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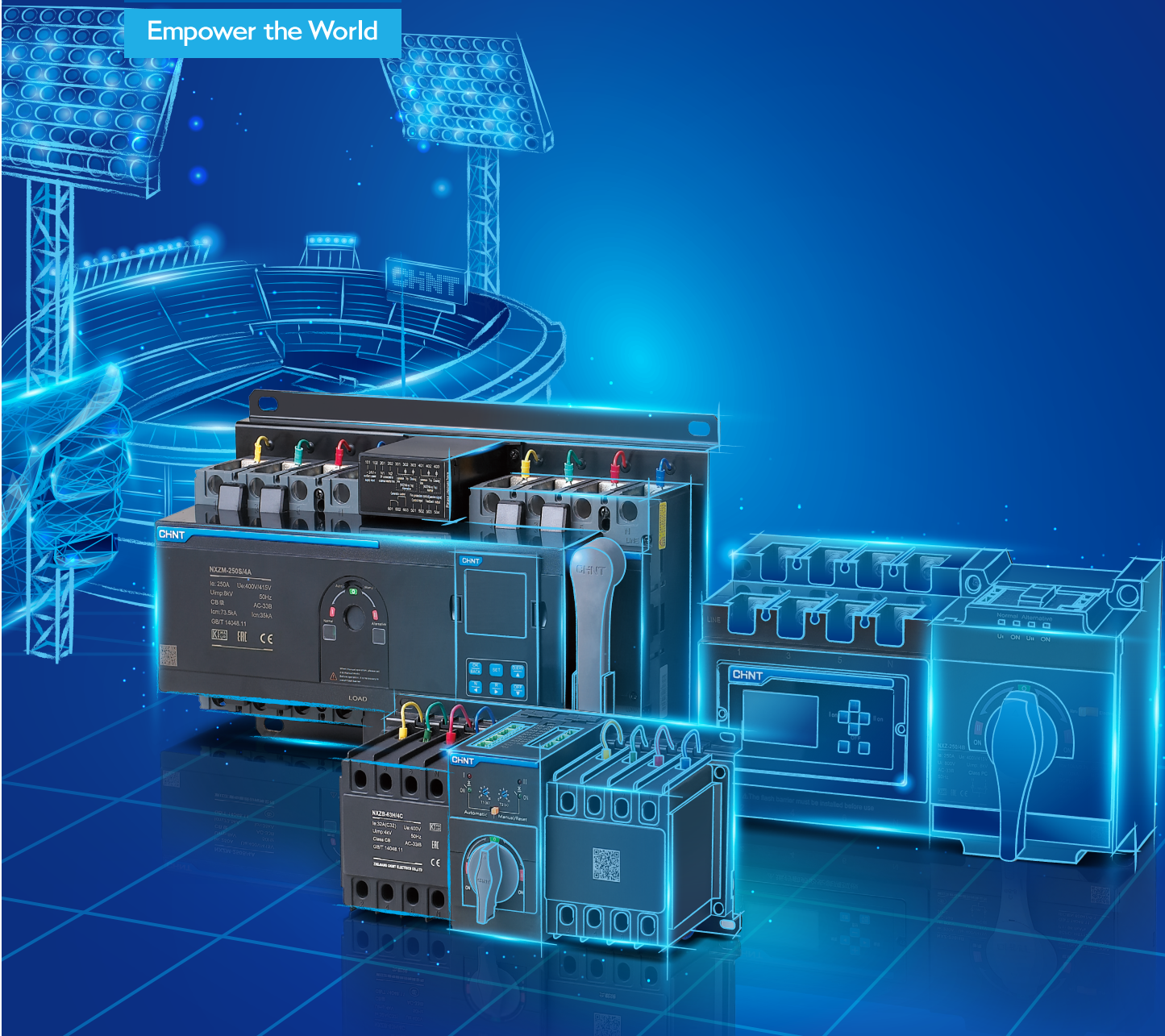
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Series Automatic Transfer Switching Equipment



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A CHNT COMPANY

Series Automatic Transfer Switching Equipment

NXZ Series Automatic Transfer Switching Equipment

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

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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

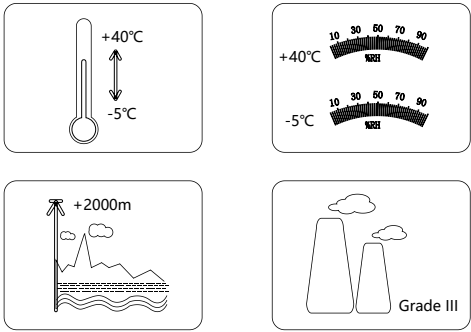
- IEC 60947-1.
- IEC 60947-6-1.

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.

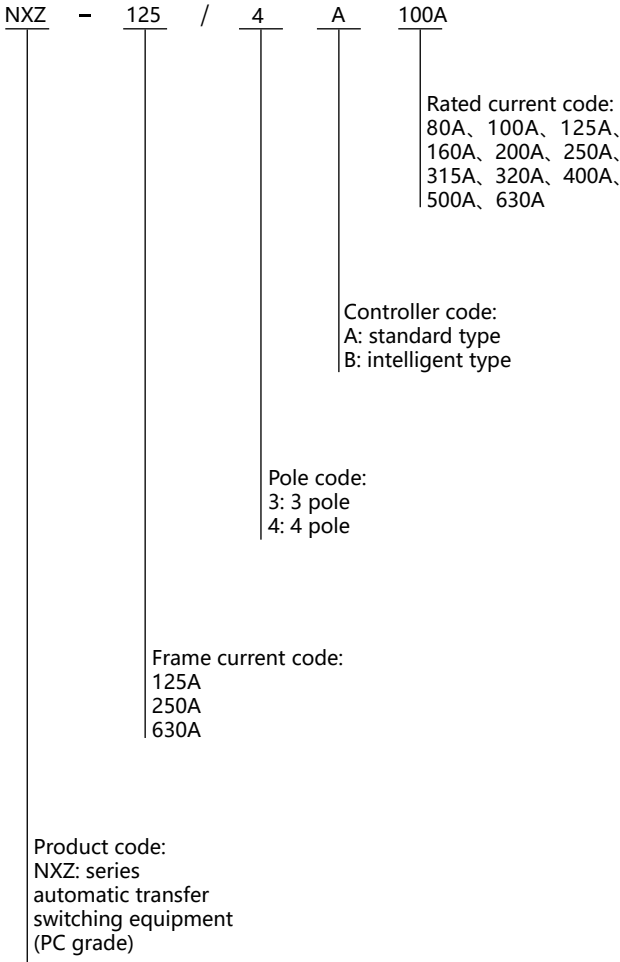
Installation category of auxiliary circuit is category III.

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

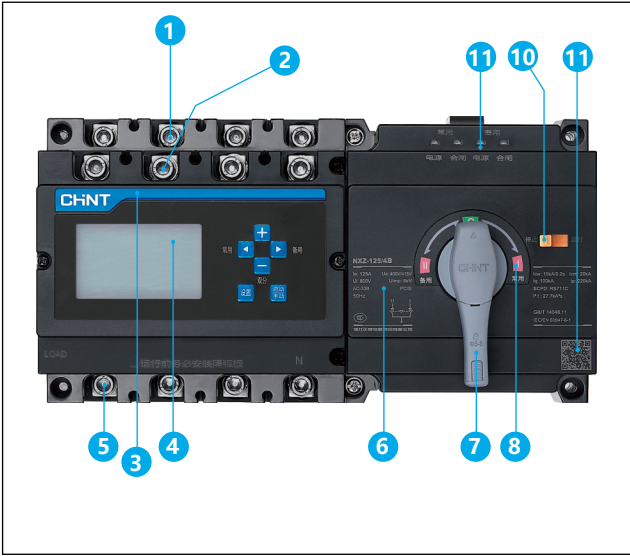


Type selection example:
NXZ-125/4A 125A: To order an Automatic Transfer Switching Equipment of which the frame current is 125A, number of poles is 4P, rated current is 125A, with a standard controller
Note: when the controller is installed in split type, the split wire needs to be ordered separately.

Comparison Table of Frame Current and Rated Current

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

Structural Features of the Automatic Transfer Switching Equipment



- 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

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		

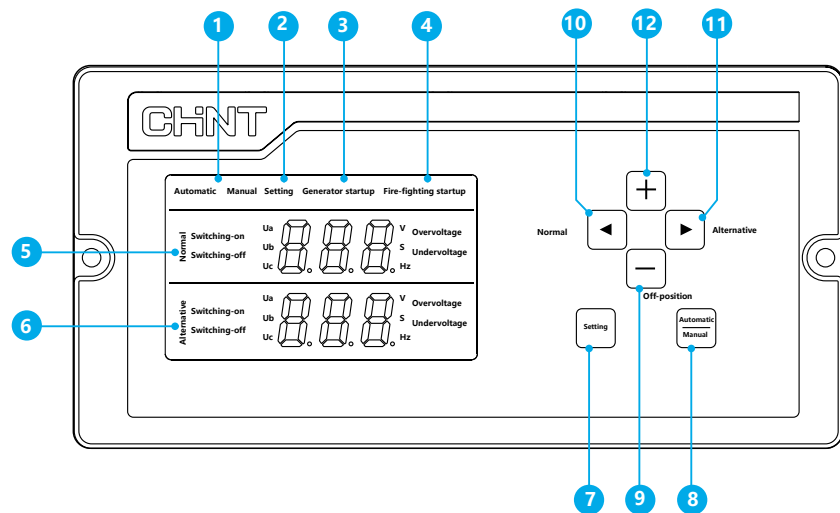
Parameters of controller

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
Return delay		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

4. Functions and characteristics

Operation interface of the display module of controller

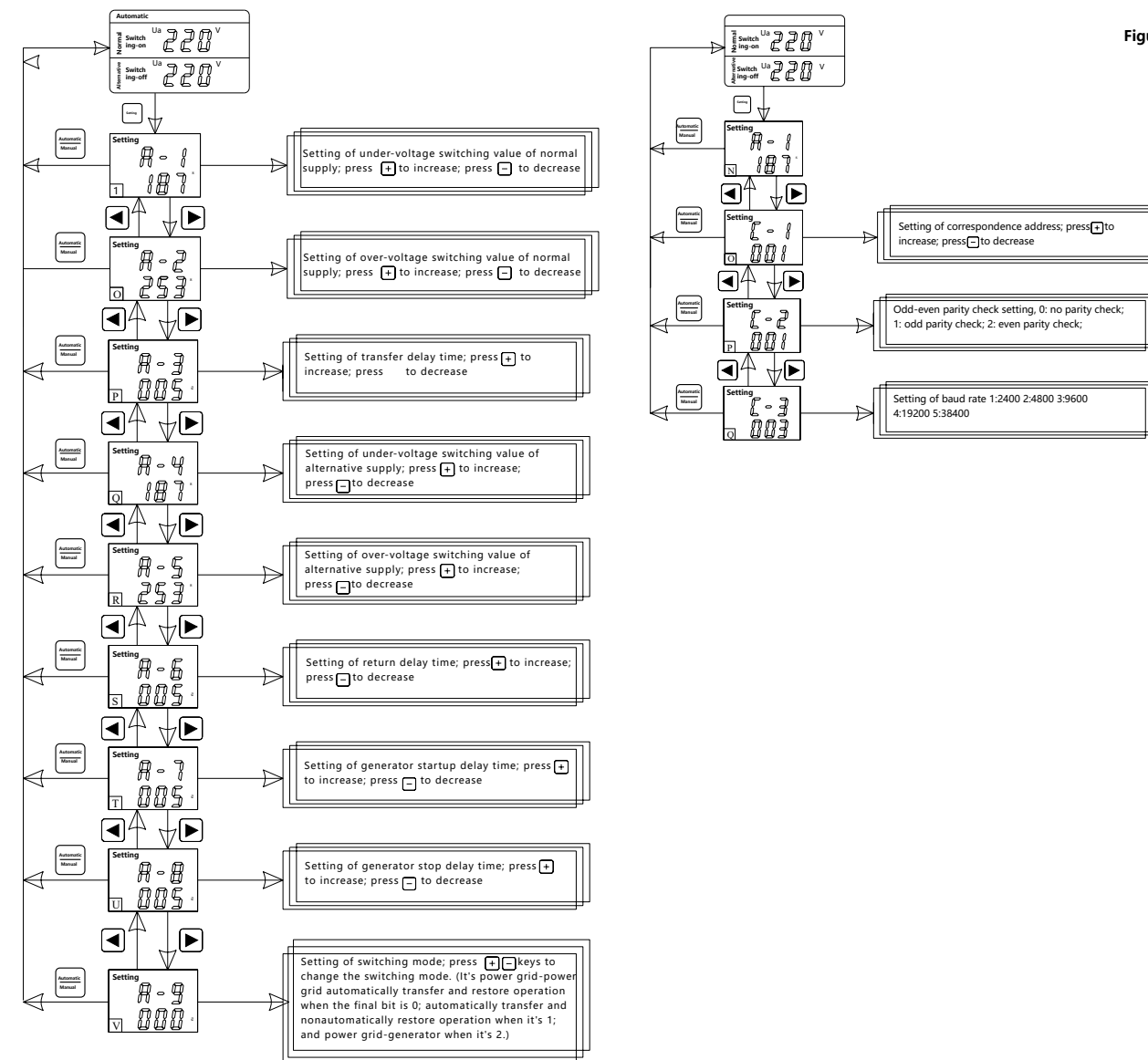
Figure 1



1. Indication of automatic/manual operation mode
2. Setting status indication
3. Indication of the startup signal of generator
4. Indication of start of the fire control linkage function
5. Display area of the status parameters of normal supply: Display the voltage parameters and Transfer delay time of normal supply in working state; display the setting item parameters in setting state;
6. Display area of the status parameters of alternative supply: Display the voltage parameters and return delay time of alternative supply in working state; display the setting item parameters in setting state;
7. Setting button (press this button to enter the parameter setting menu of the controller);
8. Automatic/manual transfer mode selector button: used for selection of automatic/manual transfer mode in normal working state; used for save and exit in setting state;
9. Off-position button: under the manual control mode, any one of the two power supply is normal, press this button to make automatic transfer switching equipment on off-position; Under setting mode, this button is used to decrease value in parameter setting;
10. Normal supply transfer button: under the manual control mode, the switch is on alternative position, press this button to switch on normal supply; under setting mode, this button is used for pageup in parameter setting;
11. Alternative supply transfer button: under the manual control mode, the switch is on normal position, press this button to switch on alternative supply; under setting mode, this button is used for pagedown in parameter setting;
12. + button: Under setting mode, this button is used for increase value in parameter setting.

