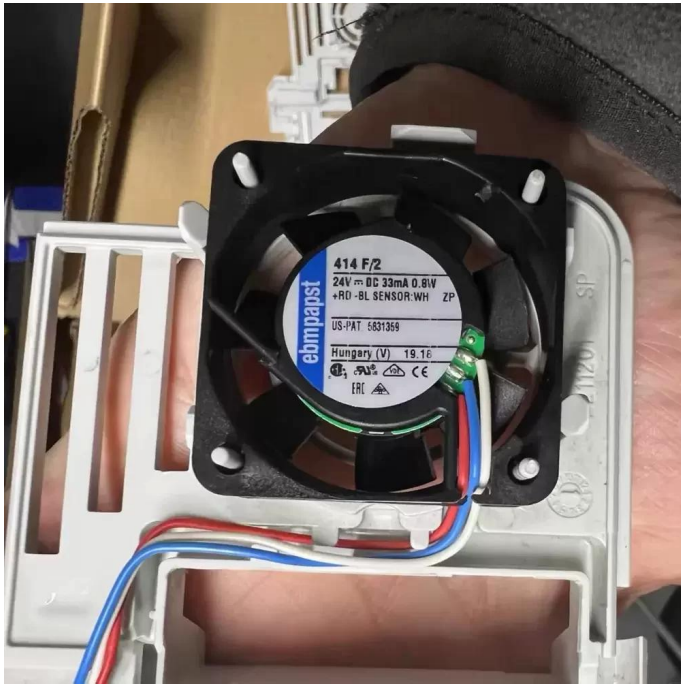


414F/2 ebm-papst 24VDC 40x40x10mm 33mA 0.8W Axial Fan Datasheet



Brand: ebmpapst

SKU: 978804876008

Category: Axial & Centrifugal Fans

Price: **\$21.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/414f-2-ebm-papst-24vdc-40x40x10mm-33ma-0-8w-axial-fan>

Product Description

The ebm-papst 414F/2 is a compact DC axial fan engineered for precision cooling in space-constrained electronics. Utilizing a 24VDC drive system, this unit delivers efficient airflow while maintaining an ultra-low power consumption profile of just 0.8W. The fan features ebm-papst's proprietary SinTec sleeve bearing technology, which ensures long-term structural rigidity and reduced acoustic noise compared to standard bearing designs. Its aerodynamic impeller is housed within a durable PBT frame, optimized to minimize thermal impedance in high-density inverter and drive applications. The inclusion of a third wire indicates a frequency generator output for real-time speed monitoring, essential for critical feedback loops.

Model Number: 414F/2

Brand: ebm-papst

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 20.0 - 28.0 VDC

Rated Current: 0.033 A (33 mA)

Power Input: 0.8 W

Rated Speed: 5400 RPM

Bearing Type: SinTec Sleeve Bearing

Max. Air Flow: 5.3 CFM (9 m³/h)

Max. Static Pressure: 0.08 inH₂O (20 Pa)

Dimensions: 40 x 40 x 10 mm

Weight: 0.017 kg

Noise Level: 22.1 dB(A)

Life Expectancy (L10 at 40°C): 45,000 hours

Life Expectancy (L10 at 60°C): 17,500 hours

Termination: 3-Wire (Lead Wires)

Sensor Signal: Speed Signal (Frequency Generator / Tachometer)

Housing Material: PBT Plastic (Glass-fiber reinforced)

Impeller Material: PA Plastic (Glass-fiber reinforced)

Operating Temperature: -20°C to +70°C

Storage Temperature: -40°C to +80°C

Direction of Rotation: Counter-clockwise (viewed toward rotor)

Direction of Airflow: Exhaust over struts

Motor Protection: Impedance Protected against overloading

Approvals: VDE, CSA, UL, CE

Designed specifically for compact industrial electronics, the 414F/2 is frequently deployed in variable frequency drives (VFDs) and power inverters where internal space is at a premium. The 414F/2 ensures reliable thermal management for sensitive control boards and semiconductor components within automation cabinets. Its integrated speed monitoring makes it ideal for server rack cooling modules, telecommunications equipment, and medical instrumentation where fan failure detection is critical for system safety.