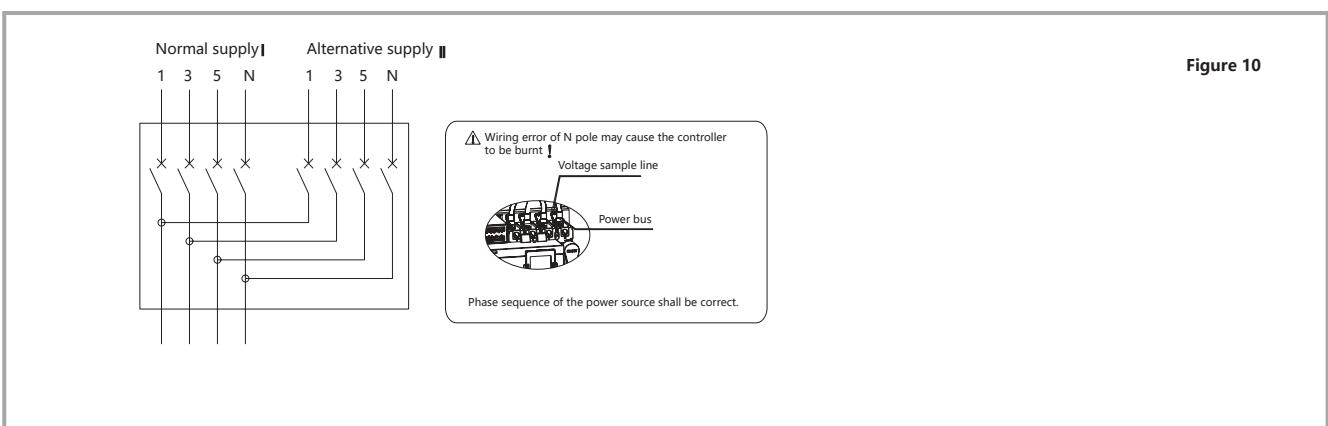


Product wiring

3P

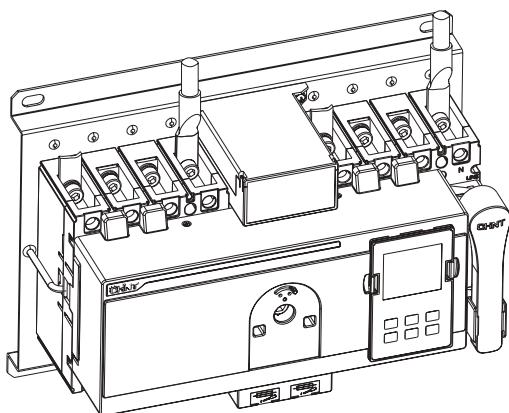
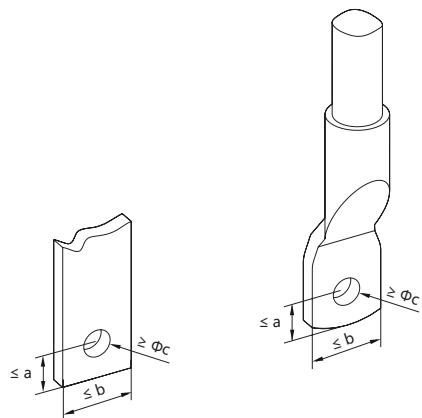


4P



Wire connection

Figure 11



Unit: mm

| Product wiring | a | b | c |
|-----------------|------|------|--------------------|
| MXZ(H)M-63、125 | 6.5 | 14 | 5.5 ($\leq 63A$) |
| | 7.5 | 17 | 6.5 ($> 63A$) |
| MXZ(H)M-160 | 7.5 | 14.5 | 8.5 |
| MXZ(H)M-250、320 | 10 | 23 | 8.5 |
| MXZ(H)M-400、630 | 10.5 | 30.5 | 10.5 |
| MXZ(H)M-800 | 15 | 43 | 14 |

