

Optimisation of reactive power compensation
and system service life
Audit and maintenance



Why compensate reactive power?

Your reactive power compensation system enables you to make significant savings on your electricity supply contract while protecting the service life of your equipment. Increasing its reliability and ensuring its service life are therefore essential factors for your business.



SITE 1002 A

Generate significant cost savings

Reactive power compensation meets the following objectives:

- **avoid paying** penalties to the utility company,
- **reduce** your energy contract.

Protect the service life of the equipment

Two essential functions for an efficient electricity network: **compensation** and **filtering**.

You will be able to:

- cancel your reactive power bill,
- have high quality energy,
- ensure the service life of your equipment.

Maximise efficiency

With a reactive power compensation system, your network **consumes less electricity** while maintaining the same output power.

Increase energy performance

Reactive power compensation is an **ecologically efficient solution**: improving the power factor by 3% on a European level is equivalent to saving 48 TWh each year, which is the equivalent of the production of four nuclear power plants!

Socomec's solution

COSYS PFC is a reactive power compensation system. With its unique features - segmented film, solder-free mechanical connectors, self-healing film, automatic overpressure disconnection - COSYS PFC provides four times the safety for its users.



GAMME 238 B

Sizing to ensure a well-adapted solution

Reactive power has negative effects on electrical networks. Many factors must be taken into account to effectively compensate for it.

Our expertise:

- Audit: identification of loads, analysis of effects on the network.
- Sizing: precise definition of the reactive power to be compensated.
- Installation recommendations: choice and location of equipment.

Key points

- Consideration of the equipment operating environment.
- Sizing of the appropriate compensation system for your installation.
- Commissioning of the new required equipment.

Advantages

- Improves the power factor of the installation.
- Avoids penalties imposed by electricity companies for excessive consumption of reactive power.
- Improves the efficiency of your installation.
- Increases power supply availability.

Your Expert Services

Enabling available, safe and efficient energy

- 400 experts on site.
- More than 150 service and administrative salespeople.
- 27 subsidiaries worldwide.
- 10 branch offices in France.
- Coverage of 80 countries.

Expert maintenance to ensure durability

Your electrical installation will evolve. Changes in the operating environment and ageing equipment are factors that affect the power consumed. It is therefore essential to regularly check your systems to ensure their service life.

The five steps to effective maintenance:

1. preparation of the operation,
2. analysis of the operating environment,
3. operation on the Power Factor correction banks,
4. checking the sizing of the PFC banks,
5. drafting and providing a full report.

Description of services	Silver	Platinum
1 annual preventive maintenance visit	•	•
Access to the hotline during the day	•	•
Thermographic control	•	•
On-site response time within 24 business hours	•	•
Parts and labour (including travel, excluding consumables)	-	•
Replacement of consumables if defective* (fans, dust filter if applicable)	-	o
Additional PMV	o	o
Preventive maintenance visit at night, at weekends, on public holidays	o	o
Replacement of contactors after every 80,000 operations**	-	•
Complete annual cleaning of the unit**	-	•
Annual check of the battery sizing**	-	•

•: included. o: optional.

* Excluding replacement of chokes and capacitors.

** Subject to signature / renewal of the contract over a continuous period of 3 years.

Socomec: our innovations supporting your energy performance

1 independent manufacturer

3,200 employees
worldwide

10 % of sales revenue
dedicated to R&D

400 experts
dedicated to service provision

Your power management expert



POWER
SWITCHING



POWER
MONITORING



POWER
CONVERSION



EXPERT
SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

12 production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)

27 subsidiaries

- Australia • Belgium • China • France
- Germany • India • Italy • Netherlands
- Poland • Romania • Singapore
- Slovenia • Spain • Switzerland • Thailand
- Tunisia • Turkey • UK • USA

80 countries

where our brand is distributed

HEAD OFFICE

SOCOMEK GROUP

SAS SOCOMEK capital 10633100 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse
F-67235 Benfeld Cedex
Tel. +33 3 88 57 41 41 - Fax +33 3 88 57 78 78
info.scp.isd@socomec.com

YOUR DISTRIBUTOR / PARTNER

www.socomec.com



ENERGY
SPECIALIST
SINCE 1922

socomec
Innovative Power Solutions