

424JH ebmpapst 24VDC 40x40x25mm Compact Axial Fan Datasheet



Brand: ebmpapst

SKU: [858277324549](#)

Category: Axial & Centrifugal Fans

Price: **\$72.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/424jh-ebmpapst-24vdc-40x40x25mm-compact-axial-fan>

Product Description

The ebmpapst 424JH is a high-performance DC Axial Fan engineered for critical thermal management in space-constrained industrial environments. Utilizing advanced electronically commutated (EC) motor technology, this unit delivers exceptional airflow density relative to its compact 40mm footprint. The design incorporates a precision ball bearing architecture to ensure operational longevity and structural rigidity, even during sustained high-speed rotation. Its aerodynamic impeller geometry is optimized to minimize turbulence while maximizing static pressure, effectively overcoming high thermal impedance in tightly packed electronic enclosures. The robust housing construction ensures reliability under demanding conditions, making it a staple for precision cooling applications.

Model Number: 424JH

Brand: ebmpapst

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 16.0 - 26.4 VDC

Rated Current: 0.29 A

Power Input: 6.9 W

Rated Speed: 13000 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 22.4 CFM (38 m³/h)

Max. Static Pressure: 0.78 inH₂O (195 Pa)

Dimensions: 40 x 40 x 25 mm

Weight: 0.050 kg

Noise Level: 54 dB(A)

Life Expectancy: 70,000 hrs @ 40°C

Housing Material: PBT Plastic, Fiberglass Reinforced (UL94V-0)

Impeller Material: PA Plastic, Fiberglass Reinforced (UL94V-0)

Termination: 2-Wire Leads (AWG 26, TR 64)

Operating Temperature: -20°C to +70°C

Storage Temperature: -40°C to +80°C

Ingress Protection: IP20

Insulation Class: E

Direction of Rotation: Counter-clockwise viewed toward rotor

Airflow Direction: Air exhaust over struts

Safety Approvals: VDE, CSA, UL, CE

The 424JH is specifically designed for high-density electronics cooling, frequently utilized in precision inverters and variable frequency drives (VFDs) where heat dissipation is paramount. Its high static pressure capabilities make the 424JH an excellent choice for 1U server racks, compact telecommunications equipment, and medical devices requiring reliable, continuous airflow. By maintaining optimal operating temperatures, this fan ensures the stability and extended service life of sensitive components in industrial automation systems.

Supplemental Images