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

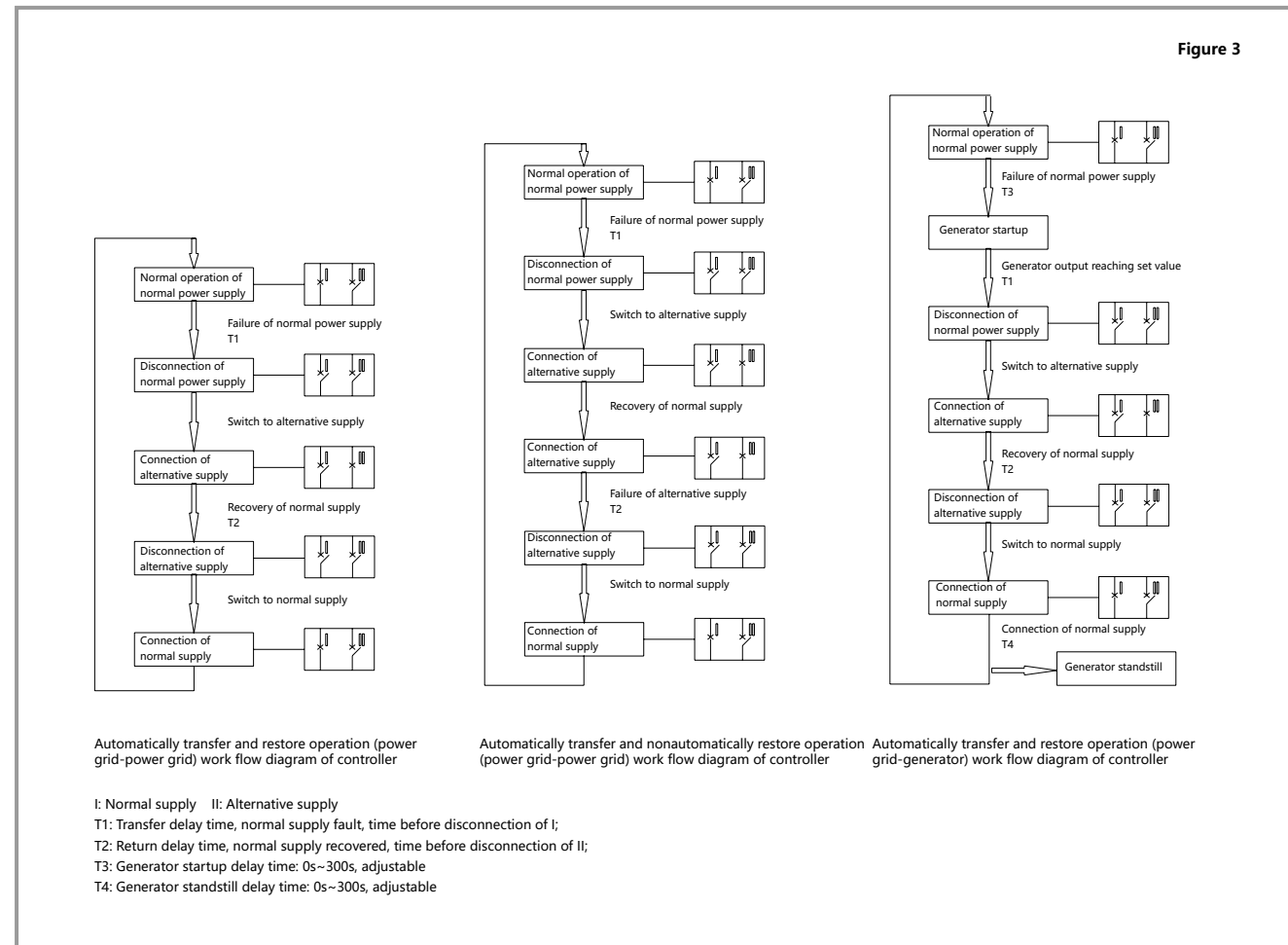
■ Buttons:

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)

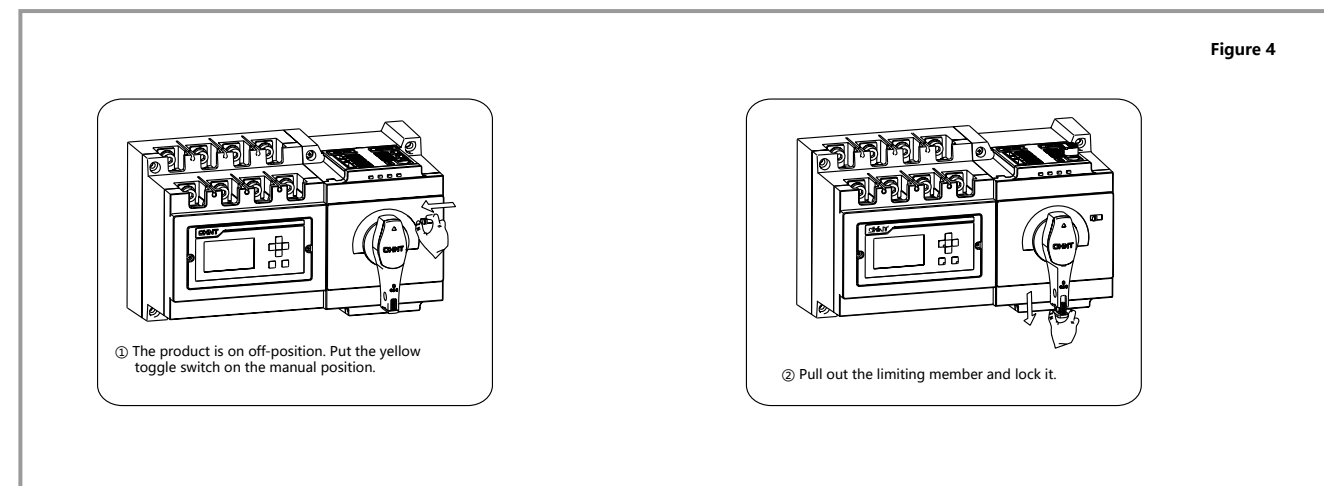
5. Functions and characteristics

Controller action flow



Padlocking function

Padlock aperture $\Phi 5 \sim \Phi 8$ (mm)

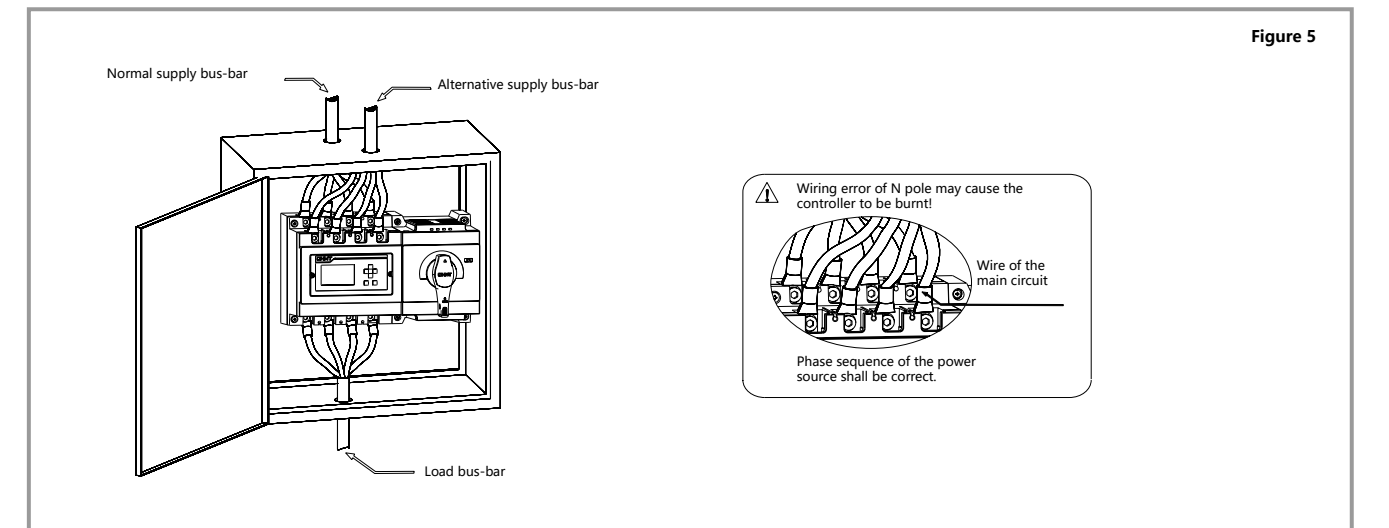


Communication function

Modbus protocol; RS485 interface.

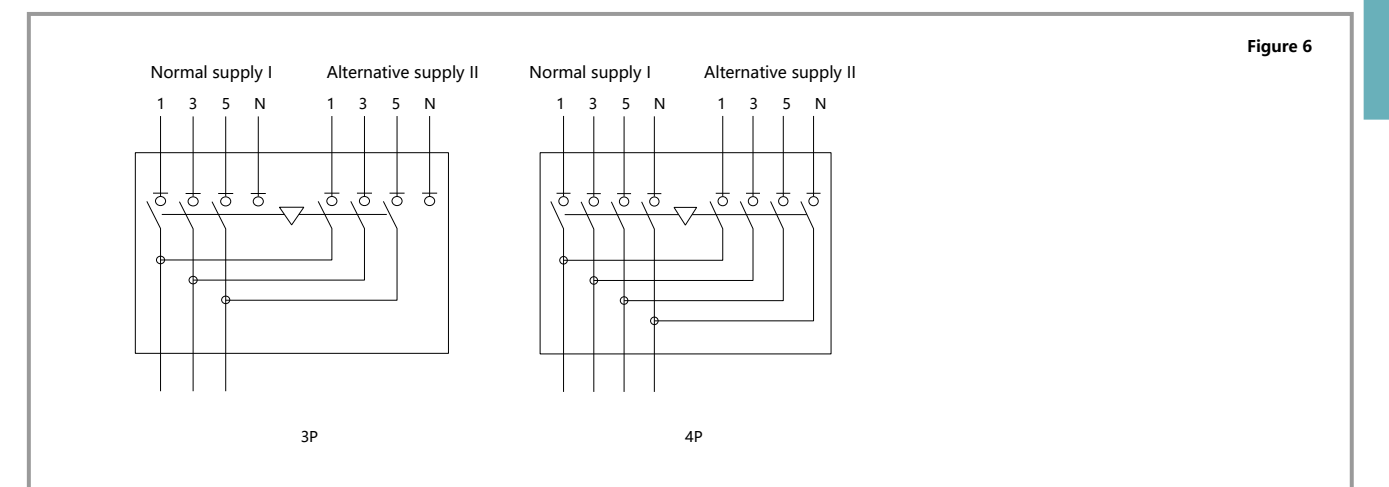
6. Mode of connection of the main part and controller

Product incoming mode: upper incoming



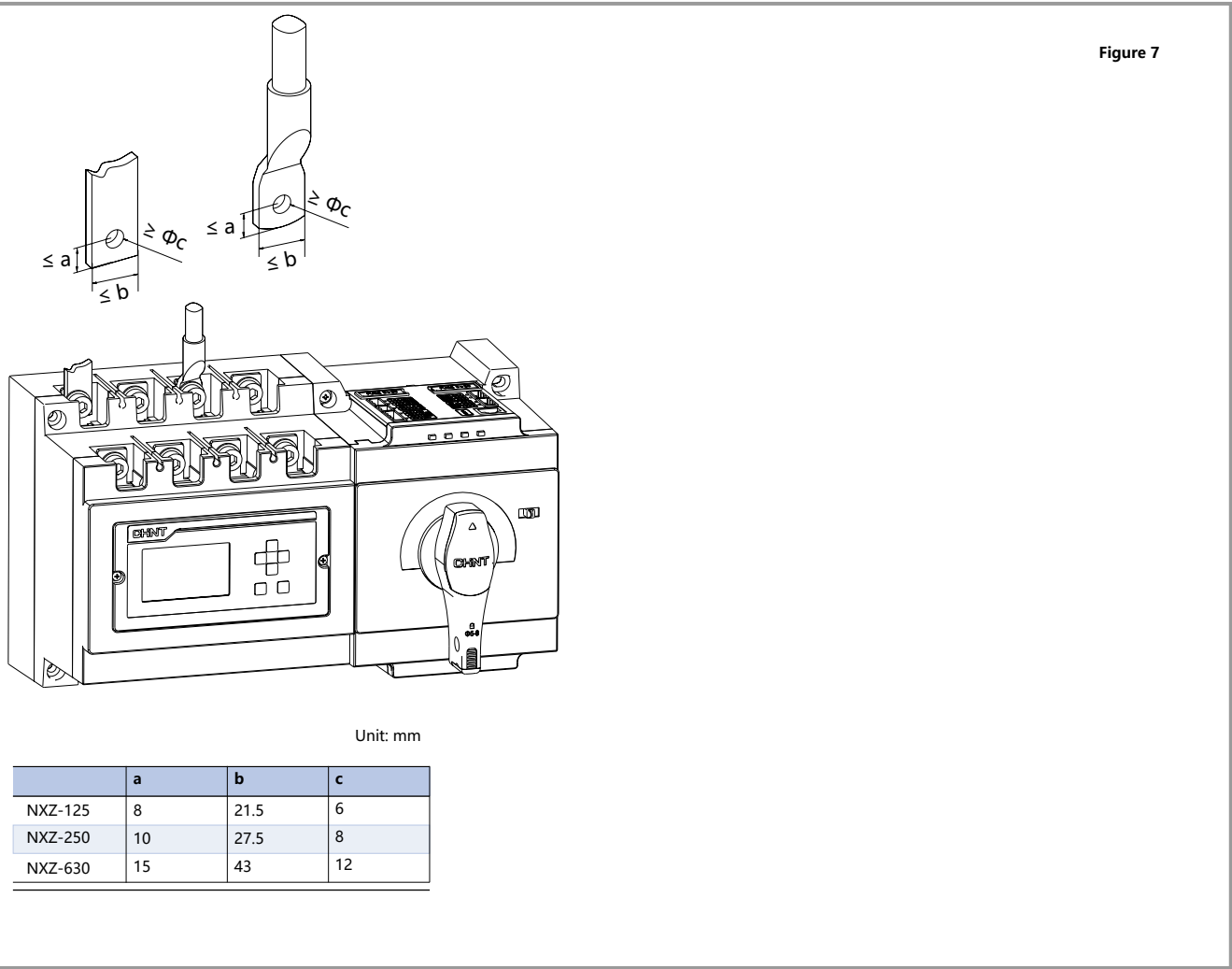
Installation mode: vertical or horizontal

