

Power distribution

Application: all commercial buildings

Correct your installation's power factor and reduce energy costs

“ I plan to upgrade my electrical installation to meet the new standards. I want to take advantage of the opportunity to reduce my electricity bills and boost the available power without switching to a new utility contract. ”

Regulate power factor automatically by using a **Varset reactive energy compensator**

The solution automatically regulates power factor correction according to load fluctuations. The resulting power factor, close to 1, frees up additional available power, allowing you to add on to your installation. The system is built around a Varlogic power factor controller, which is also available in a Modbus-based communicating version.

Example:

With a utility contract for 250 kVA with an average power factor of 0.7, penalties are charged for consumption over 175 kW ($175 \div 0.7 = 250$ kVA).

The Varset system includes a bank of 200 kvar capacitors, which are automatically switched on or off depending on the power factor detected. A current detector measures consumption.

The system guarantees a power factor greater than 0.92, regardless of load, raising the actual consumption limit to 230 kW ($250 \times 0.92 = 230$ kW), or 55kW of available energy.

Benefits

For the user

> **Save up to 10%** on your electricity bills, with ROI within two years (actual savings vary depending on local utility penalties)

> **Increase your installation's available power by up to 30%**

> **Eliminate excessive consumption of reactive energy**

> **Reduce your carbon footprint**

> **Boost your installation's reliability and lifespan by filtering harmonics with the Varset Harmony range**

For professionals

+ Easy to install

+ 100% factory tested capacitor bank

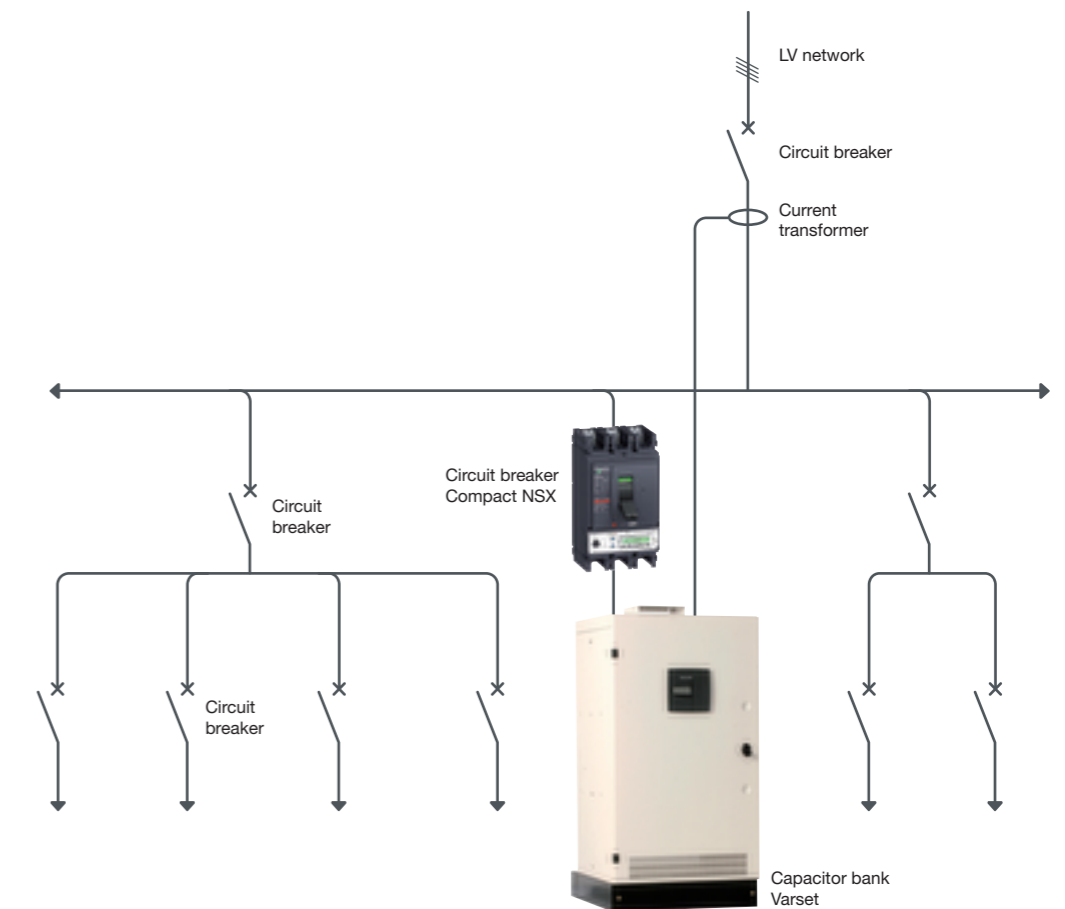
+ Lifespan of around 15 years

+ Optional harmonics filtering

+ SISvar software for easy equipment selection and configuration

+ Communicating Modbus version available for remote data transmission

- Measure Reduce energy consumption Reduce energy costs



Varset

- Network voltage: 230 V to 690 V - 50/60 Hz
- Reactive power: 7.5 kvar to 1200 kvar
- Harmony range: 2.7 (135 Hz), 3.8 (190 Hz), 4.3 (215 Hz)
- Standards: IEC 60439-1, IEC 61921, EN 60439-1
- Automatically regulated forced ventilation
- With or without incoming circuit breaker



Power factor correction via Varlogic controllers

Controls reactive power to obtain the target power factor. Provides installation data and analysis. Monitors and provides data on compensation equipment status.

- Easy to use
- Easy to set up; self-configuration available
- Intuitive user interface
- Direct, real-time display of main measurement
- Optional communicating version available (Modbus)



Solution