



# CJX2(F) - C

Series AC Contactors (AC-1)

## CJX2(F) - C Series AC Contactors (AC-1)

### 1 Overview

CJX2(F) - C series AC contactor (AC-1) (hereinafter referred to as contactors) are primarily used in the AC 50Hz (or 60Hz) charging piles with a rated insulation voltage 690V ~ 1250V, and a rated operating current rated 80A to 750A when the rated operating voltage is 1000V under the usage category AC-1 mainly to remotely turn on and turn off the circuits in the new energy industries.

The contactor is not for breaking the short circuit current, so an appropriate short circuit protective device shall be selected.

Standards: GB/T 14048.4, IEC 60947-4-1, GB 21518

### 2 Type Designation

CJX 2 □ - □ □ □

①

②

③

④

⑤

⑥

## CJX2(F) - C Series AC Contactors (AC-1)

①	AC contactors	
②	Design No.	
③	Series code:	Default: 250 and below      F: 320 and above
④	Product specifications	(indicated by the rated operating current when the rated operating voltage is 380V)
⑤	Number of poles of the main circuit of the contactor:	Default (blank) – Three poles;      4 – Four poles
⑥	Derived code:	N: Reversible contactor      Z: DC-operated contactor (Us: DC) C: Dedicated AC-1 contactor

Note: The coil voltage range of different current specifications is slightly different, and the 3.2 Coil voltage  $U_s$  table will prevail; only the 320C has Class 4 products.

### 3 Main Technical Parameters

#### 3.1 Core Parameters of the Main Circuit

Model	Rated insulation voltage $U_i$ (V)	Conventional free air thermal current (A)	Max. rated operating voltage (V)	Rated operating current AC-1 (A)	Operation frequency AC-1 times / h	Model & Spec. of mated fuse
CJX2-80C	1000	80	1000	80	300	RT16-00/100A
CJX2-150C	1140	150	1140	150	300	RT16-00/160A
CJX2-200C	1140	200	1140	200	300	RT16-00/200A
CJX2-250C	1140	250	1140	250	300	RT16-00/250A
CJX2F-320C	1000	320	690	320	1200	RT16-2/400A
CJX2F-375C	1000	375	690	375	1200	RT16-2/400A
CJX2F-400C	1250	400	690	400	600	RT16-3/450A
CJX2F-500C	1250	500	690	500	600	RT16-3/500A
CJX2F-670C	1250	670	690	670	600	RT17/800A
CJX2F-750C	1250	750	1140	750	600	RT17/800A
Pull-in voltage range	85% $U_s \sim 115\%U_s$					
Release voltage range	20% $U_s \sim 75\%U_s$ (AC); 10% $U_s \sim 70\%U_s$ (DC)					

## CJX2(F) - C Series AC Contactors (AC-1)

### 3.2 Coil Voltage Us

Model	CJX2-80C	CJX2-150C、200C、250C	CJX2F-320C	CJX2F-375C	CJX2F-400C、500C	CJX2F-670C	CJX2F-750C
Rated control voltage Us / (V)	AC: 24/36/48/110/127/220/380V/ (50Hz, 50/60Hz) DC: 24/48/110/220V	AC: 24V/36V/ 48V/(110/120)V/(220/230)V/ (380/400)V/ (50/60)Hz	AC: (110V/115V)/ (220V/230V)/ (380V/400V)/ 50Hz, 50/60Hz DC: 110V/220V		AC: (110V/115V)/ (220V/230V)/ (380V/400V)/ 50/60Hz DC: 110V/220V		

### 3.3 Operation Conditions

At the ambient temperature  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ , the contractor can be reliably closed in the range of (85% ~ 110%)  $U_s$  when the sucking coil of the contactor is applied with the rated control power voltage  $U_s$  and is heated to a stable state. Its discharge AC voltage is (20%~75%)  $U_s$ , and the DC voltage is (10%~70%)  $U_s$ .

### 3.4 Core Parameters of Aux. Circuit

Aux. contact	Conventional thermal current (Ith) A	10
	Rated operating voltage (Ue) V and rated operating current (Ie) A	380V/0.95A (AC-15) 220V/0.15A (DC-13)
	Rated control capacity	360VA (AC-15) or 33W (DC-13)
	Electrical life (10,000 times)	100
	Mechanical life (10,000 times)	1000
	Connectable min. load	6V / 10mA

