

# W6D910-KD01-01 ebmpapst 400V 910mm AC Axial Fan

**SKU:** W6D910-KD01-01

**Price:** \$1,389.64

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/w6d910-kd01-01-ebmpapst-400v-910mm-ac-axial-fan/>

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## Product Description

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The ebmpapst W6D910-KD01-01 is a heavy-duty industrial AC axial fan with a nominal voltage of 400 VAC and an impeller size of 910 mm, specifically engineered for demanding thermal management in large-scale refrigeration and industrial cooling systems. Driven by a robust three-phase M6D138-LA external rotor motor with a power consumption of 1920 W in Delta ( $\Delta$ ) configuration and 1170 W in Star (Y) configuration at 50 Hz, this unit features a premium ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 5 PP plastic blades delivers a massive airflow of 18355 m<sup>3</sup>/h at its optimum efficiency point while maintaining an overall static efficiency of 41.9%. Constructed with a galvanized sheet steel housing and a black plastic-coated guard grille (RAL 9005), this 47.2 kg fan provides a dependable and weather-resistant cooling solution with IP54 protection and H2 environmental class for industrial condensers, dry coolers, and cooling tower infrastructure at the end.

W6D910-KD01-01 Fan Parameters

Model Number: W6D910-KD01-01

Manufacturer: ebmpapst

Motor Model: M6D138-LA

Motor Size: 138

Series: W Series

Type: AC Axial Fan

Impeller Size: 910 mm

Weight: 47.2 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Wiring: Delta ( $\Delta$ ) / Star (Y)

Frequency: 50 Hz

Power Consumption: 1920 W ( $\Delta$ ) / 1170 W (Y)

Nominal Current: 3.8 A ( $\Delta$ ) / 2.2 A (Y)

Speed: 870 RPM ( $\Delta$ ) / 640 RPM (Y)

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Actual Air Flow: 18355 m<sup>3</sup>/h (@ optimum efficiency)

Actual Static Pressure: 170 Pa (Max. back pressure @  $\Delta$ )

Overall Efficiency ( $\eta_{es}$ ): 41.9 %

Motor Design: Three-phase AC external rotor motor

Motor Protection: Thermal switch auto reset (TOP) brought out

Insulation Class: Class F

Electrical Hookup: Terminal box

Number of Blades: 5

Blade Pitch: 0°

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts)

Blade Material: PP plastic

Rotor Surface: Cast in aluminum

Housing Material: Sheet steel, galvanized and coated with black plastic (RAL 9005)

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

Terminal Box Material: PP plastic

Installation Position: Any

Degree of Protection: IP54

Environmental Protection: H2

Operating Temperature: -40 - +55 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 60034-1; CE

Approval Agency: EAC; VDE

### Application

The ebmpapst W6D910-KD01-01 AC fan is primarily utilized in large-scale industrial refrigeration condensers, cooling towers, dry coolers, and commercial HVAC heat exchangers.

## Product Images

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Scan for product details:

