

4856Z ebm-papst 230VAC 119x119x38mm Metal Axial Fan Datasheet



Brand: ebmpapst

SKU: 897513879686

Category: Axial & Centrifugal Fans

Price: \$55.99

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Product Page:

<https://www.equipspares.com/product/4856z-ebm-papst-230vac-119x119x38mm-metal-axial-fan>

Product Description

The ebm-papst 4856Z is a robust AC Axial Fan engineered for industrial applications requiring consistent thermal management and long-term reliability. Utilizing an advanced external rotor shaded-pole motor, this unit delivers reliable airflow while maintaining low noise levels through optimized aerodynamic blade geometry. The die-cast aluminum housing ensures exceptional structural rigidity and heat dissipation, effectively lowering thermal impedance during continuous operation. Designed with impedance protection against overloading, the 4856Z offers superior longevity and stability in fluctuating electrical environments. Its precise balancing and high-quality sinusoidal air intake design minimize vibration, making it an ideal solution for sensitive electronic cooling environments where acoustic signature and durability are paramount.

Model Number: 4856Z

Brand: ebm-papst

Product Type: AC Axial Fan

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Voltage Range: 207 - 253 VAC

Rated Current: 80 / 70 mA

Power Consumption: 13 / 12 W

Output Power: 3.9 / 3.6 W

Rated Speed: 1700 / 1800 RPM
Max. Air Flow: 58.8 CFM (100 m³/h / 1.66 m³/min)
Max. Static Pressure: 4.01 mmH₂O (39 Pa / 0.16 inH₂O)
Dimensions: 119 x 119 x 38 mm
Weight: 0.540 kg
Bearing Type: Sintec Sleeve Bearing
Noise Level: 37 / 39 dB(A)
Life Expectancy: 60,000 Hours (40°C)
Housing Material: Die-cast Aluminum
Impeller Material: Sheet Steel, Painted Black
Ingress Protection: IP20
Insulation Class: Class E
Motor Protection: Impedance Protected
Mounting Orientation: Any
Flow Direction: Intake over struts
Termination: 2 Flat Plugs 2.8 x 0.5 mm
Operating Temperature: -10°C to +65°C
Approvals: VDE, CSA, UL, CE
Origin: Germany

The 4856Z is frequently deployed in industrial automation sectors, specifically within control cabinet cooling systems where reliable AC power is standard. Its robust metal construction makes the 4856Z suitable for harsh environments found in CNC machinery and power supply units. Additionally, this model serves critical roles in photonic devices, medical equipment, and heat exchangers, ensuring optimal operating temperatures for sensitive components while fitting standard 120mm mounting footprints.

Supplemental Images

