

PRESS RELEASE

2018-10-20

For Immediate Use

Variable-speed pressure and flow control system Sytronix DFE n 5000

Closed-loop control system for energy-efficient system solution



The Sytronix DFE n 5000 closed-loop control system is available for series A10 and A4, making it suitable for use in a wide range of applications.

The Rexroth Sytronix variable-speed pump drives comprise a comprehensive modular system of pumps; controller and motors as well as software depending on the cycle characteristics and configuration, the variable-speed pump drives can reduce energy consumption in the most varied applications by 30 to 80%. The Sytronix DFE n 5000 variable-speed pump system is a member of this product family. It is based on the proven DFE pressure and flow control system. In combination with a frequency converter, the system provides a dynamic and very economical solution for controlling oil volume and pressure.

The Sytronix DFE n 5000 closed-loop control system consists of a variable displacement axial piston pump driven by a standard asynchronous motor frequency converter. Digital on-board electronics calculate the optimum speed for the entire drive system. The destroking of the variable displacement pump lowers the flow rate and reduces the

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engine load. The optimum speed for maintaining pressure is between 300 and 400 1/min depending on the pressure. With machines that work on cyclical basis, a teach-in process can be used to bring the system back up to speed just in time before an increase in flow rate.

With non-cyclical machines, a contact can be closed to raise the speed to the required minimum shortly before an increase in flow rate is required, for instance in case of a batch change. That way, the full dynamic of the control pump is available when needed. The control system is available for the pump series A10 and A4, making it suitable for use in a wide range of applications and also retrofittable.

About Bosch Rexroth

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation. With its intelligent components, customized system solutions and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, more than 30,500 associates generated sales revenue of 5.5 billion euros in 2017. To learn more, please visit www.boschrexroth.ca

About Bosch

Having established a regional presence in 1906 in North America, the Bosch Group employs nearly 34,500 associates in more than 100 locations, as of December 31, 2017. In 2017 Bosch generated consolidated sales of \$13.7 billion in the U.S., Canada and Mexico. For more information, visit twitter.com/boschusa, twitter.com/boschmexico and www.bosch.ca.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros (\$88.2 billion) 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,

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smart cities, connected mobility, and connected manufacturing. 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 deliver innovations for a connected life. Bosch improves 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 subsidiary and regional companies in 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 some 64,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, [www.twitter.com/BoschPresse](https://twitter.com/BoschPresse).

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