

W2E142-BB01-01 ebm-papst 230VAC 172x150x38mm Metal Axial Fan Datasheet



Brand: ebmpapst

SKU: 734187700978

Category: Axial & Centrifugal Fans

Price: **\$133.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/w2e142-bb01-01-ebm-papst-230vac-172x150x38mm-metal-axial-fan>

Product Description

The ebm-papst W2E142-BB01-01 is a robust AC axial fan engineered for demanding industrial environments requiring high thermal impedance management. Featuring an advanced external rotor motor design integrated into a die-cast aluminum housing, this unit ensures exceptional structural rigidity and vibration damping. The impeller, crafted from sheet steel and directly welded to the rotor, optimizes aerodynamic efficiency and airflow stability under high back-pressure conditions. Designed for continuous operation, it utilizes precision ball bearings to maintain reliability under elevated temperatures up to 80°C. This configuration minimizes mechanical stress while maximizing air throughput, making it an ideal solution for critical cooling applications where durability is paramount.

Model Number: W2E142-BB01-01

Brand: ebm-papst

Product Type: AC Axial Fan

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Voltage Range: 207 - 253 VAC

Rated Current: 0.12 / 0.11 A

Power Consumption: 27 / 28 W

Rated Speed: 2800 / 3350 RPM

Max. Air Flow: 229.5 CFM (390 m³/h)

Max. Static Pressure: 0.60 inH₂O (150 Pa)

Noise Level: 57 / 61 dB(A)

Bearing Type: Ball Bearing

Dimensions: 172 x 150 x 38 mm

Weight: 0.80 kg

Housing Material: Die-cast Aluminum

Impeller Material: Sheet Steel, painted black

Direction of Rotation: Counter-clockwise (viewed toward rotor)

Airflow Direction: Intake over struts

Operating Temperature: -25 to +80 °C

Storage Temperature: -40 to +80 °C

Life Expectancy (L10 at 40°C): 60,000 hours

Insulation Class: Class B

Motor Protection: Thermal Overload Protector (TOP) wired internally

Ingress Protection: IP20

Termination: 2 Flat Plugs 2.8 x 0.5 mm

Capacitor: 1.0 µF / 400 VDB (Required)

Approvals: VDE, CSA, UL, CE

The W2E142-BB01-01 is specifically calibrated for high-reliability sectors such as Uninterruptible Power Supply (UPS) systems and industrial cabinet cooling where consistent thermal regulation is mandatory. Its all-metal construction allows for deployment in harsh environments including CNC machinery control panels, welding equipment, and heavy-duty telecommunications infrastructure. By integrating the W2E142-BB01-01 into power electronics and server rack assemblies, operators ensure sustained performance and longevity of sensitive components subject to high heat loads.

Supplemental Images