8. Mode of connection of the main part and controller

Installation of interphase barrier

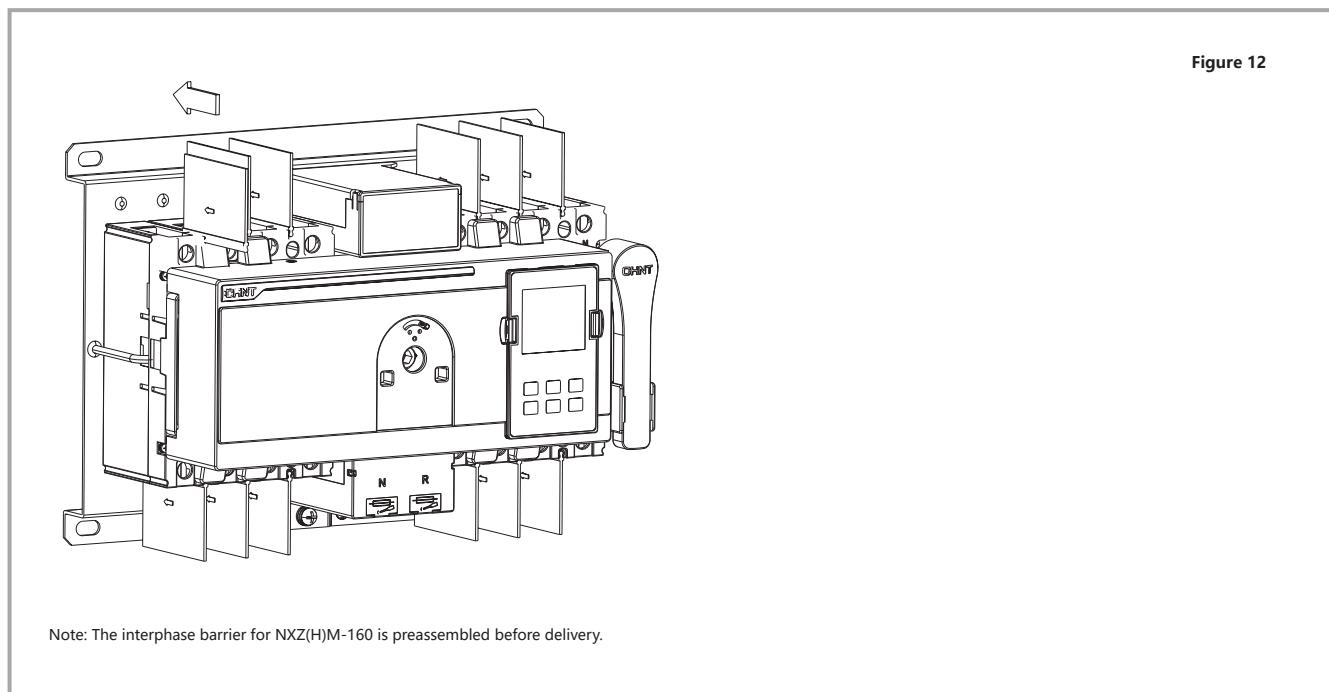


Figure 12

Split type installation of the display module (cabinet door)

