

W4D500-GD09-07 ebm-papst 400VAC 500mm Axial Fan Datasheet



Brand: ebmpapst

SKU: 615151654755

Category: Axial & Centrifugal Fans

Price: \$1,342.99

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Product Page:

<https://www.equipspares.com/product/w4d500-gd09-07-ebm-papst-400vac-500mm-axial-fan>

Product Description

The ebm-papst W4D500-GD09-07 is a robust industrial axial fan engineered for high-efficiency thermal dissipation in demanding environments. Utilizing an advanced AC external rotor motor design, this unit optimizes aerodynamic throughput while maintaining structural rigidity through its coated sheet steel impeller construction. The system features precision-engineered ball bearings that ensure long-term operational stability and reduced frictional losses, contributing to a superior life expectancy. Its thermal impedance is managed effectively via an integrated cooling profile and insulation architecture, making it suitable for continuous duty cycles where consistent airflow and pressure maintenance are critical for system integrity.

Model Number: W4D500-GD09-07

Brand: ebm-papst

Product Type: Axial Fan

Motor Type: AC External Rotor Motor (M4D110-GF)

Rated Voltage: 400 VAC (3-Phase)

Frequency: 50 / 60 Hz

Blade Diameter: 500 mm

Rated Speed: 1350 RPM

Power Consumption: 680 W

Rated Current: 1.30 A

Max. Air Flow: 4855 CFM (8250 m³/h)
Max. Static Pressure: 15.3 mmH₂O (150 Pa)
Bearing Type: Ball Bearing
Noise Level: 72 dB(A)
Impeller Material: Sheet steel, coated black
Housing Material: Die-cast aluminum
Ingress Protection: IP54
Insulation Class: F
Motor Protection: Thermal Overload Protector (TOP)
Operating Temperature: -40°C to +65°C
Mounting Orientation: Any
Number of Blades: 5
Weight: 12.5 kg
Phase: 3~
Capacitor: None (3-Phase)
Direction of Rotation: Counter-clockwise (seen on rotor)
Compliance: CE, CCC, UL

Designed for heavy-duty ventilation, the W4D500-GD09-07 excels in large-scale HVAC systems, industrial chillers, and condenser units requiring substantial volumetric airflow. Operators frequently deploy the W4D500-GD09-07 in heat exchangers and transformer cooling arrays where reliability under fluctuating thermal loads is paramount. Its robust construction also makes it ideal for retrofit applications in manufacturing plants and power generation facilities, serving as a direct replacement for legacy cooling units.

Supplemental Images

