Компенсаторы реактивной мощности Socomec Cosys - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/kompensatoryi-reaktivnoj-moshhnosti/avtomaticheskaya-ustanovka-socomec-cosys-pfc.html

COSYS® PFC

Power Factor Correction system

socomec
Innovative Power Solutions SCP

Saving energy, and even more!

The main benefit of power factor correction is, of course, the reduction in your electrical usage costs. But the new generation of systems, driven by SOCOMEC's expertise, enables you to meet other key objectives…

Making significant savings

'Do you want to reduce your energy bill? Do you want to **avoid the extra costs** associated with your consumption of reactive energy? Power factor correction meets these requirements.

SITE 603 A

Reducing the consumption of reactive energy means quick and long-lasting reductions in electrical energy tariffs. It is becoming increasingly urgent to act protecting the environment is everyone's business today! The regulations concerning the power factor could become tougher!

Preserving the service life of your equipment

When accompanied by harmonic filtering, power factor correction contributes to **improving the quality of the energy** available on your network. This is great for your sensitive equipment and for the overall output of your installation.

Maximising installation profitability

With a power factor correction system, your network will consume less energy whilst maintaining the same output power. **Reduced demand** means less maintenance.

Increasing energy performance

Power factor correction is a **cost-effective solution**: improving the cos phi by 3% across Europe is the same as saving 48 TWh each year and therefore equivalent to the production of four nuclear power stations!

Do you want to have a better understanding of power factor correction?

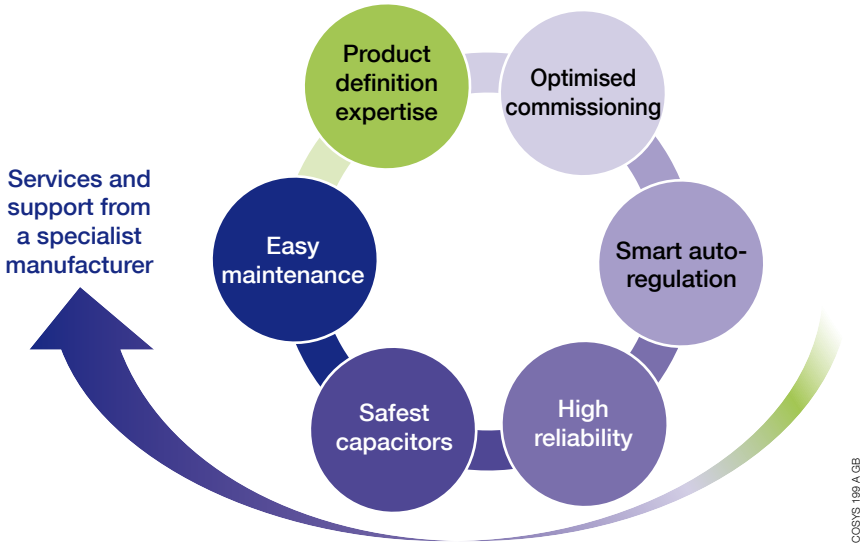
To find out more, download our technical manual 'U = RI' and read the chapter entitled 'Power factor correction'.

http://www.socomec.com documentation-downloading_en.html

COSYS® PFC

Power factor correction system

Many advantages and support from a specialist manufacturer throughout the entire life cycle of your equipment…



Dual action

Correction but also **neutralisation**: the COSYS PFC system ensures two essential functions for an efficient electrical network. You can cancel your reactive energy bill, have quality energy available at all times and extend the service life of your equipment.

Advantages

Increased reliability, intelligent control, triple safety, optimised commissioning, simplified maintenance…
The COSYS PFC system has **all you could possibly ask for**!
And we will provide all necessary technical support throughout the life cycle according to your needs.

Guaranteed success

The effectiveness of a power factor correction solution relies, above all, on appropriate electrical equipment sizing. We will give you the means to "get off on the right foot" and to get a rapid **return on investment**.

SOCOMEC, your best asset

SOCOMEC is an industrial group specialising in the **availability**, **control** and **safety** of low voltage electrical energy which meets the requirements of the industry and service sectors.

As a recognised expert in energy efficiency, SOCOMEC is the **only contact** you need, offering everything from technical analysis to implementation of a solution perfectly adapted to your needs.

As a long-time player in power factor correction, SOCOMEC is here to provide the **technical support** you as you **reduce** your consumption and improve the **quality** of your energy.

ENERGY SPECIALIST SINCE 1922

ENERGY EFFICIENCY

COSYS® PFC

New generation, new performance!