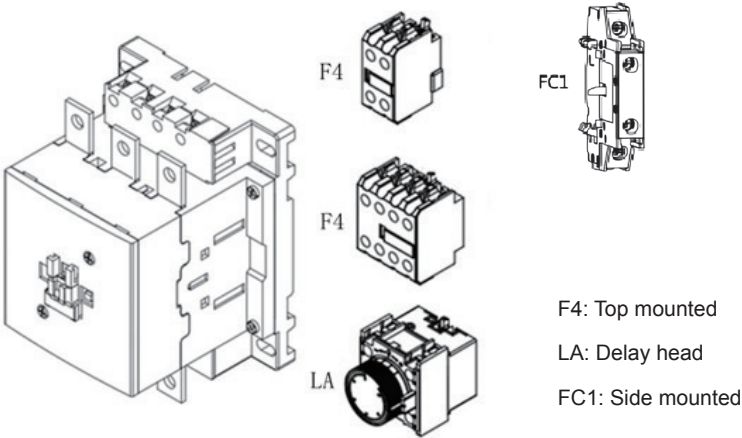
## 4 Operating Conditions

- 4.1 There are no acidic, alkaline or other corrosive gases in the surrounding air. Ambient temperature during storage:  $-60^{\circ}\text{C} \sim +80^{\circ}\text{C}$ ; allowable limit operating temperature:  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ .
- 4.2 Altitude: Not exceed 3000m; the derating is required when the altitude exceeds 3000m.
- 4.3 Atmospheric conditions: The relative humidity of the air at the installation site does not exceed 50% at a maximum temperature of  $+40^{\circ}\text{C}$ ; a higher relative humidity is allowed at lower temperatures, such as up to 90% at  $+20^{\circ}\text{C}$ . Special measures should be taken for condensation occurred occasionally due to temperature changes.
- 4.4 Pollution degree: Level 3.
- 4.5 Installation category: Class III.
- 4.6 Shock and vibration: There should be no significant shock and vibration at the installation site.
- 4.7 Installation method: Mounted via screws.
- 4.8 Installation conditions: Installed vertically; the inclination in all directions is not more than  $\pm 5^{\circ}$ .
- 4.9 Protection grade: IP00.

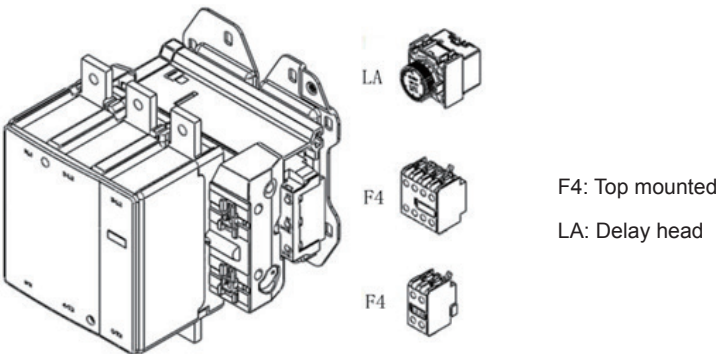
# CJX2(F) - C Series AC Contactors (AC-1)

## 5 Accessories Installation

### 5.1 CJX2-80C ~ 250C



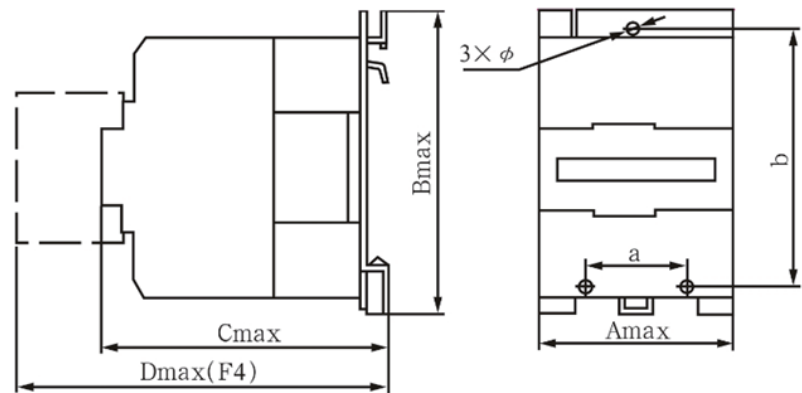
### 5.2 CJX2F-320C ~ 750C



CJX2(F) - C Series AC Contactors (AC-1)

6 Outline and Installation Dimensions

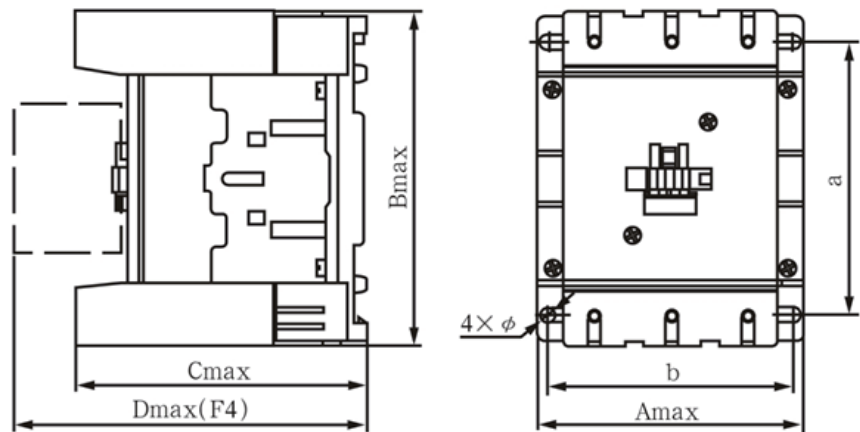
6.1 CJX2-80C Outline Drawing and Installation Dimensions



