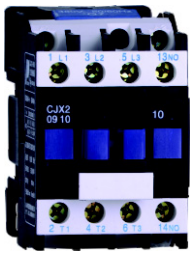
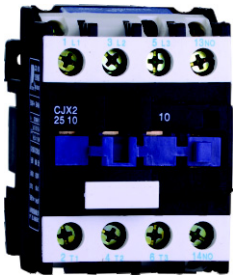
# 1.APPLICATION RANGE



- CJX2 series AC Contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated operating voltage up to 690V, rated operating current up to 95A, for the use of remotely connecting and breaking, it also can be connected with thermal relay combined into electromagnetic starter to protect the circuit's over-load of operation. Contactor can also be equipped with the building block type auxiliary contacts group, air delay contact, mechanical interlock mechanism, etc. accessories to combine into delay contactor, directional contactor, and star-delta starter.
- Product confirms to: GB14048.4, IEC60947-4-1 etc. standards.

# 2.Model and its implication



CJ X 2 – □ □ □ □

- 10 indicates: contactor that is 32A and below, its contact is 3P+NO
- 01 indicates: contactor that is 32A and below, its contact is 3P+NC
- 11 indicates: contactor that is 40A and above, its contact is 3P+NO+NC
- 04 indicates: contactor that is 25A and below, its contacts is 4P
- 08 indicates: contactor that is 25A and below, its main contacts is 2P+2R

P is the main normal open contact, R is the main normal close contact (NO-normal open auxiliary contact, NC- normal close auxiliary contact)

- Rated operating current
- Design serial No.
- Miniature
- AC Contactor

F 4 □ □ (Sideward installation type/side mounted)

- Quantity of NC contact
- Quantity of NO contact
- Auxiliary contactor group

LA 8 □ □ (Top installation type)

- Quantity of NC contact
- Quantity of NO contact
- Auxiliary contactor group

LA □ D □ □

- 20 indicates the scope of delay is 0.1~3s
- 22 indicates the scope of delay is 0.1~30s
- 24 indicates the scope of delay is 10~180s
- 2 is delay when electrified
- 3 is delay when interruption of power supply

# 3.APPLICATION ENVIRONMENT CONDITION

3.1 Altitude height of Installation places does not exceed 2000m

3.2 Ambient temperature

Up limitation of ambient temperature does not exceed +40℃; Average value in 24h of ambient temperature does not exceed +35℃. The low limitation of ambient temperature does not lower than -5℃.

3.3 Condition of atmosphere

3.3.1 Humidity

When it is the highest temperature +40℃, the relative humidity does not exceed 50%, and it allows a certain high relative humidity when it is at relatively low temperature. For example, it reaches 90% when 20℃, and it should take special measurements when there occurring condensation due to the temperature variation.

3.3.2 Pollution grade:3

3.4 Installation condition

Installing at the places that without impact vibration and without snow or rain; up terminal connects power, and the low terminal connects the load; the gradient between the vertical and the product does not exceed 5°

3.5 Installation category: III

# 4.Main technique parameter

4.1 Main technique parameter of contactor to see table 1

4.2 Main technique parameter for the coil of contactor to see table 2

4.3 Technique parameter for the F4 (LA1-D) series auxiliary contacts group and LA2-D, LA3-D series air delay contact to see table 3 and table 4

