Low Voltage automatic detuned capacitor banks and harmonic filters

Compensating for reactive power using Power Survey’s PowerVar LV capacitor banks is one of the easiest ways to quickly improve your individual facilities power factor and maximize your power system’s efficiency. This will eliminate reactive power from the internal power distribution system at a low cost per kvar, and offer savings for any facility. In addition, harmonic mitigating filters can help keep your power network clean, reduce maintenance costs and downtime, and improve stability.

Designed, manufactured and tested by Power Survey, using advanced manufacturing processes and premium materials, PowerVar LV capacitor banks are optimised to provide superior, end-to-end operation and value through every stage of its lifecycle.

Energy Savings Benefits and Process Control
Power factor correction capacitors supply the reactive power (kvar) required by inductive loads. By correcting poor power factor ratings, capacitors reduce kVA demand thus off-loading transformers and switchgear.

The reduced kVA demand results in lower utility bills, cooler equipment operation and longer equipment life.

Our PowerVar LV capacitor banks provide a flexible and effective power factor compensation system in low-voltage networks with variable and dynamic loads. Common application in small, medium and large industrial, commercial and institution users. These low-voltage capacitor banks offer the benefits of a centralized solution at an attractive cost.

The PowerVar LV capacitor banks can be used in many applications such as, Mining, Steel industry, Chemical, Pulp and Paper, Forestry, Cement, Plastics, Printing, HVAC, Power Generation, Food industry, refrigeration or cold storage to name a few.

PowerVar at a glance
- Voltage rating range from 208 V to 600 V
- Capacity available up to 1200 kvar
- Standard design for fast quote and delivery
- Customization to your need as required
- Thermal-protected iron-core reactors prevents network resonance
- Capacitor-switching rated contactor with proven reliability
- Sophisticated power factor controller options
- Backlit display on controller shows current power factor, stage status, load and reactive currents, THD values, alarm conditions and more
- QED switchboard-style section constructed of 12-gauge steel frame covered with removable 16-gauge steel panels
- CSA and UL listed
General Specifications

Voltage range: 208V to 600V at 60Hz
For other voltages, please consult us

Working ambient temperature: -40°C (40°F) to +46°C (115°F)

Connection: Three-phase, balanced network

Enclosure: NEMA 1 standard, 12-gauge steel
Option: NEMA 3R, shipping splits, Special paint, bus duct entry, back to back construction

Capacitors type: Self healing, low loss metallized polypropylene dielectric film. Less than 0.2 Watt per KVAR losses

Color: ANSI 61 light gray dry powder baked enamel (other color and coating on request)

Ventilation: Forced air cooling

Power factor setting: From 0.7 inductive to 0.7 capacitive

Starting current setting (C/k): From 0.01A to 3A

Standards: UL and CSA Listed

Configurations

PA L R 1200 4 . C/O B 01 - K - 0

Option (more than one can be used)
Q: No indicator (Standard)
A: Ammeter and position selector
C: Pilot lights
Q: On/Off Selector Switch (120V/AC)
I: Door Switch (120VAC)
T: Temperature alarm
K: Communication port

Enclosure Size
A: 60kW 20kvar
B: 60kW 35kvar
C: 72kW 46kvar
D: 72kW 63kvar
E: 72kW 90kvar
F: 72kW 100kvar

Enclosure Type
01: Type 1
3R: Type 3R
4: Type 4
4K: Type 4K
12: Type 12

Main protection
B: Main distribution block
F: Protected main switch
Q: Main breaker

Maximum number of future steps
1: 1 step
2: 2 steps
3: 3 steps
4: 4 steps
5: 5 steps
6: 6 steps
7: 7 steps
8: 8 steps
9: 9 steps
A: 10 steps
B: 11 steps
C: 12 steps
D: 13 steps
E: 14 steps
F: 15 steps
G: 16 steps

Your Representative:

PS POWER SURVEY AND EQUIPMENT

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