414J/2 ebm-papst 24VDC 40x40x25mm Cooling Axial Fan Datasheet

Brand: ebmpapst

SKU: 820404064963

Category: Axial & Centrifugal Fans

Price: **$21.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/414j-2-ebm-papst-24vdc-40x40x25mm-cooling-axial-fan

Product Description

The ebm-papst 414J/2 is a compact DC axial fan engineered for high-density electronic cooling applications requiring substantial airflow in restricted spaces. Utilizing advanced electronically commutated motor technology and a precision ball bearing system, this unit delivers exceptional performance relative to its compact 40mm frame. The aerodynamic impeller design minimizes turbulence while maintaining high static pressure capabilities, ensuring efficient thermal management. Constructed with fiberglass-reinforced plastic (PBT), the housing offers superior structural rigidity and thermal impedance resistance, making it suitable for continuous operation in demanding industrial environments and power conversion systems.

Model Number: 414J/2
Brand: ebm-papst
Product Type: DC Axial Fan
Rated Voltage: 24 VDC
Voltage Range: 18.0 - 28.0 VDC
Rated Current: 0.095 A (95 mA)
Power Input: 2.3 W
Rated Speed: 10300 RPM
Max. Air Flow: 14.1 CFM (24 m^3/h)
Max. Static Pressure: 0.55 inH_2O (137 Pa)

Noise Level: 47 dB(A)
Bearing Type: Ball Bearing
Dimensions: 40 x 40 x 25 mm
Weight: 0.050 kg
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PA Plastic (UL94V-0)
Operating Temperature: -20 to +70 °C
Life Expectancy: 70,000 Hours (40°C)
Termination: 2 Wire Leads
Direction of Rotation: Counter-clockwise viewed toward rotor
Airflow Direction: Air exhaust over struts
Ingress Protection: IP20
Insulation Class: E

The 414J/2 is specifically designed for critical thermal regulation in compact electronic assemblies such as variable frequency drives (VFDs) and industrial inverters. Its high rotational speed and pressure capabilities make the 414J/2 ideal for server rack cooling, telecommunications equipment, and medical devices where space is at a premium but heat dissipation cannot be compromised. This model ensures reliable operation in automation control panels, CNC machinery, and compact power supply units requiring consistent forced convection.

Supplemental Images


414 J/2
24V⎓ DC 95mA 2.3W
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