Table 2

| Model | | | CJX2-09 | CJX2-12 | CJX2-18 | CJX2-25 | CJX2-32 | CJX2-40 | CJX2-50 | CJX2-65 | CJX2-80 | CJX2-95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rated control power voltage Us (AC)V | | | 36,110,220,380 | | | | | | | | | |
| Pull-in voltage 50/60Hz V | | | (0.85~11)Us | | | | | | | | | |
| Release voltage 50/60Hz V | | | (0.2~0.7)Us | | | | | | | | | |
| Power of coil | | Pull-in VA | 70 | 70 | 70 | 110 | 110 | 200 | 200 | 200 | 200 | 200 |
| | | Keeping VA | 8 | 8 | 8 | 11 | 11 | 20 | 20 | 20 | 20 | 20 |
| | | Pull-in VA | 80 | 80 | 80 | 115 | 115 | 200 | 200 | 200 | 200 | 200 |
| | | Keeping VA | 8 | 8 | 8 | 11 | 11 | 20 | 20 | 20 | 20 | 20 |
| | | Power W | 1.8-2.7 | 1.8-2.7 | 1.8-2.7 | 3~4 | 3~4 | 6~10 | 6~10 | 6~10 | 6~10 | 6~10 |
| Power factor | Connecting | | 0.8 | | | | | 0.6 | | | | |
| | Breaking | | 0.3 | | | | | 0.3 | | | | |
| Pull-in time m s | | | 12~22 | | | | | 20~26 | | 20~35 | | |
| Release time m s | | | 4~12 | | | | | 8~12 | | 6~20 | | |
| Maximum operation frequency | | | 3500 times/h | | | | | | | | | |

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 V | | | 690 | | | | | | | | | |
| Main contacts | Setting thermal current (≤40℃) A | | 20 | 20 | 32 | 40 | 50 | 60 | 80 | 80 | 125 | 125 |
| | Rated operating current when 380V, A | AC-3 | 9 | 12 | 18 | 25 | 32 | 40 | 50 | 65 | 80 | 95 |
| | | AC-4 | 4 | 5 | 7 | 10 | 13 | 16 | 20 | 25 | 32 | 45 |
| | Capacity of control single-phase motor kW | 110V | 0.4 | 0.5 | 0.75 | 1.1 | 1.5 | 1.5 | 2.2 | 3.7 | — | — |
| | | 220V | 0.75 | 1.1 | 1.5 | 2.2 | 3 | 3.7 | 5.5 | — | — | — |
| | Capacity of AC-3 control three-phase squirrel cage type motor kW | 220V | 2.2 | 3 | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 25 |
| | | 380V | 4 | 5.5 | 7.5 | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 |
| | | 440V | 4 | 5.5 | 7.5 | 11 | 15 | 22 | 30 | 37 | 41.5 | 45 |
| | | 660V | 5.5 | 7.5 | 9 | 15 | 18.5 | 30 | 33 | 37 | 45 | 45 |
| | AC-1(≤40℃) A | | 20 | 20 | 32 | 40 | 50 | 60 | 80 | 80 | 125 | 125 |
| | Max. current when connecting A | | 250 | 250 | 300 | 450 | 550 | 800 | 900 | 1000 | 1100 | 1200 |
| | Max. current when breaking A | 440V | 250 | 250 | 300 | 450 | 550 | 800 | 900 | 1000 | 1100 | 1200 |
| | | 500V | 175 | 175 | 250 | 400 | 480 | 80 | 900 | 1000 | 1100 | 1200 |
| | | 660V | 85 | 85 | 120 | 180 | 200 | 400 | 500 | 630 | 640 | 700 |
| | Operation frequency | Electrical life AC-4 times/h | 300 | 300 | 300 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| | | Electrical life AC-3 times/h | 2400 | 2400 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 600 |
| | | Mechanical life times/h | 3600 | | | | | | | | | |
| | Mechanical life times/h | AC-4 ten thousand times/h | 20 | 20-15 | 20-7 | 15-7 | 15-7 | 10-7 | 7 | 7-6 | 7-5 | 7-5 |
| | | AC-3 ten thousand times/h | 200 | | | | | | | 160 | | |
| | Mechanical life ten thousand times/h | | 2000 | | | | | | | | 1000 | |
| Wiring terminal | Pcs | | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 |
| | Flexible wire with cold-press terminal | | 2.5 | 2.5 | 4 | 4 | 6 | 10 | 16 6 | 16 6 | 50 25 | 50 25 |
| | Flexible wire without cold-press terminal | | 4 | 4 | 6 | 10 6 | 10 6 | 15 | 25 16 | 25 16 | 50 35 | 50 35 |
| | Single hard wire | | 4 | 4 | 6 | 6 — | 10 | 10 | 25 — | 25 — | 50 — | 50 — |
| | Weight kg | | 0.32 | 0.32 | 0.35 | 0.49 | 0.55 | 1.07 | 1.07 | 1.10 | 1.44 | 1.44 |

