

ebm-papst at SPS in Nuremberg

Robust compact fans protect power electronics efficiently

The SPS automation trade fair will take place from November 12 to November 14, 2024 in Nuremberg. At the ebm-papst trade show booth in Hall 1, Stand 1-324, the company will be presenting smart and innovative ventilation and drive technology approaches. In Nuremberg, the technology leader will focus on its solutions for control cabinet and electronics cooling, industrial drive technology and automation.

Diagonal compact module for control cabinet filter fans

The new ebm-papst EC diagonal compact modules for control cabinet filter fans offer impressive performance with low energy consumption and far surpass comparable axial solutions. In sizes 165, 200 and 250, the filter fan ensures reliable cooling with low noise levels and reliably protects against dust, dirt and moisture. Thanks to their plug & play design, the new fans are easy to install and connect. Efficient EC technology and a wide voltage range (100 V to 240 V) enables worldwide use in applications requiring high air performance.

Series expansion of the DiaForce series

Increasing packing density in server cabinets and ever-increasing power throughput are becoming a challenge for electronics cooling. Especially for applications such as data centers, telecommunications equipment and industrial electronics, ebm-papst is constantly continuing to develop the tried-and-tested model range of the DiaForce high-performance diagonal compact fan. Alongside the DiaForce 120, the new DiaForce 80 and DiaForce 40 models will now be presented. The more compact DiaForce 80 version now impresses in applications such as server trays and high-performance power supply units with high performance and pleasant noise characteristics. The DiaForce 40 expands the product range and brings its advantages to routers, switches, network technology, industrial automation and control systems and robotics.

New protection class ensures an extended field of application

The AxiEco 200 axial compact fan ensures reliable and energy-saving cooling in data centers for applications such as in-row cooling and Rear Door Heat Exchanger. The optional full encapsulation means that the AxiEco 200 is also available with protection class IP 68. This makes it robust to environmental influences and ensures that it also impresses with its efficiency, compact design and low noise characteristics. In addition to data centers, other applications requiring pressure, such as battery cooling systems or fast-charging stations, are now also possible outside.

Intelligent drives with EtherCAT interface

When it comes to coordinating numerous smaller drives in a system, decentralized drive solutions with integrated electronics in the motor housing have become established in practice. The BLDC internal rotor drives in the ECI-80 motors with an output power of up to 720 watts are now equipped with K5 electronics. In addition to being controlled using I/Os or CANopen, the drives can now also be operated via EtherCAT. EtherCAT (Ethernet for Control Automation Technology) combines the advantages of Ethernet with the simplicity of classic fieldbus systems. As probably one of the fastest industrial Ethernet technologies, this makes it ideal for use in decentralized, intelligent drives. STO (Safe-Torque-Off) is optionally available from the aspect of functional safety.

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Fig. 1: New diagonal compact module for control cabinet filter fans.



Fig. 2: New sizes available: DiaForce 40 (left) and DiaForce 80 (right).

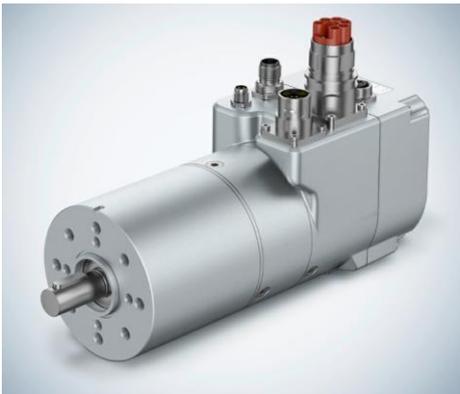


Fig. 3: New ECI-80 motor with integrated K5 electronics. In addition to being controlled using I/Os or CANopen, the drive can also be operated via EtherCAT.

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About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics. ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology.

In the 2023/24 financial year, the Group generated turnover of EUR 2.408 billion. It employs just under 14,000 people at 30 production sites (including in Germany, China, and the U.S.) and in 50 sales offices worldwide. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology.



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