

# 3418N/39HHU ebm-papst 48VDC 92x92x25mm Axial Fan Datasheet



**Brand:** ebmpapst

**SKU:** 771530941959

**Category:** Axial & Centrifugal Fans

**Price:** **\$64.99**

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Product Page:

<https://www.equipspares.com/product/3418n-39hhu-ebm-papst-48vdc-92x92x25mm-axial-fan>

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## Product Description

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The ebm-papst 3418N/39HHU is a high-reliability DC axial fan engineered for demanding industrial environments requiring robust thermal management and superior ingress protection. Utilizing an advanced external rotor motor design paired with maintenance-free ball bearings, this unit ensures consistent airflow delivery while minimizing thermal impedance across the system. The fan features a fully encapsulated motor assembly, providing IP68-rated protection against moisture, dust, and salt spray, making it ideal for harsh operational conditions. Its aerodynamic impeller geometry is optimized for high static pressure generation, ensuring structural rigidity and efficient cooling performance even under significant backpressure. The housing is constructed from fiberglass-reinforced plastic, offering exceptional durability and resistance to environmental stress while maintaining a compact footprint.

Model Number: 3418N/39HHU

Brand: ebm-papst

Product Type: DC Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36 - 56 VDC

Power Input: 5.8 W

Rated Current: 0.12 A

Rated Speed: 3650 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 76.5 CFM (130 m<sup>3</sup>/h / 2.17 m<sup>3</sup>/min)

Max. Static Pressure: 9.1 mmH<sub>2</sub>O (90 Pa / 0.36 inH<sub>2</sub>O)

Dimensions: 92 x 92 x 25 mm

Weight: 0.10 kg

Life Expectancy: 70,000 hours (L10 at 40°C)

Ingress Protection: IP68 (Fully Encapsulated/Waterproof)

Noise Level: 42 dB(A)

Housing Material: Fiberglass-reinforced PBT plastic (UL94V-0)

Impeller Material: Fiberglass-reinforced PA plastic (UL94V-0)

Direction of Rotation: Counter-clockwise viewed over struts

Airflow Direction: Air exhaust over struts

Operating Temperature: -20°C to +70°C

Storage Temperature: -40°C to +80°C

Termination: 3 Wire Leads (AWG 24, TR 64)

Motor Protection: Reverse Polarity Protection, Locked Rotor Protection

Approvals: VDE, CSA, UL, CE

Designed for reliability in challenging environments, the 3418N/39HHU is frequently deployed in telecommunications infrastructure, outdoor cabinet cooling, and industrial automation systems where moisture resistance is critical. The robust IP68 rating allows the 3418N/39HHU to operate effectively in renewable energy inverters and marine electronics, ensuring components remain within safe thermal limits despite exposure to humidity or dust. Its compact form factor also suits high-density server racks and power supply units requiring consistent airflow.

## Supplemental Images

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