8414N EBM-papst 24VDC 80x80x25mm 40.6CFM Axial Fan Datasheet

Brand: ebmpapst

SKU: 679980650629

Category: Axial & Centrifugal Fans

Price: **$74.99**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/8414n-ebm-papst-24vdc-80x80x25mm-40-6cfm-axial-fan

Product Description

The EBM-papst 8414N is a precision-engineered DC axial fan designed for critical thermal management in industrial and medical applications. Featuring an advanced aerodynamic impeller housed within a fiberglass-reinforced PBT frame, this unit optimizes airflow while minimizing structural vibration and acoustic noise. The motor utilizes EBM-papst's proprietary Sintec bearing system to ensure long-term reliability and consistent performance under continuous operation. With a compact form factor and efficient power consumption, the 8414N delivers superior static pressure capabilities, effectively reducing thermal impedance in high-density electronic enclosures and variable frequency drive systems.

Model Number: 8414N
Brand: EBM-papst
Product Type: DC Axial Fan
Rated Voltage: 24VDC
Voltage Range: 18.0 - 28.0 VDC
Rated Current: 0.085 A (85mA)
Power Consumption: 2.0 W
Rated Speed: 3100 RPM
Bearing Type: Sintec Sleeve Bearing System
Max. Air Flow: 40.6 CFM (69 m^3/h / 1.15 m^3/min)

Max. Static Pressure: 4.0 mmH_2O (39.2 Pa / 0.16 inH_2O)
Dimensions: 80 x 80 x 25 mm
Weight: 0.095 kg (95g)
Life Expectancy: 80,000 Hours at 40°C
Noise Level: 32 dB(A)
Housing Material: PBT Plastic, Fiberglass-reinforced (UL94V-0)
Impeller Material: PA Plastic, Fiberglass-reinforced (UL94V-0)
Termination: 2 Lead Wires (Red/Blue)
Operating Temperature: -20°C to +70°C
Storage Temperature: -40°C to +80°C
Ingress Protection: IP20
Insulation Class: E
Motor Protection: Impedance Protected, Reverse Polarity Protection
Direction of Rotation: Counter-clockwise (viewed toward rotor)
Airflow Direction: Air exhaust over struts

Engineered for versatility, the 8414N is frequently integrated into variable frequency drive inverters and precision medical instrumentation where consistent cooling is paramount. Its compact footprint allows for seamless installation in server racks, telecommunications equipment, and CNC control panels. The 8414N maintains optimal operating temperatures for sensitive components, ensuring system longevity in demanding industrial environments.

Supplemental Images


8414 N
24V ⎓ DC 85mA 2.0W EP
(18 - 28V ⎓ DC)
+ RD - BU
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ebm-papst St.Georgen
Hungary (V) 28.20