Table 3

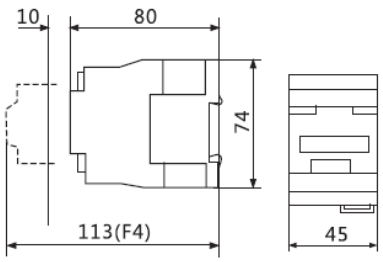
| Model | Groups of contact | Rated insulation voltage V | Setting thermal current A | Electrical life million times | Mechanical life ten thousand times | Maximum operation frequency times/s | Connected minimum load | Terminal can be connected wire |
|---|---|---|---|---|---|---|---|---|
| F4-11 | NO+NC | 690 | 10 | 0.5~5 | 1000 | 3 | 6V*10mA | 1~2 pcs flexible wire or hard wire, its cross section is 15~25mm$^2$ |
| F4-20 | 2NO | | | | | | | |
| F4-02 | 2NC | | | | | | | |
| F4-22 | 2NO+2NC | | | | | | | |
| F4-40 | 4NO | | | | | | | |
| F4-04 | 4NC | | | | | | | |
| F4-31 | 3NO+1NC | | | | | | | |
| F4-13 | 1NO+3NC | | | | | | | |

Table 4

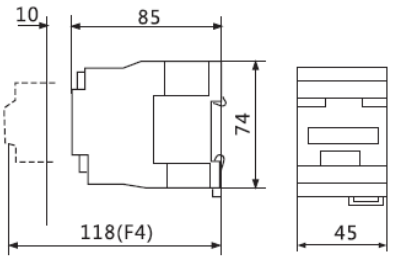
| Model | Rated insulation voltage V | Setting thermal current A | Characteristics of delay | Scope of delay S | Repetitive error of delay % | Stability error of delay % | Temperature error %℃ | Delay contact group | Electrical life times | Mecha-nical life | Maximum operation frequency times/s | Connected minimum load | Terminal can be connected wire |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LA2-D20 | 690 | 10 | Delay when electrified | 0.1~3 | ±5 | ±30* | ±25 | NO+NC | 0.5~5*10$^6$ | 2.5*10$^6$ | 3 | 6V*10mA | 1~2 pcs flexible wire or hard wire, its cross section is 15~25mm$^2$ |
| LA2-D22 | | | | 0.1~30 | | | | | | | | | |
| LA2-D24 | | | | 10~180` | | | | | | | | | |
| LA3-D20 | | | Delay when interruption of power supply | 0.1~3 | | | | | | | | | |
| LA3-D22 | | | | 0.1~30 | | | | | | | | | |
| LA3-D24 | | | | 10~180 | | | | | | | | | |

Stability error of delay: delay average value after action of 2.5 *10$^6$ times/setting value error when beginning

