Press release

Preliminary report on Motek in Stuttgart

Energy-efficient solutions for drive engineering and fan technology

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At the international Motek trade fair held in Stuttgart from 21-24 September 2009, motor and fan specialist ebm-papst (www.ebmpapst.com) is presenting its latest products in Hall 9, Booth 9215.

The new AC, DC and EC compact centrifugal modules for applications including refrigerated counters, home ventilation and control cabinet cooling are offered as a complete plug & play unit that ensures easy and hassle-free installation, as the fan is supplied as a module with all necessary connecting elements. The centring of the inlet nozzle to the impeller is pre-set, guaranteeing aerodynamically and acoustically flawless operation.

Motor forced air ventilation systems for controllable drive motors are now, for the first time, also available with internal rotor technology and fulfil as standard the requirements of the IP66 type of protection (dust-proof and water jet-proof). Currently, eight sizes are available, which are suitable for motors with axis heights AH63 to AH200.

The new M3G084.., M3G112.. and M3G150.. drive motors are an intelligent alternative to IEC standard motors with frequency inverter. The three different sizes all feature an enclosed and compact design with integrated electronics. The motors with a torque range of 1.0 – 20.0 Nm are ideally suited for applications such as those in fans, blowers, pumps and compressors. The mounting options are based on the familiar B14 / B5 flange variant.

With the new Variodrive Compact VDC-3-49.15 series of electronically commutated external rotor motors, entirely new drive solutions are available to users in the field of industrial automation. High power density, very compact dimensions and unexpectedly good dynamic characteristics are the outstanding features of these motors. With the completely integrated electronics, extensive function and a rated torque of 0.25 Nm at 4,000 rpm, a wide range of specific applications can be covered. A robust mechanical design and IP 54 protection complete the outstanding motor characteristics. Supplemented by the familiar series of DC and EC motors and the combination options with gearboxes, brakes and sensor systems, optimally matched drive systems can be put together for a wide range of applications.

Of course, because the component density of the compact devices is increasing constantly, the waste heat load is also increasing. The new S-Force fans from ebm-papst have been designed with this fact in mind. With pressure increase up to 600 Pa, they are currently the most powerful axial compact fans in their class

worldwide. Even in this version, they provide high air flow at a high pressure level. The new S-Force generation in a centrifugal fan design with impeller diameters from 97mm to 225mm improves this top performance even further, to up to 1400 Pa. This makes it easy to fulfil even the most stringent requirements for delivery pressure.

Image 1: New Variodrive Compact VDC-3-49.15 electronically commutated external rotor motor

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