Product wiring

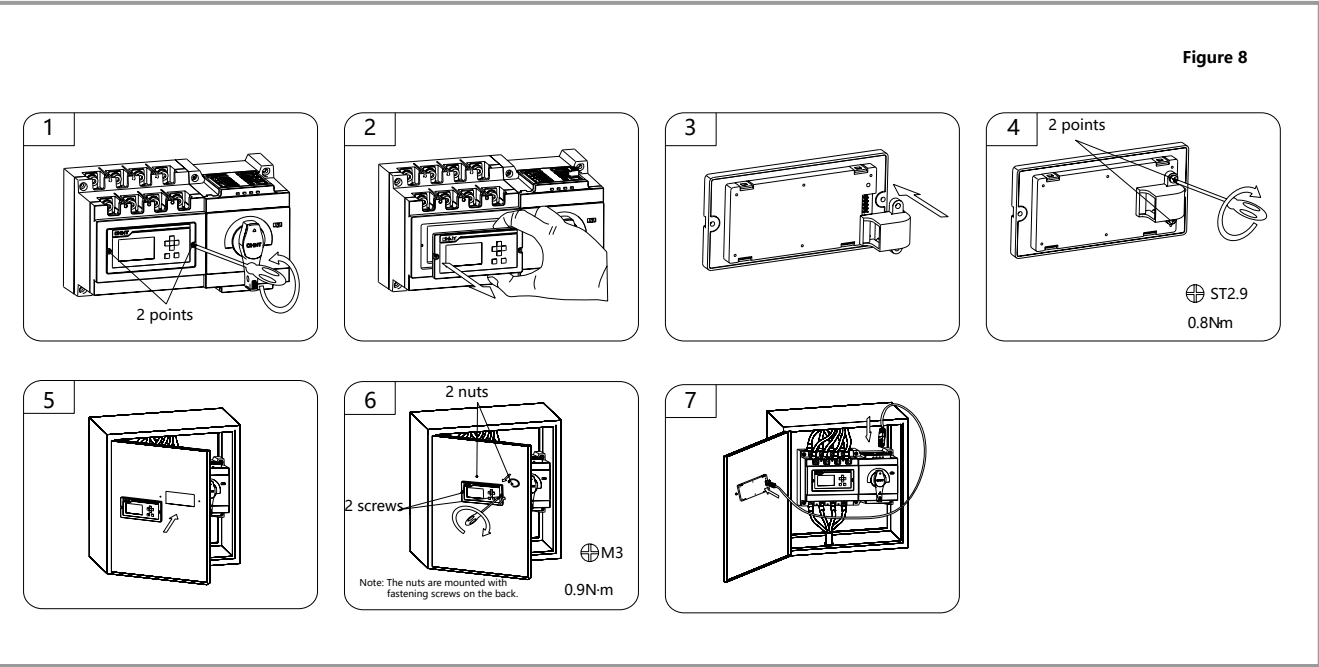


7. Mode of connection of the main part and controller

Wire connection

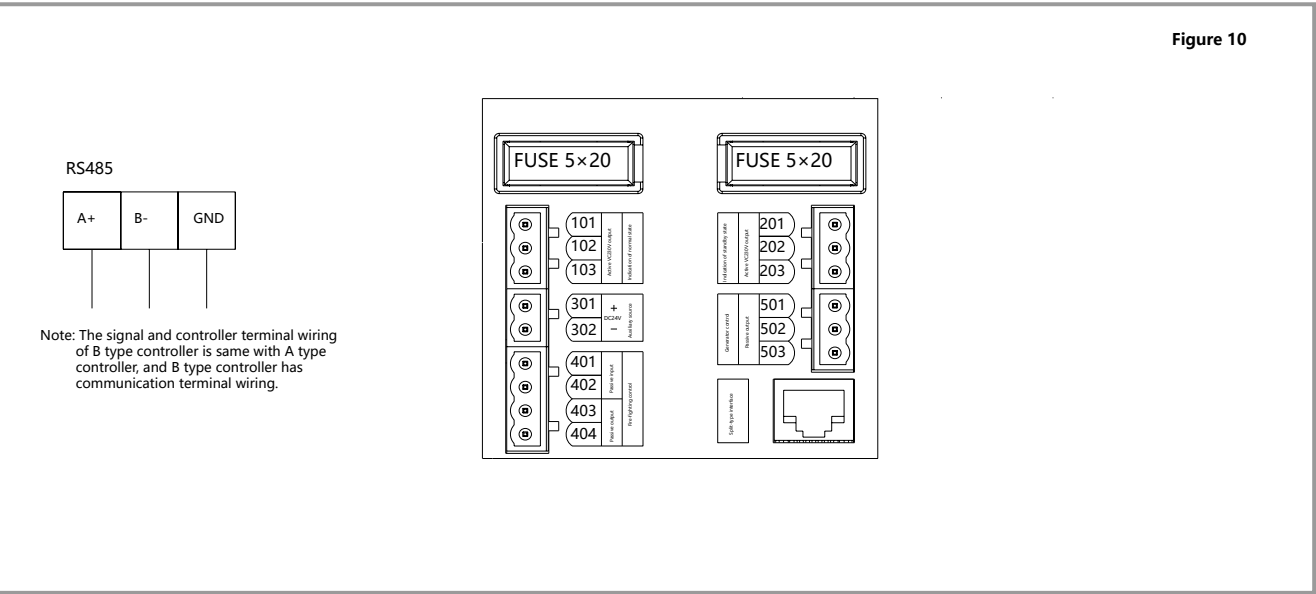
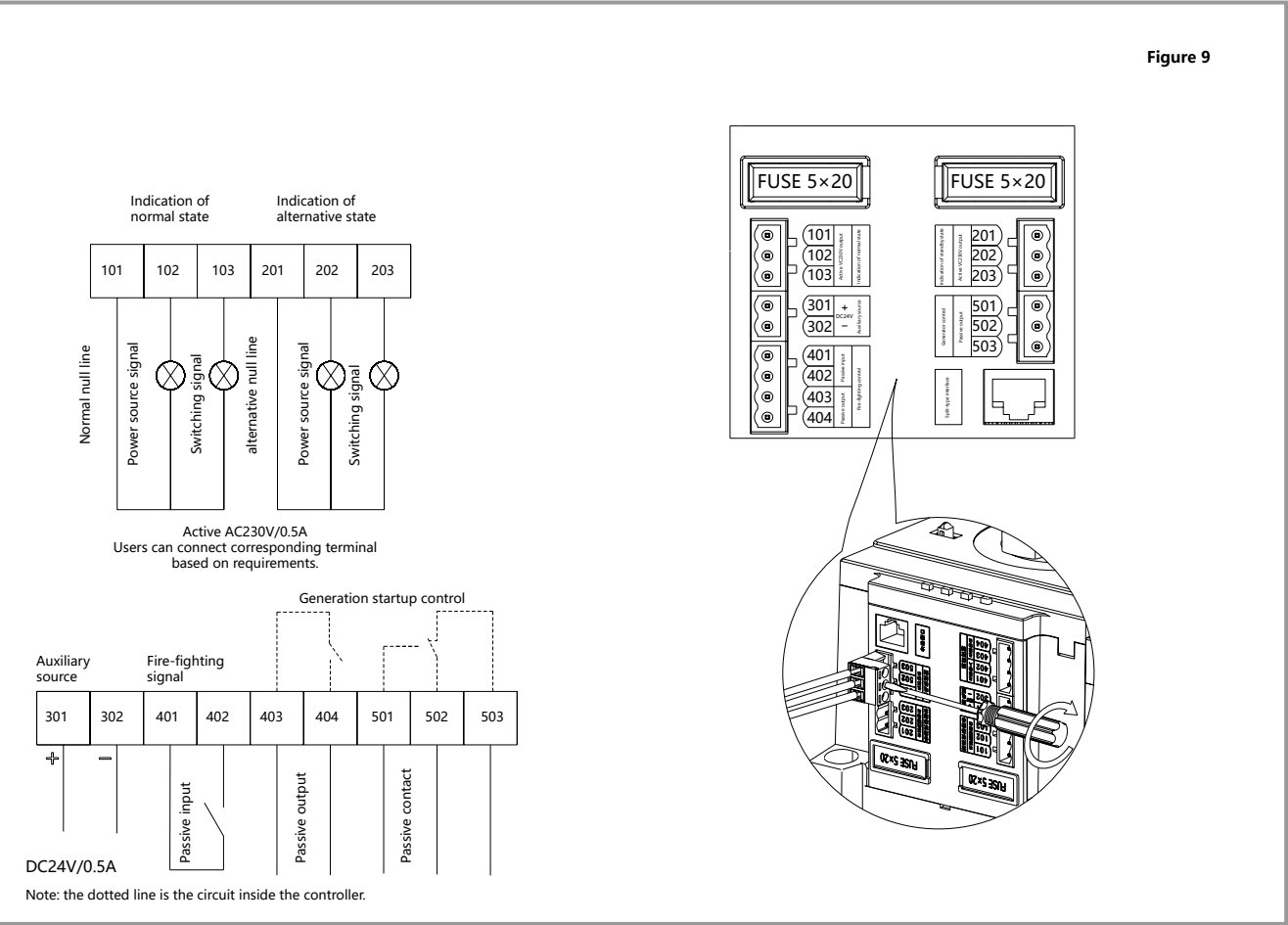


Split type installation of the display module (cabinet)



