

W6D800-GD01-01 ebmpapst 400V AC axial fan

SKU: W6D800-GD01-01

Price: \$937.47

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w6d800-gd01-01-ebmpapst-400v-ac-axial-fan/>

Product Description

The ebmpapst W6D800-GD01-01 is a powerful AC Centrifugal Fan designed for large-scale air movement, featuring an 800mm impeller diameter. It is equipped with an M6D138-LA motor and operates on a 3-phase 400V AC supply at 50Hz.

Performance varies based on wiring configuration:

In Delta (Δ) wiring, it draws a maximum of 3.9A of current, consumes up to 1940W of power, and runs at 880 RPM. The maximum back pressure is 160 Pa (0.64 in. wg).

In Wye (Y) wiring, it draws a maximum of 2.23A of current, consumes up to 1210W of power, and runs at 670 RPM. The maximum back pressure is 92 Pa (0.37 in. wg).

The fan has an ErP power consumption of 1.77 kW, an airflow of 16545 m³/h (9739 CFM), a pressure increase of 136 Pa, and a speed of 900 min⁻¹. It features ball bearings, an IP54 degree of protection, and an insulation class "F". The operating ambient temperature range is -40°C to 60°C. Its impeller is made of sheet aluminum with a plastic insert, and the fan housing is steel, galvanized and coated with black plastic.

W6D800-GD01-01 Fan Parameters

Model: W6D800-GD01-01

Manufacturer: ebmpapst

Type: AC Centrifugal Fan

Motor: M6D138-LA

Impeller Diameter: 800 mm

Rated Voltage: 400 V AC

Phase: 3-phase

Frequency: 50 Hz

Performance (Delta Wiring):

Current Draw: 3.9 A

Power Input: 1940 W

Fan Speed: 880 RPM

Max Back Pressure: 160 Pa (0.64 in. wg)

Starting Current: 13 A

Performance (Wye Wiring):

Current Draw: 2.23 A

Power Input: 1210 W

Fan Speed: 670 RPM

Max Back Pressure: 92 Pa (0.37 in. wg)

Starting Current: 4.3 A

ErP Power Consumption (P_e): 1.77 kW

ErP Airflow (q_V): 16545 m³/h (9739 CFM)

ErP Pressure Increase (p_{fs}): 136 Pa

ErP Speed (n): 900 min⁻¹

Ambient Temperature (Operating): -40 °C to 60 °C

Ambient Temperature (Transport/Storage): -40 °C to 80 °C

Bearing Type: Ball Bearing

Impeller Material: Sheet aluminum insert, sprayed with PP plastic

Number of Blades: 5

Blade Pitch: 0°

Fan Housing Material: Steel, galvanized and coated with black plastic (RAL 9005)

Guard Grille Material: Steel, coated with black plastic (RAL 9005)

Rotor Surface: Cast in aluminum

Terminal Box Material: PP plastic

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: V

Degree of Protection: IP54

Insulation Class: "F"

Moisture / Environmental (H) Protection Class: H2

Installation Position: Any

Condensation Drainage Holes: On rotor and stator sides

Mode: S1

Motor Protection: Thermal overload protector (TOP)

Protection Class: I (with customer connection of protective earth)

Conformity with Standards: EN 60034-1 (2010), CE

Approvals: VDE, EAC

Weight: 44 kg

Application: Air handling units, Industrial ventilation, HVAC systems, Large-scale cooling systems

Product Images







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