Grid Solutions **SPECIFICATION**

SPECIFICATION OF LOW VOLTAGE DETUNED FILTER CAPACITOR BANK

BANK :

Type designation	**D50/2x12+25-400-50/189-0618E1**
	Space to add compensation 50 kvar
Rated power	50 kvar
Steps	2x12+25 kvar
Rated frequency	50 Hz
Tuning frequency	189 Hz (7 %)
Rated voltage	400 V
Rated current	85 A
Insulation level of bank	3 / - kV
Cabinet (W x H x D)	600x1800x600 mm
Total mass of bank	153 kg
Degree of protection	IP 20C
Mounting	indoor
Temperature category	0 / + 40 °C
Colour	RAL 7035
Maximum power losses at rated values	600 W

STEPS 1-2: 12+12 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
Rated inductance (iron core reactor)	2 x 3.067 mH
Contactor type	2 x CL45A300MN
Step fuses	3 x gG 50 A
Capacitor unit :	
Type of capacitor unit	FL2D 20+20/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	231.5+231.5 µF
Discharging time 75 V	180 s
Reconnection time	30 s

STEPS 3: 25 kvar/400V:

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)	1.533 mH
Contactor type	CL45A300MN
Step fuses	3 x gG 50 A
Capacitor unit :	
Type of capacitor unit	SL1D 40/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	462.5 µF
Discharging time 75 V	180 s
Reconnection time	30 s

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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	1.1 x Un
Harmonic voltages	U_3= 0,5 %, U_5= 6 %, U_7= 5%
Capacitor unit nominal voltage	525 V