

Press Release

Bosch Rexroth's EFC 5610 frequency converter now enhanced with Safe Torque Off over the entire power range

2018-04-09

For Immediate Use



The EFC 5610 frequency converter with Safety on Board (STO – Safe Torque Off)

The upgraded EFC 5610 with STO Safety by Bosch Rexroth offers up to Cat. 4/PLe, SIL3 safety levels for safety relevant applications now over the complete power range. Safe Torque Off (STO) is a function used to prevent unexpected motor movement while connected to power during an emergency situation. Scalable in performance and functionality features, the EFC 5610 can be integrated into a wide range of automation environments with simple commissioning and open interfaces.

The newly enhanced EFC 5610 frequency converter (VFD) now provides STO functionality from 0.4 kW (0.5 hp) to 90 kW (125 hp). In addition to the advanced safety options, the EFC 5610 offers vector control for an optimal torque curve. The vector control can be easily parameterized and chosen over the standard U/f technology mode. Parameterization can be done through the operator display panel or via free downloadable IndraWorks Ds software tool by use of a PC connected via USB cable to the engineering port of the EFC.

Contact for Journalists:
Bosch Rexroth Canada
David Lopes
3426 Mainway Drive
Burlington, ON
Telephone (905) 315-6043
Fax (905)335-4184
david.lopez2@boschrexroth.ca

Bosch Rexroth Canada
Karen Maiden
3426 Mainway Drive
Burlington, ON
Telephone (905) 315-6044
Fax (905)335-4184
karen.maiden@boschrexroth.ca

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In heavy duty mode, the overload capacity can be maintained at up to 150 percent for 60 seconds. The high-torque EFC 5610 frequency converter also offers an optimal start torque of 200 percent at 0.5 Hz. from 5.5 kW (7.5 hp) devices can optionally be parameterized for Normal Duty mode (ND), providing higher continuous power levels at 120 percent overload.

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Using an option module, the EFC 5610 can be extended by a Multi-Ethernet interface with Sercos, EtherNet/IP, PROFINET, EtherCAT and Modbus/TCP or fieldbus interfaces such as PROFIBUS or CANopen and can be integrated into all common automation solutions.

With the Multi-Ethernet interface and the OpenCore interface (OCI for Drives), the EFC 5610 is prepared for modern machine concepts in the environment for Industry 4.0. With available libraries, the EFC 5610 can be controlled via most programming languages.

The EFC 5610 furthermore offers flexible expandability with application-specific functionalities, such as Rexroth Sytronix – variable speed pump drive technology (electro/hydraulic multi-technology).

With the improved safety features of the EFC 5610 frequency converter, Rexroth offers an economical and safety-conscious solution for a variety of applications in which valuable energy has to be used responsibly. Marked with the Rexroth 4EE systematic approach, Rexroth continues its commitment to energy efficiency without compromising on the quality.

For more information about Rexroth's EFC 5610, please visit www.boschrexroth.ca/efc

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,500 associates worldwide (as of December 31, 2017). According to preliminary figures, the company generated sales of 78 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected industry. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to create solutions for a connected life, and to improve quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs 62,500 associates in research and development.

Additional information is available online at www.bosch.com, iot.bosch.com, www.bosch-press.com, twitter.com/BoschPresse.

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Reader Inquiries:

Tel.: +1 905-315-6044

E-Mail: karen.maiden@boschrexroth.ca

Adresse: 3426 Mainway Dr, Burlington ON, L7M 1A8

Internet: www.boschrexroth.ca

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