

4414FN/2HP-183 ebmpapst 24VDC 119x119x25mm Axial Fan Datasheet



Brand: ebmpapst

SKU: 898230625704

Category: Axial & Centrifugal Fans

Price: **\$111.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/4414fn-2hp-183-ebmpapst-24vdc-119x119x25mm-axial-fan>

Product Description

The ebmpapst 4414FN/2HP-183 is a precision-engineered DC axial fan designed for demanding thermal management applications requiring substantial airflow delivery within a compact footprint. Utilizing advanced commutation electronics and an aerodynamically optimized impeller, this unit minimizes thermal impedance while maintaining exceptional structural rigidity through its fiberglass-reinforced PBT housing. The motor architecture integrates durable ball bearings to ensure longevity under continuous operation, effectively balancing high static pressure capabilities with reliable rotational stability. This specific configuration is tailored for systems necessitating robust cooling performance and includes a tachometer signal for precise speed monitoring.

Model Number: 4414FN/2HP-183

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Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 18.0 - 26.4 VDC

Rated Current: 500 mA (0.5 A)

Power Consumption: 12 W

Rated Speed: 5400 RPM

Max. Air Flow: 105.9 CFM (180 m³/h / 3.0 m³/min)

Max. Static Pressure: 10.2 mmH₂O (100 Pa / 0.40 inH₂O)

Dimensions: 119 x 119 x 25 mm

Bearing Type: Ball Bearing

Noise Level: 55 dB(A)

Service Life L10 at 40°C: 60,000 Hours

Operating Temperature: -20°C to +70°C

Weight: 240 g (0.53 lbs)

Housing Material: PBT Plastic (Fiberglass-reinforced)

Impeller Material: PA Plastic (Fiberglass-reinforced)

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

Airflow Direction: Struts to Air Outlet

Termination: 3-Wire Leads (TR 64)

Speed Control: Tachometer Output (Frequency Generator /2)

Motor Protection: Reverse Polarity Protection; Locked Rotor Protection

Approvals: VDE, CSA, UL, CE

Engineered for high-density electronic environments, the 4414FN/2HP-183 serves as a critical component in forced-air cooling architectures such as telecommunications base stations and industrial automation control cabinets. Its compact form factor allows for seamless integration into rack-mounted server chassis where space is at a premium but heat dissipation cannot be compromised. Additionally, the 4414FN/2HP-183 is frequently utilized in medical diagnostic equipment and high-load power supply units, ensuring consistent thermal regulation to prevent component degradation during extended duty cycles.

Supplemental Images

