



SPECIFICATION OF LOW VOLTAGE DETUNED FILTER CAPACITOR BANK

BANK :

Type designation	D100/2x25+50-400-50/189-0618E1
Rated power	Space to add compensation 50 kvar
Steps	100 kvar
Rated frequency	2x25+50 kvar
Tuning frequency	50 Hz
Rated voltage	189 Hz (7 %)
Rated current	400 V
Insulation level of bank	169 A
Cabinet (W x H x D)	3 / - kV
Total mass of bank	600x1800x600 mm
Degree of protection	182 kg
Mounting	IP 20C
Temperature category	indoor
Colour	0 / + 40 °C
Maximum power losses at rated values	RAL 7035
	850 W

STEPS 1-2: 25+25 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz
Rated current (rms)	39.7 / 1.4 / 13.4 / 4.8 I/A
Rated inductance (iron core reactor)	42.2 A
Contact type	2 x 1.533 mH
Step fuses	2 x CL45A300MN
Capacitor unit :	3 x gG 100 A
Type of capacitor unit	SL2D 40+40/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	462.5+462.5 µF
Discharging time 75 V	180 s
Reconnection time	30 s

STEPS 3: 50 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz
Rated current (rms)	79.4 / 2.7 / 26.9 / 9.7 I/A
Rated inductance (iron core reactor)	84.4 A
Contact type	0.767 mH
Step fuses	CL08A300MN
Capacitor unit :	3 x gG 100 A
Type of capacitor unit	SL2D 80/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	925 µF
Discharging time 75 V	180 s
Reconnection time	30 s



Power factor controller:

Type

NC-12

STANDARDS :

SGS FI 26351 certificate
IEC/EN 61439-1&2 (bank)
IEC/EN 60831 1&2 (capacitors)
IEC/EN 60529 (IP-code)

Voltage dimensioning :

Suitable for continuous overvoltage
Harmonic voltages
Capacitor unit nominal voltage

1.1 x Un
U₃= 0,5 %, U₅= 6 %, U₇= 5%
525 V