Unit: mm

Model	Amax	Bmax	Cmax	Dmax	a	b	φ
CJX2-80C	79	128	116	154.5	40±0.50	100±0.70/110±0.70	6.5 <sup>+0.58</sup> <sub>0</sub>

6.2 CJX2-150C ~ 250C Outline and Installation Dimensions

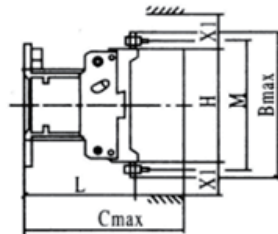
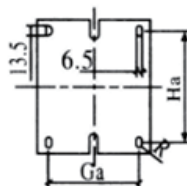
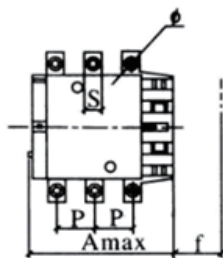


Unit: mm

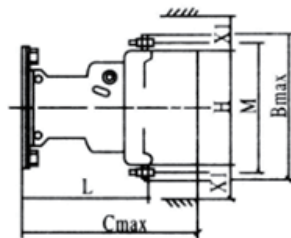
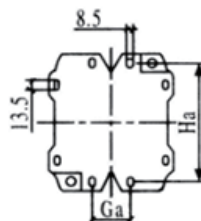
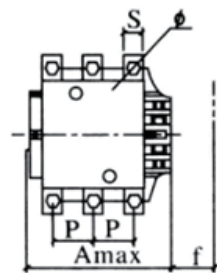
Model	Amax	Bmax	Cmax	Dmax	a	b	φ
CJX2-150C ~ 250C	122	160	135	173.5	130±0.70	96±0.70/110±0.70	6.5 <sup>+0.58</sup> <sub>0</sub>

## CJX2(F) - C Series AC Contactors (AC-1)

### 6.3 CJX2F-320C ~ 750C Outline and Installation Dimensions



CJX2F-320C ~ 500C



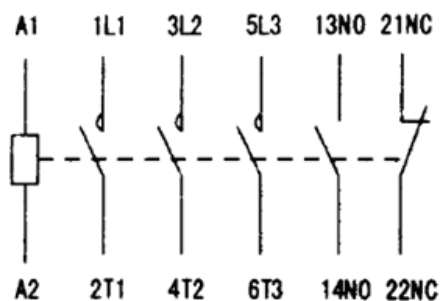
CJX2F-670C ~ 750C

Unit: mm

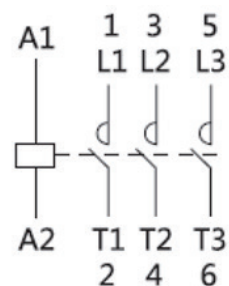
mm	CJX2F-320C	CJX2F-375C	CJX2F-400C	CJX2F-500C	CJX2F-670C	CJX2F-750C
A	167	172	202	202	214	233
B	171	199	203	203	209	240
C	174	186	217	217	222	233
P	40	48	48	48	48	55
S	20	25	25	25	25	30
Φ	M8	M10	M10	M10	M10	M10
f	131	131	147	147	151	169
M	150	172	178	178	181	208
H	124	127	147	147	158	172
L	107	113.5	141	141	145	146
X1						
200 ~ 500V	10	10	10	10	15	15
660 ~ 1000V	15	15	15	15	20	20
Ga	80	80	96	96	80	80
Ha	106 ~ 120	106 ~ 120	110 ~ 120	110 ~ 120	170 ~ 180	170 ~ 180

## CJX2(F) - C Series AC Contactors (AC-1)

### 7 Product Wiring Diagram



CJX2-80C



CJX2-150C ~ 750C

### 8 Ordering Notice

8.1 Please specify the following items when ordering:

Full model, name, and order quantity of the contactor

8.2 Attention shall be paid to the following when ordering:

The CJX2-80C AC contactor has a 1 open and 1 closed aux. contact, and other models has no aux. contacts.

8.3 Order Example:

CJX2-80C AC contactor, coil voltage 220V, 50Hz, 24 sets, F4-22 10 pcs