A wide range of innovations dedicated to optimal reliability and exceptional operating safety…
Discover all the advantages of the new generation of power factor correction solutions!

And with our range of services, you have all the means available to meet your objectives in terms of compensation and neutralisation of harmonics.

A complete range as standard: in an enclosure or cabinet, with or without harmonic filtering, with or without a disconnect switch… And always customised to your specific demands.

SOCOMEC also offers you complementary equipment: current transformers, active filtering, etc.

Improved reliability

COSYS PFC systems integrate the latest **cutting-edge** characteristics:

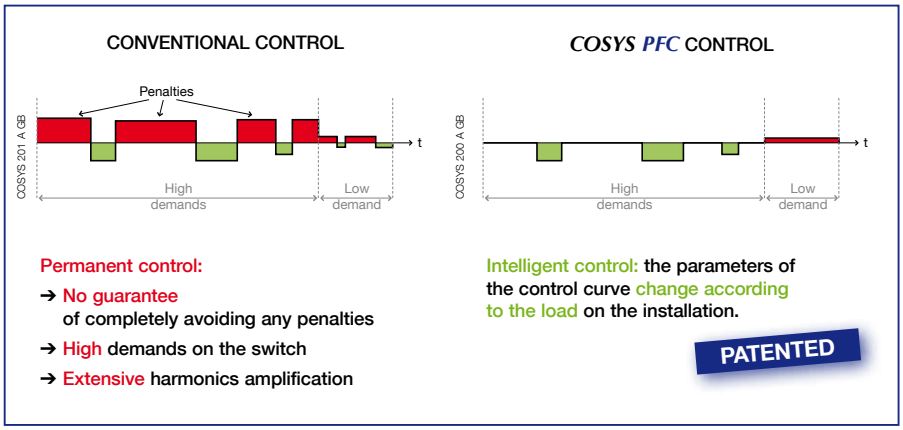
- They use **reinforced capacitors** which can withstand current overloads (up to 2 I_n) greater than those stipulated by the standard.
- These capacitors **permanently** maintain a temperature of **+60 °C** where class C and D models are limited respectively to 45 °C and 55 °C (and over a maximum of 24 hours).
- They are equipped with **spring terminals** which prevent them from becoming loose, and the resultant faults and potential destruction of the capacitor by electric arcing.
- Intelligent control (described on the next page) which as a consequence **prolongs the switch's service life**.
- COSYS PFC modules with harmonic filtering **reduce the current which circulates through the battery, thereby enabling the battery to be preserved for longer.**
- The batteries are subjected to **more rigorous tests** than those required by the standard.

Intelligent regulation

Where numerous existing solutions call for conventional regulation, the COSYS PFC system allows you to benefit from a patented regulation curve.

The advantages:

- You are guaranteed not to pay any penalties.
- The battery lasts for longer, as the switch is used less.
- Other installation equipment is preserved thanks to a reduction in the harmonics levels.



Advantages of the COSYS PFC patented intelligent control.

Triple safety

Your COSYS PFC is equipped with the safest capacitors on the market.

These capacitors use a **segmented film**; any possible fault on a segment automatically results in this segment being disconnected from the rest of the film.

Manufactured by polypropylene plating, this film has additional **self-healing properties**: any damage will create a short circuit which will repair the electrical insulation by vaporising the metal layer.

Furthermore, a device automatically ensures that the capacitor is **disconnected** in the event of a significant overload; this makes it possible to avoid the risk of explosion related to a rise in internal pressure.

Optimised commissioning

The connection is a 'plug & play' type: COSYS PFC automatically detects the direction of rotation of the phases and resolves any wiring errors. Furthermore, it automatically configures itself according to the network parameters it has detected. **COSYS PFC operates as soon as it is switched on.**

Our 'Services and Technical Assistance' team can verify the commissioning or even set specific parameters.

APPLI 492 A

Simplified maintenance

COSYS PFC is equipped with a pre-maintenance diagnostic function: simply check the regulator to find out the status of the capacitors.

In the event of an installation upgrade, our 'Services and Technical Assistance' teams can arrange a visit with a view to taking preventive measures in order to avoid remedial interventions where possible.

COSYS PFC is designed to enable you to carry out your work throughout every step in its life cycle.

How can **you get the best** out of your *COSYS PFC* system?

Appropriate sizing is essential in order to meet the required efficiency. SOCOMEC will help you to make the right choices and therefore to benefit from a long-term solution.

- **Have you already taken all the necessary mesurements** in terms of sizing your compensation system and reducing harmonic distortion? Using these data, we can offer you the most adapted COSYS PFC solutions.

