

4656EA-021 ebmpapst 230V 19/18W AC Axial Fan

SKU: 4656EA-021

Price: \$87.50

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/4656ea-021-ebmpapst-230v-19-18w-ac-axial-fan/>

Product Description

The ebmpapst 4656EA-021 is a high-performance AC Axial Fan with dimensions of 110 x 39 mm. This premium fan operates on a nominal 230 VAC supply and is distinguished by its "Full Metal" construction, utilizing a die-cast aluminum housing and a sheet steel impeller for maximum heat resistance and structural rigidity. Delivering a maximum airflow of 105.9 CFM (180 m³/h) at 60 Hz, it is equipped with a high-endurance ball bearing system and an external rotor motor with an output power up to 5.4 W. This model is specifically engineered for high-stress industrial environments, such as power electronics and telecommunications, where it provides superior reliability, IP20 protection, and consistent performance across a wide operating temperature range from -40 °C to +85 °C.

4656EA-021 Fan Parameters

Manufacturer: ebmpapst

Model Number: 4656EA-021

Type: AC Axial Fan

Dimensions: 110 x 39 mm

Nominal Voltage: 230 VAC

Operating Voltage Range: 180 to 250 VAC

Frequency: 50 / 60 Hz

Speed: 2550 / 2900 RPM

Power Input: 19.0 / 18.0 W

Output Power: 5.27 / 5.4 W

Rated Current: 120 mA (50 Hz) / 115 mA (60 Hz)

Max. Airflow: 94.2 CFM (160 m³/h) / 105.9 CFM (180 m³/h)

Max. Static Pressure: 80 Pa (0.32 inAq) / 95 Pa (0.38 inAq)

Noise Level: 44.0 / 48.0 dB(A)

Sound Power Level: 5.4 / 5.7 B

Weight: 550 g

Impeller Size: 110 mm

Termination: 2 Wire Leads (AWG 22, TR 64, 310 mm length)

Bearing Type: Ball Bearing

Housing Material: Die-cast aluminum

Impeller Material: Sheet steel, painted black

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Air intake over struts

Degree of Protection: IP20

Insulation Class: B

Life Expectancy (L10): 37,500 h (50 Hz) / 40,000 h (60 Hz) at 40 °C

Life Expectancy at Max Temp: 15,000 h at 85 °C

Safety Protections: Impedance protection against locked rotor

Approvals: VDE, CSA, UL, CE, CCC (GB 12350)

Application

The 4656EA-021 is specialized for extreme-duty industrial cooling where plastic components are unsuitable due to high ambient temperatures or mechanical stress. Its all-metal design makes it ideal for use in industrial ovens, large-scale motor drives, and high-capacity power distribution units (PDU). The ball bearing system allows for installation in any orientation, making it a versatile choice for rack-mounted IT infrastructure, professional stage lighting, and telecommunications base stations. With its wide operating temperature range and robust external rotor motor, it ensures mission-critical cooling in environments ranging from sub-zero outdoor cabinets to high-heat industrial processing plants.

Product Images







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