

8214J/2H4 ebmpapst 24V DC Axial Fan

SKU: 8214J/2H4

Price: \$93.75

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8214j-2h4-ebmpapst-24v-dc-axial-fan/>

Product Description

The ebmpapst 8214J/2H4 is a compact DC axial fan with dimensions of 80x80x38mm. It is equipped with ball bearings and designed for air outlet over struts, rotating counterclockwise when viewed toward the rotor. This fan operates on a nominal voltage of 24VDC, with a broad operating voltage range from 12VDC to 27.6VDC. At its nominal 24VDC, it achieves a speed of 14000RPM, with a power consumption of 39.6W and a current draw of 1650mA. When operating at 12VDC, the fan reaches 8500RPM, consumes 8.8W, and draws 750mA. The maximum free-air flow is 220m³/h, and the maximum static pressure is 710Pa.

The fan's housing and impeller are both constructed from plastic. It generates a sound power level of 8.0bel(A) at its optimal operating point and a sound pressure level of 71.0dB(A) at free air. The 8214J/2H4 features speed-controlled electronic functions, reversed polarity protection via a rectifying diode, and auto-restart locked rotor protection. It also provides a Tacho output (open collector). The fan is designed for operation within ambient temperatures ranging from -25°C to 70°C, and its transport/storage temperature range is -40°C to 80°C. Electrical connection is made via wires, with a lead length of 310mm, using AWG 22 wires with 1.3mm insulation diameter. It has a Protection Class III and is approved by CE, EAC, UL (UL507), VDE (EN 60950), and CSA (C22.2 No. 113). The expected service life (L10) is 50000 hours at 40°C and 25000 hours at maximum temperature.

8214J/2H4 Fan Parameters

Model: 8214J/2H4

Manufacturer: ebmpapst

Type: DC Axial Fan

Nominal Voltage: 24 V DC

Nominal voltage range: 12 .. 27.6 V DC

Speed (at 12V): 8500 RPM

Speed (at 24V): 14000 RPM

Speed (at 27.6V): 14000 RPM
Power consumption (at 12V): 8.8 W
Power consumption (at 24V): 39.6 W
Power consumption (at 27.6V): 39.0 W
Current consumption (at 12V): 750 mA
Current consumption (at 24V): 1650 mA
Current consumption (at 27.6V): 1400 mA
Starting current consumption: ≤ 6.000 mA
Min. ambient temperature: -25 °C
Max. ambient temperature: 70 °C
Min. storage temperature: -40 °C
Max. storage temperature: 80 °C
Width: 80.0 mm
Height: 80.0 mm
Depth: 38.0 mm
Housing material: Plastic
Impeller material: Plastic
Rotating direction: Counterclockwise, looking at rotor
Airflow direction: Air outlet over struts
Bearing system: Ball bearing
Mounting position: Any
Electrical connection: Wires
Lead wire length: 310 mm
Wire size: AWG 22
Insulation diameter: 1.3 mm
Max. free-air flow: 220.0 m³/h
Max. static pressure: 710 Pa
Sound power level at optimal operating point: 8.0 bel(A)
Sound pressure level at free air flow: 71.0 dB(A)
Optimal operating point: 135.0 m³/h @ 330 Pa
Humidity requirements: Humid heat, constant
Water exposure requirements: None
Dust requirements: None
Salt fog requirements: None
Dielectric strength (Type test): 500 VAC / 1 Min.
Dielectric strength (Routine test): 850 VDC / 1 Sec.
Isolation resistance: > 10 MOhm
Clearance / creepage distance: 1.0 mm / 1.2 mm
Protection class: III
Electronic function: Speed-Controlled
Reversed polarity protection: Rectifying diode
Max. residual current at UN: ≤ 150 uA