If you do not have these data or are unsure of their reliability, there are two solutions available:

- **We will give you measuring equipment** then use the data collected to offer you a battery and filters based on your requirements.
- **For guaranteed data, our 'Services and Technical Assistance' teams will perform the analysis beforehand:** on-site visit, implementation of mesurements, data analysis and personalised report. With such elements in hand, we can provide the right COSYS PFC solution most suited to your instalaltion.

Customised support

At the end of the consultancy stage, the Services & Technical Assistance department can provide personalised support including commissioning checks, maintenance and equipment upgrades.

SITE 604 A

To find out more:
www.socomec.fr/compensation-energie-reactive_fr.html

Additional devices

VERTELIS: your other energy efficiency lever

Do you want to reduce your energy costs?

Do you want to convey your eco-responsible approach?

Do you want to improve the energy efficiency of your installation?

Do you want to increase the value of your property?

The Vertelis solution is the perfect answer to the concerns of owners, managers, users or occupants of buildings: using this system let you quickly identify areas in which savings can be made in order to obtain a reduction of up to **30 %** on your energy bill!

Easy to implement, VERTELIS is the most advanced solution for optimising the energy performance of industrial and service sector installations, **from the sensor to the web portal**.

To place an order

Please find below a selection of the main references for COSYS PFC.

Versions

All COSYS PFCs can be equipped with a disconnect switch.

version with disconnect switch

Accessories

SOCOMEC can offer you a wide range of current transformers, which are essential accessories for connecting your COSYS PFC to the network.

To access the entire range, please consult our on-line catalogue: www.socomec.fr/compensation-energie-reactive_fr.html

Additional devices

DIRIS N: Network quality control and analysis system for your energy efficiency projects.

COSYS PFC 41 Automatic compensation system

Power (kvar) at 400 VAC	Reference **without** disconnect switch	Dimensions (h x w x d) (mm)	Reference **with** disconnect switch	Dimensions (h x w x d) (mm)
17.5	5977 **2018**	500 x 500 x 300	5977 **1018**	500 x 500 x 300
30	5977 **2030**		5977 **1030**	
50	5977 **2050**		5977 **1050**	
75	5977 **2075**	811 x 600 x 286	5977 **1075**	811 x 600 x 286
100	5977 **2100**		5977 **1100**	1211 x 600 x 311
125	5977 **2125**	1211 x 600 x 311	5977 **1125**	
150	5977 **2150**		5977 **1150**	
175	5977 **2175**		5977 **3175**	2000 x 600 x 400
200	5977 **2200**		5977 **3200**	
250	5977 **4250**	2000 x 600 x 400	5977 **3250**	
300	5977 **4300**		5977 **3300**	
350	5977 **4350**		5977 **3350**	2000 x 600 x 600
400	5977 **4400**		5977 **3400**	
450	5977 **4450**	2000 x 600 x 600	5977 **3450**	2000 x 1200 x 600
500	5977 **4500**		5977 **3500**	
550	5977 **4550**	2000 x 1200 x 600	5977 **3550**	
600	5977 **4600**		5977 **3600**	
650	5977 **4650**		5977 **3650**	
700	5977 **4700**		5977 **3700**	
750	5977 **4750**		5977 **3750**	
800	5977 **4800**		5977 **3800**	
850	5977 **4850**		contact us	
900	5977 **4900**		contact us	

COSYS PFC 42 Automatic compensation system with harmonics distortion reduction

Power (kvar) at 400 VAC	Reference **without** disconnect switch	Dimensions (h x w x d) (mm)	Reference **with** disconnect switch	Dimensions (h x w x d) (mm)
17.5	5978 **2018**	1211 x 600 x 311	5978 **1018**	1211 x 600 x 311
30	5978 **2030**		5978 **1030**	
50	5978 **2050**		5978 **1050**	
75	5978 **2075**		5978 **1075**	
100	5978 **2100**		5978 **1100**	
125	5978 **4125**	2000 x 800 x 400	5978 **3125**	2000 x 800 x 400
150	5978 **4150**		5978 **3150**	
175	5978 **4175**		5978 **3175**	
200	5978 **4200**		5978 **3200**	
250	5978 **4250**		5978 **3250**	
300	5978 **4300**		5978 **3300**	
350	5978 **4350**		5978 **3350**	2000 x 800 x 600
400	5978 **4400**		5978 **3400**	
450	5978 **4450**	2000 x 800 x 600	5978 **3450**	2000 x 1600 x 600
500	5978 **4500**		5978 **3500**	
550	5978 **4550**	2000 x 1600 x 600	5978 **3550**	
600	5978 **4600**		5978 **3600**	
650	5978 **4650**		5978 **3650**	
700	5978 **4700**		5978 **3700**	
750	5978 **4750**		5978 **3750**	
800	5978 **4800**		5978 **3800**	
850	5978 **4850**		contact us	
900	5978 **4900**		contact us	