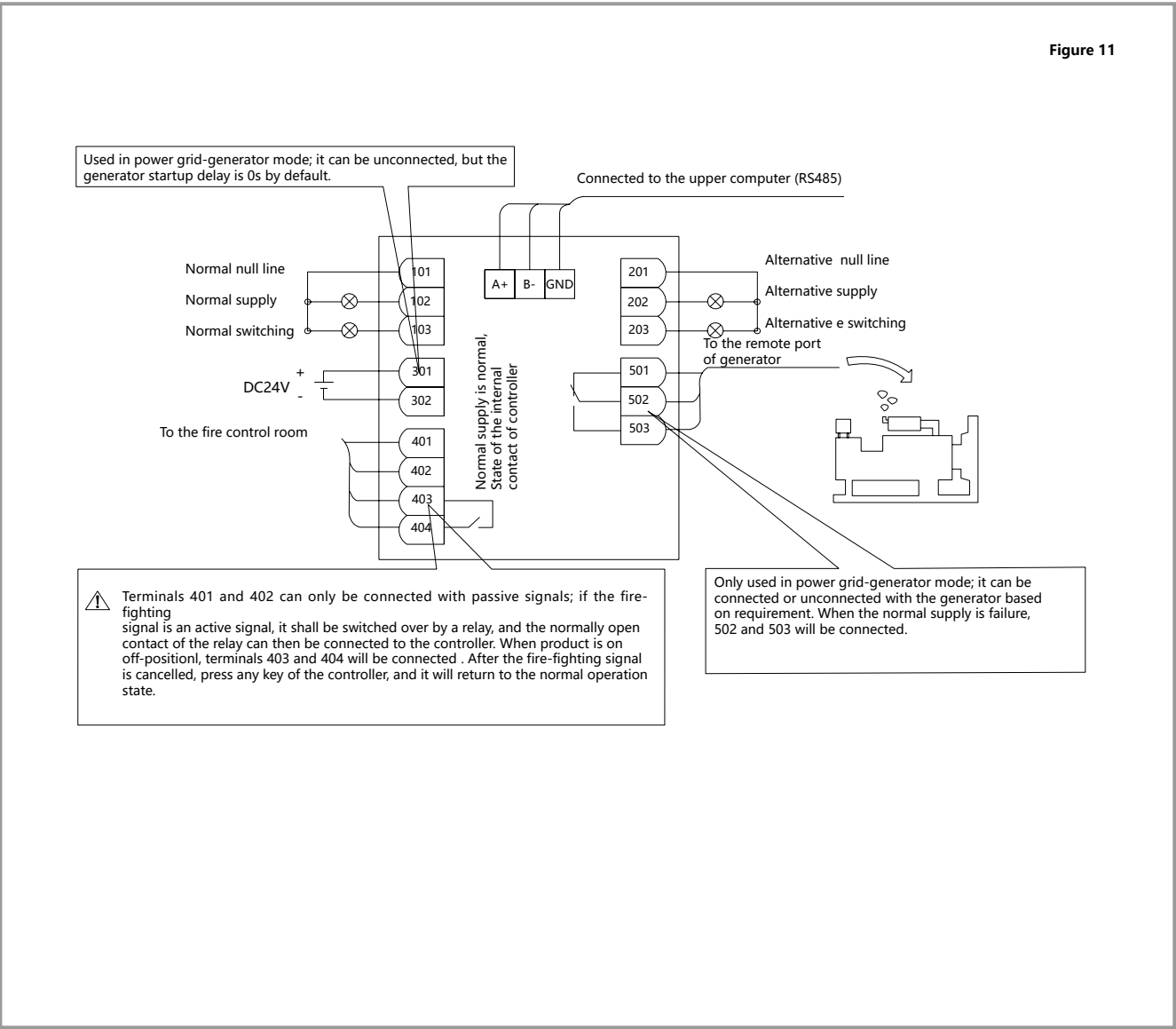
Wiring of signal and control terminal

A type controller



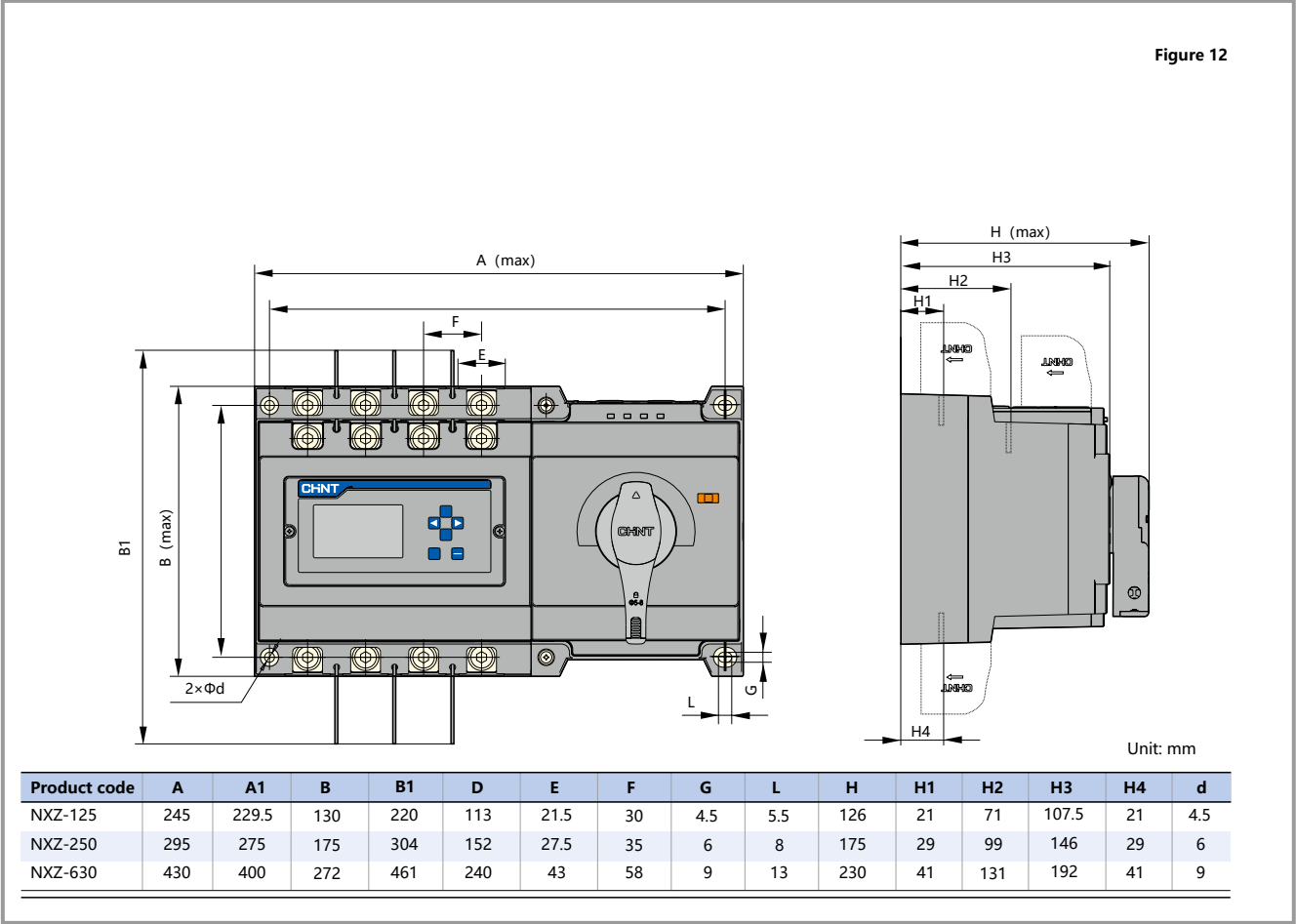
8. Mode of connection of the main part and controller

Typical application

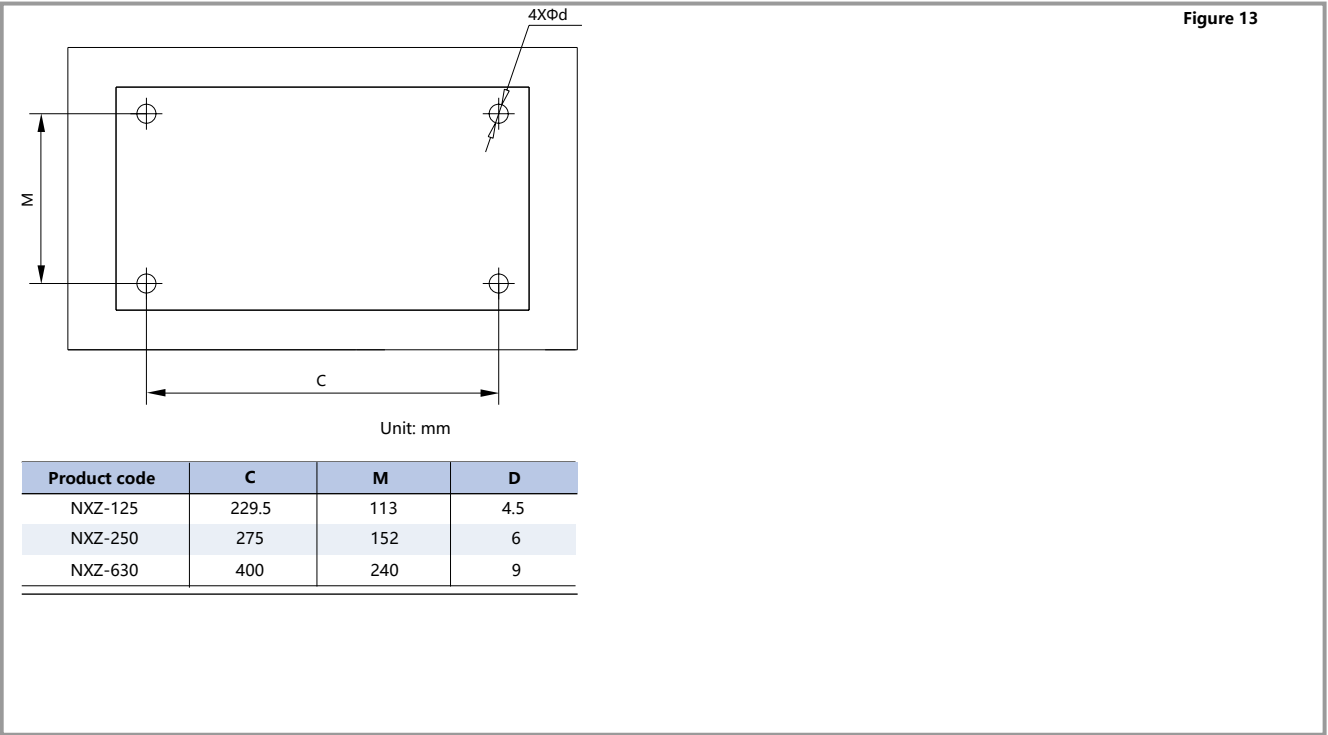


9. Overall and installation dimension

Product overall and installation dimension

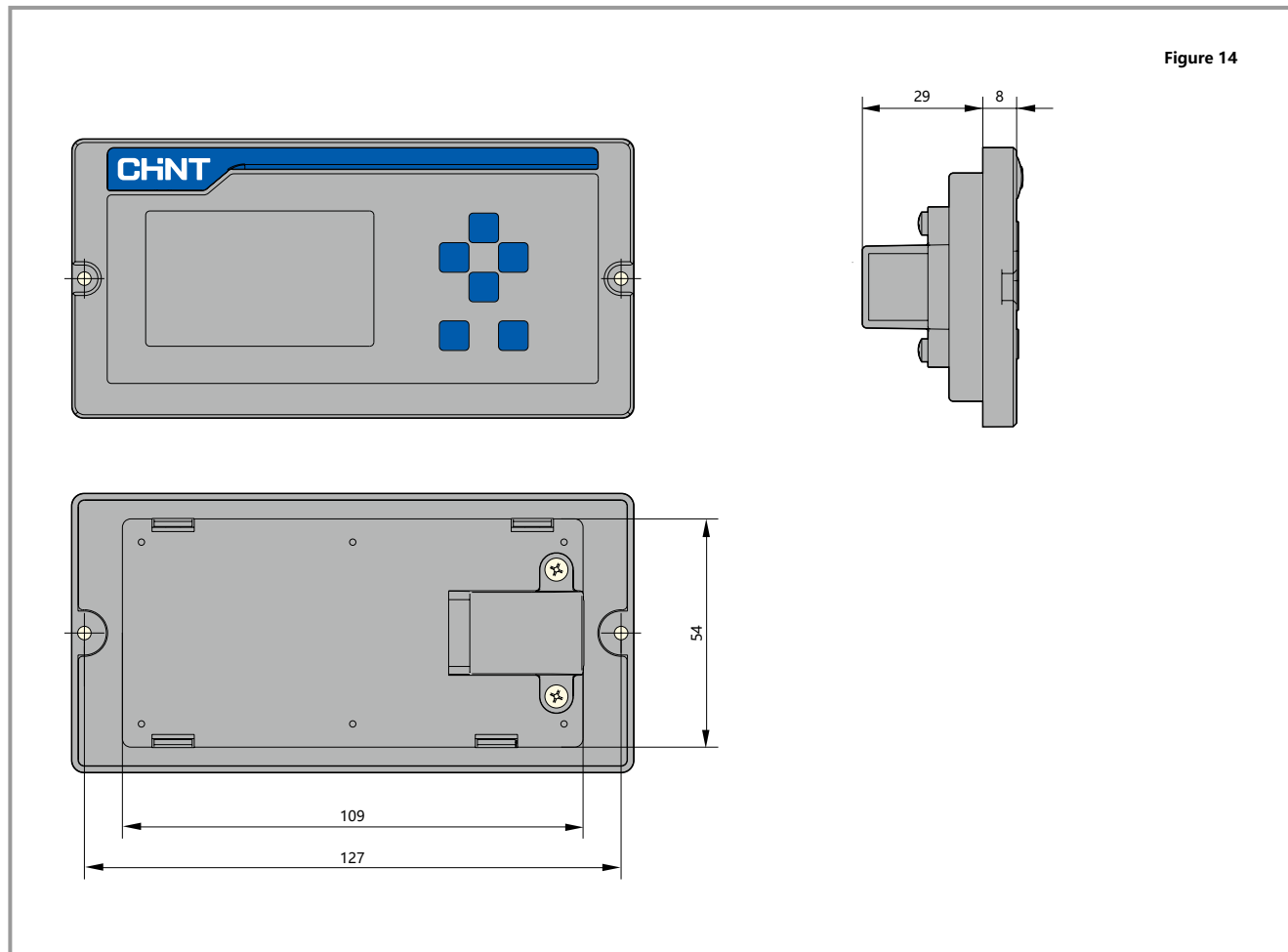


Hole size of the product installation plate



10. Overall and installation dimension

Overall dimension of split type module (unit: mm)



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

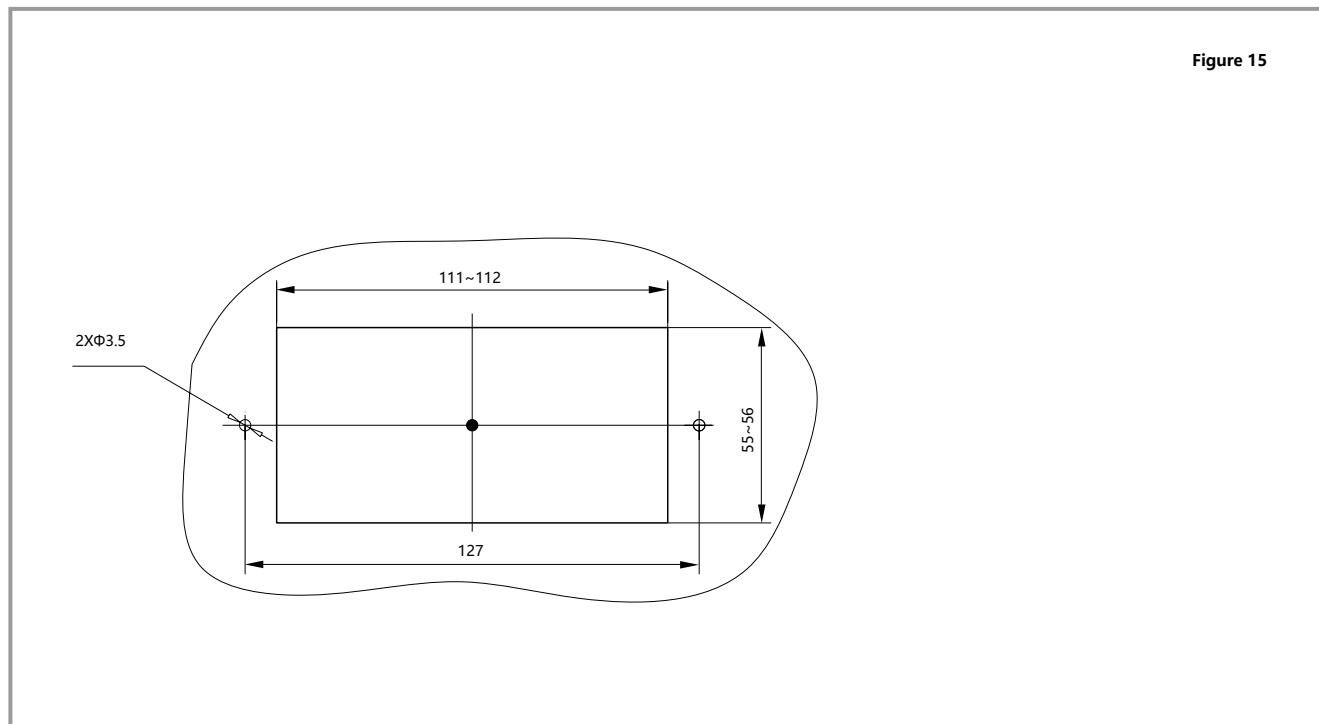


Figure 14

Figure 15



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.

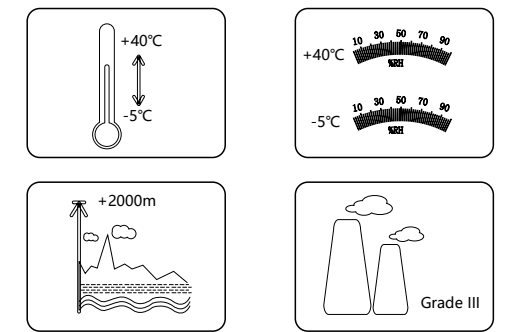
1.2 Applicable standards

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.

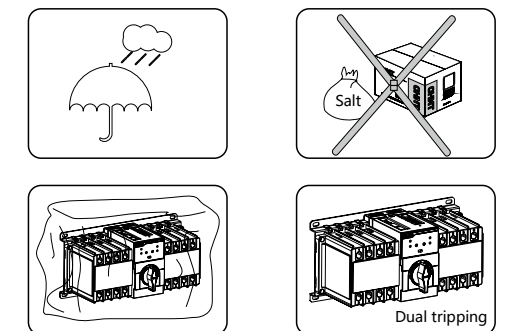
1.3.2 Sea level elevation

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
NXZHB: 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)

NXZB	-	63	H	/	4	A	T	C	63
									Rated current code: 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
									Tripping type code: C: C type D: D type
									Function code: Empty: no communication function T: communication function
									Controller code: A: standard type C: intelligent type
									Pole: 3: 3 poles 4: 4 poles
									Breaking capacity code: S: 6kA H: 10kA
									Frame current code: 63A
									Product code: NXZB: series automatic transfer switching equipment

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).

NXZM (Class CB)

NXZM	-	250	H	/	4	A	2	160A
								Rated current code: 10A~800A
								Function code: Empty: power distribution protection 2: generator protection
								Controller code: A: standard type B: intelligent type
								Pole : 3: 3 poles 4: 4 poles
								Breaking capacity code: S: standard H: higher
								Frame current code: 63A、125A、 160A、250A、 320A、400A、 630A、800A
Product code: NXZM: automatic transfer switching equipment								

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.

