

# EPCOS AG, GERMANY

EPCOS AG is the legal successor to Siemens Matsushita Components GmbH.

## Components Selection Table for Detuned Capacitor Banks

Grid: V = 400 V\*\*, f = 50 Hz; 440 V Capacitors / 7% detuning

	Effective filter output	Voltage increase on capacitor	Selected Capacitor voltage (min.)	Capacitor output	Calculated capacitance	Reactor inductivity	Capacitor	Reactor	Contactor	Cable* cross section	Fuse*** rating
%	kvar	V	V	kvar	3*µF	mH	ord. code	ord. code	ord. code	mm <sup>2</sup>	A
7	5.00	430	440	5.63	30.85	7.671	B25667-A5966-A375	B44066-D7005-S400	B44066-S1610-J123	4	16
7	6.20	430	440	6.98	38.26	6.186	B25667-A4117-A365	B44066-D7006-S400	B44066-S1610-J123	4	16
7	7.50	430	440	8.44	46.28	5.114	B25667-A4147-A375	B44066-D7007-S400	B44066-S1610-J123	4	20
7	10.00	430	440	11.25	61.70	3.835	B25667-A4187-A375	B44066-D7010-S400	B44066-S1610-J123	6	25
7	12.50	430	440	14.07	77.13	3.068	B25667-A4237-A365	B44066-D7012-S400	B44066-S2310-J123	6	35
7	15.00	430	440	16.88	92.56	2.557	B25667-A4277-A365	B44066-D7015-S400	B44066-S2310-J123	6	35
7	20.00	430	440	22.51	123.41	1.918	B25667-A4207-A375 A4177-A375	B44066-D7020-S400	B44066-S2310-J123	10	50
7	25.00	430	440	28.13	154.26	1.534	B25667-A4467-A365	B44066-D7025-S400	B44066-S3010-J123	16	63
7	30.00	430	440	33.76	185.11	1.278	B25667-A4577-J375	B44066-D7030-S400	B44066-S4510-J123	16	80
7	40.00	430	440	45.01	246.82	0.959	B25667-A4347-A375 A4417-A375	B44066-D7040-S400	B44066-S6010-J123	25	80
7	50.00	430	440	56.27	308.52	0.767	2 x B25667-A4467-A365	B44066-D7050-S400	B44066-S6010-J123	35	125
7	60.00	430	440	67.52	370.22	0.639	2x B25667-A4417-A375 + 1x A4307-A365	B44066-D7060-S400	B44066-N/A	50	160
7	100.00	430	440	112.53	617.04	0.384	B25667-A4467-A365	B44066-D7100-S400	B44066-N/A	70	250

\*) Cable cross section of capacitor bank internal wiring per selected kvar step, e.g. between fuse-contactor-reactor-total capacitor output. Flexible copper wire to be used.

\*\*) No or only minor over voltage (max. 10 % up to 8 hours daily)

\*\*\*) Fuse size of HRC fuses for short circuit protection of each individual step of a capacitor bank.