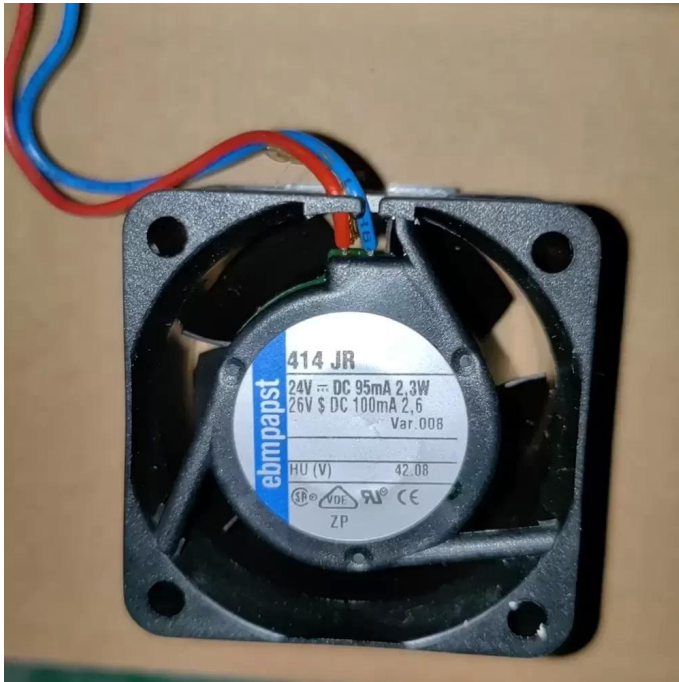


414JR ebm-papst 24VDC 40x40x25mm Compact Axial Fan Datasheet



Brand: ebmpapst

SKU: 748607154938

Category: Axial & Centrifugal Fans

Price: \$21.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/414jr-ebm-papst-24vdc-40x40x25mm-compact-axial-fan>

Product Description

The ebm-papst 414JR is a compact DC Axial Fan engineered for high-density thermal management applications requiring precise airflow control. Utilizing advanced brushless DC motor technology, this unit optimizes aerodynamic efficiency while minimizing power consumption at 2.3W. The chassis is constructed from fiberglass-reinforced plastic (PBT), ensuring structural rigidity and resistance to thermal deformation under continuous load. Equipped with a precision ball bearing system, the 414JR delivers consistent airflow performance and reduced mechanical friction, significantly lowering thermal impedance in critical electronic enclosures. Its design prioritizes longevity and reliability, making it an ideal solution for continuous operation in demanding industrial environments where stable cooling is paramount.

Model Number: 414JR

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 Consumption: 2.3 W

Rated Speed: 6800 RPM

Max. Air Flow: 13.5 CFM (22.9 m³/h / 0.38 m³/min)

Max. Static Pressure: 8.16 mmH₂O (80 Pa / 0.32 inH₂O)

Dimensions: 40 x 40 x 25 mm

Weight: 0.050 kg

Bearing Type: Ball Bearing

Noise Level: 39 dB(A)

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

Life Expectancy: 70,000 Hours (at 40°C)

Termination: Lead Wires

Direction of Rotation: Counter-clockwise (viewed toward rotor)

Airflow Direction: Air exhaust over struts

Motor Protection: Impedance Protected, Reverse Polarity Protection

The 414JR is extensively utilized in precision electronic cooling scenarios, particularly within variable frequency drive (VFD) inverters and compact server architectures. Its compact footprint allows for seamless integration into high-density telecommunications equipment and industrial automation control panels. Engineers frequently specify the 414JR for medical instrumentation and CNC machinery where reliable heat dissipation is critical to prevent component failure, ensuring system stability across extended operational cycles.

Supplemental Images

