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## 2 INTENDED USE

The product is designed exclusively as a built-in device for conveying air according to the technical data.  
Every use that is not in accordance with the intended purpose, is regarded as misuse of the product.  
On-site installations must comply with the mechanical, thermal and service life requirements, see *Chapter 3, Technical Data*.

### Intended use includes:

- Operating the product with all protective equipment
- Do not put the product into operation before it has been installed in the customer's application
- Observation of the operating manual

### Use for other than the intended purpose

Using the product for the purposes mentioned below is prohibited and can be dangerous:

- Conveyance of air that contains abrasive particles.
- Conveyance of air that has a highly corrosive effect.
- Conveyance of air that has a high dust load, e.g. vacuuming sawdust.
- Conveyance of inflammable gases/particles.
- Contact with materials that can damage the product, e.g. acids, caustic solutions, solvents.
- Exposure to radiation that can damage product components, e.g. strong UV rays or thermal radiation.
- Operating during external vibration.
- Operating the product close to inflammable materials or components.
- Operating the product in an explosive atmosphere
- Use of the prout as a safety component or for performing safety-relevant functions.
- Operating in medical devices with life-sustaining or life-saving function if not validated together with ebm-papst.
- Operating in non-stationary systems, e.g. railway vehicles, aircraft and spacecraft if not validated together with ebm-papst.
- Operating with fully or partially dismantled or manipulated protective equipment.
- Operating the product under conditions other than those mentioned in the technical data.
- Furthermore, all fields of application not mentioned under intended use.

An in situ assessment must be conducted of the heating behavior (appropriate and inappropriate operation), the protection against contact, electrical shocks, impact of foreign objects or water and the usage at altitudes higher than 2000 meters.

Contact ebm-papst if you have specific queries regarding the product.



## 3 TECHNICAL DATA

Drawing, see annex

### Technical description

Airflow direction	Air intake over struts
Rotating direction looking at rotor	Clockwise
Nominal voltage	24 V
Current consumption	1.900 mA
Power consumption	46 W
Speed	7.500 1/min
Max. free-air flow	390,0 m3/h
Mass	0.390 kg
Protection class	III
Max. torque when mounted across both mounting flanges	wire outlet corner: 420 Ncm remaining comers: 600 Ncm
Screw size	ISO 4762 - M4 degreased, without an additional brace and without washer

The product is intended for use in sheltered rooms with controlled temperature and controlled humidity. Directly exposure to water must be avoided.

Pollution degree 1 (according DIN EN 60664-1)  
There is either no pollution or it occurs only dry, non-conductive pollution. The pollution has no negative impact.

### Ambient conditions

Permitted ambient temperature	
Transport and storage	Operation
-40 °C ... 80 °C	-20 °C ... 65 °C

### Vibration and shock load

The mechanical Vibration and Shock data for the product is available.  
If the operation of the product should take place in a sinusoidal vibration containing environment or fixing the product on sinusoidal vibrating surface, please contact our technical support.

Do not operate your product in the resonance range.



## 4 CONNECTION AND COMMISSIONING

### Connect mechanical parts



**CAUTION**  
Risk of cutting/squashing when removing the product from the packaging and during mounting.

Grasp the housing and lift the product carefully out of the packaging. Avoid impact.  
Wear safety boots and cut-resistant gloves.



**NOTE**  
Risk of damage to electronic components.  
Use ESD protective equipment when mounting.

### Connect electrical parts

Connect to the mains after installation.



**DANGER**  
Compliance with the electrical installation regulations

Observe the connection regulations that are valid in your country. (e.g. fusing, GFCI)



**CAUTION**  
Electrical voltage  
The product is a built-in component and has no switch for disconnecting power.

Only connect the product to current circuits that can be switched off by a switch (all poles disconnected). When working on the product, secure the system/machine in which the product is installed against switching on again.

**NOTE**  
Electromagnetic compatibility (EMC) may affect the system integration of the product due to interaction.

Ensure the electromagnetic compatibility of the entire system.

### Voltage control



Speed control via the supply voltage is only permitted within the stipulated supply voltage range. Speed control via PWM of the supply voltage is not permitted.

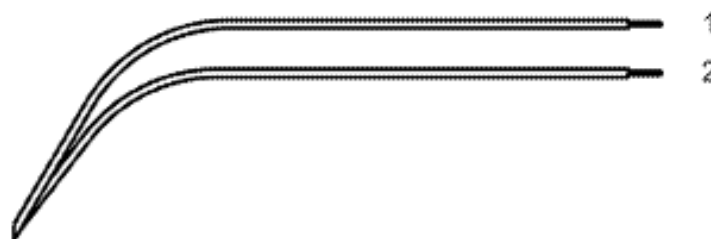
### Requirements:

- Before connecting the product, ensure that the supply voltage corresponds with the product voltage.
- Check whether the data on the nameplate corresponds with the interface data.



Only use cables that are designed for the current on the nameplate and the corresponding ambient conditions. Ensure that the electrical interface data is adequately protected (mechanical).

Find additional information in drawing or label.



Wire	Color	Operation
1	red	+ UB
2	blue	- GND

### Check connections

**NOTE**  
DC-fans <=60V are products of Protection Class III and must be operated with safety extra-low voltage.

### Connect product

Check the product for visible damage and the operability of protective equipment before switching on.  
If damage is visible, do not start the product.

01	VENTILADOR AXIAL DC		1		EBMPAPST 4114 NH5	0.390	
	VENTILATORE ASSIALE DC						
MARCA	DESCRIPCIÓN		CANT.	CÓDIGO O NORMA	MATERIAL O REFERENCIA	PESO	DIMENSIONES
MARCA	DESCRIZIONE		QUANT.	CÓDICE O NORMA	MATERIALE O REFERENZA	PESO (Kg)	DIMENSIONES (mm)