

Press Release

The right turn for higher energy efficiency Frequency converters from Rexroth for any application

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Energy when it is needed: EFC 3610 and EFC 5610 frequency converters from Rexroth.

All over the world, industrial end users are putting more and more emphasis on energy-efficient machines and systems. By using demand-oriented electromechanical energy, users are able to make significant savings on energy. Speed-controlled motors as pump drives for example can reduce electricity consumption by up to 80 percent in comparison to fixed-displacement drives. The EFC 3610 and EFC 5610 frequency converters from Rexroth exploit these potentials simply and economically. Scalable in performance and functioning, the drives can be integrated into a wide variety of automation environments with simple commissioning and open interfaces.

The intelligent frequency converters control speed on demand, thus significantly reducing the energy consumption of pumps, compressors and fans. They can be integrated into many different kinds of machines as compact units for speed and torque control. Together with permanent magnet motors, the frequency converters increase energy efficiency and the continuously adaptable pulse frequency minimizes motor noise at the same

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time. Integrated energy counters measure actual consumption and show valuable information for the energetic optimization of machines and systems.

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Commissioning without a PC

With the integrated control panel, commissioning can be done easily without programming devices or a PC. From there the user can start auto-tuning or quickly and easily enter or change the few necessary parameters. With switchover options between parameter sets and integrated PID control to increase flexibility as well as various optional I/O and fieldbus modules, the devices are suitable for any application in machine building.

The LED display can show all operating variables. The removable control panel has an integrated copy function. This accelerates the commissioning of several frequency converters with the same or similar parameter set and reduces the work required when exchanging equipment. The drives have analog inputs and outputs, which can be used as voltage or current interfaces. Digital inputs/outputs make simple direct coupling with a PLC possible. The assembly work required is significantly reduced by the integrated brake chopper and mains filter as well as time-saving installation technology using plug-in terminals and an attachment option on standard DIN rail.

Open interfaces for universal application

The frequency converters from Rexroth can be easily integrated into an automation network via a Modbus interface included as standard or an optional PROFIBUS module. With the integrated sequence control with 16 levels, independent sequences can be parameterized. The protection function for pump operation and motor temperature monitoring protect the system during critical process conditions.

The two new frequency converter series cover the power spectrum from 0.4 to 18.5 kW. In addition to the freely definable V/f operation, the EFC 5610 also offers vector control for an optimal torque curve. 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.

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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, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, roughly 36,700 associates generated sales revenue of approximately 5.7 billion euros in 2013.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. In 2013, its roughly 281,000 associates generated sales of 46.1 billion euros. (NB: Due to a change in accounting policies, the 2013 figures can only be compared to a limited extent with the 2012 figures). Its operations are divided into four business sectors: Automotive Technology, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 360 subsidiaries and regional companies in some 50 countries. If its sales and service partners are included, then Bosch is represented in roughly 150 countries. This worldwide development, manufacturing, and sales network is the foundation for further growth. In 2013, the Bosch Group invested some 4.5 billion euros in research and development and applied for some 5,000 patents. This is an average of 20 patents per day. The Bosch Group's products and services are designed to fascinate, and to improve the quality of life by providing solutions which are both innovative and beneficial. In this way, the company offers technology worldwide that is "Invented for life."

Additional information is available online at www.bosch.com, www.bosch-press.com and <http://twitter.com/BoschPresse>

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