



SPECIFICATION OF LOW VOLTAGE DETUNED FILTER CAPACITOR BANK

BANK :

Type designation	D50/2x6+12+25-400-50/189-0618E1
Rated power	Space to add compensation 25 kvar
Steps	50 kvar
Rated frequency	2x6+12+25 kvar
Tuning frequency	50 Hz
Rated voltage	189 Hz (7 %)
Rated current	400 V
Insulation level of bank	85 A
Cabinet (W x H x D)	3 / - kV
Total mass of bank	600x1800x600 mm
Degree of protection	162 kg
Mounting	IP 20C
Temperature category	indoor
Colour	0 / + 40 °C
Maximum power losses at rated values	RAL 7035
	700 W

STEPS 1-2: 6+6 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz
	9.9 / 0.3 / 3.4 / 1.2 I/A
Rated current (rms)	10.6 A
Rated inductance (iron core reactor)	2 x 6.132 mH
Contacteur type	2 x CL45A300MN
Step fuses	3 x gG 25 A
<u>Capacitor unit :</u>	
Type of capacitor unit	ML2D 10+10/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	111+111 µF
Discharging time 75 V	180 s
Reconnection time	30 s

STEPS 3-4: 12+25 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz
	19.8 / 0.7 / 6.7 / 2.4 I/A
Rated current (rms)	21.1 A
Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz
	39.7 / 1.4 / 13.4 / 4.8 I/A
Rated current (rms)	42.2 A
Rated inductance (iron core reactor)	3.067 mH
Rated inductance (iron core reactor)	1.533 mH
Contacteur type	2 x CL45A300MN
Step fuses	3 x gG 80 A
<u>Capacitor unit :</u>	
Type of capacitor unit	SL2D 20+40/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	231.3+462.5 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