EBM PAPST 4114N/2H3

Categoría	Ventilador sin cepillos C.C. (BLDC)
Fabricante	ebm-papst Inc.
Serie	4100N
Paquete	Unidad
Estado del producto	Activo
Voltaje nominal	24 VCC
Tamaño/Dimensión	Cuadrado - 119mm L x 119mm H
Ancho	38.00mm
Flujo de aire	182.0 ft3/min (5.10m³/min)
Presión estática	-
Tipo de cojinete	Bola
Tipo de ventilador	Tubo axial
Características	Sensor de velocidad (tacómetro)
Ruido	73.0dB(A)
Potencia (Vatios)	19.5 W
RPM	6000 rpm
Terminación	3 extremidades del hilo
Protección de entrada	-
Temperatura de funcionamiento	-4 ~ 149°F (-20 ~ 65°C)
Agencia de aprobación	-
Corriente nominal (Amperios)	-
Rango de voltaje	16 ~ 30 VCC
Material - Marco	Aluminio
Material - Hoja	Poliamida (PA), nylon, fibra de vidrio reforzada
Vida útil según temperatura	65000 h a 40°C
Número de producto base	9694300205

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 prouct 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	810 mA
Power consumption	19,5 W
Speed	6.000 1/min
Max. free-air flow	310,0 m3/h
Mass	0,390 kg
Protection class	III
Max. torque when mounted across both mounting flanges	wire outlet corner: 420 Ncm remaining corners: 560 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.