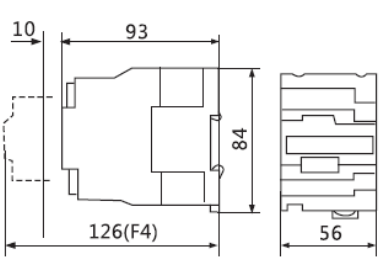
# 5.External and installation dimension



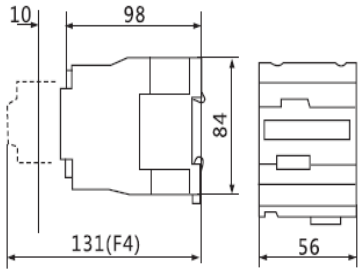

Picture 1 CJX2-09,12



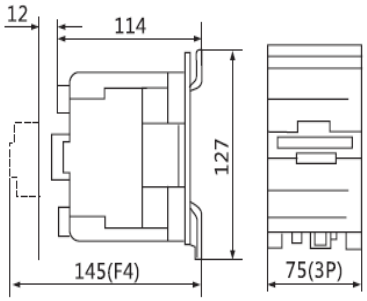

Picture 2 CJX2-18



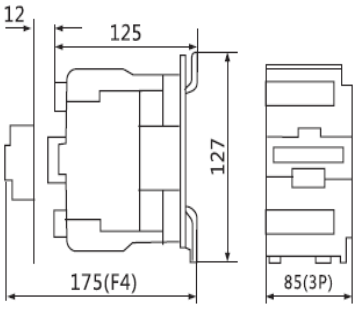

Picture 3 CJX2-25



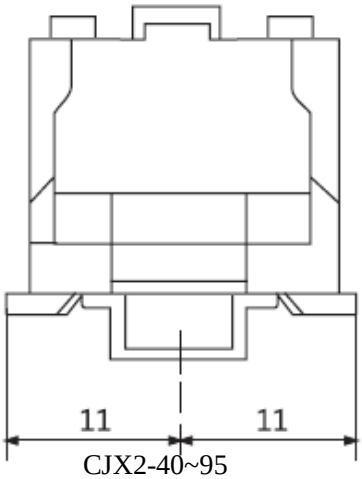

Picture 4 CJX2-32




Picture 5 CJX2-40,50,63

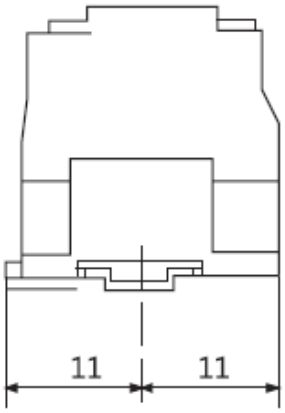



Picture 6 CJX2-80,95



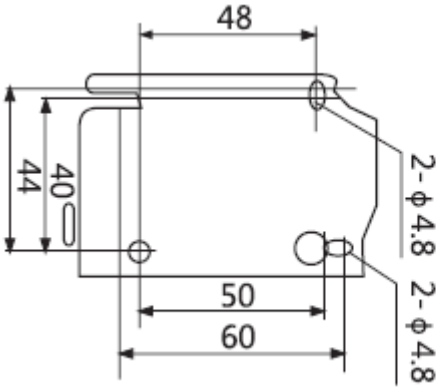

CJX2-40~95

Installed by 35mm or 75mm standard DIN rail

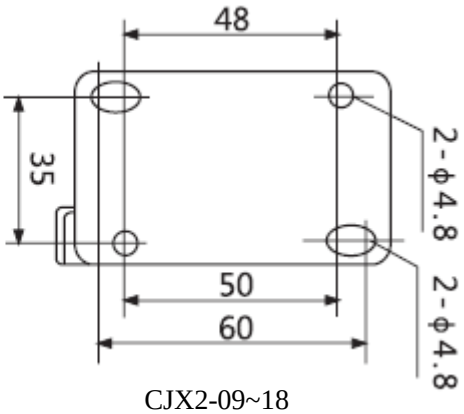



CJX2-09~32

Installed by 35mm standard DIN rail




CJX2-25,32




CJX2-09~18

## 6.Ordering notice

| | |
|---|---|
| Model | ☐ CJX2-9____ pcs, ☐ CJX2-12 ____ pcs, ☐ CJX2-18 ____pcs, ☐CJX2-25 ____pcs, ☐ CJX2-32____ pcs, ☐ CJX2-40 ____pcs, ☐ CJX2-50____ pcs, ☐CJX2-65 ____pcs, ☐ CJX2-80____ pcs, ☐ CJX2-95 ____pcs |
| Rated control power voltage Us | ☐ 36 ☐48 ☐110 ☐127 ☐220 ☐380 |
| Frequency | ☐ 50Hz ☐ 60Hz |
| Quantity of Auxiliary contacts and its combination | ☐F4-11 ☐F4-20 ☐F4-02 ☐F4-22 ☐F4-40 ☐F4-04 ☐F4-31 ☐F4-13 ☐ LA2-D20 ☐ LA2-D22 ☐ LA2-D24 ☐ LA3-D20 ☐LA3-D22 ☐LA3-D24 |