

CJ19 Series
Contactor for Capacitor Switching

User Instruction

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 Use Purpose and Range of Application

CJ19 series contactor for capacitor switching (hereinafter referred to as contactor) is mainly used in power systems with AC 50Hz/60Hz, rated operating voltage up to 690V and rated power up to 130kvar. It is used to connect and disconnect shunt capacitors with the aim to improve power factor.

2 Key Technical Parameters and Performance

Table 1 Environmental conditions

Environmental conditions	
Ambient temp. (°C)	-5°C~+40°C, average temperature should not exceed +35°C within 24h
Hot and humid atmospheric conditions	Relative humidity should not exceed 50% at +40°C; up to 90% at +20°C;
Altitude	No influence below 2000m,
Pollution class/installation category	Class 3/III

Table 2 Key technical parameters and performance index

Specifications		CJ19 -25	CJ19 -32	CJ19 -43	CJ19 -63	CJ19 -95	CJ19 -115	CJ19 -150	CJ19 -170	
Item										
Controllable capacitors Qe kvar	220/230V	6.7	10	15	20	35	40	46	52	
	380/400V	12.5	20	25	33.3	50	60	80	90	
	660/690V	18	26	36	48	92	100	120	130	
Rated insulation voltage Ui V		690								
Rated impulse withstand voltage (kV)		6								
Rated limited short-circuit current Iq (kA)		50								
Rated operating voltage Ue V		220/230, 380/400, 660/690								
Conventional free air thermal current Ith		25	32	43	63	95	200	200	275	
Rated operating current (AC-6b) Ie A		17	23	29	43	72.2	87	115	130	
Inrush current suppression capability		20Ie								
Control power supply voltage Us V		110, 127, 220, 380								
Auxilliary contacts		AC-15; Ie: 0.95A Ue: 380/400V DC-13 ; Ie: 0.15A Ue: 220/250A Ith: 10A								
Operating frequency Time/hour		120								
Electrical life (×10 ⁴ times)		10					2			
Mechanical life (×10 ⁴ times)		100					300			

3 Installation

See Figure 1~Figure 3 and Table 3 for outline and installation dimensions, see Figure 4 for installation diagram, see Table 4 for wiring capacity of wiring terminals.

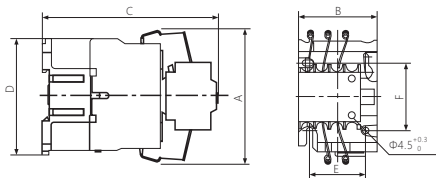


Figure 1 Outline and installation dimensions of CJ19-25~43 contactors

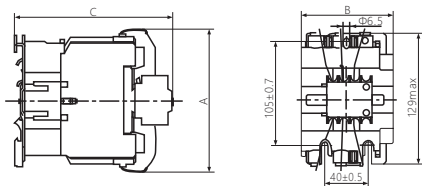


Figure 2 Outline and installation dimensions of CJ19-63~95 contactors

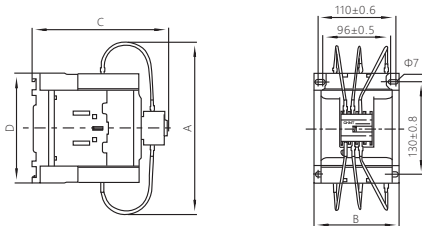


Figure 3 Outline and installation dimensions of CJ19-115~170 contactors

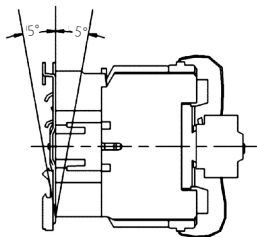


Figure 4 Product installation diagram

Table 3 Outline and installation dimensions

Unit: mm

Contacteur model	Amax	Bmax	Cmax	Dmax	E	F	Remarks
CJ19-25	80	47	124	76	34/35	50/60	In addition to screws, user can also use 35mm mounting rails for installation
CJ19-32	90	58	132	86	40	48	
CJ19-43	90	58	136	86	40	48	
CJ19-63	132	79	150	—	—	—	In addition to screws, user can also use 35mm or 75mm mounting rails for installation
CJ19-95	135	87	158	—	—	—	
CJ19-115	200	120	192	155			In addition to screws, user can also use two 35mm mounting rails for installation
CJ19-150	200	120	192	155			
CJ19-170	200	120	192	155			

Table 4 Sectional area of conductors

Basic specifications	CJ19-25	CJ19-32	CJ19-43	CJ19-63	CJ19-95	CJ19-115	CJ19-150	CJ19-170
Sectional area of main circuit conductors (mm ²)	4	6	10	16	25	95	95	95
Sectional area of auxiliary circuit conductors (mm ²)	1.5							

4 Maintenance

Check if the contactor can operate reliably every month. Method: Check if the contact incline 5° forward upon pick-up and incline 5° backward upon release.

Conduct maintenance every month. **Note: Do not disassembly, assembly and repair the product at will. Replace the product if it is found to be damaged.**

Table 5 Analysis and Troubleshooting of Faults

Symptoms	Cause analysis	Troubleshooting method
The product does not operate 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 supply 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.

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QC PASS

CJ19 Series
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IEC/EN 60947-4-1

Check 46

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

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User Instruction

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