412/2 ebmpapst 12VDC 40x40x20mm 0.08A Axial Fan Datasheet

Brand: ebmpapst

SKU: 1007692399998

Category: Axial & Centrifugal Fans

Price: **$25.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page: https://www.equipspares.com/product/412-2-ebmpapst-12vdc-40x40x20mm-0-08a-axial-fan

Product Description

The ebmpapst 412/2 is a compact DC Axial Fan engineered for precision thermal management in space-constrained industrial environments. Utilizing ebmpapst's proprietary Sintec sleeve bearing system, this unit delivers low-noise operation while maintaining structural rigidity and long-term reliability. The aerodynamic impeller design optimizes airflow efficiency against system impedance, ensuring consistent thermal dissipation. A distinguishing feature of this specific configuration is the integrated temperature sensor within the 3-wire interface, allowing for dynamic thermal monitoring and responsive cooling adjustments essential for sensitive electronic components.

Model Number: 412/2
Brand: ebmpapst
Product Type: DC Axial Fan
Rated Voltage: 12VDC
Voltage Range: 10.0 - 14.0 VDC
Rated Current: 0.08 A
Power Input: 1.0 W
Rated Speed: 6000 RPM
Max. Air Flow: 5.9 CFM (10 m^3/h / 0.17 m^3/min)
Max. Static Pressure: 0.12 inH_2O (30 Pa)
Dimensions: 40 x 40 x 20 mm
Weight: 0.027 kg

Bearing Type: Sintec Sleeve Bearing
Life Expectancy: 50,000 hrs at 20°C
Noise Level: 18 dB(A)
Termination: 3-Wire Leads
Sensor Type: Integrated Temperature Sensor
Housing Material: PBT Plastic (UL94V-0)
Impeller Material: PA Plastic (UL94V-0)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Direction of Rotation: Counter-clockwise viewed toward rotor
Airflow Direction: Air exhaust over struts
Motor Protection: Impedance Protected
Origin: Germany

Designed for high-density electronic assemblies, the 412/2 ensures optimal operating temperatures for critical components. Common deployment scenarios include cooling specific hotspots on printed circuit boards, ventilating compact sensor housings, and thermal regulation in medical diagnostic devices. The 412/2 is also frequently utilized in telecommunications equipment where localized airflow is required to prevent thermal throttling. Its compact footprint allows the 412/2 to integrate seamlessly into existing industrial architectures without requiring significant chassis modification.