


CJX2s-M series

AC Contactor

OPERATION INSTRUCTION

Standard: IEC 60947-4-1

CNC Deliver
Power For Better Life

 Before installing and using this product, please read this manual carefully and pay more attention to safety.



Safety Warning

1. Only professional technicians are allowed for installation and maintenance;
2. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden;
3. When the product is being installed or maintained, the power must be switched off;
- 4 You are prohibited from touching the conductive part when the product is operating.

1 General

CJX2s-M series AC contactor is mainly used in AC 50Hz (or 60Hz) circuits with rated operating voltage up to 690V. It can be used to frequently start and control AC motor or connect and disconnect circuit remotely under 400V (380V) AC-3 application category. It can also be used with proper thermal overload relay to act as electromagnetic starter.

2 Technical Data

2.1 Ambient temp(°C):

The limiting working temperature is $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$, the normal working temperature is $-5^{\circ}\text{C} \sim +70^{\circ}\text{C}$, and the average temperature with in 24 hours is not more than $+35^{\circ}\text{C}$. If it is not in the normal operating temperature range, the capacity reduction shall be considered;

2.2 Hot and humid atmospheric conditions:

Relative humidity should not exceed 50% at temperature up to +70°C, higher relative humidity is allowed under lower temperature, for example up to 90% at +20°C. User should take special measures against condensation due to temperature change.

2.3 Altitude: Not higher than 2000m .

2.4 Pollution degree: Degree 3 .

2.5 Installation category: III.

2.6 Installation conditions: The angle between the installation surface and the vertical surface should not be greater than +5°.

2.7 Impact vibration:

The product should be installed and used at places free from significant shaking, impact and vibration.

3 Main Performance Parameters

Table 1 Key performance of contactors

Model		CJX2s-M06	CJX2s-M09	CJX2s-M12	CJX2s-M16	
Rated operating current Ie(A)	220V/230V	AC-3	6	9	12	16
		AC-4				
	380V/400V	AC-3	6	9	12	16
		AC-4			9	12
	660V/690V	AC-3	3.8	4.9	4.9	4.9
		AC-4				

Table 1 Key performance of contactors

Model		CJX2s-M06	CJX2s-M09	CJX2s-M12	CJX2s-M16
Conventional thermal current Ith(A)		20			22
Rated insulation voltage Ui(V)		690			
Rated impulse withstand voltage Uimp(kV)		6			
Rated duty system		8 hour duty system, uninterrupted duty system, intermittent duty system, short term duty system			
Rated limited short-circuit current Iq(kA)		50			
Power of controllable 3-phase motor (AC-3)kw	220V/230V	1.5	2.2	3	4
	380V/400V	2.2	4	5.5	7.5
	660V/690V	3	4	4	4
Arcing distance (mm)		3			
Electrical life (x10 ⁴ times)400V	AC-3	120			
	AC-4	See attachment“Electrical life curve”			
Mechanical life(x10 ⁴ times)		1200			
Operation frequency (times/h)	AC-3	600			
	AC-4	150			
Enclosure protection class		IP20			
Model of matching fuse		RT16-00 20A			
Rated current of fuse of different model (A)		20			
Coordination type		Type “2” coordination			
Model of matching thermal overload relay		JR28-11.5			
Parameters of auxiliary circuit	AC-15	Ue/Ie: AC380V/400V/1.5A Ith: 10A			
	DC-13	Ue/Ie: DC220V/0.3A			
Coil power	Pick-up(VA)	20~40			
	Hold(VA)	9.0			

4 Installation

4.1 See Figure 1 and Table 2 for the installation and overall dimensions of CJX2s-M06~M16 series AC contactors.

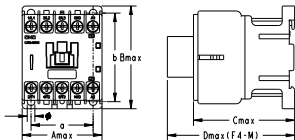


Figure 1 Installation and overall dimensions of CJX2s-M06~M16 series AC contactor

Table 3 Overall and installation dimensions

Unit: mm

Model	Outline dimensions				Installation dimensions		
	Amax	Bmax	Cmax	Dmax	a	b	Φ
CJX2s-M06~M16	45.5	59	58	94	35±0.35	50±0.48	4.2
CJX2s-M06Z~M16Z	45.5	59	70	106	35±0.35	50±0.48	4.2

4.2 See Figure 2 and Table 3 for the installation and overall dimensions of CJX2s-M06N~M16N series directional AC contactors.

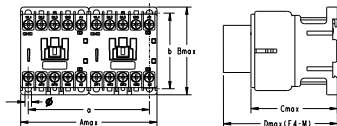












Figure 2 Installation and overall dimensions of CJX2s-M06N~M16N series AC contactor

Table 3 Installation and overall dimensions and wiring capacity

Unit: mm

Model	Outline dimensions				Installation dimensions				
	Amax	Bmax	Cmax	Dmax	a	b	Φ		
CJX2s-M06N~M16N	91	59	58	94	80±0.35	50±0.48	4.2		
CJX2s-M06NZ~M16NZ	91	59	70	106	80±0.35	50±0.48	4.2		
									
Main circuit	Control circuit	1.2N•m	Philips	mm ²	mm ²	mm ²	mm ²	mm ²	mm ²
				1~2.5	1~2.5	1~2.5	1~1.5	--	--

5 Maintenance

Check if the contactor can operate reliably every month.

Method: Check if the contactor inclines 5° forward upon pick-up and inclines 5° backward upon release. Conduct maintenance every month.

Note: Don't disassemble, assemble and repair the product at will.

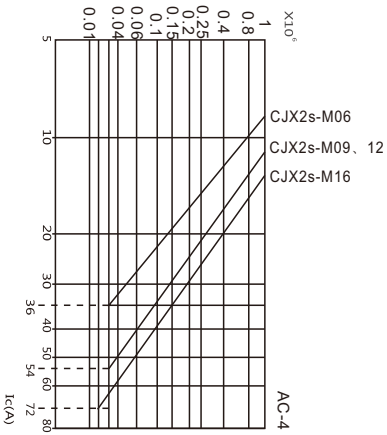
Replace the product if it is found to be damaged.

Table 4 Analysis and Troubleshooting of Faults

Symptoms	Cause analysis	Troubleshooting method
The product does not operation or does not operate reliably	Inconsistency between control power voltage and coil voltage.	Use control power supply that complies with coil voltage
	Insufficient operation circuit power capacity or disconnection or wrong connection exists in the circuit	Check the circuit to ensure correct connection
	Coil burnt; mechanical movable parts jammed	Replace the coil, remove foreign objects or replace the product
Noise	There are foreign objects on the polar face of magnet yoke or armature	Clean the polar face of the iron core
	The voltage of control power is too low	Use control power supply that complies with coil voltage
The product does not release or release slowly	Contact welding	Replace the product
	There is oil or dust on the polar face of the iron core	Clean the polar face of the iron core

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment dismantling and recycling according to local regulations.



Appendix



CERTIFICATE

Product Model: CJX2s-M

Standard: IEC 60947-4-1

Inspector : CNC 003

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

A vertical red rectangle containing the white text 'CNC' in a bold, sans-serif font.

CJX2s-M

CNC ELECTRIC

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