

YCC19v

CONTACTOR FOR CAPACITOR SWITCHING

- Unique terminal guard design
- Expanded 1 set of A1/A2 terminals
- Standard with 3 sets of auxiliary contact function

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Contactor for capacitor switching



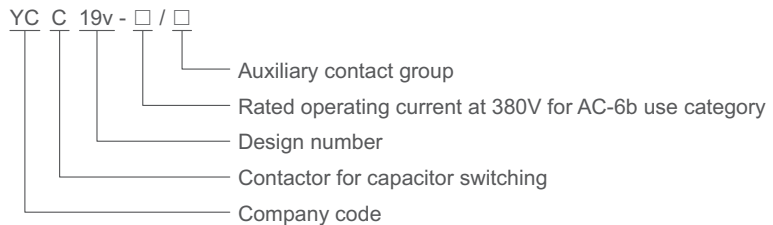
▼ Product overview

YCC19v contactor for capacitor switching (hereinafter referred to as contactor), used to cut off low-voltage parallel capacitors, widely used in AC 50Hz, voltage to 380V reactive power compensation equipment, contactor is equipped with inrush current suppression device, can effectively reduce the impact of the making inrush current on capacitors and suppress the operating overvoltage at the breaking moment. It can replace the original switching device composed of one contactor and three current limiting electric reactors, and it also has features of small size, light weight, strong on-off ability and easy installation.

▼ Product features

1. The standard equipped 3 groups auxiliary contact can flexibly meet various applications;
2. It is suitable for larger voltage fluctuations to ensure the stable operation of the equipment, and effectively avoid problems such as power failure and coil burning caused by voltage fluctuations;
3. Unique slider design, simplify complexity, improve installation and disassembly efficiency;
4. There are A1 and A2 terminals on the up and down part of the coil to facilitate the up and down connection and meet various connection situations.
5. Unique terminal shield design, anti-electric shock, be safer;
6. Flame-retardant shell, pure copper coil, control various of applications;
7. High quality silver alloy contacts carry higher current and long life.

▼ Product model and meaning



Specification	Auxiliary contact code	Auxiliary contact quantity		Signal	
		NO	NC		
25A, 32A, 43A 63A, 80A, 95A	21	2	1	21E	13, 14; 21, 21; 33, 34
	12	1	2	12E	13, 14; 21, 22; 31, 32

▼ Normal working condition

1. Ambient temperature: not higher than +40°C, not lower than -5°C; The average value of 24h does not exceed 35°C;
2. Altitude: not exceed 2000m;
3. Relative humidity of the air: not exceed 50% at a maximum temperature of +40°C; Higher relative humidity is allowed at lower temperatures, for example 90% at +20°C, taking into account condensation on the surface of the product due to temperature changes;
4. Pollution class: 3;
5. Installation category: III;
6. Installation method: the inclination between the mounting surface and the vertical plane is not more than ±5°;
7. Impact and vibration: there should be no significant impact and vibration at the installation site.

▼ Main technical parameters

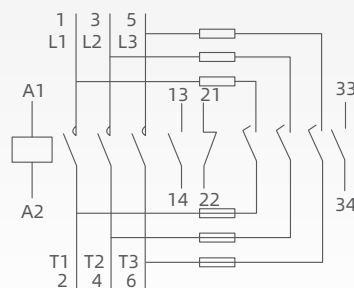
Model		25	32	43	63	80	95
Controllable capacitor capacity (kvar)	220V	6	9	10	15	22	35
	380V	12	16	20	30	40	50
Rated insulation voltage (V)		500					
Rated operating voltage (V)		380					
Conventional heating current (A)		25	36	43	80	80	95
AC-6b Rated operating current (A)		17	23	29	43	58	72
Peak inrush current/rated capacitor current		20I _e					
Control current voltage (V)		36, 110, 127, 220, 380					
Auxiliary contact basic parameters		I _{th} :10A AC-15:360VA DC-13:33W					
Operating frequency (times/hour)		120					
Electrical life (×10 ⁵ times)		1					
Mechanical life (×10 ⁵ times)		10					

▼ Structural feature

The contactor is direct-acting and double-break structure, and the contact system is divided into two layers, the upper layer has a precharged contact and three pairs of current limiting resistance, forming a limiting device, and the under layer is a working contact. When the switch close, the current limiting device switch on first, the working contact switch on after a few milliseconds, the permanent magnet in the precharged contact release under the spring reaction, the current limiting resistance break, the capacitor works normally. The internal connection of contactor as follows;

The contactor terminal is covered by an insulating cover, which is safe and reliable. The coil terminal is marked with voltage to prevent misconnection.

▼ Internal circuit connection



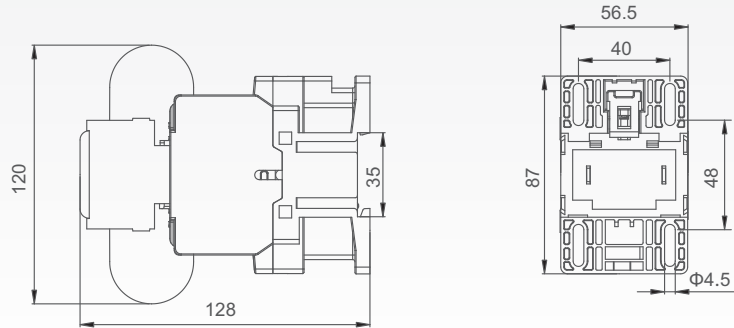
In addition to screw installation, the contactor can also be installed by standard rail. For YCC19v-25, 32, 43 contactors, the rail width is 35mm, for YCC19v-63, 80, 95 contactors, the rail width is 35mm or 75mm.

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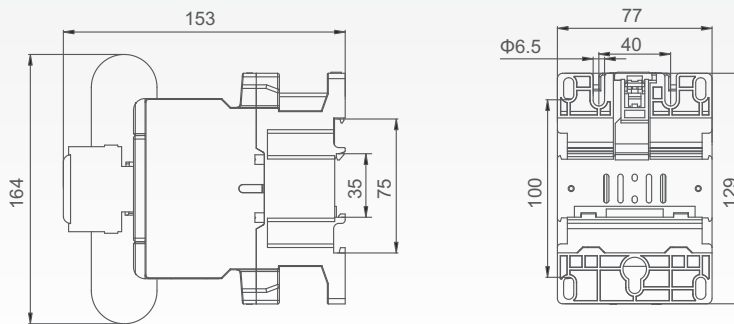
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▼ Overall and mounting dimensions(mm)

YCC19v-25, 32, 43



YCC19v-63



YCC19v-80, 95

