



NZ7 Series Automatic Transfer Switching Equipment





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This equipment should only be mounted by professionals. The manufacturer shall not be held responsible for any failure to comply with the instruction given in this manual. The expression right of the instruction is owned by CHINT.

- The device should only be installed and serviced by professionals.
- Switch off the general power supply to the device to confirm the absence of voltage.
- Always use an appropriate voltage detection device to confirm the absence of voltage.
- Handle operation, you must first disconnect the power supply controller or the controller set to manual.
- The phase sequence of the input terminals of two breakers shall be consistent, and the Line N of two-way power cannot be wrongly connected.
- In conducting insulation test for the product, please remove the sampling line of the controller at the end of incoming line of the product for controlling loop signal, which must be reconnected after the test. The insulation resistance must not be less than 10MΩ.
- Do not open the product by yourself; otherwise, the user should be liable for the consequence.
- Do not change any internal wirings of this device; otherwise, the user should be liable for the consequence.
- The grounding protection should be reliable so as to ensure the safety.
- The automatic control function should be disabled during the regular or failure inspection of loading lines. Notice
- This product has been designed for environment A. Use of this product in environment B may cause unwanted electromagnetic disturbances in which case the user may be required to take adequate mitigation measure.

Catalog

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Preparations



Preparations



Operational details of the reference P8 ~ P15

2 _____





Storage





3 _____

Hex key Screw-driver



5 _____

6 🗕

The necessary tools

Standard accessories													
NZ7-63 NZ7-100 NZ7-225 NZ7-400 NZ7-630 NZ7-80													
3P	2X6	M5X10	M8X16	M8X16	M12X35	M12X35	M12X35						
4P	2X8	(Actor	(C)	œ_@	O CO								
3P	2X4		L.										
4P	2X6												
X1													
Х3		X2		X1	X1		2m, Optional						

Connecting bus-bar type



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Installation

Wiring



Wiring diagram of external terminals of the controller



Installation

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Controller installed in the cabinet split on the panel



Display and operation interface



Installation

Display and operation interface

- 1. Indication of automatic working mode;
- 2. Indication of manual working mode;
- 3. Failure indication
- When the breaker is disengaged due to the failure or short-circuit of the switch, this lamp will be on;
- Display area of normal power voltage parameters It displays normal power voltage parameters and changeover delay time under the working condition, and setting items under the setting condition;
- 5. Indication of the on or off of breaker on the normal power side
- 6. Indication of setting condition
- 7. Indication of the on or off of breaker on the alternative power side8. Indication of the start of stop function;
- 9. Units of voltage, time, and frequency of the normal power;
- 10. Phases A, B, and C;

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- 11. Units of voltage, time, and frequency of the alternative power;
- 12. Display area of alternative power voltage parameters; It displays alternative power voltage parameters and transfer
- delay time under the working condition, and setting items under the setting condition;
- 13. Indication of the start signal of generator
- 14. Selection button of automatic/manual transfer When it is regularly used, it can be used for selecting the automatic or manual mode; it saves and exits the functions when it is under the setting condition;

- 15. Button for compulsorily turn off the normal power
- Under the manual control mode, if this button is pressed, it can compulsorily switch to the normal power; if it is setting condition, this button is the "scroll up" button of setting programs;
- 16. Button for compulsorily turn off the alternative power Under the manual control mode, if this button is pressed, it can compulsorily switch to the alternative power; if it is setting condition, this button is the "scroll up" button of setting programs;

17. Off button

- Under the manual control mode, if either line of both power lines are normal and this button is pressed, it will switch to the disengagement position; this button is the minus button for setting parameters when it is under setting condition;
- 18. Failure inquiry button

When the switch fails and malfunction lamp on the failure screen is on, the detail malfunction code can be inquired if it is pressed; this button is the plus button if it is under the setting condition;

19. Setting button

When this button is pressed, it may enter into the parameter setting menu of the controller.

Operation Description on Parameter Setting



Installation

The working processes of Type A controller





Wire connection



	а	b	С
NZ7-63	6.5	14	5
NZ7-100	7.5	17	8
NZ7-225	11	22	8
NZ7-400	11	30	12
NZ7-630	13	44	12
NZ7-800	12	45	12



Phase barrier



 $^{*}\text{NZ7-63}$ phase barrier assembled by the factory



Installation

Outline dimension & Installation dimension

Outline dimension
Installation dimension

Wiring terminal of zero line (Only three pole products)





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1	Outline	dimension

		ΨΨ		L									
G			2	F-	H1		-						
			•										
	-		-										
J	Κ		L	М	Ν	0	Н	H1					
	3P	4P											
170	0.4	11 5	0.5	4.0	0.00	117	150	170					

	А		A B		F		G		J	K		L	М	Ν	0	Н	H1	H2	H3
	3P	4P			3P	4P	3P	4P		3P	4P								
NZ7-63	355	380	240	200	40	52.5	132.5	145	178	24	11.5	25	40	200	117	150	170	25	18/28
NZ7-100	390	420	240	200	43	58	148	163	194	24	9	30	43	200	136	150	180	25	24
NZ7-225	435	470	240	200	41.5	59	170.5	188	225	36	18.5	35	41.5	200	144	160	190	25	24
NZ7-400	565	615	330	225	43.5	68.5	232.5	257.5	304	61.5	36.5	48	43.5	265	224	200	227	24	40
NZ7-630	680	740	330	225	45.5	74.5	291	320	385	89	60	58	45.5	270	234	200	232	24	42
NZ7-800	720	790	350	225	44	79	310	345	396	84	49	70	44	290	243	208	240	24	41.5



C 3P 4P D Р NZ7-63 322 347 220 $\phi 8$ NZ7-100 387 220 φ8 357 NZ7-225 402 437 220 φ8 NZ7-400 505 555 300 φ10 NZ7-630 622 680 300 φ10 NZ7-800 735 300 φ10 665

Installation dimension



Installation

Controller Module





nstallation dimension of the controller when it is installed by split type

