

4650N EBM-Papst 230VAC 119x119x38mm IP20 Axial Fan Datasheet



Brand: ebmpapst

SKU: 887768243803

Category: Axial & Centrifugal Fans

Price: \$36.99

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Product Page:

<https://www.equipspares.com/product/4650n-ebm-papst-230vac-119x119x38mm-ip20-axial-fan>

Product Description

The EBM-Papst 4650N is a robust AC Axial Fan engineered for demanding thermal management applications requiring consistent airflow delivery and structural integrity. Utilizing an advanced external rotor shaded-pole motor, this unit ensures optimal thermal impedance and operational efficiency across dual frequency ranges. The construction features a die-cast aluminum housing providing superior structural rigidity, paired with a sheet steel impeller for long-term durability. Integrated impedance protection safeguards the motor against overload conditions, while the precision-engineered Sintec sleeve bearing system facilitates low-noise operation and extended service life in industrial environments.

Model Number: 4650N

Brand: EBM-Papst

Product Type: AC Axial Fan

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Rated Current: 0.12 / 0.11 A (120 / 110 mA)

Power Input: 19 / 18 W

Rated Speed: 2600 / 2950 RPM

Max. Air Flow: 94.1 CFM (160 m³/h)

Max. Static Pressure: 80 Pa (0.32 inH₂O)

Bearing Type: Sintec Sleeve Bearing

Dimensions: 119 x 119 x 38 mm

Weight: 0.55 kg

Noise Level: 46 / 50 dB(A)

Housing Material: Die-Cast Aluminum

Impeller Material: Sheet Steel, Painted Black

Ingress Protection: IP20

Insulation Class: Class E

Motor Protection: Impedance Protected

Operating Temperature: -10 to +55 °C

Life Expectancy: 37,500 Hours (40°C)

Termination: 2 Flat Plugs 2.8 x 0.5 mm

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Intake over struts

The 4650N is specifically calibrated for integration into industrial automation control cabinets, server rack cooling systems, and power supply units where reliable heat dissipation is critical. Its robust metal construction makes the 4650N ideal for CNC machinery ventilation, medical instrumentation, and telecommunications infrastructure, ensuring continuous operation in environments with moderate ingress risks.

Supplemental Images

