

8214JN ebmpapst 24VDC 80x80x38mm Axial Fan Datasheet



Brand: ebmpapst

SKU: 855488264393

Category: Axial & Centrifugal Fans

Price: **\$115.99**

E-mail: sales@equipspares.com

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

Product Page: <https://www.equipspares.com/product/8214jn-ebmpapst-24vdc-80x80x38mm-axial-fan>

Product Description

The ebmpapst 8214JN is a compact Axial Fan engineered for high-density thermal management in industrial electronics. Utilizing advanced DC motor technology with a robust ball bearing architecture, this unit ensures sustained operational stability under continuous load. The aerodynamic design of the impeller minimizes turbulence while maximizing static pressure capabilities, effectively overcoming high thermal impedance in restricted enclosures. Constructed with fiberglass-reinforced plastic (PBT) housing and impeller, it offers superior structural rigidity and resistance to environmental stress. This cooling solution is specifically optimized for demanding applications requiring reliable heat dissipation and long service life.

Model Number: 8214JN

Brand: ebmpapst

Product Type: Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 18 - 26.4 VDC

Rated Current: 0.45 A

Power Input: 10.8 W

Rated Speed: 8400 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 77.7 CFM (132 m³/h)

Max. Static Pressure: 16.0 mmH₂O (157 Pa)

Dimensions: 80 x 80 x 38 mm

Weight: 0.16 kg

Noise Level: 55 dB(A)

Housing Material: PBT Plastic (Fiberglass-reinforced)

Impeller Material: PA Plastic (Fiberglass-reinforced)

Operating Temperature: -20 to +70 °C

Life Expectancy: 70,000 Hours (at 40°C)

Termination: 2 Wire Leads (AWG 24, TR 64)

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

Airflow Direction: Air exhaust over struts

Motor Protection: Reverse Polarity Protection, Locked Rotor Protection

Approvals: VDE, CSA, UL, CE

Designed for critical cooling tasks, the 8214JN is frequently integrated into variable frequency drives (VFDs) and industrial inverters where consistent airflow is paramount. Its compact form factor allows for seamless installation in dense server racks, telecommunications equipment, and power supply units. The 8214JN also serves effectively in CNC machinery control panels and medical instrumentation, ensuring sensitive components remain within safe thermal operating limits during prolonged operation.