8412N ebm-papst 12VDC 0.17A 80x80x25mm Axial Fan Datasheet

Brand: ebmpapst

SKU: 1010403905093

Category: Axial & Centrifugal Fans

Price: **$23.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/8412n-ebm-papst-12vdc-0-17a-80x80x25mm-axial-fan

Product Description

The ebm-papst 8412N is a high-reliability DC axial fan designed for precision thermal management in compact industrial and IT enclosures. Engineered with ebm-papst's proprietary Sintec sleeve bearing system, this unit offers a superior balance between operational longevity and acoustic performance. The aerodynamic impeller geometry is optimized to deliver consistent airflow while minimizing turbulence-induced noise and vibration. Featuring a robust glass-fiber reinforced PBT housing, the fan ensures structural rigidity and thermal stability. Its electronically commutated external rotor motor provides efficient energy conversion, making it an ideal solution for systems requiring low power consumption and sustained thermal impedance control.

Model Number: 8412N
Brand: ebm-papst
Product Type: DC Axial Fan
Rated Voltage: 12 VDC
Voltage Range: 8.0 - 15.0 VDC
Rated Current: 0.17 A
Power Input: 2.0 W
Rated Speed: 3100 RPM
Max. Air Flow: 46.5 CFM (79 m^3/h)
Max. Static Pressure: 4.0 mmH_2O (39 Pa)

Noise Level: 37 dB(A)
Bearing Type: Sintec Sleeve Bearing
Dimensions: 80 x 80 x 25 mm
Weight: 0.095 kg
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PA Plastic (UL94V-0)
Operating Temperature: -20 to +70 °C
Life Expectancy: 80,000 h (40°C)
Termination: 2-Wire Leads (AWG 24)
Protection: Impedance Protected, Reverse Polarity
Direction of Rotation: Counter-clockwise (viewed on rotor)
Airflow Direction: Struts to Rotor

The 8412N is extensively utilized in sectors requiring dependable continuous cooling, such as server rack ventilation and telecommunications infrastructure. In industrial automation, the 8412N serves as a critical component for cooling programmable logic controllers (PLCs) and power supply units within control cabinets. Medical devices and network routers also benefit from the compact footprint and acoustic profile of the 8412N, ensuring sensitive electronics operate within safe thermal limits without excessive noise generation.

Supplemental Images