POWER DISTRIBUTION SOLUTION PROVIDER

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CJ19(16)

Switching capacitor contactor

CJ19(16)-25, 32, 43, 63, 85, 95 Switching capacitor contactors, specifically designed for switching low-voltage parallel capacitors, are widely used in reactive power compensation equipment with AC 50Hz and voltage up to 380V. The contactors are equipped with a surge current suppression device, which can effectively reduce the impact of closing surge current on the capacitors and lower the operational overvoltage at the moment of disconnection. They can replace the original switching device consisting of one contactor and three current-limiting reactors. They have a small size, light weight, strong switching capability, and are easy to install.



○ Model definition and description

CJ	—	19(16)	□	□	□
1		2	3	4	5

1.Switching capacitor contactor.

2.Design sequence number

3.Basic regulations are expressed in terms of the agreed heating current (A).

4.Auxiliary contact combinations (see the table below)

5.Operating voltage (coil voltage): 220VAC or 380VAC

○ Normal working conditions and installation conditions

- Ambient air temperature: -25℃ to +40℃
- Relative humidity: ≤ 90% at 25℃
- Altitude: ≤ 2000m
- Environmental conditions: No harmful gases or vapors, no conductive or explosive dust, no severe mechanical vibration.
- The inclination between the installation surface and the vertical surface is no more than 5°
- Pollution level: 3rd grade
- Installation category: Class III

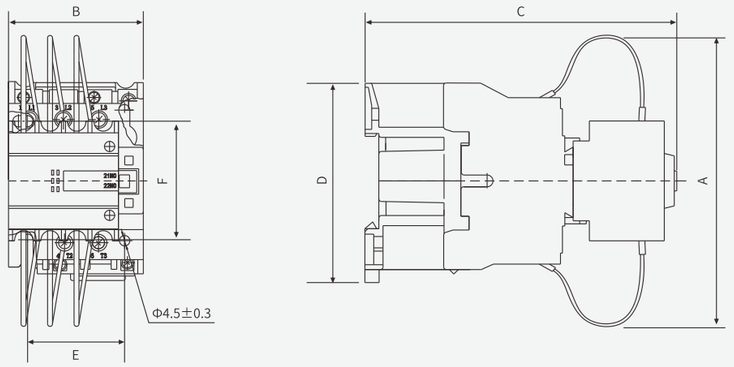
○ Main product model specifications and data sheets

Specification	Auxiliary contact code	Number of auxiliary contacts		Logo	
		Always on	Normally closed		
25A	20	2	0	20E	13、14；23、24
32A	02	0	2	02E	11、12；21、22
43A	11	1	1	11E	13、14；21、22
63A	21	2	1	21E	13、14；21、22；33、24
95A	21	2	1	21E	13、14；21、22；21、32

Main parameters

Project	Specification	25	32	43	63	85	95
Controllable capacitor	230V	6	9	10	15	20	32
Capacity (kvar)	400V	12	18	20	30	40	50
Rated insulation voltage (V)		500	500	500	500	500	500
Rated working voltage (V)		380	380	380	380	380	380
Agreed heating current (A)		25	32	43	63	85	95
AC-6b Rated Operating Current (A)		17	26	29	43	58	72
Peak current 7 Capacitor rated current		20Ie	20Ie	20Ie	20Ie	20Ie	20Ie
Control coil voltage (V)		220/380	220/380	220/380	220/380	220/380	220/380
The insulation class of the coil		B	B	B	B	B	B
Auxiliary contact specified heating current (A)		6	6	6	10	10	10
Operation frequency (times/hour)		120	120	120	120	120	120
Battery life (cycles)		10^5	10^5	10^5	10^5	10^5	10^5
Mechanical life (times)		10^6	10^6	10^6	10^6	10^6	10^6

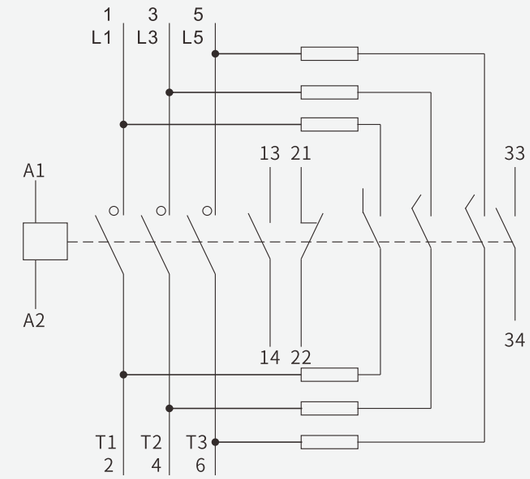
Shape and installation dimensions



Contactor model	Amax	Bmax	Cmax	Dmax	E	F	Note
CJ19-25	80	47	124	76	34/35	50/60	In addition to screw installation, it can also be installed using 35mm installation rails.
CJ19-32	90	58	132	86	40	48	
CJ19-43	90	58	136	86	40	48	
CJ19-63	132	79	150				In addition to screw installation, it can also be installed using 35mm and 75mm installation rails.
CJ19-95	135	87	158				

Note: The contactors can be installed either by using screws or by embedding them with standard rail fasteners.
For CJ19-25, 32, and 43 contactors, the rail width is 35mm. For CJ19(B)-63, 85, and 95 contactors, the rail width is either 35mm or 75mm.

Internal circuit connection



Use and Maintenance

- The incoming and outgoing lines of the contactor must be connected securely to prevent arc discharge between phases during the energization period, which could damage the contactor and the equipment.
- When the capacitor is being re-energized, if the inrush current is too large and exceeds the suppression capacity of this contactor, the resistor may be damaged. In such cases, the resistor can be replaced and the device can be used again.
- The electrical appliances selected for the discharge device in reactive power compensation equipment should have an insulation voltage greater than 2 Ue, to prevent damage to the contactors due to the failure of the discharge device.