

4418H ebmpapst 48V 0.18A 8.6W 119mm 12038 DC Axial Fan

SKU: 4418H

Price: \$84.75

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/4418h-ebmpapst-48v-0-18a-8-6w-119mm-12038-dc-axial-fan/>

Product Description

The ebmpapst 4418H is a high-performance 48V DC Axial Fan with dimensions of 119 x 119 x 38 mm, engineered for powerful cooling in demanding electronic environments. Operating within a wide voltage range of 36-60 VDC, this unit delivers a substantial airflow of 240 m³/h (141.3 CFM) at a rated speed of 4300 RPM. Optimized for high-velocity heat dissipation, it consumes 8.6 W with a current draw of 0.18 A. The fan features a glass-fiber reinforced PBT plastic housing and a PA plastic impeller, utilizing a high-precision ball bearing system for a service life of 57,500 hours at 40 °C. Equipped with integrated electronic protection against reverse polarity and blocked-rotor conditions, the 4418H is a mission-critical thermal management solution for 48V telecommunications racks, high-capacity power supplies, and industrial server enclosures.

4418H Fan Parameters

Manufacturer: ebmpapst

Model Number: 4418H

Motor Design: Brushless DC Motor

Type: DC Axial Fan

Nominal Voltage: 48 VDC

Nominal Voltage Range: 36 .. 60 VDC

Dimensions: 119 x 119 x 38 mm

Impeller Size: 119 mm

Number of Blades: 5

Weight: 0.250 kg

[Electrical Data]

Nominal Speed: 4300 RPM

Power Consumption: 8.6 W

Current Draw: 0.18 A

Termination: Leads AWG 24, TR 64, stripped and tin-plated

Motor Bearing: Ball bearing

Motor Protection: Protection against reverse polarity and blocked rotor

[Performance & Acoustics]

Air Flow: 240 m³/h (141.3 CFM)

Max. Static Pressure: 165 Pa (0.66 inAq)

Sound Power Level: 6.0 B

Sound Pressure Level: 50 dB(A)

Direction of Rotation: Clockwise (looking at rotor)

Airflow Direction: Exhaust over struts

[Materials & Construction]

Housing Material: Glass-fiber reinforced PBT plastic

Impeller Material: Glass-fiber reinforced PA plastic

Mounting Position: Any

[Reliability & Protection]

Service Life (L10 at 40 °C): 57500 h

Service Life (L10 at Tmax): 27500 h

Min. Ambient Temperature: -20 °C

Max. Ambient Temperature: 70 °C

Approval: VDE, CSA, UL, CE

[Options]

Available custom designs: Control inputs, alarm signals, and speed signals.

[Application]

The ebmpapst 4418H is specifically designed for high-performance 48V DC telecommunications and industrial applications where substantial airflow must overcome high system impedance within a standard 119mm square footprint. Its 4300 RPM speed and 38mm depth provide the necessary aerodynamic force for cooling high-density server racks, network switches, and industrial frequency inverters, while the glass-fiber reinforced construction and robust ball bearing system ensure reliable 24/7 operation in environments up to 70 °C.

Product Images







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