Comparison Table of Frame Current and Rated Current

[illegible]

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

[illegible]

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)	9.18	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)

Model	NXZM-63	NXZM-125	NXZM-160	NXZM-250	NXZM-400	NXZM-630	NXZM-800
Electrical characteristics							
Execution body	NXM-63	NXM-125	NXM-160	NXM-250	NXM-400	NXM-630	NXM-800
Frame current (A)	63	125	160	250	400	630	800
Rated current (A)	10, 16, 25, 32, 40, 50, 63	63, 80, 100, 125	125, 160	160, 180, 200, 225, 250	250, 315, 350, 400	400, 500, 630	630, 700, 800
Rated operational voltage Ue (V)	400/415 50Hz						
Rated insulation voltage Ui (V)	AC800	AC800	AC800	AC1000	AC1000	AC1000	AC1000
Rated impulse voltage Uimp (kV)	8				12		
Use type	AC-33B						
Number of poles	3P、4P						
Rated short-circuit making capacity Icm (kA)	S: 52.5 H: 105	S: 52.5 H: 105	S: 73.5 H: 105	S: 73.5 H: 105	S: 105 H: 154	S: 105 H: 154	S: 105 H: 165
Rated short-circuit breaking capacity Icn (kA)	S: 25 H: 50	S: 25 H: 50	S: 35 H: 50	S: 35 H: 50	S: 50 H: 70	S: 50 H: 70	S: 50 H: 75
Mechanical endurance (times)	10000	10000	8000	6000	4000	4000	4000
Electrical endurance (times)	2000	2000	2000	2000	1500	1500	1000
Controller characteristics							
Controller model	A type (standard), B type (intelligent)						
Operating transfer (s)	2.8 × (1±10%)	2.8 × (1±10%)	3.3 × (1±10%)	3.3 × (1±10%)	3.3 × (1±10%)	3.5 × (1±10%)	3.5 × (1±10%)
Installation mode	Integrated, split						
Rated control power source voltage Ue(V)	230/240 50Hz						
Control voltage range	85%~110%Ue						

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)

Model	NXZM-63	NXZM-125	NXZM-160	NXZM-250	NXZM-400	NXZM-630	NXZM-800	
Electrical characteristics								
Execution body	NXM-63	NXM-125	NXM-160	NXM-250	NXM-400	NXM-630	NXM-800	
Frame current (A)	63	125	160	250	400	630	800	
Rated current (A)	10, 16, 25, 32, 40, 50, 63	63, 80, 100, 125,	125, 160	160, 180, 200, 225, 250	250, 315, 350, 400	400, 500, 630	630, 700, 800	
Rated operational voltage Ue (V)	400/415 50Hz							
Rated insulation voltage Ui (V)	AC800	AC800	AC800	AC1000	AC1000	AC1000	AC1000	
Rated impulse voltage Uimp (kV)	8				12			
Utilization category	AC-33B							
Number of poles	3P、4P	3P、4P	3P、4P	3P、4P	3P、4P	3P、4P	3P、4P	
Rated conditional short-circuit current Iq (kA)	100	100	100	100	100	100	100	
Mechanical endurance (times)	10000	10000	8000	6000	4000	4000	4000	
Electrical endurance (times)	2000	2000	2000	2000	1500	1500	1000	
Controller characteristics								
Controller model	A type (standard), B type (intelligent)							
Operating transfer (s)	2.8 × (1±10%)	2.8 × (1±10%)	3.3 × (1±10%)	3.3 × (1±10%)	3.3 × (1±10%)	3.5 × (1±10%)	3.5 × (1±10%)	4 × (1±10%)
Installation mode	Integrated, split							
Rated control power source voltage Us(V)	230/240 50Hz							
Control voltage range	85%~110%Ue							

4. Functions and characteristics

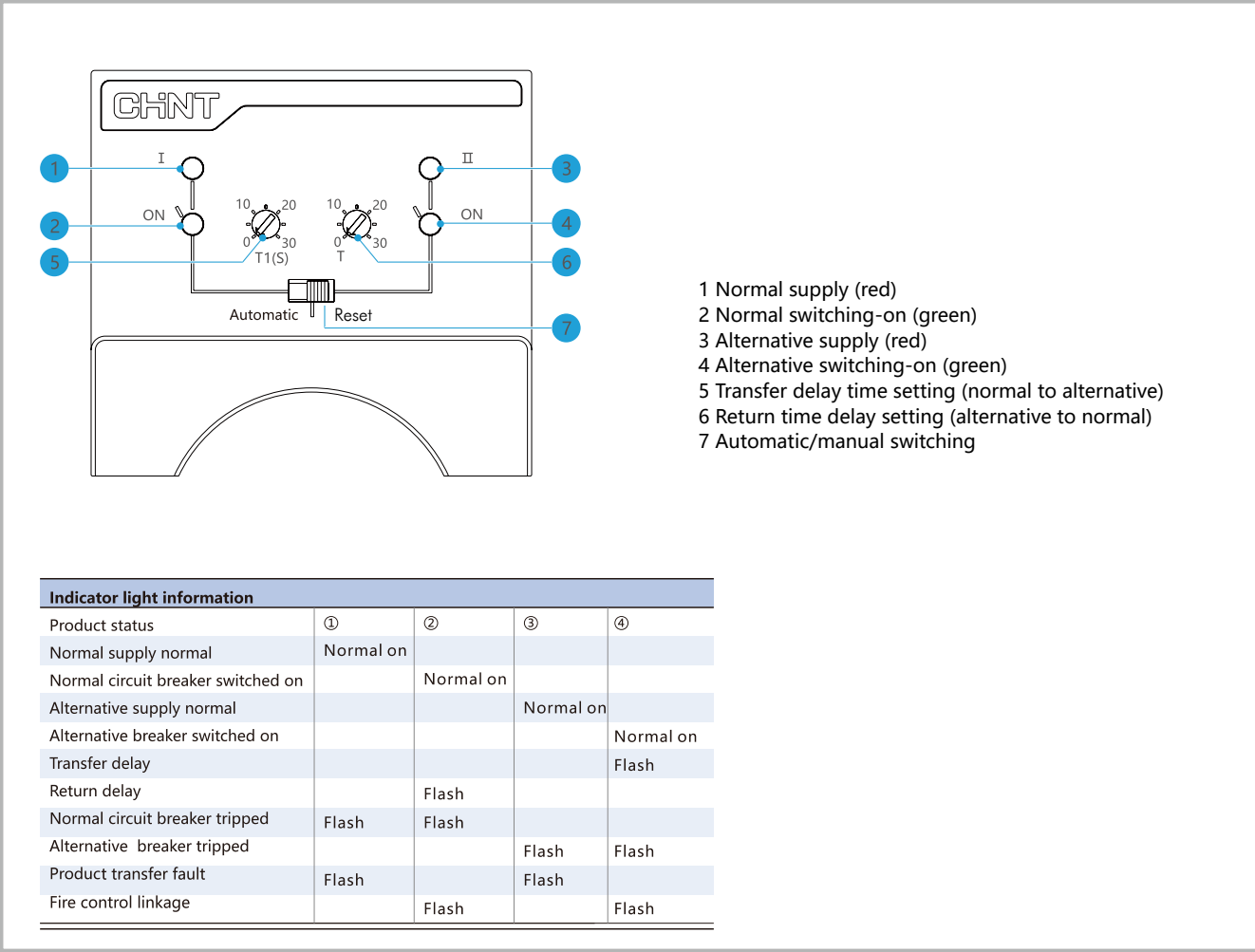
Functional parameters of NXZ (H) B controller

Model	A type (standard)	C type (intelligent type)
Function		
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	■	■
Grid-grid	■	■
Phase failure/loss of voltage transfer	■	■
Undervoltage transfer	■	■
Delay adjustable	■	■
Transfer delay	0s~30s adjustable	0s~30s adjustable
Return delay	0s~30s adjustable	0s~30s adjustable
Generator control	-	■
Fire control linkage	■	■
Fire control feedback	■	■
Indication		
Switching-on/switching-off/dual tripping indication	■	■
Normal/alternative supply indication	■	■
Parameter setting indication		
Others		
Communication function	Optional	■

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

Model	A type (standard)	B type (intelligent)
Function		
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	■	■
Undervoltage transfer	■	■
Overvoltage transfer	■	■
Delay adjustable	■	■
Transfer delay	0s~180s adjustable	0s~180s adjustable
Return delay	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
Display module	■ 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 Φ5.5.

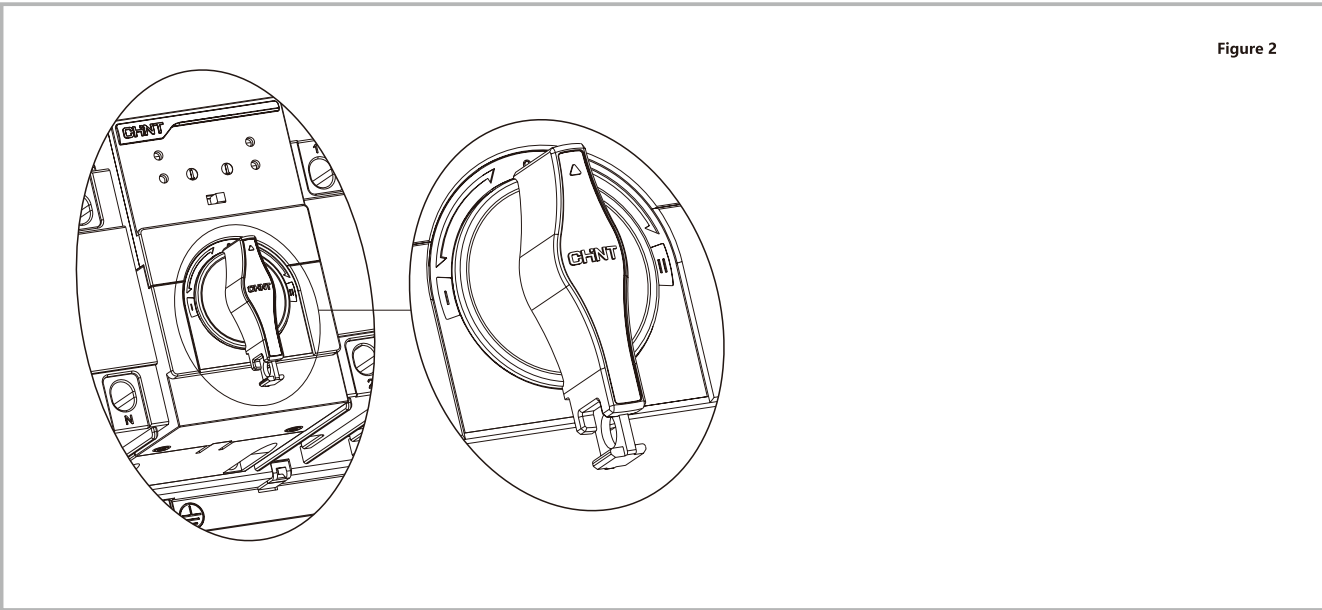


Figure 2

5. Functions and characteristics

Functional description of NXZ (H) M

Operation interface of the display module of controller

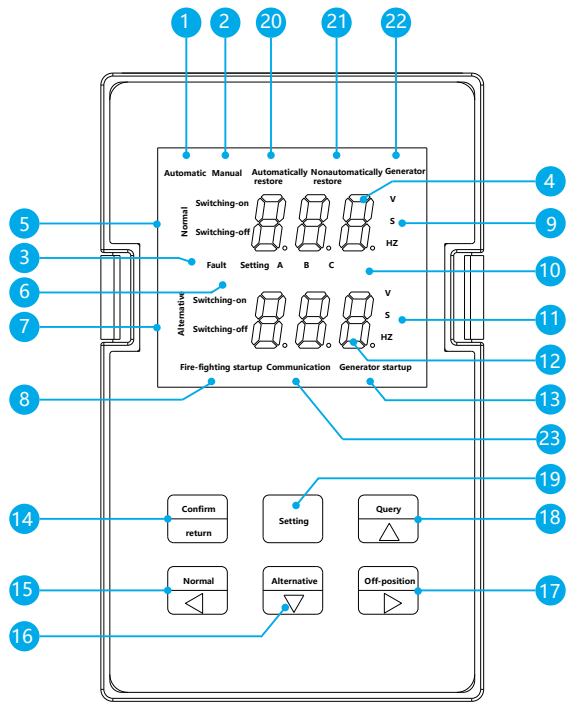


Figure 3

- 1 Indication of automatic operation mode;
- 2 Indication of manual operation mode;
- 3 Fault indication: This light will be on when switch fault or breaker tripping caused by load short circuit (class PC controller doesn't have such function);
- 4 The display area of voltage parameters of normal supply shows the voltage parameters of normal supply and the transfer delay time during working, and shows the symbol in setting mode;
- 5 Indication of switching-on, switching-off for the normal supply; when normal supply is failure, indicator light of "normal" flash;
- 6 Setting status indication;
- 7 Indication of switching-on, switching-off for the alternative supply; when alternative is failure, indicator light of "alternative" flash;
- 8 Indication of startup of fire control linkage;
- 9 Voltage, time, and frequency unit for the normal supply;
- 10 A, B, C phase;
- 11 Voltage, time, and frequency unit for the alternative supply;
- 12 The display area of voltage parameters of alternative supply shows the voltage parameters of alternative supply and the transfer delay time during working, and shows the symbol in setting mode;
- 13 Indication of generator startup;
- 14 Confirm/return button: It means saving and exit in setting mode; It means returning to the normal working state in fire control linkage mode;
- 15 Normal supply switching button: On the manual control mode, if the normal supply is normal, press this button to compulsorily switch to normal supply; On setting mode, this button is used for paging up;
- 16 Alternative supply switching button: On the manual control mode, if the alternative supply is normal, press this button to compulsorily switch to alternative supply; On setting mode, this button is used for paging down;
- 17 Trip button: On the manual control mode, if any one of the two power sources is normal, press this button to switch to the switching-off position; On setting mode, this button is used to decrease value in parameter setting;
- 18 Fault query button: when there is fault indication on the display screen, press this button to query the fault code; On setting state, this button is used to increase value in parameter setting;
- 19 Setting button: press this button to enter the parameter setting menu of the controller;
- 20 Indication of automatically transfer and restore operation mode;
- 21 Indication of automatically transfer and nonautomatically restore operation mode;
- 22 Indication of generator (automatically transfer and restore operation);
- 23 Indication of communication state.

