



Press Release

InnoTrans, September 18 – 21

Blowers for cooling variable frequency drives in railway applications

At the InnoTrans trade fair in Berlin, September 18 – 21, 2018, ebm-papst will be presenting its latest products for railway applications in Hall 3.1 at Stand 230. These include a new blower for cooling variable frequency drives; it has TÜV certification for fire safety.

The compact, dual-flow centrifugal blower has especially high-performance integrated electronics and guarantees maximum reliability in a compact package – and not only for indoor use.

Now also available for 110 VDC

The centrifugal blower is now available for 110 VDC and no longer only for 24 VDC, so it can be directly connected to existing 110 VDC on-board electrical systems without the need for a voltage converter. This makes it ideal for cooling variable frequency drives in railway applications. Its integrated MODBUS interface ensures trouble-free operation (parametrization) and data retrieval for operational status monitoring. The blower is easy to install with plug & play connection. It satisfies the requirements of the highest protection class, IP69K (dust-proof), and the motor is protected against water ingress during high-pressure cleaning.

Identical product for many applications

The DC motor used in the blower is highly versatile. The motor's design allows it to be used in dual-flow centrifugal blowers as well as in axial fans or single-flow blowers. The control and motor characteristics and the connection mechanism remain identical, regardless of the impeller it is combined with. Once validated, a motor can be quickly and economically put to use in a wide range of applications, including air conditioning applications in the driver's cab and passenger compartments.

Fire protection standard

The European standard EN 45545 for fire protection on railway vehicles has been in full force for some time. The seven-part standard has the objective of protecting passengers and staff in case of fire on board and assuring evacuation. The fans from ebm-papst satisfy the requirements for Hazard Level (HL) 3 of the EN 45545-2:2013 standard. In addition, all ebm-papst fans for railway use are designed according to EN 50155:2016 (electronic equipment used on rolling stock).

This and other ebm-papst products can be viewed at InnoTrans in Hall 3.1 at Stand 230.

Katrin Lindner
Trade press coordinator
Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
Katrin.Lindner@de.ebmpapst.com

Corinna Schittenhelm
Trade press coordinator
Phone: +49 7938 81-8125
Fax: +49 7938 81-98125
Corinna.Schittenhelm@de.ebmpapst.com

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Press office contact
ebm-papst Group

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Fig. 1: The compact, dual-flow centrifugal blower for cooling compressors and variable frequency drives in railway applications is now available for 110 VDC.

Photo ebm-papst
Characters approx. 2,200, including headings and sub-headings
Tags EC technology, energy savings, blowers, outdoor use, railway, compact, electronics, fire safety
Link <https://discover.ebmpapst.com>

About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global industry standards: from the digital interconnection of electronically controlled EC fans to aerodynamic improvements for fan blades to the use of eco-friendly materials.

In fiscal year 2017/18, the company achieved sales of over € 2 billion. ebm-papst employs over 15,000 people at 27 production sites (e.g. in Germany, China and the US) and in 48 sales offices worldwide. Fans and motors from the world market leader are used in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automotive and drive engineering.

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Phone: +49 7938 81-7006
Fax: +49 7938 81-97006
Katrin.Lindner@de.ebmpapst.com

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