

# CJX2

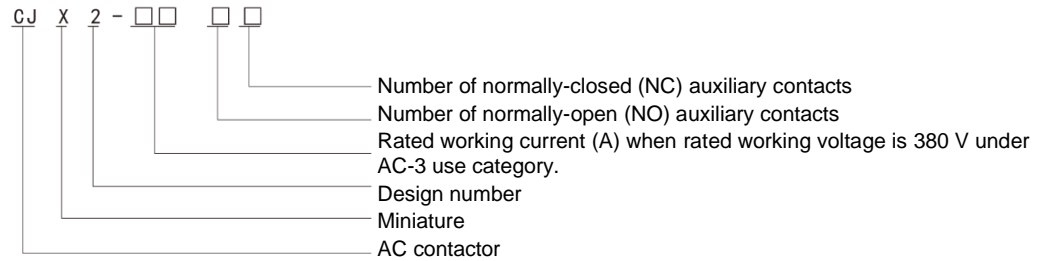
## Series AC Contactor



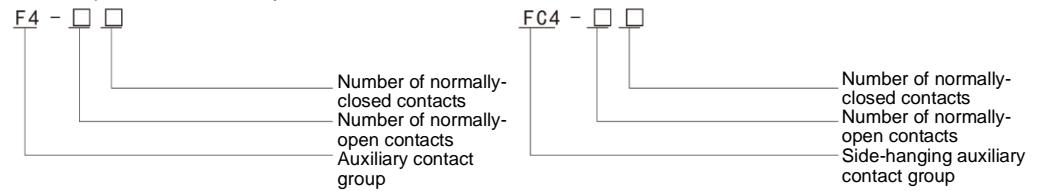
### I. Scope of Application

The CJX2-09–95 Series AC Contactor (hereinafter referred to as “contactor”) is suitable for the circuits with AC 50 Hz or 60 Hz, rated working voltage up to 660 V, rated working current up to 95 A when the rated working voltage is 380 V in AC-3 use category. The contactor can be used for long-distance making and breaking of circuits, and can be combined with appropriate thermal overload relays to form an electromagnetic starter to protect circuits that may be overloaded. This product complies with the requirements of GB14048.4 and IEC60947-4-1.

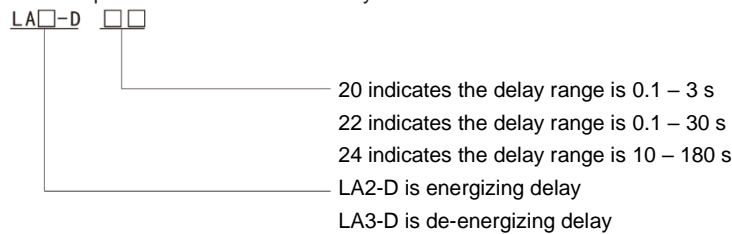
### II. Models Description



#### 1. Description of the auxiliary contact



#### 2. Description of the model of air delay head



#### 3. The contactor can be assembled with any accessory in the table to form an auxiliary contact group

Model	F4-02	F4-11	F4-20	F4-22	F4-40	F4-04	F4-13	F4-31	FC4-02	FC4-11	FC4-20
Number of contacts	2NC	NO+NC	2NO	2NO+2NC	4NO	4NC	1NO+3NC	3NO+1NC	2NC	NO+NC	2NO



#### 4. Air delay head

Model	Delay range	Number of delay contacts
LA2-D20	0.1–3 s	NO+NC
LA2-D22	0.1–30 s	
LA2-D24	10–180 s	
LA3-D20	0.1–3 s	
LA3-D22	0.1–30 s	
LA3-D24	10–180 s	

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### III. Normal Operating Conditions

1. Ambient air temperature: The average temperature within 24 hours shall not exceed +35°C at -5°C – +40°C.
2. Altitude: Not higher than 2,000 m.
3. Atmospheric conditions: The relative atmospheric humidity at the installation site shall not exceed 50% at +40°C. A higher relative humidity is allowed at a lower temperature, e.g. 90% humidity at 20°C. Special measures shall be taken for the occasional condensation due to the temperature change.
4. Contamination grade: Grade 3.
5. Installation category: III.
6. Installation conditions: The inclination between the installation surface and the vertical plane shall not be more than ±5°.
7. Impact vibration: The installation place shall have no significant shaking, impact and vibration.
8. Transportation and storage: The contactor shall not be subjected to severe collision and vibration during the transportation, and shall not be attacked by rain and snow during the transportation and storage. The contactor is suitable for the transportation and storage at a temperature between -25°C and +55°C, which can reach +70°C in a short time (within 24 h).

### IV. Structural Features

The contactor is characterized by small size, light weight, low power consumption, long service life, safety and reliability. Auxiliary contact group F4, side-hanging auxiliary contact FC4, air delay head LA2\LA3 thermal relay and other accessories can be installed in the block building mode to get a variety of new series products. In addition to screws, 35 mm and 75 mm international standard clamping rails can also be used for installation. The 9 A, 12 A, 25 A, 40 A, 50 A, 65 A, 80 A and 95 A contactors are derivable 4-pole products.