Parameter setting of the display module of controller

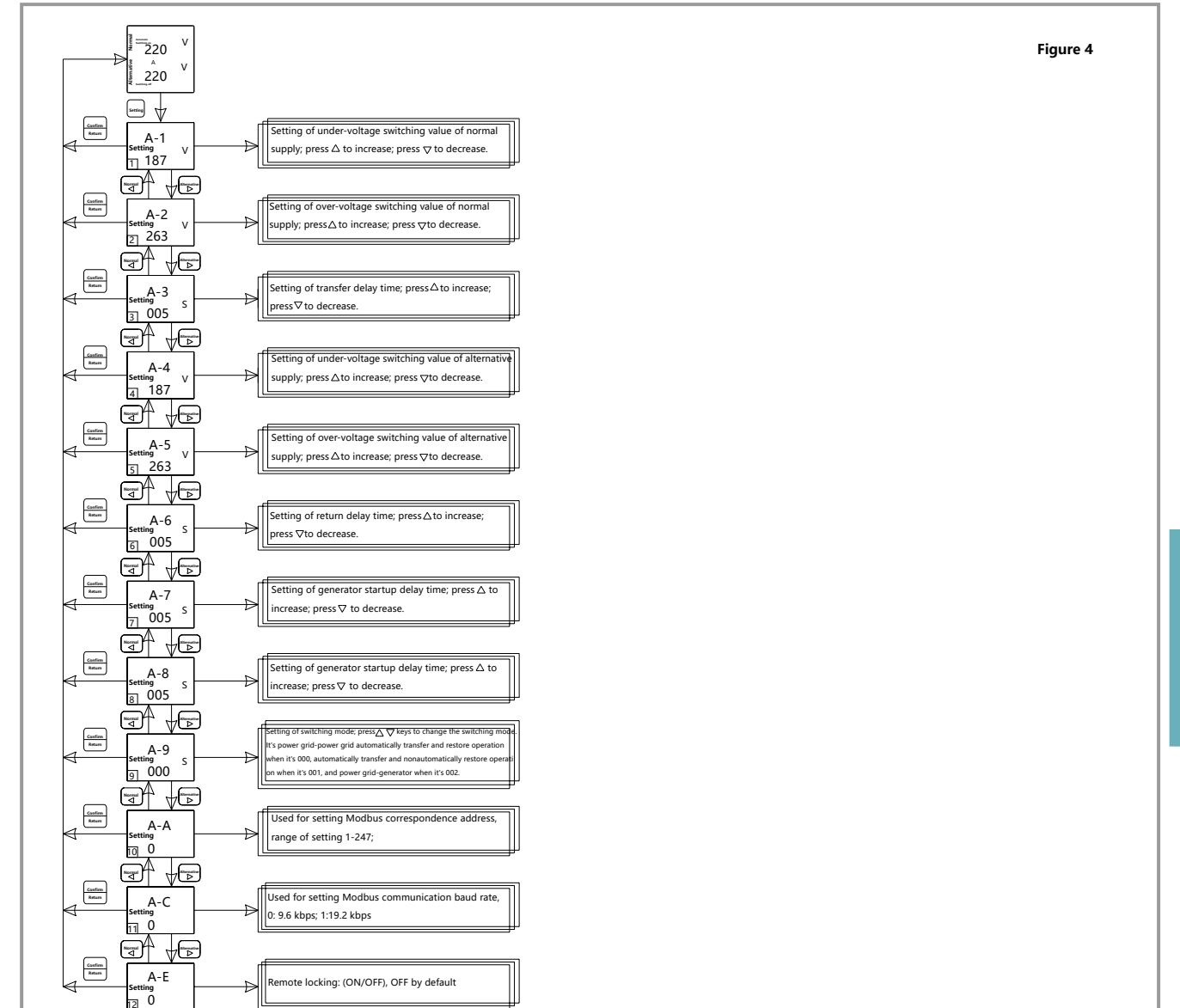


Figure 4

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.

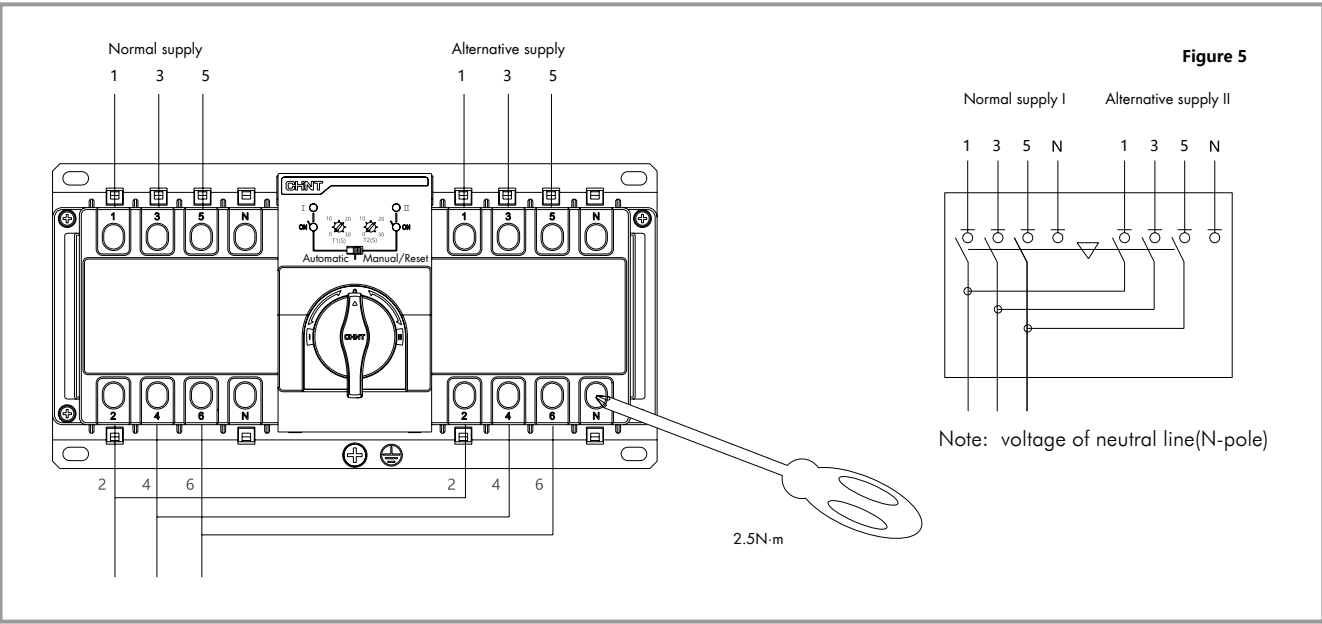
The connecting wire (electric cable) adopts single core Polyvinyl chloride (PVC) insulated conductor or copper bar of the equivalent effect.

Advice as follows:

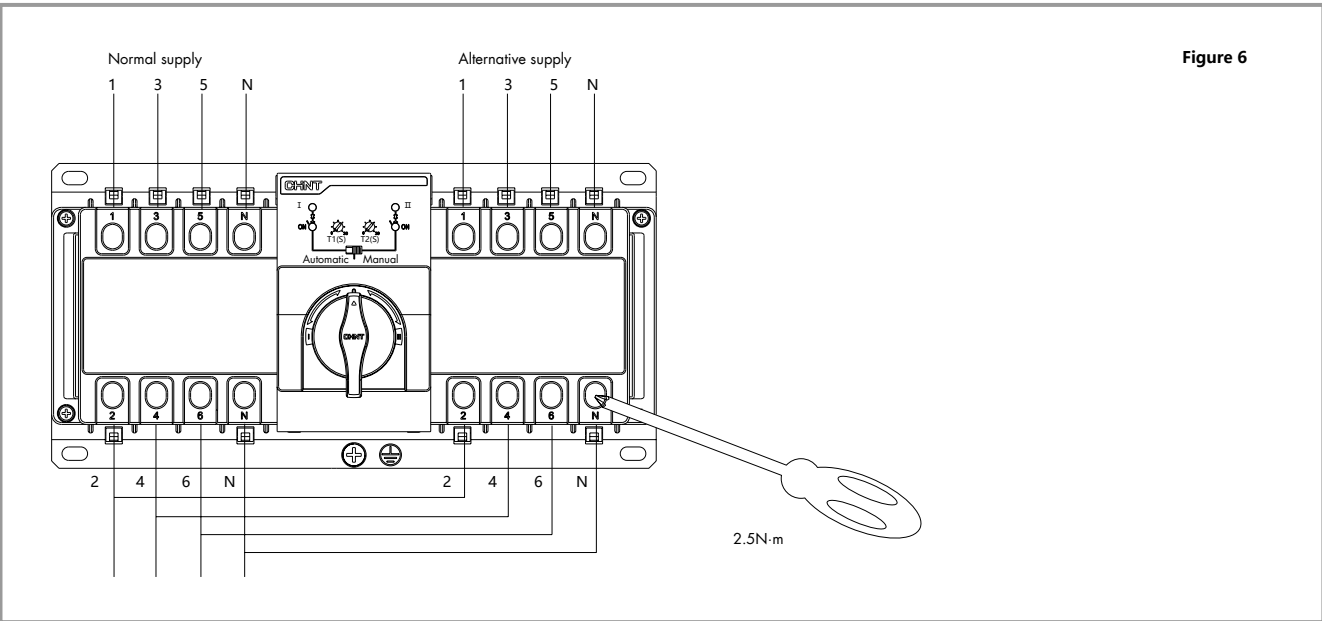
Cross-sectional area of copper conductor

Safe ampacity (A)	20	25	32	40	50	63
Cross-sectional area of copper conductor (mm2)	2.5	4	6	10	10	16

