

414J ebm-papst 24VDC 40x40x25mm Industrial Axial Fan Datasheet



Brand: ebmpapst

SKU: [850577542883](#)

Category: Axial & Centrifugal Fans

Price: **\$70.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/414j-ebm-papst-24vdc-40x40x25mm-industrial-axial-fan>

Product Description

The ebm-papst 414J is a compact axial fan engineered for precision thermal management in space-constrained industrial environments. Utilizing advanced DC motor technology with soft commutation electronics, this unit delivers consistent airflow while minimizing electromagnetic interference and acoustic noise. The construction features a robust fiberglass-reinforced plastic (PBT) housing and impeller, ensuring structural rigidity and resistance to thermal stress. Equipped with a durable ball bearing system, the 414J optimizes rotational stability and longevity, making it ideal for continuous operation. Its aerodynamic design reduces turbulence, effectively lowering thermal impedance in critical electronic assemblies and variable frequency drive cooling applications.

Model Number: 414J

Brand: ebm-papst

Product Type: Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 18.0 - 26.4 VDC

Rated Current: 0.095 A

Power Input: 2.3 W

Rated Speed: 5800 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 11.2 CFM (19 m³/h / 0.32 m³/min)

Max. Static Pressure: 5.1 mmH₂O (50 Pa / 0.20 inH₂O)

Dimensions: 40 x 40 x 25 mm

Weight: 0.050 kg

Life Expectancy: 70,000 hrs @ 40°C

Noise Level: 30 dB(A)

Housing Material: Fiberglass-reinforced PBT plastic (UL94V-0)

Impeller Material: Fiberglass-reinforced PA plastic

Termination: 2 Wire Leads (AWG 28, TR 64)

Operating Temperature: -20°C to +70°C

Country of Origin: Hungary

Ingress Protection: IP20

This high-efficiency cooling solution is specifically designed for integration into compact industrial electronics and telecommunications infrastructure. The 414J is frequently utilized in server rack cooling modules, variable frequency drive (VFD) heat dissipation systems, and precision medical instrumentation where space is at a premium. Additionally, the 414J serves as a critical component in network routers and automation control cabinets, ensuring optimal operating temperatures for sensitive components.

Supplemental Images

