

# 8214J/2H4PU-208 ebmpapst 24V 80x80x38mm DC Axial Fan

**SKU:** 8214J/2H4PU-208

**Price:** \$198.70

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/8214j-2h4pu-208-ebmpapst-24v-80x80x38mm-dc-axial-fan/>

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## Product Description

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The ebmpapst 8214J/2H4PU-208 is an ultra-high-performance 24 VDC S-Panther series DC axial fan designed for extreme industrial and telecommunications cooling. Engineered for high-backpressure environments, this 80 x 80 x 38 mm unit delivers a massive static pressure of 710 Pa at a rated speed of 14000 RPM. A key technical advantage is its Pollution Degree 3 rating, allowing reliable operation in open, unsheltered areas with direct exposure to water splash (IPX4) and salt fog, as well as temporary submersion (IPX7). The fan features a sophisticated 4-wire interface providing PWM speed control and a Tacho frequency output for precise system monitoring. Constructed from glass-fiber reinforced plastic with a high-torque three-phase motor drive, the 8214J/2H4PU-208 is the definitive thermal solution for high-density servers and outdoor electronic enclosures operating in ambient temperatures from -33 °C to 70 °C.

8214J/2H4PU-208 Fan Parameters

Model Number: 8214J/2H4PU-208

Manufacturer: ebmpapst

Series: S-Panther DC Axial Series

Type: DC Axial Fan

Dimensions: 80 x 80 x 38 mm

Weight: 0.25 kg

Bearing Type: Ball Bearing

Nominal Voltage: 24 VDC

Voltage Range: 12.0 - 27.6 VDC

Nominal Current: 1.55 A

Starting Current: 6.0 A

Power Consumption (Input): 37 W

Power Consumption (Max): 39 W

Speed: 14000 RPM

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Peak Static Pressure: 710 Pa

Optimal Operating Point: 135.0 m<sup>3</sup>/h @ 330 Pa

Sound Power Level: 8.0 Bel(A)

Sound Pressure Level: 71.0 dB(A)

Control Input: PWM (Frequency 1 kHz - 5 kHz)

Output Signal: Tacho (2 pulses per revolution)

Electrical Hookup: 4 Wires (Red: +UB; Blue: GND; Violet: PWM; White: Tacho)

Number of Blades: 5

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: Air outlet over struts

Impeller Material: Plastic (PA)

Housing Material: Plastic (PBT)

Motor Protection: Reverse polarity and locked-rotor protection (Auto-restart)

Insulation Class: Class E

Degree of Protection: IP54 / IPX4 / IPX7

Environmental Rating: Pollution degree 3

Operating Temperature: -33 - +70 °C

Service Life (L10 @ 40 °C): 50000 h

Standard Compliance: EN 60950-1, EN 60335

Approval Agency: VDE, UL, CSA, EAC

#### Application

The ebmpapst 8214J/2H4PU-208 axial fan is primarily utilized in high-performance servers, telecommunications base stations, ruggedized industrial power supplies, and high-density electronic enclosures.

## Product Images

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