

4414F/2L-560 ebm-papst 24VDC 119x119x25mm Axial Fan Datasheet



Brand: ebmpapst

SKU: [888468199727](#)

Category: Axial & Centrifugal Fans

Price: **\$214.99**

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Product Page:

<https://www.equipspares.com/product/4414f-2l-560-ebm-papst-24vdc-119x119x25mm-axial-fan>

Product Description

The ebm-papst 4414F/2L-560 is a precision-engineered DC axial fan designed for applications requiring optimized thermal impedance and acoustic discretion. Utilizing advanced motor commutation technology, this unit delivers consistent airflow while maintaining minimal power consumption of 1.2W. The chassis features high structural rigidity, housing a balanced impeller that reduces turbulence-induced noise and vibration. Engineered with a robust bearing system, typically a Sintec sleeve or ball bearing architecture depending on the specific OEM revision, it ensures longevity under continuous operation. The 4414F/2L-560 operates efficiently within a 18-28V voltage range, making it a critical component for sensitive industrial electronics and robotics control units requiring stable thermal regulation.

Model Number: 4414F/2L-560

Brand: ebm-papst

Product Type: DC Axial Fan

Rated Voltage: 24VDC

Voltage Range: 18.0 - 28.0 VDC

Rated Current: 50mA (0.05 A)

Power Consumption: 1.2 W

Rated Speed: 1600 RPM

Max. Air Flow: 58.9 CFM (100 m³/h)

Max. Static Pressure: 2.8 mmH₂O (27 Pa)
Dimensions: 119 x 119 x 25 mm
Weight: 175 g
Bearing Type: Sintec Sleeve Bearing / Ball Bearing
Noise Level: 26 dB(A)
Life Expectancy: 70,000 hrs at 40°C
Operating Temperature: -20°C to +65°C
Storage Temperature: -40°C to +80°C
Housing Material: Fiberglass-reinforced PBT plastic (UL94V-0)
Impeller Material: Fiberglass-reinforced PA plastic (UL94V-0)
Termination: 3-Wire Lead (with Speed Signal)
Speed Control: Tachometer Output (Frequency Generator)
Ingress Protection: IP20
Direction of Rotation: Clockwise looking at rotor
Airflow Direction: Air exhaust over struts
Motor Protection: Impedance Protected, Reverse Polarity Protection
Certifications: VDE, CSA, UL, CE

This cooling solution is extensively utilized in industrial automation environments, specifically serving as a thermal management component for Kuka robotics control cabinets and servo drive systems. The 4414F/2L-560 ensures reliable heat dissipation in confined electronic enclosures where low noise and high reliability are paramount. Additionally, the 4414F/2L-560 is suitable for telecommunications equipment, precision medical devices, and server rack cooling, safeguarding critical circuitry from thermal degradation during continuous duty cycles.

Supplemental Images