### V. Main Technical Parameters

1. See Table 1 for the main technical parameters of the contactor.
2. Contactor coil working voltage Us: AC 36 V, 110 V, 127 V, 220 V, and 380 V. Other specifications can be negotiated with the manufacturer.
3. Operation characteristics: Pull-in voltage 85%–110% Us; release voltage 20%–75% Us.
4. The contactor body has a pair of normally-open or normally-closed auxiliary contacts in specifications of 32 A and below, and a pair of normally-open and normally-closed auxiliary contacts 40 A and above. Moreover, up to 8 pairs of auxiliary contact groups (with various normally-open and normally-closed combinations) can be installed. See Table 2 for the basic parameters and performance of auxiliary contacts.
5. See Table 3 for the power consumption and energy efficiency grade of the contactor pull-in coil.

Table 1

Model		CJX2-09	CJX2-12	CJX2-18	CJX2-25	CJX2-32	CJX2-40	CJX2-50	CJX2-65	CJX2-80	CJX2-95	
Rated insulation voltage Ui (V)		690	690	690	690	690	690	690	690	690	690	
Conventional thermal current Ith (A)		20	20	32	40	50	60	80	80	125	125	
Rated working current (A)	380V	AC-3	9	12	18	25	32	40	50	65	80	95
		AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	660V	AC-3	6.6	8.9	12	18	21	34	39	42	49	55
		AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Controllable three-phase squirrel-cage motor power (AC-3) kW		220 V	2.2	3	4	5.5	7.5	11	15	18.5	22	22
		380 V	4	5.5	7.5	11	15	18.5	22	30	37	45
		660 V	5.5	7.5	9	15	18.5	30	33	37	45	55
Operating frequency (times/h)		AC-3	1,200				600					
		AC-4	300									
Electrical life (ten thousand times)		AC-3	100			80			60			
		AC-4	20				15			10		
Mechanical life (ten thousand times)		1,000				800				600		
Matched fuse model		NT00-16	NT00-20	NT00-25	NT00-32	NT00-50	NT00-63	NT00-63	NT00-80	NT00-100	NT00-125	

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Table 2

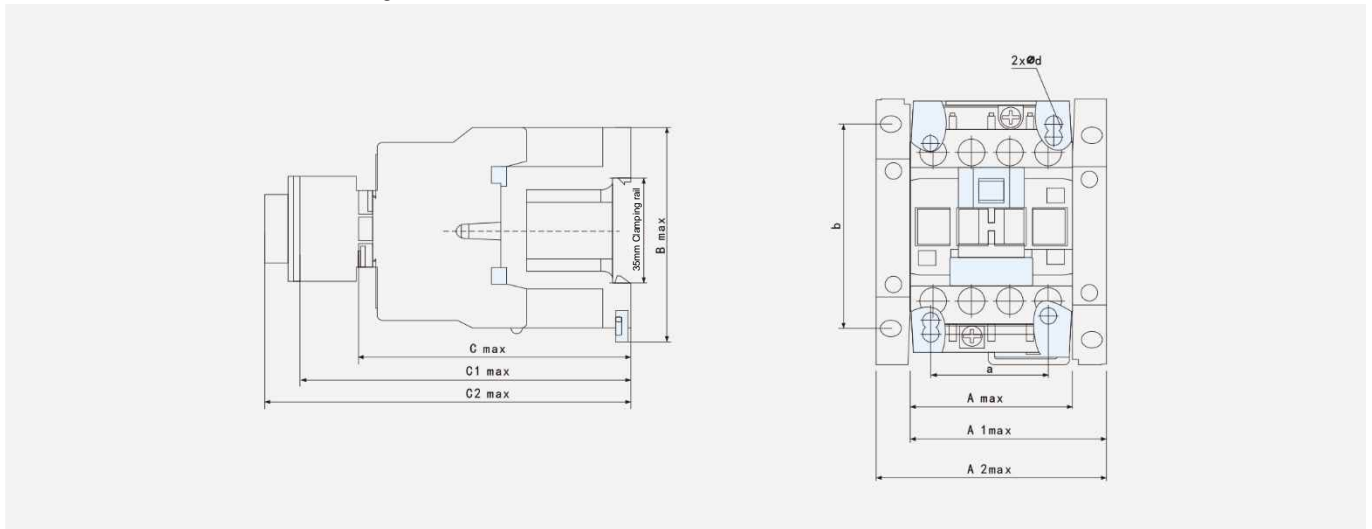
Use category	Rated working voltage (V)	Conventional thermal current (A)	Rated working current (A)	Control capacity	
				Making	Breaking
AC-15	380	10	0.95	3,600 VA	360 VA
DC-13	220		0.15	33 W	33 W