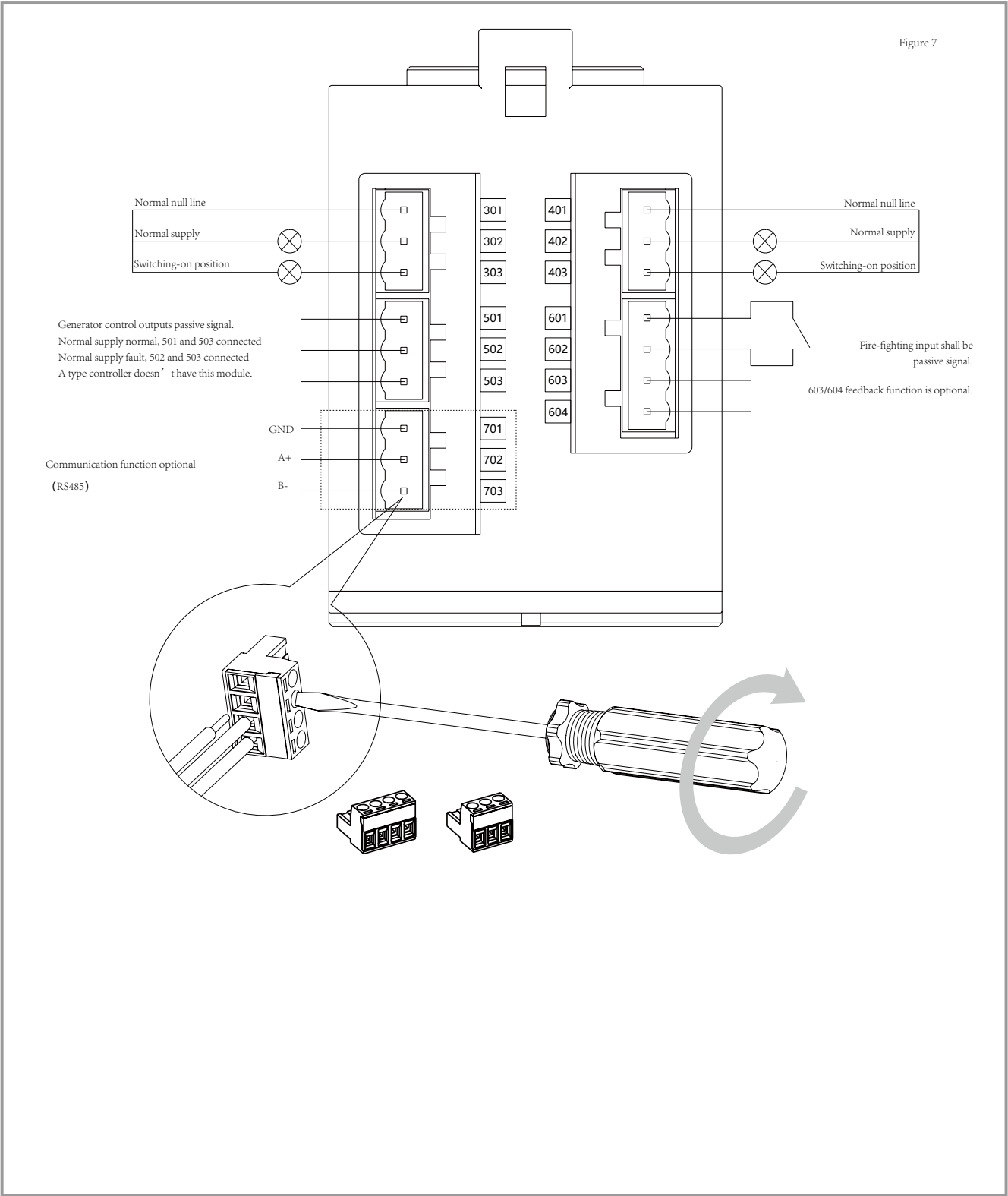
3P product



4P product



Signal and control terminal wiring



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

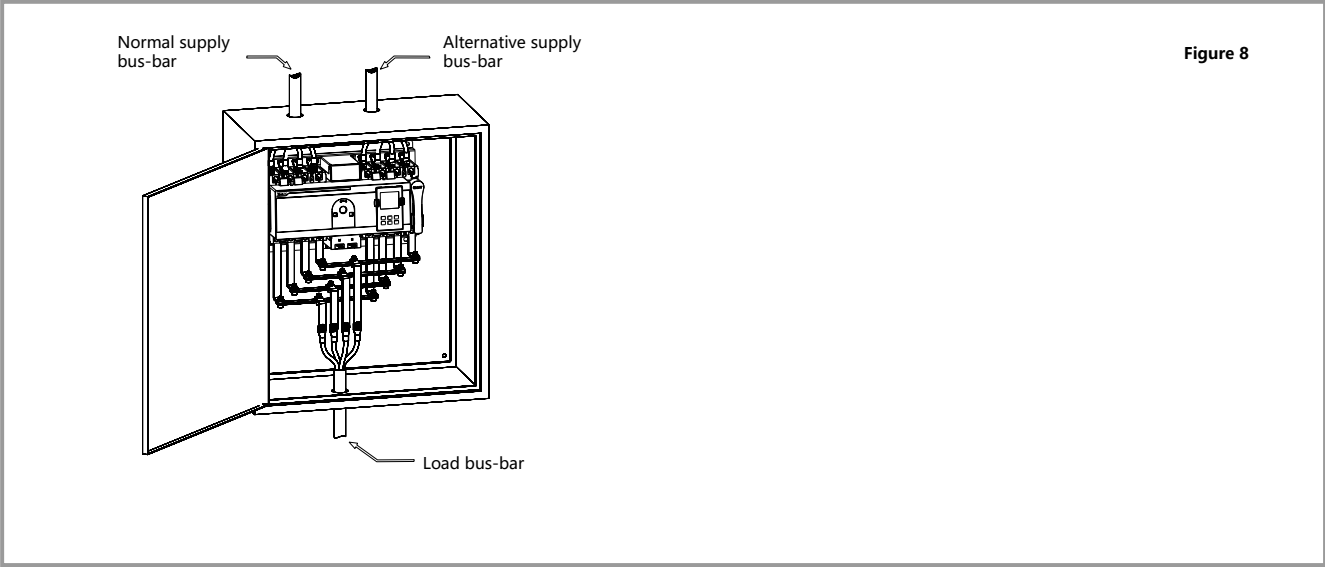


Figure 8

Product wiring

3P

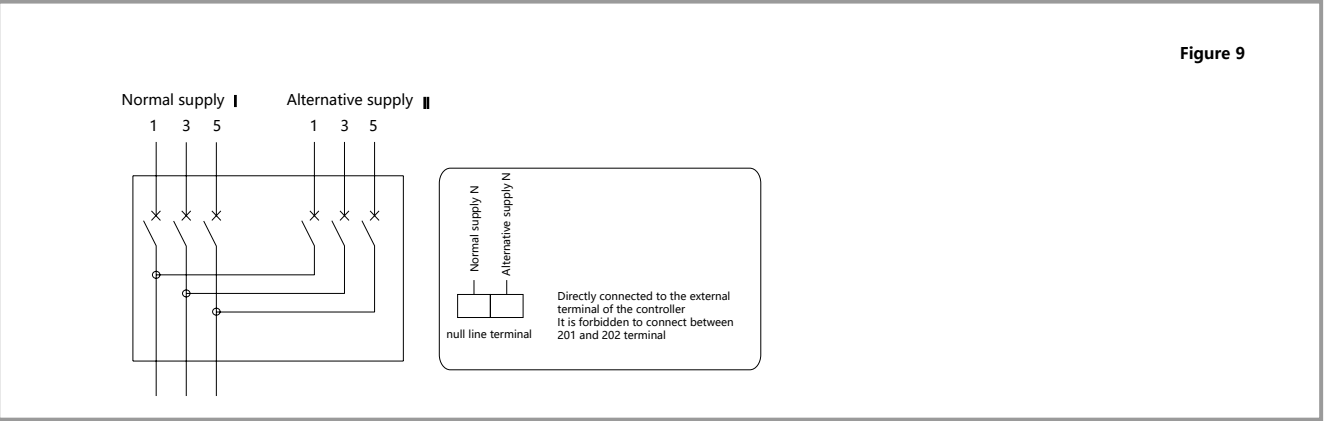


Figure 9

4P

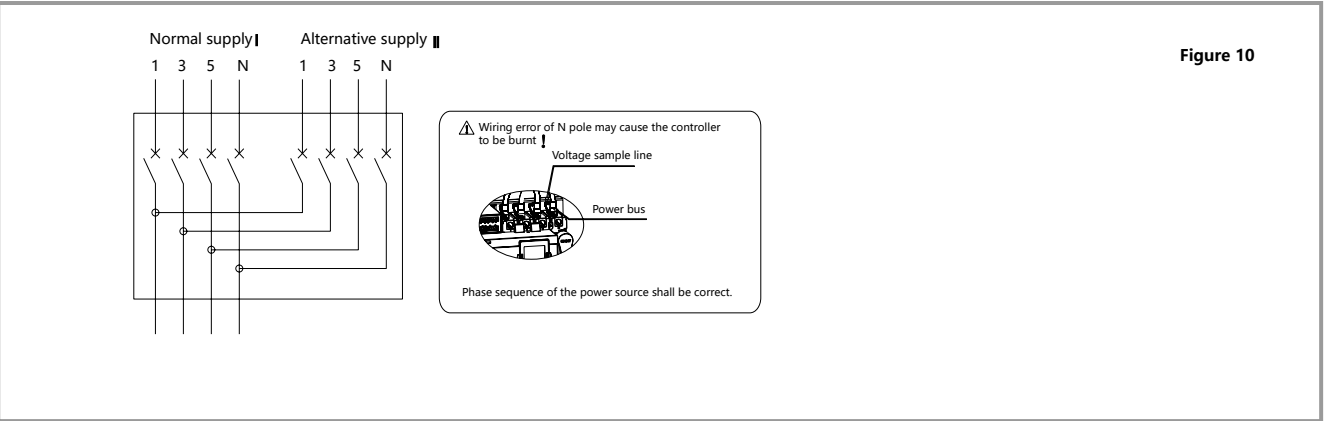


Figure 10

Wire connection

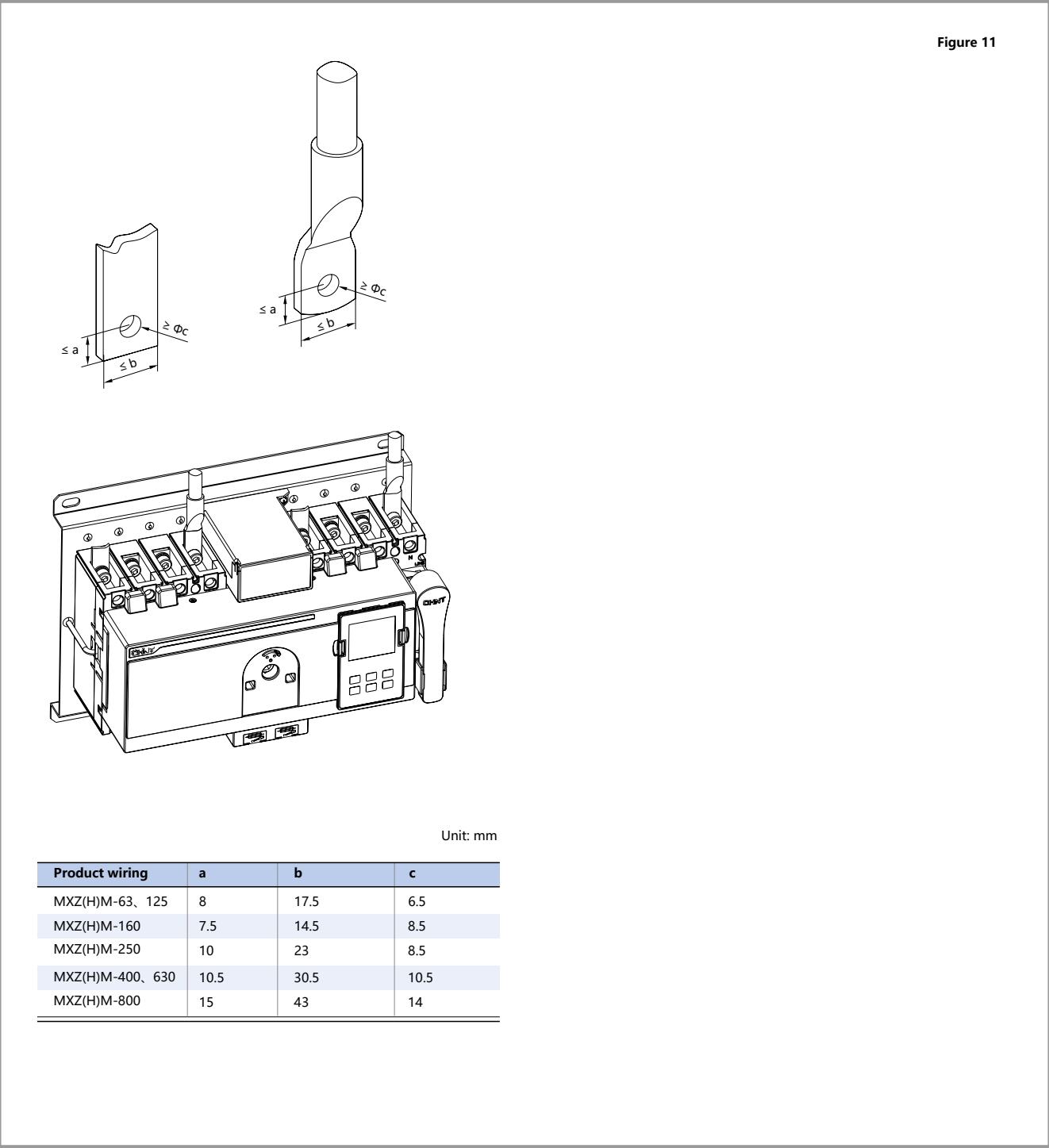
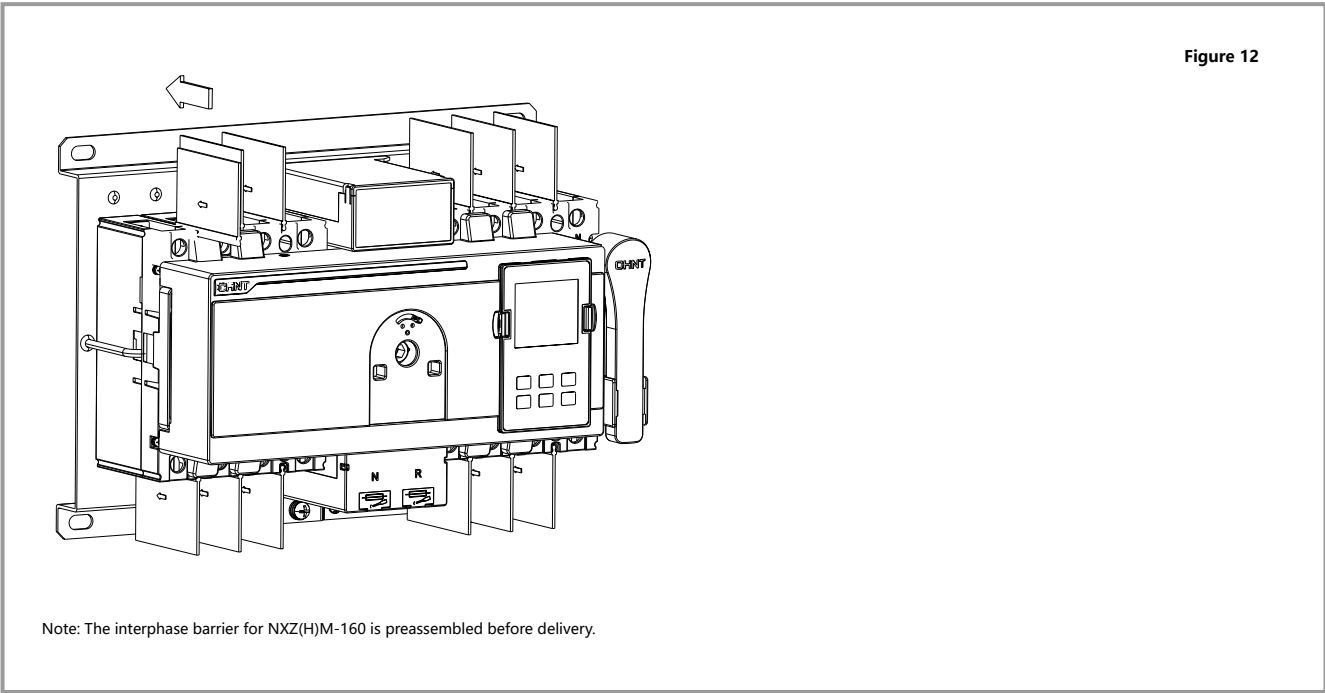


