

4418H ebm-papst 48VDC 119x119x38mm Cooling Axial Fan Datasheet



Brand: ebmpapst

SKU: 831639150052

Category: Axial & Centrifugal Fans

Price: **\$146.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/4418h-ebm-papst-48vdc-119x119x38mm-cooling-axial-fan>

Product Description

The ebm-papst 4418H is a precision-engineered axial fan designed for critical thermal management in industrial environments. Utilizing advanced DC motor technology, this unit delivers exceptional aerodynamic efficiency while maintaining structural rigidity through its fiberglass-reinforced plastic housing. The rotor geometry is optimized to minimize turbulence and reduce thermal impedance, ensuring consistent heat dissipation under high static pressure loads. Engineered for longevity, the 4418H integrates a robust bearing architecture that withstands continuous operation, making it a reliable solution for demanding electronic cooling applications requiring stable airflow and electromagnetic compatibility.

Model Number: 4418H

Brand: ebm-papst

Product Type: Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 60.0 VDC

Rated Current: 0.18 A

Power Input: 8.6 W

Rated Speed: 4300 RPM

Max. Air Flow: 100.0 CFM (170 m³/h / 2.83 m³/min)

Max. Static Pressure: 9.18 mmH₂O (90 Pa / 0.36 inH₂O)

Dimensions: 119 x 119 x 38 mm

Weight: 0.27 kg

Bearing Type: Ball Bearing

Noise Level: 50 dB(A)

Life Expectancy: 70,000 Hours at 40°C

Housing Material: PBT Plastic (Fiberglass Reinforced)

Impeller Material: PA Plastic (Fiberglass Reinforced)

Operating Temperature: -20°C to +70°C

Storage Temperature: -40°C to +80°C

Termination: 2 Wire Leads (AWG 24, TR 64)

Ingress Protection: IP20

Insulation Class: Class E

Motor Protection: Impedance Protected / Reverse Polarity Protection

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Exhaust Over Struts

Origin: Hungary

The 4418H is extensively utilized in telecommunications infrastructure and server cabinet cooling systems where reliability is paramount. Its compact form factor allows for seamless integration into high-density electronic enclosures, ensuring optimal operating temperatures for sensitive components. Additionally, the 4418H serves as a critical cooling component in industrial automation control panels and medical instrumentation, providing consistent airflow to prevent thermal throttling in continuous-duty cycles.

Supplemental Images

