3214J/2H4P ebm-papst 24VDC 92x92x38mm 50W Axial Fan Datasheet

Brand: ebmpapst

SKU: 836083567147

Category: Axial & Centrifugal Fans

Price: **$203.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/3214j-2h4p-ebm-papst-24vdc-92x92x38mm-50w-axial-fan

Product Description

The ebm-papst 3214J/2H4P is a high-performance Axial Fan engineered for demanding thermal management applications requiring substantial static pressure and airflow density. This unit features an advanced electronically commutated (EC) DC motor architecture housed within a fiberglass-reinforced PBT frame, ensuring exceptional structural rigidity and vibration damping under high-speed operation. Utilizing a precision ball bearing system, the fan delivers reliable longevity and reduced friction, optimizing the 50W power profile for maximum aerodynamic efficiency. The 4-wire configuration supports precise speed control via PWM, making it ideal for systems necessitating dynamic thermal impedance regulation and rapid heat dissipation.

Model Number: 3214J/2H4P
Brand: ebm-papst
Product Type: DC Axial Fan
Series: S-Force
Rated Voltage: 24 VDC
Voltage Range: 14.0 - 26.4 VDC
Rated Current: 2.1 A
Power Input: 50 W
Rated Speed: 13000 RPM
Bearing Type: Ball Bearing

Max. Air Flow: 164.8 CFM (280 m^3/h)
Max. Static Pressure: 2.01 inH_2O (500 Pa)
Dimensions: 92 x 92 x 38 mm
Weight: 280 g
Noise Level: 73 dB(A)
Termination: 4-Wire Leads
Speed Control: PWM Control
Signal Output: Speed Signal (Tachometer)
Housing Material: PBT Plastic (Glass-fiber reinforced)
Impeller Material: PA Plastic (Glass-fiber reinforced)
Insulation Class: Class B
Operating Temperature: -20°C to +70°C
Life Expectancy: 70000 hrs @ 40°C
Protection: Reverse Polarity, Locked Rotor Protection

The 3214J/2H4P is specifically designed for industrial environments where component density creates significant airflow resistance. Common deployment scenarios include high-performance server racks, telecommunications base stations, and precision medical instrumentation requiring rapid heat dissipation. The 3214J/2H4P is also frequently utilized in CNC machinery electronics cabinets and power supply cooling, where its compact 92mm footprint and high static pressure capabilities ensure critical components remain within safe operating temperature ranges.

Supplemental Images


ebmpapst
VarioPro® 3214 J/2H4P
24V ⎓ DC 2.1A 50W
EP
+ RD - BU Tacho:WH PWM:VT
US
7438522
ebm-papst St.Georgen
Hungary (V)
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