

CJ19i(CJ19s) /CJ19


Contactora For Capacitor Switching

OPERATION INSTRUCTION

Standard: IEC/EN 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.

CJ19i(CJ19s) CJ19 Contactor for Capacitor Switching

1 General

CJ19i(CJ19s) CJ19 contactor for capacitor switching (hereinafter called contactor) is suitable for the circuit of AC 50Hz/60Hz with rated voltage up to 690V. It is mainly used to add low voltage reactive power compensation equipment or cut off low voltage parallel capacitor. The contactor is equipped with a device to suppress the inrush current, which can effectively reduce the impact of the making inrush current on the capacitor and suppress the over-voltage when the capacitor is cut off.

Standard: IEC/EN 60947-4-1.

2 Type designation

CJ 19 i - □□ / □□

Number of auxiliary contact
21: 2NO+1NC, 12: 1NO+2NC

Basic model code

Shell color selection
i: black shell, s: gray white shell
blank: CJX2-D contactor

Design sequence No.

Contactor

3 Operating Conditions

- Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, the average during 24 hours should not exceed $+3^{\circ}\text{C}$;
- Altitude: $\leq 2000\text{m}$;
- Atmosphere conditions: At mounting site, relative humidity not exceed 50% at the max temperature of $+40^{\circ}\text{C}$, higher relative humidity is allowable under lower temperature. For example, RH could be 90% at $+20^{\circ}\text{C}$, special measures should be taken for occurrence of condensation;
- Pollution degree: 3
- Installation category: III
- Installation conditions: the inclination between installation plane and vertical plane is within $\pm 5^{\circ}$
- Impact and shake: the products should locate in the places where there are no obvious impact and shake.

4 Technical data

Table 1

| | | | | | | | |
|--|------------------------------------|----------------------|----------------------|----------------------|----------------------|------------------------|-----|
| Model | CJ19i-25 CJ19s-25 | CJ19i-32 CJ19s-32 | CJ19i-43 CJ19s-43 | CJ19i-63 CJ19s-63 | CJ19i-95 CJ19s-95 | CJ19i-115 CJ19s-115 | |
| Main circuit features | CJ19-25 | CJ19-32 | CJ19-43 | CJ19-63 | CJ19-95 | CJ19-115 | |
| Rated operating voltage(Ue) | V 380/400 | | | | | | |
| Rated isolation voltage(Ui) | V 690 | | | | | | |
| Rated current of controllable capacitor(In) | A | 17 | 29 | 36 | 43 | 72 | 87 |
| | AC-6b 400V | 6 | 9 | 10 | 15 | 22.5 | 35 |
| Rated capacity of controllable capacitor(Qn) | kVar | 12 | 18 | 20 | 30 | 45 | 60 |
| | AC-6b 400V | 25 | 32 | 43 | 63 | 95 | 115 |
| Rated conventional heating current(Ith) | A | ≤35In | | ≤55In | | | |
| Restrained surge capacity | A | 100 | | 100 | | | |
| Mechanical durability | 10 ⁴ times | | | | | | |
| Electrical durability | AC-6b400V 10 ⁴ times | 15 | | 12 | | | |

Renew Table 1

| | | | | | | | | |
|---|-------------------|--|----------------------|----------------------|----------------------|----------------------|------------------------|--|
| Model | | CJ19i-25 CJ19s-25 | CJ19i-32 CJ19s-32 | CJ19i-43 CJ19s-43 | CJ19i-63 CJ19s-63 | CJ19i-95 CJ19s-95 | CJ19i-115 CJ19s-115 | |
| Operating frequency cycles/h | | 300 | | | | | 120 | |
| AC-6b 400V 10 ⁴ times | | | | | | | | |
| Coil features | | | | | | | | |
| Controlled power voltage (Us) | AC 50Hz | 110, 220, 380 | | | | | | |
| | V | | | | | | | |
| Operating voltage range | operation voltage | 85%~110%Us when install inclination angle is +22.5°; 70%~120%Us when install inclination angle is ±5° | | | | | | |
| | release voltage | 20%~75%Us when install inclination angle is +22.5°; 20%~65%Us when install inclination angle is ±5° | | | | | | |
| Auxiliary contact features | | | | | | | | |
| Number of auxiliary contact | | 12, 21 | | | | | | |
| Rated conventional heating current(Ith) | | 10 | | | | | | |
| The minimum load can be connected to | | 6V×10mA | | | | | | |