Table 3

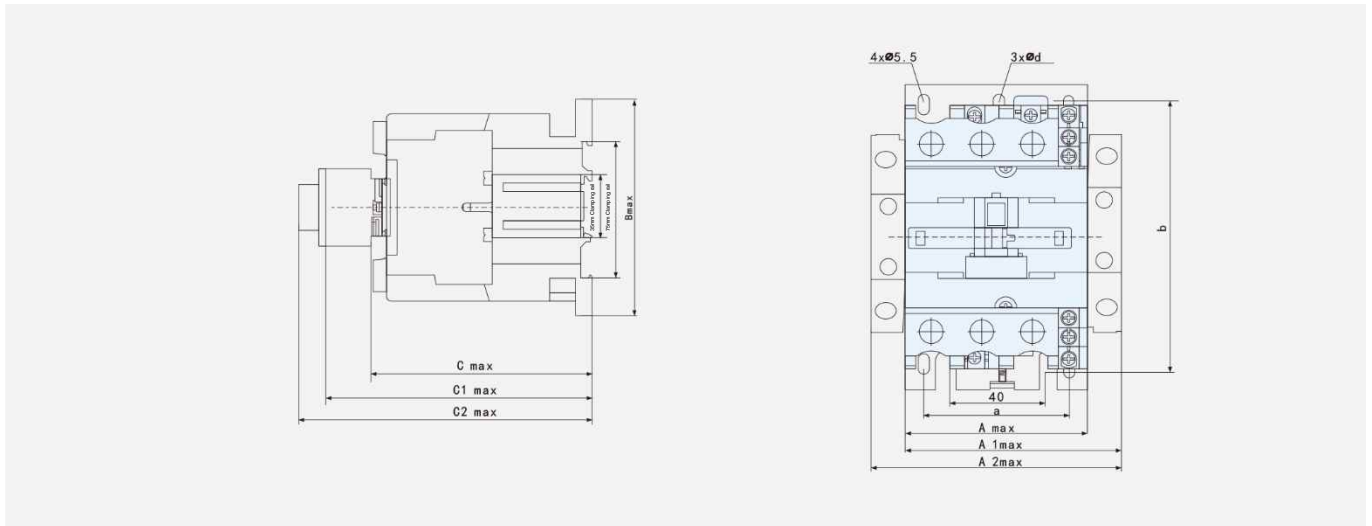
Model	CJX2-09-12	CJX2-18	CJX2-25-32	CJX2-40-95	Notes
Starting power/VA	70	70	110	200	/
Pull-in power/VA	9.0	9.5	14.0	36.6	Comply with GB21518
Energy efficiency level	3	3	3	2	

## VI. Outline and Installation Dimensions

### 1. Outline and installation dimension diagram of CJX2-9 – 32



### 2. Outline and installation dimension diagram of CJX2-40 – 95



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Table 3 Product installation dimensions

Model	Amax	A1max	A2max	Bmax	Cmax	C1max	C2max	a	b	d
CJX2-09-12	47	59.5	72	76	82	115	134	34/35	50/60	4.5
CJX2-18	47	59.5	72	76	87	120	139	34/35	50/60	4.5
CJX2-25	57	69.5	82	86	97	130	149	40	48	4.5
CJX2-32	57	69.5	82	86	102	135	154	40	48	4.5
CJX2-40-65	77	89.5	102	129	116	149	168	58.5	100/110	6.5
CJX2-80-95	87	99.5	115	129	127	160	179	66	100/110	6.5

Note: A1max — contactor + FC4; A2max — contactor + 2 FC4s; C1max — contactor + F4; C2max — contactor + LA2 \ LA3

## VII. Use and Maintenance

1. Correct installation and wiring. Pay attention to the signs of terminals during the installation and wiring of contactors. Main circuits 1L1, 3L2 and 5L3 are incoming terminals, and 2T1, 4T2 and 6T3 are outgoing terminals. The incoming terminal of the normally-open auxiliary contact is: 13, 23, 33, 43 ... The outgoing terminal of the normally-open auxiliary contact is: 14, 24, 34, 44 ... The incoming terminal of the normally-closed auxiliary contact is: 11, 21, 31, 41 ... The outgoing terminal of the normally-closed auxiliary contact is: 12, 22, 32, 42 ... The coil terminals are A1 and A2.
2. Before installation, check whether the technical data on the coil (such as rated voltage and frequency) are consistent with the power supply.
3. It shall be installed according to the specified installation conditions, and the terminal A1 symbol of the contactor coil shall face upwards, which is in line with people's visual habits.
4. The wiring screws shall be tightened. After checking that the wiring is correct and when the main contact is de-energized, the pull-in coil shall be opened and closed several times after energizing. It can be put into use after the test action is reliable.
5. If abnormal noise is found during use, it may be due to the dirt on the pole face of the iron core. Please clean the pole face.
6. During use, all parts of the product shall be inspected regularly, and it is required that the movable parts shall not be stuck and that the fasteners shall not be loose. The parts shall be replaced in time when damaged.

## VIII. Ordering Information

When ordering, users must indicate:

1. Complete name and model of the contactor.
2. Rated working voltage and frequency of the coil.
3. Order quantity.
4. If a standard clamping rail is required, please specify it separately.
5. Example of ordering: CJX2-0910, with coil voltage of 220 V, 50 Hz, and 10 sets.