614N/2HH-248 ebmpapst 24VDC 60x25mm Sensor Axial Fan Datasheet

Brand: ebmpapst

SKU: 898234701517

Category: Axial & Centrifugal Fans

Price: **$55.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/614n-2hh-248-ebmpapst-24vdc-60x25mm-sensor-axial-fan

Product Description

The ebmpapst 614N/2HH-248 is a high-efficiency DC Axial Fan engineered for critical thermal management in industrial electronics and automation systems. This unit features an advanced electronically commutated external rotor motor integrated with a precision ball bearing system, ensuring low thermal impedance and extended operational longevity under continuous loads. The aerodynamic impeller and housing are constructed from glass-fiber reinforced plastic (PBT), providing exceptional structural rigidity and vibration damping properties. Designed with a 3-wire tachometer sensor output, the fan enables real-time speed monitoring, making it ideal for feedback-controlled cooling circuits requiring high reliability and consistent airflow performance.

Model Number: 614N/2HH-248
Brand: ebmpapst
Product Type: DC Axial Fan
Rated Voltage: 24 VDC
Voltage Range: 18.0 - 28.0 VDC
Rated Current: 0.15 A (150 mA)
Power Consumption: 3.6 W
Rated Speed: 5100 RPM
Bearing Type: Ball Bearing System
Max. Air Flow: 41.2 CFM (70 m^3/h / 1.17 m^3/min)

Max. Static Pressure: 0.36 inH_2O (90 Pa)
Dimensions: 60 x 60 x 25 mm
Weight: 66 g
Noise Level: 43 dB(A)
Life Expectancy: 70,000 Hours at 40°C
Termination: 3-Wire (Red +, Blue -, White Sensor)
Speed Control: Tachometer Output (Speed Sensor)
Housing Material: Glass-fiber reinforced PBT plastic (UL94V-0)
Impeller Material: Glass-fiber reinforced PA plastic (UL94V-0)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Direction of Rotation: Clockwise (viewed toward rotor)
Airflow Direction: Exhaust over struts
Motor Protection: Reverse Polarity Protection, Locked Rotor Protection
Approvals: VDE, CSA, UL, CE

The 614N/2HH-248 is extensively utilized in variable frequency drives (VFDs) and industrial inverters where consistent airflow is paramount for component stability. Its compact footprint allows for seamless integration into high-density server racks, telecommunications equipment, and precision medical devices requiring reliable thermal dissipation. Engineers frequently specify the 614N/2HH-248 for CNC control panels and power supply units, leveraging its integrated sensor signal to prevent thermal shutdowns through active speed monitoring.

Supplemental Images