The COSYS PFC range also includes:

- COSYS PFC 43 and 44 **automatic compensation systems** with specific harmonic distortion reduction*;
- COSYS PFC 2x* **fixed compensation systems**: batteries designed to offset a fixed reactive energy value (10 to 60 kvar);
- COSYS PFC 6x * **dynamic automatic compensation systems** for applications which require very short switching times (please contact us);
- **active filtering systems** which work in addition to your compensation system when your installation has considerable harmonic distortion (please contact us).

* *Key: x1 = without neutralisation; x2 = with neutralisation level 3.78; x3 = with neutralisation level 2.7: x4 = with neutralisation level 4.2.*

Socomec **worldwide**

IN EUROPE

BELGIUM
SOCOMEC BELGIUM
B - 1190 Brussel
Tel. +32 (0)2 340 02 30 - Fax +32 (0)2 346 28 99
info.scp.be@socomec.com

FRANCE
SOCOMEC
F - 94132 Fontenay-sous-Bois Cedex
Tel. +33 (0)1 45 14 63 30 - Fax +33 (0)1 45 14 63 38
info.scp.fr@socomec.com

GERMANY
SOCOMEC GmbH
D - 76275 Ettlingen
Tel. +49 (0)7243 65 29 2 0 - Fax +49 (0)7243 65 29 2 13
info.scp.de@socomec.com

ITALY
SOCOMEC Elettrotecnica s.r.l.
I - 20098 San Giuliano Milanese (MI)
Tel. +39 02 9849821 - Fax +39 02 98243310
info.scp.it@socomec.com

SPAIN
SOCOMEC ELECTRO, S.L.
E - 08310 Argentona (Barcelona)
Tel. +34 93 741 60 67 - Fax. +34 93 757 49 52
info.scp.es@socomec.com

THE NETHERLANDS
SOCOMEC B.V.
NL - 3991 CD Houten
Tel. +31 (0)30 760 0901- Fax +31 (0)30 637 2166
info.scp.nl@socomec.com

THE UNITED KINGDOM
SOCOMEC Ltd
Hitchin Hertfordshire SG4 0TY
Tel. +44 (0)1462 440033 - Fax +44 (0)1462 431143
info.scp.uk@socomec.com

IN ASIA

NORTH EAST ASIA
SOCOMEC CHINA Co. Ltd
P.R.C 200052 Shanghai - China
Tel. +86 (0)21 5298 9555 - Fax +86 (0)21 6228 3468
info.scp.cn@socomec.com

SOUTH EAST ASIA & PACIFIC
SOCOMEC SWITCHING AND PROTECTION
UBI TECHPARK - 408569 Singapore
Tel. +65 65 07 94 90 - Fax +65 65 47 86 93
info.scp.sg@socomec.com

SOUTH ASIA
SOCOMEC INDIA
122001 Gurgaon, Haryana - India
Tel. +91 124 4562 700 - Fax +91 124 4562 738
info.scp.in@socomec.com

IN MIDDLE EAST

UNITED ARAB EMIRATES
SOCOMEC Middle East
Dubai, U.A.E.
Tel. +971 (0) 4 29 98 441 - Fax +971 (0)4 29 98 449
info.scp.ae@socomec.com

IN NORTH AMERICA

USA, CANADA & MEXICO
SOCOMEC Inc
Cambridge, MA 02142 USA
Tel. +1 617 245 0447 - Fax +1 617 245 0437
info.scp.us@socomec.com

HEAD OFFICE

SOCOMEC GROUP
S.A. SOCOMEC capital 11 149 200 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse
F-67235 Benfeld Cedex - FRANCE

www.socomec.com

INTERNATIONAL SALES DEPARTMENT

SOCOMEC
1, rue de Westhouse - B.P. 60010
F - 67235 Benfeld Cedex - FRANCE
Tel. +33 (0)3 88 57 41 41 - Fax +33 (0)3 88 74 08 00
info.scp.isd@socomec.com

Ref. DOC 1700131 - 02/12 - Photo: Martin Bernhart - Created by: PIANO FORTE - Gyss Imprimeur Obernai - To help protect the environment, this document has been printed on PEFC paper (Programme for the Endorsement of Forest Certification)

Non contractual document. © 2012, Socomec SA. All rights reserved.

SITES EN FRANCE

socomec
Innovative Power Solutions SCP