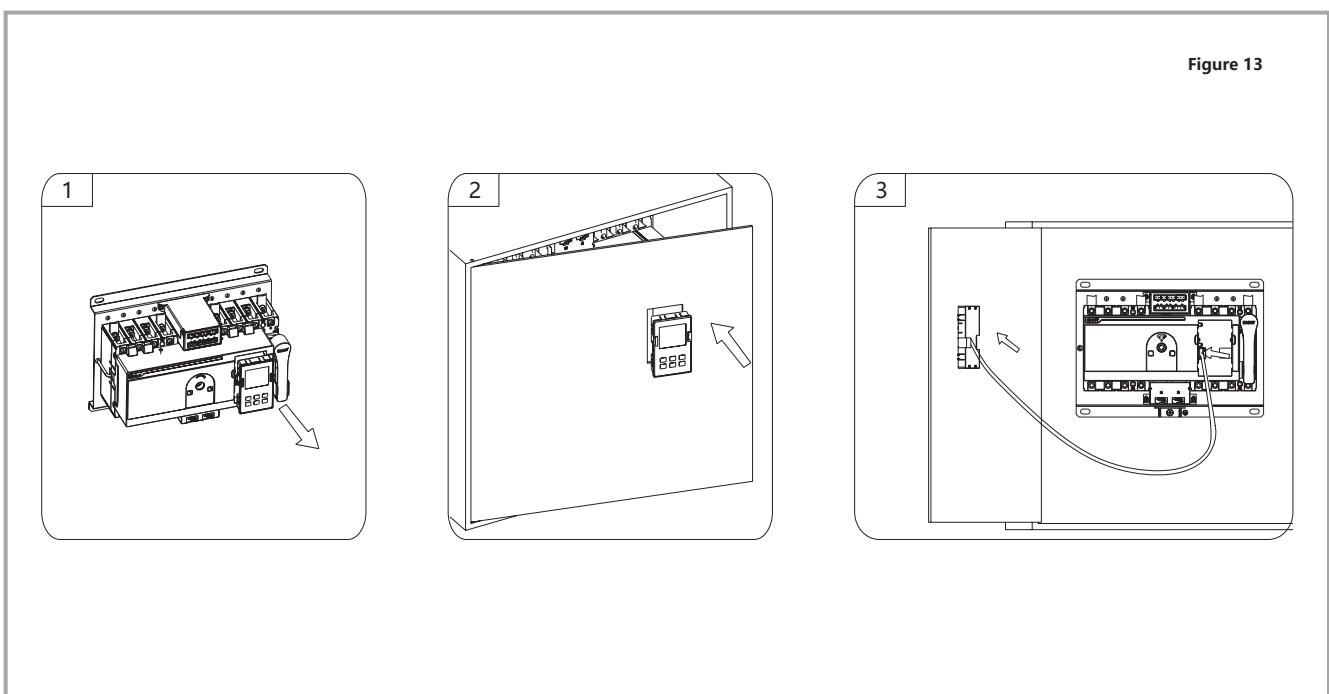
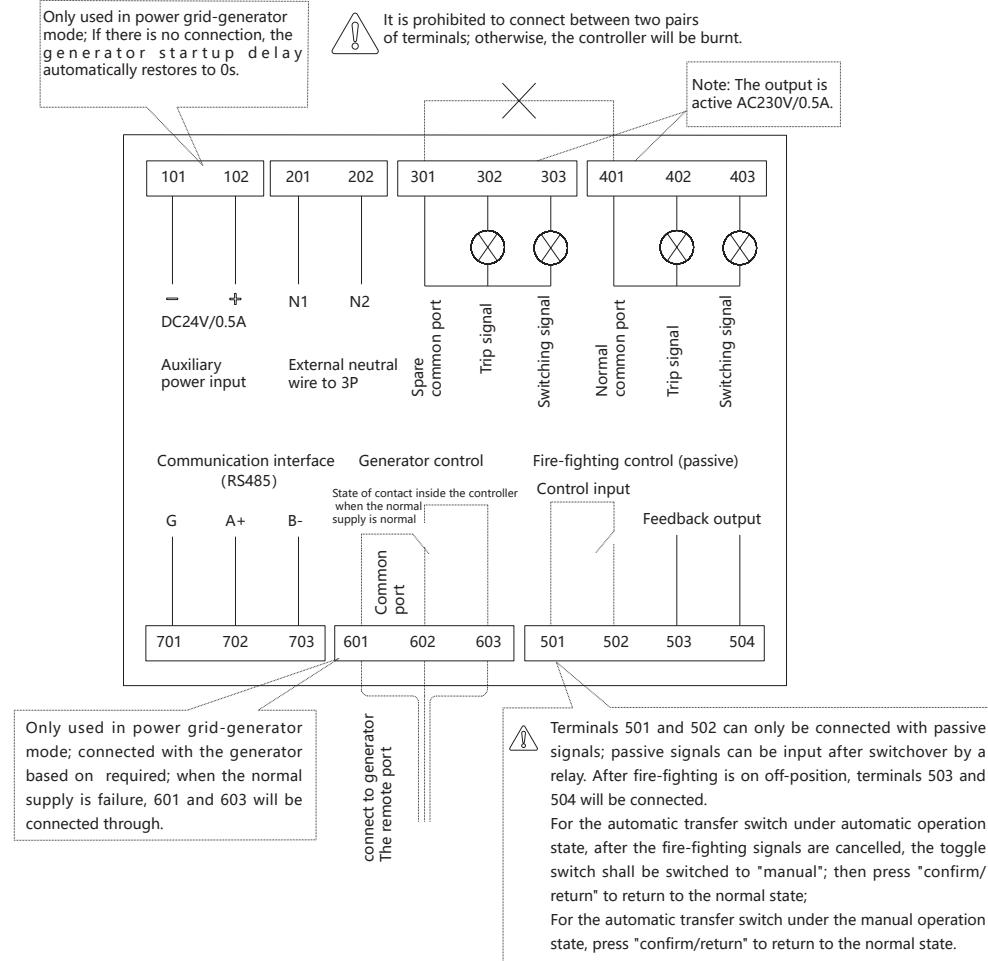


