

Protective circuit breaker and connection cable selection table for capacitors

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Three-phase 400 V and 440 V capacitor Nominal power (kvar)	Three-phase circuit breaker Rating / thermal setting (A)	Cables minimum cross-section per phase	
		Cu (mm ²)	Al (mm ²)
10	20/20	6	10
20	40/40	10	16
30	63/60	16	25
40	80/80	25	35
50	100/100	35	50
60	125/125	35	50
70	160/140	35	50
80	160/160	50	70
90	200/180	50	70
100	200/200	70	95
125	250/250	70	95
150	400/300	95	120
175	400/350	120	185
200	400/400	150	240
225	630/450	150	240
250	630/500	185	2 x 120
275	630/550	185	2 x 120
300	630/600	2 x 95	2 x 150
325	630/630	2 x 95	2 x 150
350	800/700	2 x 120	2 x 185
375	800/750	2 x 120	2 x 185
400	800/800	2 x 150	2 x 240
450	1000/900	2 x 150	2 x 240
500	1000/1000	2 x 185	4 x 150
550	1250/1100	2 x 185	4 x 150
600	1250/1200	4 x 120	4 x 185
650	1250/1250	4 x 120	4 x 185
700	1600/1400	4 x 150	4 x 240
750	1600/1500	4 x 150	4 x 240
800	1600/1600	4 x 150	4 x 240
850	2000/1700	4 x 150	4 x 240
900	2000/1800	4 x 150	4 x 240
950	2000/1900	4 x 185	4 x 300
1000	2000/2000	4 x 185	4 x 300

Note:

The cable cross-section indicated in this table is the minimum recommended section. It does not take into account additional correcting factors (fitting method, temperature, long distances, etc.). The calculations are for unipolar cables mounted in ambient air at 30°C.

