

CJX1 Series
AC Contactor

User Instruction



Safety Warning

- ① Only professional technicians are allowed for installation and maintenance.
- ② It is strictly prohibited to install in the environment containing inflammable, explosive gas and moist condensation.
- ③ Power must be turned off when installing, maintaining and maintaining the product.
- ④ Do not touch the conductive part of the product during working.

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1 Purpose of Use

CJX1 series AC contactors are mainly used in electrical systems under Category AC-3 with rated operating current of 9A – 475A at the rated operating voltage of 380V and used for long-distance making and breaking of circuit. The AC contactor is applicable for controlling the start/stop and the reverse rotation of AC motor.

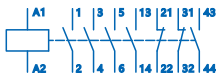
2 Key Technical Parameters

Table 1 Key Technical Parameters

Ambient conditions		-5°C~+40°C												
Hot and humid atmospheric conditions		+40°C, RH not exceeding 50%; higher RH is allowed under low temperatures;												
Altitude		No influence below 2,000m												
Pollution class/installation category		Class 3/III												
Parameter I	Grade of frame current (or specifications, number of poles)	CJX1-9	CJX1-12	CJX1-16	CJX1-22	CJX1-32	CJX1F-32	CJX1F-38	CJX1-92	CJX1-122	CJX1-162	CJX1-222		
	Rated operating voltage U_e (V)	380 (AC-3)												
	Rated operating current I_e (A)	9	12	16	22	32	32	38	9	12	16	22		
	Rated insulation voltage U_i (V)	660												
	Rated frequency (Hz)	50								/				
	Rated short circuit breaking capacity I_{cn} (AC-3A)	72	96	128	176	256	256	304	72	96	128	176		
	Enclosure protection class	IP00												
	Electrical life (AC-3,10,000 times)	120				100				120				100
	Mechanical life (10,000 times)	1000												
	Parameter II	Grade of frame current (or specifications, number of poles)	CJX1-45	CJX1-63	CJX1-75	CJX1-85	CJX1-110	CJX1-140	CJX1-170	CJX1-205	CJX1-250	CJX1-300	CJX1-400	CJX1-475
Rated operating voltage U_e (V)		380 (AC-3)												
Rated operating current I_e (A)		45	63	75	85	110	140	170	205	250	300	400	475	
Rated insulation voltage U_i (V)		1000												
Rated frequency (Hz)		50												
Rated short circuit breaking capacity I_{cn} (AC-3A)		360	504	600	680	880	1120	1360	1640	2000	2400	3200	3800	
Enclosure protection class		IP00												
Electrical life (AC-3,10,000 times)		100												
Mechanical life (10,000 times)	1000													

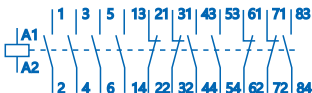
3 Installation

a. Wiring diagram 1 of 2NO+2NC



Wiring diagram 1

b. Wiring diagram 2 of 4NO+4NC



Wiring diagram 2

c. CJX1-9~32, CJX1F-32~38, CJX1-9Z~22Z adopt screwing mounting or 35mm standard installation rail mounting; CJX1-45~475 adopts screw mounting;

d. Diagram 3: Permitted installation location of CJX1-9~32(Z), CJX1F-32,38

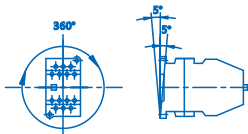


Diagram 3

e. Diagram 4: Permitted installation location of CJX1-45-475

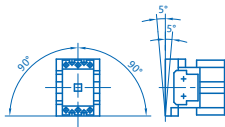


Diagram 4

Notes: for CJX1-9~22/Z series, in the DC application of AC contactor the A1 terminal is anode and A2 terminal is cathode. The two poles must be corrected wired.

4 Maintenance

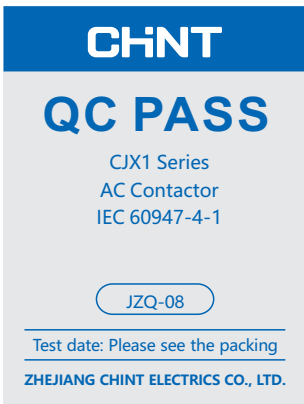
Dust should be removed in an appropriate way; and regular inspection should be made to identify whether the contact is burned; if the contact is slightly burned and turns black, please use a file to clean the surface; if it is severely burned, please replace it with a new one.

Table 2 Analysis and Troubleshooting of Common Faults

Symptoms	Cause Analysis	Troubleshooting Method
No operation or no reliable operation	1. Too low voltage power supply or too high voltage fluctuation	1. Adjust the power-supply voltage
	2. The voltage of the power supply does not match that of the coil resulting in coil breakage or burnout	2. Replace the coil
No release or slow release	1. Contacts have welded together	1. Determine whether the contacts have welded together, fix them or replace the contacts
	2. Oil or dust on the ferrite core pole face	2. Clean the pole face
Too big vibration or noise	1. Stain on the ferrite core pole face	1. Dip cotton yarn into kerosene and use it to clean the pole face

5 Environmental Protection

In order to protect the environment, when the product or its parts are scrapped, please properly dispose of them as industrial wastes; or be sent to the recycling station for assortment, dismantling and recycling.



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