

W2D250-GA02-07 ebmpapst 400V 250mm AC Axial Fan

SKU: W2D250-GA02-07

Price: \$615.68

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w2d250-ga02-07-ebmpapst-400v-250mm-ac-axial-fan/>

Product Description

The ebmpapst W2D250-GA02-07 is a high-performance industrial AC axial fan with a nominal voltage of 400 VAC and an impeller size of 250 mm, specifically engineered for demanding thermal management in industrial control cabinets and power electronics. Driven by a robust three-phase M2D068-DF external rotor motor with a power consumption of 112 W at 50 Hz and 180 W at 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 of 1050 m³/h at its optimum efficiency point while maintaining an overall static efficiency of 28.1%. Constructed with a galvanized sheet steel wall ring and a phosphated steel mounting ring coated in black plastic, this 2.9 kg fan provides a dependable and durable cooling solution with IP44 protection and F1-2 humidity class for industrial power supplies, medical imaging systems, and telecommunications infrastructure at the end.

W2D250-GA02-07 Fan Parameters

Model Number: W2D250-GA02-07

Manufacturer: ebmpapst

Motor Model: M2D068-DF

Series: W Series

Type: AC Axial Fan

Impeller Size: 250 mm

Weight: 2.9 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Wiring: Star (Y)

Frequency: 50 / 60 Hz

Power Consumption: 112 W (50 Hz) / 180 W (60 Hz)

Nominal Current: 0.23 A (50 Hz) / 0.27 A (60 Hz)

Speed: 2700 RPM (50 Hz) / 3000 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)

Actual Air Flow: 1050 m³/h (@ optimum efficiency)

Actual Static Pressure: 280 Pa (Max. back pressure)

Overall Efficiency (η_e): 28.1 %

Motor Design: Three-phase AC external rotor motor

Insulation Class: Class B

Electrical Hookup: Lateral cable

Number of Blades: 5

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: "A" (Suction over struts)

Impeller Material: Sheet steel, coated in black

Mounting Ring Material: Steel, phosphated and coated in black plastic

Wall Ring Material: Sheet steel, galvanized

Installation Position: Any

Degree of Protection: IP44

Humidity Class: F1-2

Operating Temperature: -40 - +60 °C (50 Hz) / -40 - +50 °C (60 Hz)

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 60335-1; CE

Approval Agency: CCC (Optional/Dependent)

Application

The ebmpapst W2D250-GA02-07 AC fan is primarily utilized in industrial control cabinets, frequency converters, medical laser equipment, and high-power welding machines.

Product Images









Scan for product details:

