

4118N/12-190 ebmpapst 48VDC 119x119x38mm 4.5W Axial Fan Datasheet



Brand: ebmpapst

SKU: 1017064496132

Category: Axial & Centrifugal Fans

Price: **\$46.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/4118n-12-190-ebmpapst-48vdc-119x119x38mm-4-5w-axial-fan>

Product Description

The ebmpapst 4118N/12-190 is a high-efficiency Axial Fan designed for robust thermal management in industrial and telecommunications environments. Engineered with advanced DC motor technology and a durable ball bearing architecture, this unit ensures consistent airflow performance while maintaining structural rigidity under continuous operation. The aerodynamic blade design minimizes turbulence and acoustic noise, optimizing the thermal impedance of the system. Featuring a wide voltage range and integrated electronic commutation, the 4118N/12-190 delivers reliable cooling for critical electronic components requiring sustained air exchange.

Model Number: 4118N/12-190

Brand: ebmpapst

Product Type: Axial Fan

Rated Voltage: 48 VDC

Voltage Range: 36.0 - 72.0 VDC

Rated Current: 94 mA

Power Consumption: 4.5 W

Rated Speed: 2900 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 106 CFM (180 m³/h)

Max. Static Pressure: 9.81 mmH₂O (96 Pa)

Dimensions: 119 x 119 x 38 mm

Weight: 0.25 kg

Termination: 3-Wire (Lead wires)

Signal Output: Speed Signal / Tachometer

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

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

Operating Temperature: -20 to +65 °C

Storage Temperature: -40 to +80 °C

Life Expectancy: 80,000 Hours (40°C)

Ingress Protection: IP20

Insulation Class: E

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Exhaust over struts

The 4118N/12-190 is frequently utilized in high-density server racks, telecommunications base stations, and industrial automation control panels where reliable heat dissipation is critical. Its robust 48VDC architecture makes it ideal for power supply units and network infrastructure equipment. Additionally, the 4118N/12-190 serves as a vital component in medical instrumentation and CNC machinery electronics, ensuring optimal operating temperatures for sensitive circuitry.

Supplemental Images
