

SPS IPC Drives 2013 (Hall 7, Stand 380)

New FR-A800 series of frequency inverters provides maximum drive performance for plant and machinery

Nuremberg/Ratingen, 26 November 2013

One of the highlights on the Mitsubishi Electric stand at this year's SPS IPC Drives will be the new-generation FR-A800 inverters. The ultramodern drive has been specially designed for use in classic plant and machinery and with its maximum output and performance, increased efficiency and productivity are guaranteed. At the same time, the latest in-house technology concepts will enable the optimisation of plant efficiency and energy balance. FR-A800 inverters are particularly user-friendly and offer numerous network connections. The FR-A800 series is the result of the further development of the successful FR-A700 series. It complies with international regulations and standards and is equipped with the very latest safety functions.

With the FR-A800 series of inverters, Mitsubishi Electric introduces its very latest drive technology with an output range extending from 750 watts up to a maximum of 1 megawatt. They provide for the operation of both standard asynchronous motors and IPM/SPM motor technology. USB host and USB device functions guarantee user-friendly programming and parameterisation as well as data logging functionality. It is also fully integrated in Mitsubishi Electric's iQ Works programming environment. The built-in operation panel and multitext display allows the

easy and intuitive operation of the components.

Real sensorless vector control enables maximum speed and torque quality up to a maximum frequency of 400 Hz to be achieved. An overload capability of 250 per cent during the start-up phase will ensure reliable start-up, especially under difficult operating conditions. Minimum terminal scan times of less than three milliseconds will guarantee the fastest possible response. At the same time speed rise times of less than 80 milliseconds will help to ensure maximum performance and improved productivity.

Four overload scenarios offer optimised plant planning while three additional slots expand the range of possible applications. Functional safety up to PLe/SIL3 guarantees operation in situations ranging from simple emergency stops to complex press actuation. The new series of inverters offers a total of eleven network options including CC-Link, SSCNET, Profibus-DP, Profinet, Ethernet/IP, EtherCAT, LONworks and Modbus RTU, enabling them to be used worldwide. Full backward compatibility with the FR-A700 series guarantees that components can be replaced easily and safely.

“Like all Mitsubishi Electric inverters, the FR-A800 series comes with numerous protective, safety and overload functions, high-quality temperature-resistant capacitors, continuously lubricated encapsulated cooling fans and double-coated control and circuit boards. Integrated maintenance timers indicate component fatigue. All these features increase the equipment availability by providing predictive and condition-based maintenance functionalities”, explains Oliver Endres, European Product Manager Energy / LVS / Inverter of Mitsubishi Electric’s Factory Automation-European Business Group.

At the Nagoya Works in Japan, around 5000 employees ensure the

quality and reliability of Mitsubishi Electric inverters for the use in a wide range of industries. More than 4000 test and inspection procedures are carried out, enabling the company to secure maximum quality and reliability. More than 18,000,000 Mitsubishi Electric inverters have already been sold worldwide.

Introduction of the FR-A800 series is planned for spring 2014.

SPS IPC Drives will be held from 26 to 28 November in Nuremberg. Mitsubishi Electric will be on stand 380 in hall 7.

Photo Caption



Picture 1: Mitsubishi Electric's new generation FR-A800 of inverter is specially designed for use in classic plant and machinery and with its maximum output and performance, increased efficiency and productivity are guaranteed.

About Mitsubishi Electric:

With over 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, water and waste water, transportation and building equipment.

With around 121.000 employees the company recorded consolidated group sales of 29,5 billion Euro* in the fiscal year ended March 31, 2013. Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe B.V., Factory Automation European Business Group (FA-EBG) has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of FA-EBG is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

**Exchange rate 120,69 Yen = 1 Euro, Stand 31.3.2013 (Source: Deutsche Bundesbank)*

Further Information:

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