Figure 13

Signal and control terminal wiring

Figure 14



9. Overall and installation dimension

Overall and installation dimension of NXZB and NXZHB

Overall and installation dimension
(the dimension of 3P product and 4P is the same)

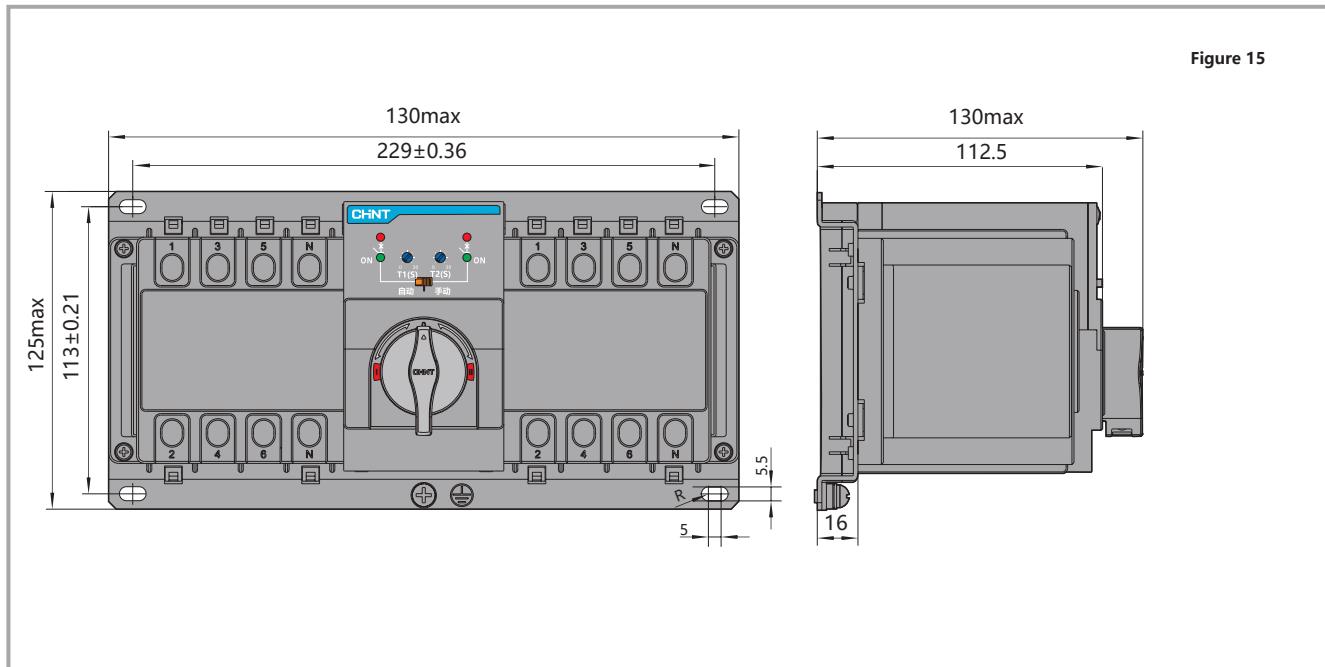


Figure 15

Overall and installation dimension of NXZM and NXZHM

Overall and installation dimension

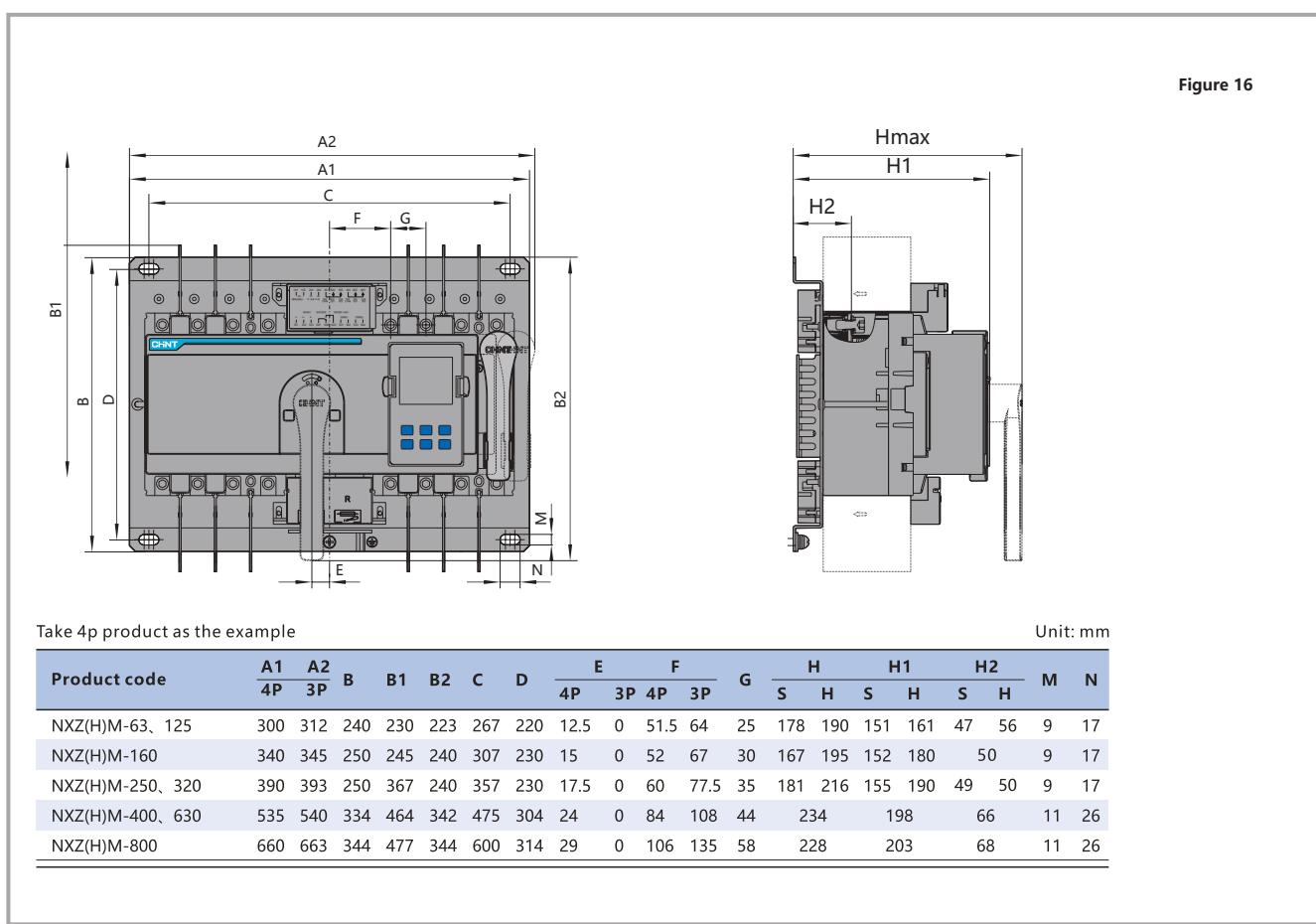


Figure 16

Take 4p product as the example

| Product code | A1 | A2 | B | B1 | B2 | C | D | E | F | G | H | H1 | H2 | M | N |
|-----------------|-----|-----|-----|-----|-----|-----|-----|------|----|------|------|----|-----|-----|-----|
| | 4P | 3P | | | | | | 4P | 3P | 4P | 3P | S | H | S | H |
| NXZ(H)M-63、125 | 300 | 312 | 240 | 230 | 223 | 267 | 220 | 12.5 | 0 | 51.5 | 64 | 25 | 178 | 190 | 151 |
| NXZ(H)M-160 | 340 | 345 | 250 | 245 | 240 | 307 | 230 | 15 | 0 | 52 | 67 | 30 | 167 | 195 | 152 |
| NXZ(H)M-250、320 | 390 | 393 | 250 | 367 | 240 | 357 | 230 | 17.5 | 0 | 60 | 77.5 | 35 | 181 | 216 | 155 |
| NXZ(H)M-400、630 | 535 | 540 | 334 | 464 | 342 | 475 | 304 | 24 | 0 | 84 | 108 | 44 | 234 | 198 | 66 |
| NXZ(H)M-800 | 660 | 663 | 344 | 477 | 344 | 600 | 314 | 29 | 0 | 106 | 135 | 58 | 228 | 203 | 68 |

Unit: mm

Overall dimension of split type module (unit: mm)