5 Overall and mounting dimensions

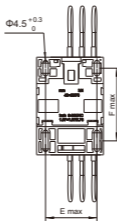
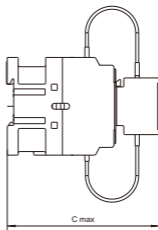
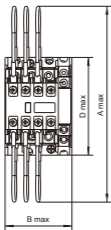
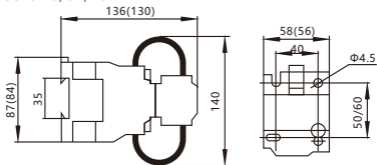


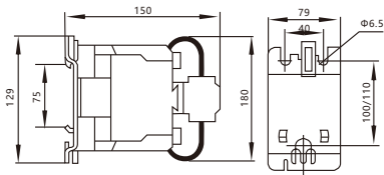
Table 2

| Model | overall dimensions | | | | mounting dimensions | |
|------------------|--------------------|------|------|-------|---------------------|---------|
| | Amax | Bmax | Cmax | Dmax | Emax | Fmax |
| CJ19i(CJ19s)-25 | 176 | 45.5 | 122 | 74.5 | 35 | 50/60 |
| CJ19i(CJ19s)-32 | 180 | 56.5 | 132 | 83 | 40 | 50/60 |
| CJ19i(CJ19s)-43 | 180 | 56.5 | 132 | 83 | 40 | 50/60 |
| CJ19i(CJ19s)-63 | 190 | 74.5 | 154 | 127.5 | 59 | 100/110 |
| CJ19i(CJ19s)-95 | 190 | 85.5 | 160 | 127.5 | 67 | 100/110 |
| CJ19i(CJ19s)-115 | 190 | 85.5 | 160 | 127.5 | 67 | 100/110 |

CJ19-25, 32, 43



CJ19-63, 95, 115



●Wiring capacity and fastening torque are shown in Table 3

Table 3 Wiring capacity and fastening twist

| Current Specification | | | 09/12/18 | 09/12/18 | 09/12/18 | 09/12/18 |
|------------------------------------|-------|-----------------|----------|----------|----------|----------|
| Main Loop Wiring | | | | | | |
| Soft Wire Without Connect Terminal | 1wire | mm ² | 1..4 | 1..4 | 1..4 | 1..4 |
| | 2wire | mm ² | 1..4 | 1..4 | 1..4 | 1..4 |
| Soft Wire Without Connect Terminal | 1wire | mm ² | 1..4 | 1..4 | 1..4 | 1..4 |
| | 2wire | mm ² | 1..2.5 | 1..2.5 | 1..2.5 | 1..2.5 |
| Hard Wire Without Connect Terminal | 1wire | mm ² | 1..4 | 1..4 | 1..4 | 1..4 |
| | 2wire | mm ² | 1..4 | 1..4 | 1..4 | 1..4 |
| Tightening Torque | | N·m | 1.2 | 1.2 | 1.2 | 1.2 |

| Current Specification | | | 09/12/18 | 25/32/38 | 40/50/65 | 80/90 |
|--|-------|-----------------|----------|----------|----------|-------|
| Control And Auxiliary Loop Wiring | | | | | | |
| Soft Wire Without Connect Terminal | 1wire | mm ² | 1..4 | | | |
| | 2wire | mm ² | | | | |
| Soft Wire Without Connect Terminal | 1wire | mm ² | 1..2.5 | | | |
| | 2wire | mm ² | | | | |
| Hard Wire Without Connect Terminal | 1wire | mm ² | 1..4 | | | |
| | 2wire | mm ² | | | | |
| Tightening Torque | | N·m | 1.2 | | | |



CERTIFICATE

Product Model: CJ19i(CJ19s) /CJ19

Standard: IEC/CE 60947-4-1

Inspector : **CNC003**

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

CNC ELECTRIC

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CNC

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