414F ebmpapst 24VDC 40x40x10mm 0.8W Axial Fan Datasheet

Brand: ebmpapst

SKU: 684697746222

Category: Axial & Centrifugal Fans

Price: **$36.99**

E-mail: sales@equipspares.com

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Product Page: https://www.equipspares.com/product/414f-ebmpapst-24vdc-40x40x10mm-0-8w-axial-fan

Product Description

The ebmpapst 414F is a compact DC axial fan engineered for high-density electronic cooling applications requiring minimal spatial footprint. Utilizing advanced Sintec sleeve bearing technology, this unit ensures low-noise operation while maintaining structural rigidity under continuous thermal load. The aerodynamic impeller design optimizes airflow efficiency, delivering consistent cooling performance with a low power consumption profile of 0.8W. Designed for reliability, the 414F features a durable glass-fiber reinforced PBT housing and operates efficiently within a 24VDC nominal environment, making it an ideal solution for managing thermal impedance in precision instrumentation and compact drive systems.

Model Number: 414F
Brand: ebmpapst
Product Type: DC Axial Fan
Rated Voltage: 24 VDC
Voltage Range: 20 - 28 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 m^3/h)
Max. Static Pressure: 1.84 mmH_2O (18 Pa / 0.07 inH_2O)

Dimensions: 40 x 40 x 10 mm
Weight: 0.017 kg (17 g)
Life Expectancy: 45,000 hours (L10 at 20°C)
Noise Level: 26 dB(A)
Housing Material: PBT Plastic (Glass-fiber reinforced)
Impeller Material: PBT Plastic (Glass-fiber reinforced)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Termination: 2 Lead Wires (AWG 28, TR 64)
Direction of Rotation: Counter-clockwise (viewed toward rotor)
Airflow Direction: Exhaust over struts
Motor Protection: Impedance Protected against overloading
Approvals: VDE, CSA, UL, CE

The 414F is specifically designed for integration into compact electronic assemblies where space is at a premium, such as variable frequency drive (VFD) inverters and small-scale power supply units. Its low profile allows it to fit seamlessly into tight enclosures found in medical diagnostic equipment and telecommunications interface modules. The 414F provides critical airflow to prevent hotspots on PCBs and sensitive components within industrial automation controllers. Additionally, the 414F is frequently utilized in rack-mounted server cooling solutions and localized spot cooling for embedded systems.

Supplemental Images