

# 4550N ebmpapst 230VAC 119x119x38mm Metal Axial Fan Datasheet



**Brand:** ebmpapst

**SKU:** [898229937253](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$51.99**

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Product Page:

<https://www.equipspares.com/product/4550n-ebmpapst-230vac-119x119x38mm-metal-axial-fan>

## Product Description

The ebmpapst 4550N is a robust AC Axial Fan engineered for demanding industrial thermal management applications. Utilizing an advanced external rotor shaded-pole motor, this unit delivers consistent aerodynamic performance while maintaining exceptional structural rigidity through its all-metal die-cast aluminum housing and sheet steel impeller construction. The design optimizes airflow dynamics to minimize thermal impedance within high-density enclosures. Featuring a sinusoidal intake strut configuration, the 4550N ensures acoustic stability and operational longevity, making it a critical component for systems requiring reliable heat dissipation under continuous duty cycles.

Model Number: 4550N

Brand: ebmpapst

Product Type: AC Axial Fan

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Voltage Range: 207 - 253 VAC

Rated Current: 0.10 / 0.09 A (100 / 90 mA)

Power Input: 16.5 / 15.0 W

Power Output: 5.4 / 5.1 W

Rated Speed: 2550 / 3000 RPM

Max. Air Flow: 94.1 / 105.9 CFM (160 / 180 m<sup>3</sup>/h)

Max. Static Pressure: 0.30 / 0.34 inH<sub>2</sub>O (75 / 85 Pa)

Dimensions: 119 x 119 x 38 mm

Weight: 0.550 kg (1.21 lbs)

Bearing Type: Sintec Sleeve Bearing

Life Expectancy (L10 at 40°C): 37,500 Hours

Noise Level: 44 / 48 dB(A)

Housing Material: Die-cast Aluminum

Impeller Material: Sheet Steel (welded directly to rotor)

Ingress Protection: IP20

Insulation Class: E

Motor Protection: Impedance Protected

Operating Temperature: -10°C to +55°C

Mounting Orientation: Any

Termination: 2 Flat Plugs 2.8 x 0.5 mm

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Intake over struts

Certifications: VDE, CSA, UL, CE

This cooling solution is extensively utilized in industrial automation and telecommunications infrastructure where reliable air exchange is paramount. The 4550N is frequently integrated into server rack cooling modules, CNC machine control cabinets, and power supply units requiring consistent thermal regulation. Additionally, the 4550N serves as a vital component in medical instrumentation and photovoltaic inverters, ensuring critical electronics operate within safe temperature ranges to prevent thermal throttling or component failure.

## Supplemental Images

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