Figure 11

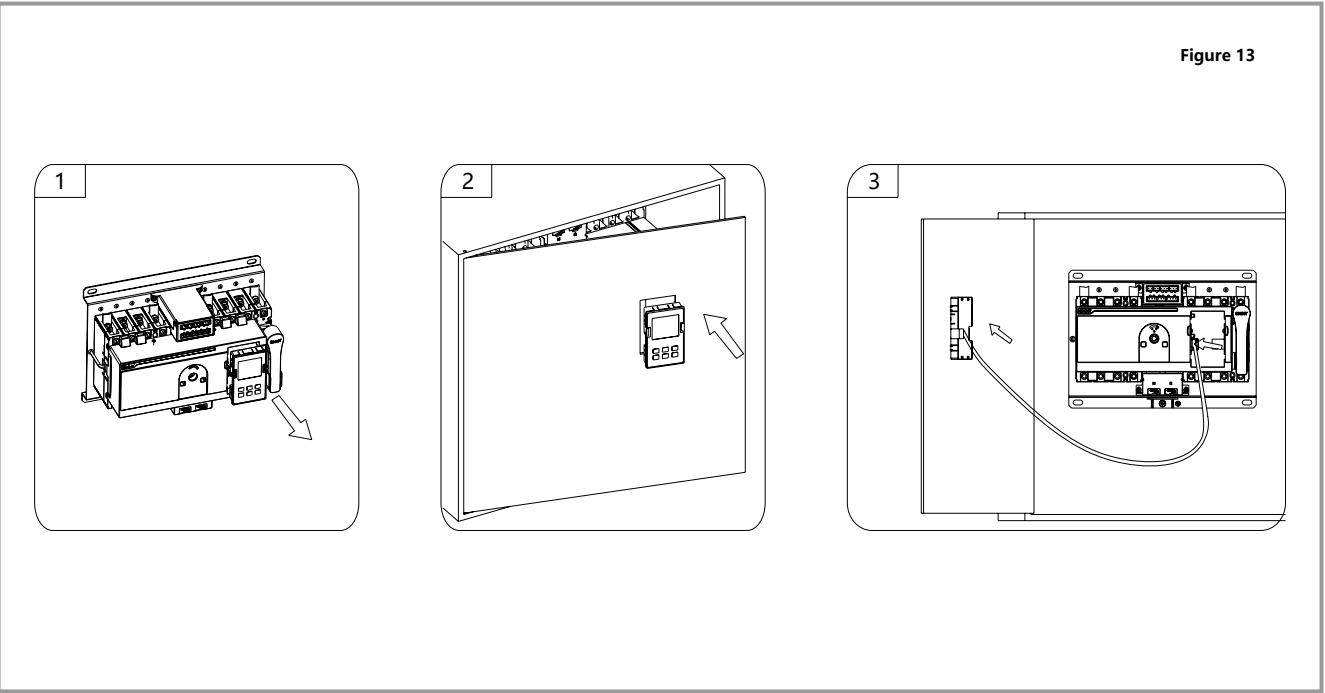
Unit: mm

8. Mode of connection of the main part and controller

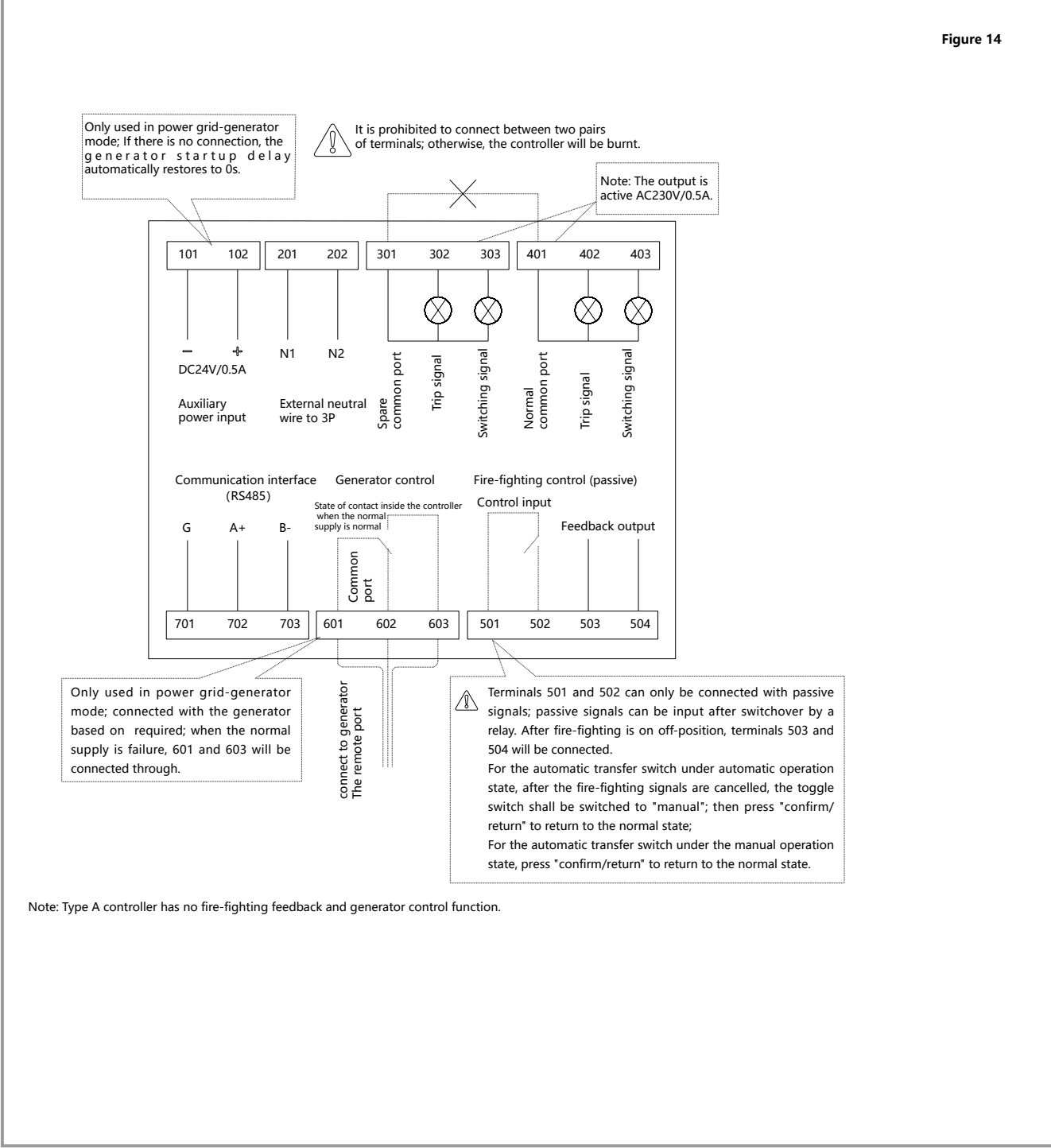
Installation of interphase barrier



Split type installation of the display module (cabinet door)



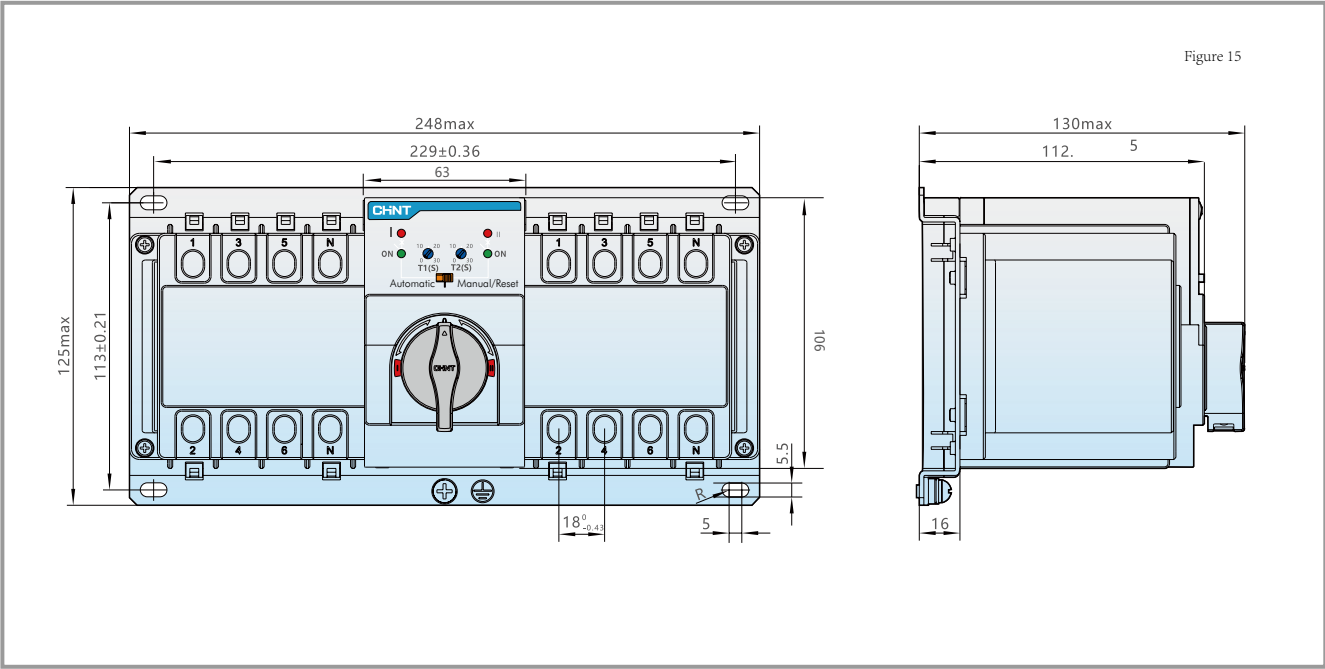
Signal and control terminal wiring



9. Overall and installation dimension

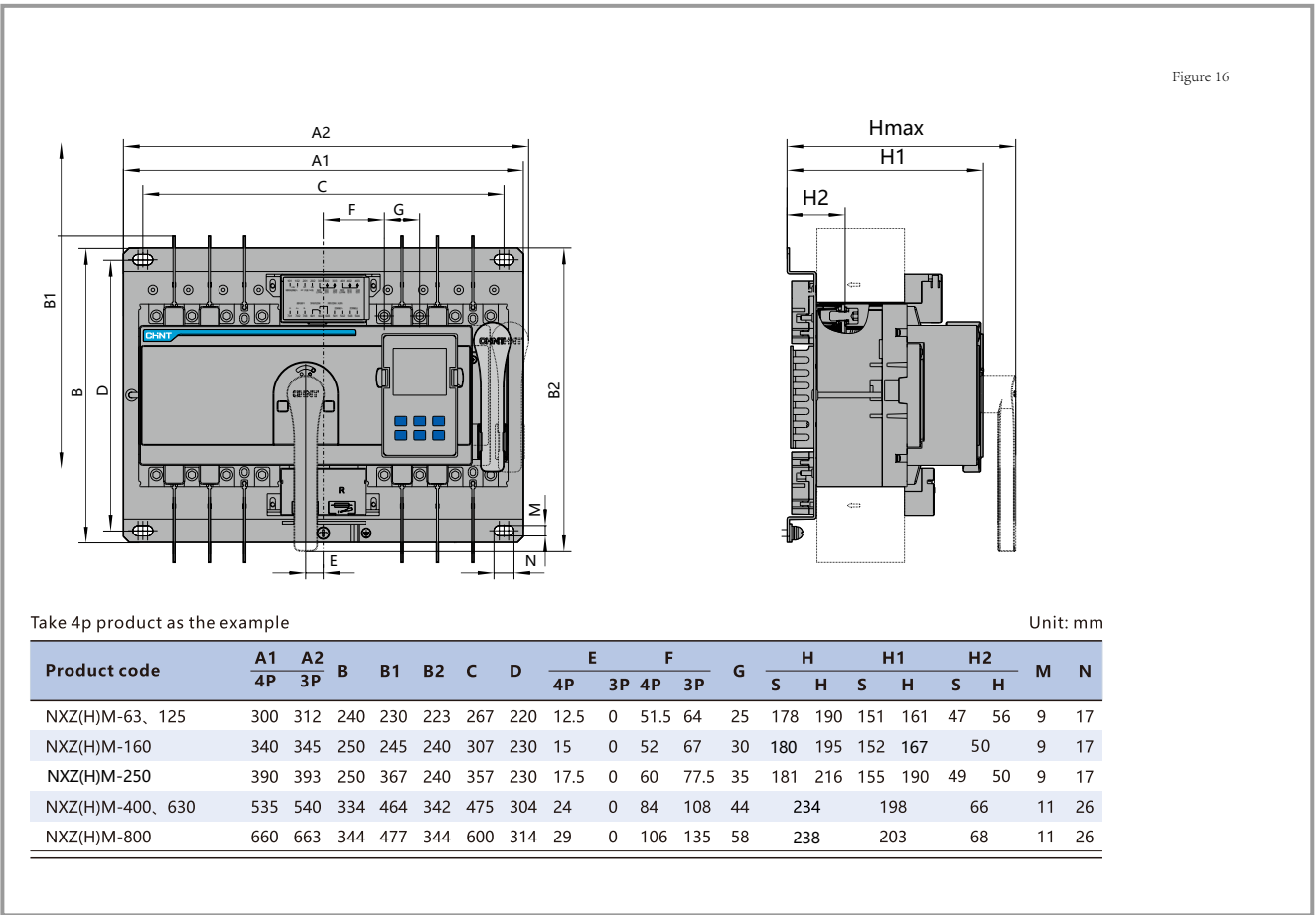
Overall and installation dimension of NXZB and NXZHB

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



Overall and installation dimension of NXZM and NXZHM

Overall and installation dimension

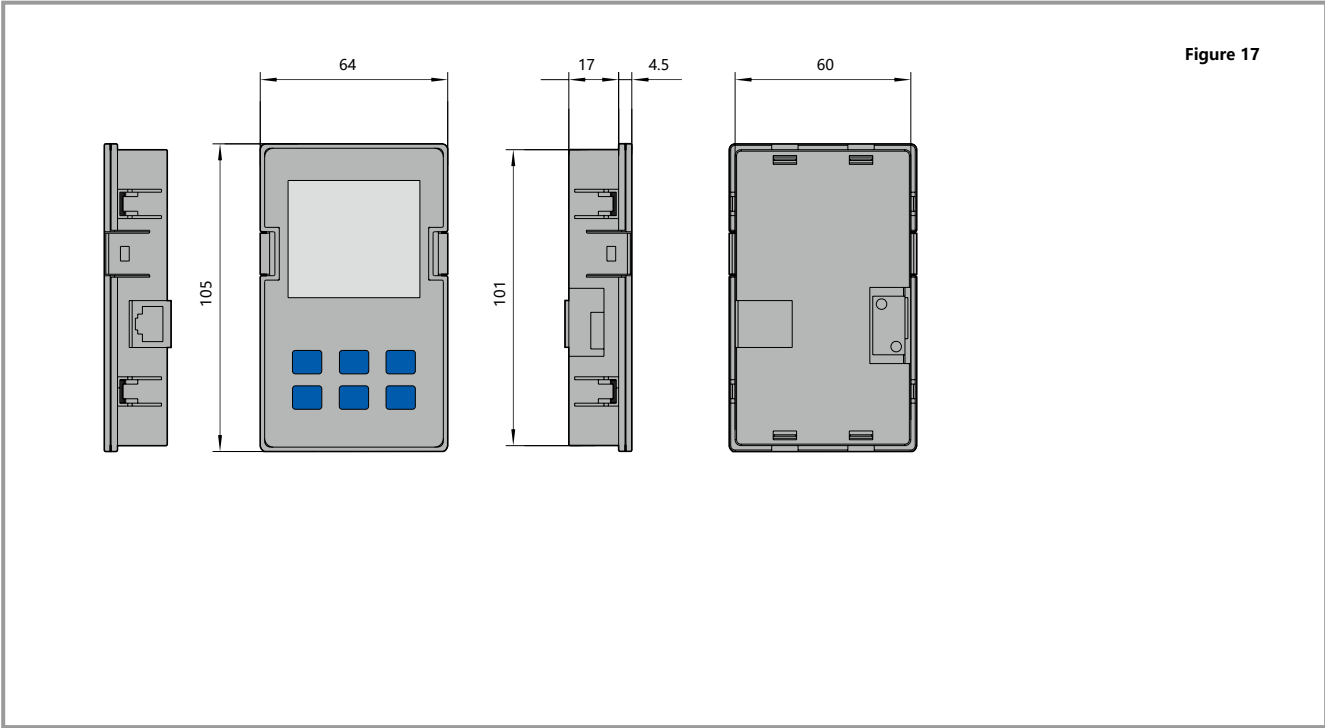


Take 4p product as the example

Unit: mm

Product code	A1	A2	B	B1	B2	C	D	E				G	H		H1		H2		M	N
	4P	3P						4P	3P	4P	3P		S	H	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	161	47	56	9	17
NXZ(H)M-160	340	345	250	245	240	307	230	15	0	52	67	30	180	195	152	167	50		9	17
NXZ(H)M-250	390	393	250	367	240	357	230	17.5	0	60	77.5	35	181	216	155	190	49	50	9	17
NXZ(H)M-400, 630	535	540	334	464	342	475	304	24	0	84	108	44	234		198		66		11	26
NXZ(H)M-800	660	663	344	477	344	600	314	29	0	106	135	58	238		203		68		11	26

Overall dimension of split type module (unit: mm)



This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, evenly spaced across the entire page. These lines are designed to help children learn letter formation and alignment by providing a guide for the height and placement of their writing. The background is plain white, and there are no other markings or text present.

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