

# Capacitor Switching Contactors

## Capacitor switching contactors CC

CC Capacitor Contactors are suitable for switching low-inductive and low-loss capacitors in capacitor banks, without and with reactors.

CC Capacitor Contactors are designed to meet Capacitor Duty application. Contactors are fitted with block of three early make auxiliary contacts in series with six quick discharge damping resistors – 2 per phase. These auxiliary contacts limit peak current in first stage of switching. Subsequently the nominal current is transferred through main contacts which are switched in next stage and the auxiliary contacts are switched-off at the same time.

### The main features

- Electrical life
- Reduced watt loss during 'ON' condition, saves energy
- Switching of Capacitor bank in parallel without de-rating



### Technical features

Complete contactor block (contactor + resistors)	Power (kvar)			Rated current (A) at 400 V/50 Hz	Frequency of switching (per hour)	Electrical endurance (operations)	Auxiliary contacts	Dimensions W x D x H (mm) Including damping resistors
	230 V	400 - 440 V	660 - 690 V					
<b>CC 10 N 02</b>	5	10	15	14	240	250 000	2 NC	45 x 100 x 120
<b>CC 12 N 02</b>	6,7	12,5	18	18	240	250 000	2 NC	45 x 100 x 120
<b>CC 15 N 02</b>	8,5	15	22	22	240	250 000	2 NC	45 x 100 x 120
<b>CC 20 N 01</b>	11	20	30	29	120	175 000	1 NC	45 x 100 x 120
<b>CC 25 N 01</b>	14	25	35	36	120	125 000	1 NC	45 x 100 x 133
<b>CC 30 N 01</b>	20	30	40	44	120	125 000	1 NC	45 x 100 x 133
<b>CC 40 N 01</b>	25	40	58	58	100	125 000	1 NC	55 x 120 x 162
<b>CC 50 N 01</b>	29	50	70	72	100	125 000	1 NC	55 x 120 x 162
<b>CC 60 N 01</b>	32	60	80	87	100	125 000	1 NC	55 x 120 x 162
<b>CC 70 N 01</b>	35	70	90	101	100	100 000	1 NC	70 x 142,5 x 180
<b>CC 80 N 01</b>	45	80	115	116	100	100 000	1 NC	70 x 142,5 x 180

## Capacitor switching contactors K3

Contactors K3-..K are suitable for switching low-inductive and low loss capacitors in capacitor banks (IEC 70 and 831, VDE 0560) without and with reactors.

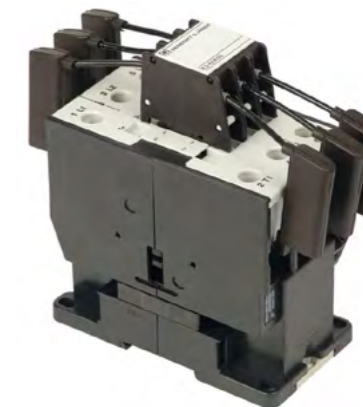
Capacitor switching contactors are fitted with early make contacts and damping resistors, to reduce the value of make current < 70 x Ie.

### Operating conditions

Capacitor switching contactors are protected against contact welding for a prospective making current of 200 x Ie. Fuse rating approx. 1,6 to 2,5 x Ie, type gL (gG).

### Technical Data

Acc. to IEC 947-4-1, IEC 947-5-1, EN 60947-4-1, EN 60947-5-1, VDE 0660



### Technical features

Complete contactor block (contactor + resistors)	Power (kvar)			Rated current (A)	Frequency of switching (per hour)	Electrical endurance (switching)	Auxiliary contacts	Dimensions W x D x H (mm) Including damping resistors
	280 V - 400 V	415 - 440 V	660 - 690 V					
<b>K3-18NK10 230</b>	10	13	20	18	240	250 000	1 NO	45 x 85 x 98
<b>K3-18NK01 230</b>	12,5	13	20	18	240	250 000	1 NC	45 x 85 x 98
<b>K3-24K00 230</b>	20	22	33	28	240	150 000	-	45 x 115 x 119,5
<b>K3-32K00 230</b>	25	27	41	35	240	150 000	-	45 x 115 x 119,5
<b>K3-50K00 230</b>	33,3	36	55	48	120	150 000	-	60 x 145 x 128,5
<b>K3-62K00 230</b>	50	53	82	72	120	150 000	-	60 x 145 x 128,5
<b>K3-74K00 230</b>	75	75	120	105	80	120 000	-	60 x 145 x 128,5
<b>K3-90K00 230</b>	80	82	120	115	80	120 000	-	90 x 155 x 152,5
<b>K3-115K00 230</b>	100	103	148	144	80	120 000	-	90 x 155 x 152,5