Intelligent capacitor banks

Series **plus** capacitor banks are a new concept in Power Factor Correction:

- They measure on the three phases and accurately compensate the total reactive energy.
- They compensate reactive energy using individual phase control in real time and in addition to correcting the total reactive to zero; they also achieve a balance of active power between phases.
- Plug and Play, start up at the touch of a key.

**plus** is more a wide range of new features

**Installation demand: 1330 kvar // Capacitor bank input: 1200 kvar**

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Safety

Series plus capacitor banks are the safest on the market:
- 4 levels of protection on their capacitors, which ensure continuous service
- Harmonic protection, with anti-resonance system
- Individual step leakage current protection
- Overheating protection
- Individual step fuse protection

Measures individual step leakage current in real time. Only damaged capacitors are disconnected.

Three-phase measurements, ensuring total compensation of the consumed reactive energy.
Supervision

Series plus system carries out a complete check on the status of the network and a self-check on the status of the capacitor bank, managing, among other things, the lack of compensation, loss of capacity, leakage, etc.

The TEST function enables preventive maintenance of each capacitor step as well as the display of their capacitance. Totally configurable alarms permit the supervision and management of all the electrical parameters of the installation.

Communications

Series plus capacitor banks are fitted with RS-485 communication to display a large amount of information available.

The communication system enables the remote control, supervision and preventive maintenance both of the capacitor bank and the network.

- RS-485 communications (Modbus protocol)
- SCADA software allows the display on a PC of several parameters and alarms (cos φ, leakage levels, general status of the capacitor bank, etc.) of the electric parameters of the network.
Series plus capacitor banks include a three-phase network analyzer, enabling instantaneous display of all the network electrical parameters (voltage, current, active power, reactive power, energies, harmonics, etc.).
Now standard range is **max**

STD capacitor banks new range with **max** power factor correction system

**New features of computer max**

The new range of STD capacitor bank with **max** compensation system retains de combination of high technology and robust offering **max**imum performance at the best price.

Installation and programming feature selection phase, eliminating the difficulty of installing the transformer in a specific phase.

**Built-in alarms displays:**
- Compensation failure
- Over-compensation
- Over-current
- C.T. not connected or open
- Line current below measurable value

**Accuracy at your reach**

**Network analyzer**

**computer max** shows by display: cos φ, voltage, current, THD(I) and, besides, records in memory maximum values for voltage and current.

- Voltage measurement
- Current measurement
- THDI measurement
- Current maximum value
- Voltage maximum value

**computer max** allows viewing in display the variation of cos j, line current and THD(I), when manually connecting or disconnecting capacitor steps.

FCP system characteristic from **CIRCUTOR**.
A stock of more than 300 capacitor banks at your full disposal

Avoid reactive energy penalties immediately

CIRCUTOR has a stock of more than 300 capacitor banks available for immediate delivery.

- More than 300 units for immediate delivery
- The most extensive and competitive range on the market
- Optimized, robust and easy to install
- User-friendly and intuitive programming systems
- Custom adaptability

The quality at the best price
35 years leading relative energy compensation