Locked rotor protection: Auto restart

Locked rotor current at UN: approx. 6.000 mA

Tacho type: Open collector

Tacho operating voltage U_{sb} : ≤ 60.0 V

Tacho signal Low U_s low: ≤ 0.4 V

Tacho signal High U_s high: ≤ 60 V

Maximum sink current: ≤ 4 mA

Tacho isolated from motor: No

Life expectancy L10 at $T_U = 40$ °C: 50000 h

Life expectancy L10 at T_U max.: 25000 h

Life expectancy L10 acc. to IPC 9591 at 40 °C: 85000 h

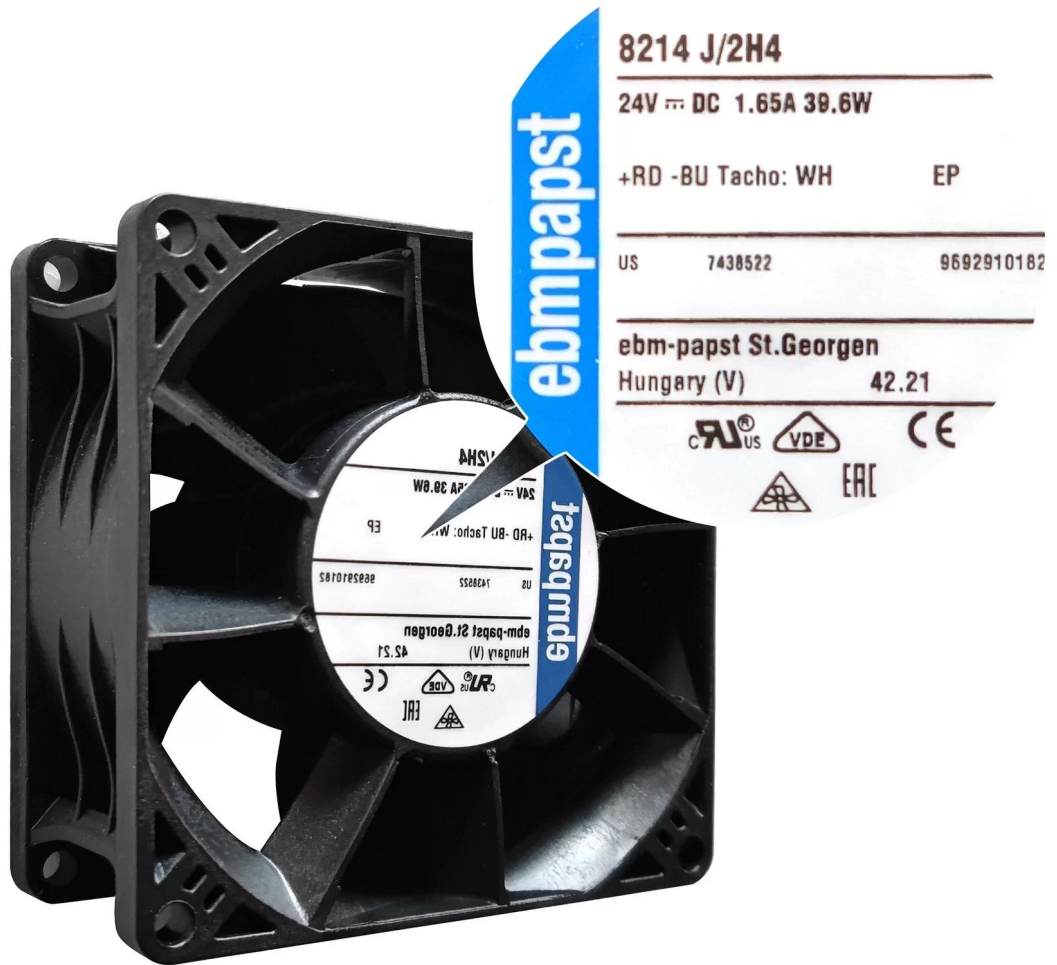
Approval: CE; EAC; UL (UL507); VDE (EN 60950); CSA (C22.2 No. 113)

Weight: 0.210 kg

Application: Sheltered rooms with controlled temperature and humidity.

Product Images







► 配件 Accessories



铁网
Guard Grille

Scan for product details:

