

### 電容器專用接觸器

## CAPACITOR DUTY CONTACTORS

KC 12, KC 16, KC 20, KC 25, KC 33, KC 40, KC 60





When switched on, a capacitor can function as a short-circuit element. The capacitor inrush or charging current magnitude depends on AC voltage at turn-on and on the impedance of connection cables and a power supply transformer.

In case of individual capacitor load, charging current peaks that are 30-time greater than rated capacitor current can occur. In case of a multi-stage capacitor the inrush current can exceed 180-time rated capacitor current.

Such a strong current can flow through a contactor from the beginning when inrush current occurs from power supply network and the capacitor is already connected. Such inrush current is undesirable since main contacts of standard duty contactors are likely to weld.

A new capacitor duty contactor is designed to meet the requirements of capacitor duty applications. Contactors are fitted with a block of three auxiliary contacts connected in series with six quick discharge damping resistors, two per each phase. Peak current is limited to the value within the contactor making capacity.

Three-pole contactors from 10 kVAr to 60 kVAr are available in seven ratings complying with the IEC 60070 and IEC 60830 standards. They have the UL certificate.

#### Advantages

- Conforms to utilization category AC-6b
- Saves costs of expensive replacement
- Long electrical life
- Reduces watt losses during "ON" condition, saves energy
- High safety
- No risk of dangerous voltage
- · Switching of capacitor bank in parallel without de-rating
- Less maintenance and downtime

TECHNICA	L DATA								
Designation of basic versions with control voltage and fixing mode <sup>1</sup>		kVAR ratings at 50/60 Hz 0<55 °C²				Plnstantaneous auxiliary contacts		Max. operating frequency	Electrical life at rated load
Туре		220 V	400 V	500 V	660 V	NO	NC	op. c./h	ор. с.
		240 V	440 V	525	690 V				
KC 12-11		6.7	12.5	14.0	18.0	1	1	240	200,000
KC 16-1	1	8.5	16.7	16.7	24.0	1	1	240	200.000
KC 20-1	H I	10.0	20.0	23.0	30.0	1	1	240	100.000
KC 25-11		15.0	25.0	28.0	36.0	1	1	240	100,000
KC 33-12		20.0	33.0	37.0	48.0	1.	2	240	100.000
KC 40-12		25.0	40.0	44.0	58.0	1	2	100	100.000
KC 60-12		40.0	60.0	66.0	92.0	1	2	100	100.000
Coil consumption									
KC12, KC16	in rush		70 8						
	sealed								
KC20, KC25	in rush	100 VA							
	sealed	VΑ	8.5						
KC33, KC40,	in rush					245			
KC60 sealed			26						

For KC 12 to KC 25: elip-on mounting on 35 mm wide rail For KC 33 – KC 60: elip-on mounting on 75 mm wide rail





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#### MOUNTING AND CONNECTION 安裝及連結

