

SPS IPC Drives 2014 (Hall 7, Stand 380)

IP55 variant added to FR-A800 series of frequency inverters

Dublin, Ireland. 27th November 2014

Mitsubishi Electric has added dust and splash-proof versions with an IP55 protection rating to its FR-A800 series of modern frequency inverters. Specially designed for harsh environments and tailored to the requirements of pumps and fans, the drives are highly robust and ideally suited for use in industrial and commercial building automation systems as well as in heating, ventilation and air-conditioning systems. Mitsubishi Electric will be presenting its latest series of tried and tested frequency inverters at SPS/IPC/Drives 2014 in Nuremberg.

The new FR-A846 series with an IP55 protection rating represents Mitsubishi Electric's latest drive technology in the output range from 400 watts up to 160 kW. The drive's EMC filter built in as standard ensures full compliance with the EMC Directive (EN 61800-3, 1st environment, category C2) while its DC reactor – also built in as standard – ensures full compliance with IEC 61000-3-12 for reducing and limiting harmonic currents so that separate certification is not required. The FR-A846 also has a built-in main switch version with locking option.

The IP55 series is suitable for the operation of both standard asynchronous machines and IPM/SPM motor technology. USB host and USB device functions guarantee problem-free programming and parameterisation along with data logging functionality while full integration in Mitsubishi Electric's iQ Works programming environment is also offered. A built-in control panel along with graphical displays mean that components are easy to operate intuitively.

Maximum speed and torque quality up to a maximum frequency of 400 Hz can be

achieved using the Real Sensorless Vector Control facility. An overload capability of 250 per cent during the start-up phase will ensure reliable start-up behaviour, especially under difficult operating conditions. Minimum terminal cycle times of less than three milliseconds guarantee the fastest possible response while speed rise times of less than 80 milliseconds help to ensure maximum performance and improved productivity.

Two overload scenarios guarantee optimised system 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 actuations. 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 all over the world.

“Like all Mitsubishi Electric inverters, the FR-A800 series also offers numerous protective, safety and overload functions, high-quality temperature-resistant capacitors, permanently lubricated and encapsulated cooling fans as well as protective coating according to IEC 60721-3-3. Integrated maintenance counters indicate component fatigue. At the end of the day, these are all factors which will help to reduce predictive and condition-oriented maintenance costs”, explains Oliver Endres, Senior Product Manager Drives & LVS, Mitsubishi Electric Europe B.V.

At the Nagoya Works in Japan, around 5000 employees ensure the quality and reliability of Mitsubishi Electric inverters in order to guarantee their suitability for use in a wide range of industrial branches and sectors. More than 300 test and inspection procedures are carried out, enabling the company to guarantee maximum quality and reliability. More than 18,000,000 Mitsubishi Electric inverters have already been sold worldwide.

Image Caption:



Specially designed for harsh environments and tailored to the requirements of pumps and fans, FR-A846 drives are highly robust and ideally suited for use in industrial and commercial building automation systems as well as in heating, ventilation and air-conditioning systems. [Source: Mitsubishi Electric Europe B.V.]

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 124.000 employees the company recorded consolidated group sales of 39,3 billion US Dollar* in the fiscal year ended March 31, 2014.

Our sales offices, research & development centres and manufacturing plants are located in over 30 countries.

Mitsubishi Electric Europe, Industrial Automation – Irish Branch is located in Dublin, Ireland. It is a part of the European Factory Automation Business Group based in Ratingen, Germany which in turn is part of Mitsubishi Electric Europe B.V., a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan.

The role of Industrial Automation – Irish Branch is to manage sales, service and support across its network of local distributors throughout Ireland.

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