

## Press Release

### Energy efficient process control

Easy and quick start-up with the new electronic frequency converters from Rexroth

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The newly developed electronic frequency converter series EFC 3600 by Bosch Rexroth offers an economic solution for energy efficient oriented process control application.

**Variable speed control for electronic drives is a main factor for increasing energy efficiency in machine engineering. With the newly developed EFC 3600 variable frequency drive series, Bosch Rexroth offers the economic benefits for general automation, material handling and pumps, fans and compressors, which had up to now been operated continuously and inefficiently.**

The EFC 3600 variable frequency drive (VFD) is a completely new design by Bosch Rexroth that complements the existing product portfolio including the Fe and Fv frequency converters as well as the highly dynamic IndraDrive platform. The EFC3600 improves the process control through integrated PID controllers as well as through a sequence control system with eight steps. The settings enable an energy efficient operation of equipment and machines at their optimal operating point. Due to its high intermittent overload capacity of up to 200 percent as well as the high initial torque of up to 150 percent, the EFC 3600 can be used for a wide range of applications with the most varying requirements. The freely scalable V/f characteristic allows load-dependent adjustment of the voltage/frequency curve, which ensures a longer motor service life.

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The EFC 3600 can be connected to other automation topologies via optional Modbus or PROFIBUS fieldbus interfaces or via digital and analog inputs and outputs. In the first roll-out, the EFC 3600 will be offered covering the performance spectrum from 400W to 4KW. Due to the integrated brake choppers and mains filters, additional peripheral devices are not required. The EFC 3600 complies with the EMC directives for industrial applications.

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The simple program structure and easy parameter input provide for quick commissioning and start-up without the need for a PC. Harmonized parameters apply to all converters of the series. Via the removable control panel with memory and copy function, the user can quickly configure several electronic frequency converters. This also reduces integration- and downtime in case of system expansion or in case of replacement. The service technician would simply use the control panel and copy the existing parameters to the new device.

Due to its compact design which is complemented by the plug-able I/O terminals and optimized cooling concept, a gapless side-by-side and space-saving installation is possible. For devices up to 0.75 kW, fans are not required and subsequently are supplied fan-free. Devices with performance level 1.5kW and higher are supplied with integrated fans that can be easily accessed without requiring tools for cleaning or replacement. The EFC 3600 complements Rexroth's frequency converter series Fe and Fv, which cover the performance spectrum up to 90 kW.

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*Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, Factory Automation, and Renewable Energies to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, pneumatics, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 37,500 associates generated sales revenue of approximately 6.5 billion euros in 2012. To learn more, please visit [www.boschrexroth.com](http://www.boschrexroth.com)*

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*Additional information is available online at [www.bosch.com](http://www.bosch.com) and [www.bosch-press.com](http://www.bosch-press.com)*

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