

PRESS RELEASE

EM offers key products for power-factor correction to cut energy costs

16 May 2019: Power-factor correction is a mechanism to reduce operating costs associated with electricity consumption. Some of the key advantages here are reduced kVA charges, improved plant efficiency and network voltage, and reduced overloading of cables, switchgear, and transformers.

The power factor is simply the ratio of actual power (known as active power) used in a circuit, expressed in kW, to the mains power drawn, expressed in kVA, ElectroMechanica (EM) Product Manager **Artur Socha** explains.

Large industrial, commercial, or retail operations can have maximum demand charges applied to their electricity bill. Improved power factor relates to immediate savings on the demand charges. Even sites that have switched to renewable energy sources such as solar still need to take power factor into account.

To determine the estimated savings that can be realised by installing a Power Factor Correction system, Socha reveals that EM recently launched a Power Factor Correction calculator to allow customers to determine savings if they are being penalised on their electricity bills with a maximum demand charge.

EM is capable of assembling complete power-factor systems, with the option of thyristor (fast switching) or traditional contactor switching, or a hybrid of both.

Combined with active harmonic filters, also available from EM, it provides complete solutions for all aspects related to its customers' power factor and power quality requirements. In addition, EM has a number of accredited partners to ensure customer service and technical back-up support is always on hand.

Two main products from EM play a key role in power-factor correction, namely the Lovato DCRG power-factor correction controllers and Electronicon three-phase cylindrical capacitors.

Features include expansion slots for additional steps or communication modules, the capability to operate with several units interconnected in master-slave mode, a quick current transformer (CT) programming function, and automatic identification of the direction of the CT current flow. The DCRG8 reacts to load conditions continuously.

The EM Power Factor Correction calculator is available at <http://www.em.co.za/site/pfc/pfc.html>.

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Notes to the Editor

To download hi-res images for this release, please visit <http://media.ngage.co.za> and click the ElectroMechanica link to view the company's press office.

About ElectroMechanica

ElectroMechanica was established in 1984 by David van den Berg as a specialised direct importer and wholesale distributor of high-end industrial electrical products, motor control switchgear and electronic automation products. A wholly-owned South African company, ElectroMechanica offers its clients state-of-the-art products, sourced from leading local and international brands, all complying with recognised international safety standards and performance specifications.

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