



SPECIFICATION OF LOW VOLTAGE DETUNED FILTER CAPACITOR BANK

BANK :

Type designation	D375/2x37+4x75-400-50/189-1218E
Rated power	375 kvar
Steps	2x37+4x75 kvar
Rated frequency	50 Hz
Tuning frequency	189 Hz (7 %)
Rated voltage	400 V
Rated current	633 A
Insulation level of bank	3 / - kV
Cabinet (W x H x D)	1200x1800x600 mm
Total mass of bank	483 kg
Degree of protection	IP 20C
Mounting	indoor
Temperature category	0 / + 40 °C
Colour	RAL 7035
Maximum power losses at rated values	2900 W

STEPS 1-2: 37.5 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz 59.5 / 2.0 / 20.1 / 7.3 I/A
Rated current (rms)	63.3 A
Rated inductance (iron core reactor)	1.022 mH
Contacteur type	CL08A300MN
Step fuses	3 x gG 80 A
<u>Capacitor unit :</u>	
Type of capacitor unit	SL2D 60/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	693.8 µF
Discharging time 75 V	180 s
Reconnection time	30 s

STEP 3-6: 75 kvar/400V:

Harmonics dimensioning	50 / 150 / 250 / 350 f/Hz 119.1 / 4.1 / 40.3 / 14.4 I/A
Rated current (rms)	126.6 A
Rated inductance (iron core reactor)	0.511 mH
Contacteur type	CK75CA311N
Step fuses	3 x gG 160 A
<u>Capacitor unit :</u>	
Type of capacitor unit	TL2D 120/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	1388 µF
Discharging time 75 V	180 s
Reconnection time	30 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