

8214J/2H4P ebm-papst 24VDC 80x38mm PWM Axial Fan Datasheet



Brand: ebmpapst

SKU: 790122683454

Category: Axial & Centrifugal Fans

Price: \$85.99

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Product Page:

<https://www.equipspares.com/product/8214j-2h4p-ebm-papst-24vdc-80x38mm-pwm-axial-fan>

Product Description

The ebm-papst 8214J/2H4P is a high-performance DC Axial Fan engineered for demanding thermal management applications requiring exceptional airflow density. Utilizing an advanced electronically commutated (EC) external rotor motor, this unit delivers superior efficiency and reduced thermal impedance compared to standard DC variants. The aerodynamic profile features a glass-fiber reinforced PBT impeller designed to minimize turbulence while maximizing static pressure capabilities. Housed within a rigid PBT frame, the system relies on precision ball bearings to ensure long-term reliability and structural stability under high-speed operation. This 80mm compact fan is optimized for environments necessitating rapid heat dissipation and continuous duty cycles.

Model Number: 8214J/2H4P

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Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 12.0 - 27.6 VDC

Rated Current: 1.55 A

Power Consumption: 37.0 W

Rated Speed: 14000 RPM

Max. Air Flow: 132.4 CFM (225 m³/h / 3.75 m³/min)

Max. Static Pressure: 36.71 mmH₂O (360 Pa / 1.45 inH₂O)

Noise Level: 71 dB(A)

Bearing Type: Ball Bearing

Dimensions: 80 x 80 x 38 mm

Weight: 0.200 kg

Housing Material: PBT Plastic (Glass-fiber reinforced)

Impeller Material: PA Plastic (Glass-fiber reinforced)

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

Direction of Airflow: Air exhaust over struts

Service Life L10 at 40°C: 55000 h

Service Life L10 at max temp: 27500 h

Operating Temperature: -20 to +70 °C

Storage Temperature: -40 to +80 °C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Speed Signal (Tachometer)

Motor Protection: Reverse Polarity, Locked Rotor Protection

Termination: 4-Wire Leads (AWG 24, TR 64)

Approvals: VDE, CSA, UL, CE

The 8214J/2H4P is specifically engineered for high-density electronic cooling solutions where space is constrained but thermal loads are extreme. Common deployment environments include compact server racks, telecommunications base stations, and high-frequency drive cooling systems. The robust design of the 8214J/2H4P also makes it suitable for industrial automation equipment, such as CNC machinery and medical diagnostic devices like MRI component cooling, ensuring critical components remain within safe operating temperature ranges during peak processing loads.

Supplemental Images

