

WEG sustainable automation solutions mean more energy efficient production in less time and at lower cost for the user

WEG is exhibiting new motor and drive products at SPS/IPC/Drives 2011 that deploy intelligence and technology to provide sustainable solutions in any industry sector. These solutions achieve the highest levels of energy efficiency, at the same time delivering more production in less time, and at a lower cost for the user.

Also new is the CFW701 drive range, visitors will be able to see these on display on the WEG Germany stand in hall 3. The inverters are designed to provide optimum variable-speed drive solutions for three-phase induction motors in the HVAC market, but without a price premium.

Delivering high accuracy and reliability in both speed and torque control, the CFW701 features simple start-up, multi-speed, self-adjustment, PID control, overload and over-temperature protection as standard. The new drives combine energy saving and accurate speed control with ease of use; commissioning is based on the "Plug and Play" principle, with auto-configuration routines used when connected, making the whole process both quicker and simpler.

Continuing WEG's accent on energy efficient solutions at SPS 2011 are the WQuattro range of IE4 super-premium efficiency motors and WMagnet PM motors.

The WQuattro range employs a hybrid design to achieve the highest efficiency in the market, exceeding the requirements of the impending IE4 Super Premium Efficiency classification across its entire output range. It is an environmentally- friendly range of motors that is also technically highly advanced - with no energy (joule) losses from its rotor. For the user, this means a lower total cost of ownership, a reduction in CO2 emissions, and a faster return on investment.

The WMagnet (permanent magnet) series meets all the demands of modern manufacturing in terms of size and weight reduction and energy efficiency. It reduces size by up to 50%, weight by up to 36%, and delivers higher efficiencies (up to 97.5%) compared to equivalent size induction motors. In addition, the W Magnet motors are generally at least one frame size or core length smaller than the equivalent induction motor, and in some cases can be two frame sizes smaller.

Delivering the highest levels of energy efficiency in hazardous areas is WEG's new W22X range of high efficiency motors. ATEX/IECEx certified, the W22X motors are designed to cope with the rigours of aggressive and explosive atmospheres, while delivering the added benefits of high efficiency, (IE2/IE3 energy efficiency rating), minimised noise, vibration, and low operating temperature for increased reliability and safety.

Available for low, medium or high voltage supplies, and with either Ex d or Ex d(e) flameproof protection, the W22X product range covers 2, 4, 6, and 8- pole motors in sizes up to 500 frame, across the power range from 160kW to 1500kW. The first units released in the motor series are frame sizes 500KH: 4-pole, 6kV motors with power ratings up to 1500kW.

WEG is also demonstrating its energy saving Blackberry App, and new online payback calculator for electric motors at SPS 2011. Easily downloadable, (<http://www.weg.net/us>), the Blackberry App provides motor users with a powerful, mobile tool to calculate energy savings, return on investment and reductions in CO2 emissions - and with the means to create reports across all electric motors in their organisations.

WEG's new online payback calculator for electric motors is also easily downloadable (<http://www.weg.net/green/uk/save-money.html>), for use on desktops or portable PCs. The calculator enables pump and fan users to quickly determine energy savings, payback times and reductions in CO2 emissions, when evaluating new projects, or the replacement of existing motors with higher efficiency types.

