

W2D160-EB22-12 ebmpapst 400/480V 160mm AC Axial Fan

SKU: W2D160-EB22-12

Price: \$694.25

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w2d160-eb22-12-ebmpapst-400-480v-160mm-ac-axial-fan/>

Product Description

The ebmpapst W2D160-EB22-12 is a high-performance industrial AC axial fan with a nominal voltage of 400/480 VAC and an impeller size of 160 mm, specifically engineered for demanding thermal management in industrial control cabinets and power electronics. Driven by a robust three-phase M2D068-BC external rotor motor with a power consumption of 44 W at 400 VAC (50 Hz) and 58 W at 480 VAC (60 Hz) in a Star (Y) connection, this unit features a heavy-duty ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 5 black-coated sheet steel blades delivers a powerful airflow at a rated speed of 3350 RPM at 60 Hz, maintaining effective air circulation in high-density electronic enclosures. Constructed with a black-coated die-cast aluminium housing and a phosphated steel guard grille (RAL 9005), this 3.4 kg fan provides a dependable and rugged cooling solution with IP54 protection and Class F insulation for industrial power supplies, medical imaging systems, and telecommunications infrastructure at the end.

W2D160-EB22-12 Fan Parameters

Model Number: W2D160-EB22-12

Manufacturer: ebmpapst

Motor Model: M2D068-BC

Series: W Series

Type: AC Axial Fan

Impeller Size: 160 mm

Weight: 3.4 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC / 480 VAC (3-phase)

Wiring: Star (Y)

Frequency: 50 / 60 Hz

Power Consumption: 44 W (50 Hz) / 58 W (60 Hz)

Nominal Current: 0.15 A (50 Hz) / 0.16 A (60 Hz)

Speed: 2800 RPM (50 Hz) / 3350 RPM (60 Hz)

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Motor Design: Three-phase AC external rotor motor

Insulation Class: Class F

Electrical Hookup: Lateral cable

Number of Blades: 5

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts; AS-BS)

Impeller Material: Sheet steel, coated in black

Housing Material: Die-cast aluminium, coated in black

Guard Grille Material: Die-cast aluminium; steel, phosphated and coated in black plastic (RAL 9005)

Installation Position: Shaft horizontal

Degree of Protection: IP54

Humidity Class: F2-2

Operating Temperature: -25 °C (Min. ambient)

Storage Temperature: -15 - +60 °C

Standard Compliance: EN 60335-1

Approval Agency: UL 1004-1; CSA C22.2 No. 100

Application

The ebmpapst W2D160-EB22-12 AC fan is primarily utilized in industrial control cabinets, frequency converters, medical laser equipment, and high-power welding machines.

Product Images









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