



**SPECIFICATION OF LOW VOLTAGE CAPACITOR BANK**

**DW-SERIE: DETUNED FILTER CAPACITOR BANK**

**BANK :**

Type designation	<b>DW63/12+25+25-400-50/189-0812</b>
Rated power	63 kvar
Steps	12+25+25 kvar
Rated frequency	50 Hz
Tuning frequency	189 Hz (7 %)
Rated voltage	400 V
Rated current (rms)	106 A
Insulation level of bank	3 / - kV
Cabinet (W x H x D)	750x1150x320 mm
Total mass of bank	105 kg
Degree of protection	IP 20C
Mounting	indoor on the floor or wall
Temperature category	0 / + 40 °C
Colour	RAL 7035
Cooling fan	Ebm-papst W2S 130-BM
Cable entry from top or bottom	

**STEPS 1: 12 kvar/400V**

Harmonic currents (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)	3.067 mH
Contacteur type	CL45A300MN
Step fuses	3 x gG 25 A
<u>Capacitor unit :</u>	
Type of capacitor unit	FL1D 20/525-50 IP00
Rated voltage	525 V
Rated capacitance (Y)	231.2 µF
Discharging time 75 V	180 s
Reconnection time	60 s

**STEPS 2-3: 25 kvar/400V**

Harmonic currents (dimensioning)	50 / 150 / 250 / 350 f/Hz 39.9 / 1.4 / 13.4 / 4.8 I/A
Rated current (rms)	42.2 A
Rated inductance (iron core reactor)	1.533 mH
Contacteur type	CL45A300MN
Step fuses	3 x gG 50 A
<u>Capacitor unit :</u>	
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	60 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  
U<sub>3</sub>= 0,5 %, U<sub>5</sub>= 6 %, U<sub>7</sub>= 5%  
525 V