

New performance inverters for applications with high power requirements

Mitsubishi Electric has extended its inverter portfolio with a 690V version of its FR-A800 series inverters. The new models of the FR-A870 690V line cover power outputs up to 1.5 MW. Yet this increased power is delivered in a slim package that starts at just 380mm wide, offering significant space saving potential. Furthermore, the FR-A870 line combines this high-power performance with features which enhance functionality, including a built-in brake chopper on all power sizes up to 200 kW to shorten deceleration times.

Numerous applications in areas such as the water industry, food and beverage and machine building are characterised by high power requirements. The flow demands of larger pumping applications in the water industry, for example, means motors are often oversized. The FR-A870 models optimise such applications, while incorporating features to reduce energy consumption and improve system reliability. In the food and beverage industry, where the likes of refrigeration compressors require inverters with greater power capability but where space within the control room is at a premium, the slim design of the FR-A870 is a particular benefit.

The inclusion of a built-in brake chopper offers advantages in higher-powered machinery applications that are characterised by rapid acceleration and deceleration rates. It shortens deceleration time, eliminating the need for an external brake unit or regeneration converter, and delivering a more dynamic machine. This ultimately means machines with improved throughput capability, while reducing system costs and simplifying wiring. Further, by eliminating the need for an external brake, machine builders can pass on a cost reduction in any servicing and maintenance that would previously have been required on the mechanical component.

Additional features include a DC reactor and EMC filter which remove the need for external ancillary components, and combine with the slim design of the FR-A870 itself to save further space and reduce wiring requirements. Along with the energy saving and optimised power usage functions of the FR-A800 range, the new FR-A870 models also comprise a host of other standard features, including integrated PLC, a USB port for programming and parameter copying, an easy-to-read control panel, functions for improved system safety, three expansion slots and a choice of network card.

The first FR-A870 inverter is initially available to cover powers from 160-200 kW, with further models in the pipeline to extend the coverage from 37 kW – 1.5 MW, forming a comprehensive range of inverters for high power applications.

Image Caption:

Image 1: The new FR-A870 690V inverter line-up from Mitsubishi Electric provides a complete range of models capable of addressing higher power requirement applications in areas such as the water industry, food and beverage and machine building.

[Source: Mitsubishi Electric Europe B.V.]

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Note to Editor: if you would like the text in another language please contact Philip Howe at DMA Europa – philip@dmaeuropa.com.

About Mitsubishi Electric

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognised 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, transportation and building equipment.

With around 145,817 employees the company recorded consolidated group sales of approximately 40.7 billion dollars* in the fiscal year that ended on March 31, 2019.

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

Factory Automation EMEA

Mitsubishi Electric Europe B.V., Factory Automation EMEA 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 Factory Automation EMEA is to manage sales, service and support across its network of local branches and distributors throughout the EMEA region.

*Exchange rate 111 Yen = 1 US Dollars, last updated 31.03.2019 (Source: Tokyo Foreign Exchange Market)

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