



SPECIFICATION OF LOW VOLTAGE DETUNED FILTER CAPACITOR BANK

BANK :

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| Type designation | D150/3x50-400-50/189-0618E |
| Rated power | 150 kvar |
| Steps | 3x50 kvar |
| Rated frequency | 50 Hz |
| Tuning frequency | 189 Hz (7 %) |
| Rated voltage | 400 V |
| Rated current | 254 A |
| Insulation level of bank | 3 / - kV |
| Cabinet (W x H x D) | 600x1800x600 mm |
| Total mass of bank | 213 kg |
| Degree of protection | IP 20C |
| Mounting | indoor |
| Temperature category | 0 / + 40 °C |
| Colour | RAL 7035 |
| Maximum power losses at rated values | 1100 W |

STEPS 1-3: 50 kvar/400V:

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|--------------------------------------|--|
| Harmonics dimensioning | 50 / 150 / 250 / 350 f/Hz 79.4 / 2.7 / 26.9 / 9.7 I/A |
| Rated current (rms) | 84.4 A |
| Rated inductance (iron core reactor) | 0.767 mH |
| Contacteur type | CL08A300MN |
| Step fuses | 3 x gG 100 A |
| <u>Capacitor unit :</u> | |
| 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:

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|------|-------|
| 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 :

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|-------------------------------------|---|
| 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 |