

W4D300-DT04-09 ebmpapst 230/400/460V 300mm AC Axial Fan

SKU: W4D300-DT04-09

Price: \$598.47

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/w4d300-dt04-09-ebmpapst-230-400-460v-300mm-ac-axial-fan/>

Product Description

The ebmpapst W4D300-DT04-09 is a high-performance 230/400/460 V industrial AC axial fan with an impeller size of 300 mm, purpose-built to deliver elite-level thermal cooling in high-resistance airflow paths. This unit features a heavy-duty M4D068-DF external rotor motor capable of sustaining power inputs ranging from 65 W to 100 W to drive its specialized 5-blade PP plastic impeller at speeds up to 1600 RPM. Engineered specifically for air displacement in medium-scale cooling systems, it utilizes a 300 mm diameter housing to provide balanced pressure and airflow for mission-critical hardware. The mechanical design relies on precision maintenance-free ball bearings and a galvanized sheet steel frame coated with black plastic (RAL 9005) to ensure reliable continuous operation across an ambient temperature range of -25 °C to 70 °C. Featuring a versatile 3-phase electrical interface supporting Delta (230 VAC) or Star (400/460 VAC) wiring, this fan is a critical component for condenser cooling, industrial refrigeration, and power electronics thermal management where long-term durability and high aerodynamic efficiency are mandatory.

W4D300-DT04-09 Fan Parameters

Manufacturer: ebmpapst

Model Number: W4D300-DT04-09

Motor Model: M4D068-DF

Series: AC Axial Series

Fan Size: 300 mm

Type: AC Axial Fan

Dimensions: 430 x 430 x 83mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC (Delta) / 400 VAC (Star) / 460 VAC (Star)

Voltage Range: 220 - 480 VAC

Frequency: 50/60 Hz

Weight: 3000 g

[Electrical Data]

Input Power: 65 W (50 Hz) / 90 W (60 Hz) / 100 W (460V 60 Hz)

Nominal Current (400V): 0.16 A (50 Hz) / 0.17 A (60 Hz)

Nominal Current (230V): 0.28 A (50 Hz) / 0.29 A (60 Hz)

Nominal Current (460V): 0.17 A (60 Hz)

Nominal Speed: 1350 RPM (50 Hz) / 1530 RPM (60 Hz) / 1600 RPM (460V)

Motor Design: AC External Rotor Motor (3-Phase)

Wiring: Δ (Delta) for 230V / Y (Star) for 400V and 460V

Motor Protection: Thermal overload protector (TOP) with basic insulation

Insulation Class: Class F

Touch Current: < 0.75 mA

Termination: Lateral cable

[Performance & Acoustics]

Max. Air Flow: 1306.6 CFM (2220 m³/h / 37.0 m³/min)

Max. Static Pressure: 8.16 mmH₂O (80.0 Pa / 0.32 inAq)

Number of Blades: 5

Direction of Rotation: Counter-clockwise (Viewed toward rotor)

Airflow Direction: "V" (Exhaust over struts)

Mode of Operation: S1 (Continuous operation)

[Materials & Construction]

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

Blade Material: PP plastic

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

Rotor Surface: Painted black

Installation Position: Shaft horizontal or rotor on bottom

Condensation Drainage: Rotor side holes

Degree of Protection: IP44

Environmental Protection Class: H1

[Reliability & Safety Standards]

Min. Ambient Temperature: -25 °C

Max. Ambient Temperature: 70 °C

Storage Temperature: -40 °C - 80 °C

Standard Compliance: EN 60335-1, CE

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

Application

The ebmpapst W4D300-DT04-09 axial fan is used in commercial refrigeration condensers, industrial heat exchangers, air conditioning units, cooling for electrical cabinets, and small-scale

ventilation systems.

Product Images







Scan for product details:

