

S4D450-AP01-01 ebmpapst 230/400V 450mm AC Axial Fan

SKU: S4D450-AP01-01

Price: \$479.98

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4d450-ap01-01-ebmpapst-230-400v-450mm-ac-axial-fan/>

Product Description

The ebmpapst S4D450-AP01-01 is a professional-grade 450 mm 3-phase AC axial fan powered by the M4D074-GA external rotor motor, designed for high-efficiency air displacement in industrial environments. This versatile unit supports dual-voltage operation, allowing for 230 VAC Delta (Δ) or 400 VAC Star (Y) wiring configurations to suit various power grid requirements. Engineered with 5 sickle-shaped blades made of black-painted sheet steel, the fan achieves an impressive static efficiency of 34.9% at its optimum operating point. The robust design features a plastic-coated steel guard grille and a black-painted rotor surface, ensuring durability for S1 continuous operation. With its dual-frequency compatibility (50/60 Hz) and integrated condensation drainage on the rotor side, the S4D450-AP01-01 provides a reliable thermal solution for industrial ventilation and refrigeration across an ambient temperature range of -25 °C to 50 °C.

S4D450-AP01-01 Fan Parameters

Model Number: S4D450-AP01-01

Motor Number: M4D074-GA

Manufacturer: ebmpapst

Type: 3-Phase AC Axial Fan

Fan Size: 450 mm

Weight: 7.1 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 / 400 VAC

Phase: 3~

Wiring: Δ (Delta) / Y (Star)

Frequency: 50 / 60 Hz

Power Consumption: 200 W (@ 50 Hz) / 285 W (@ 60 Hz)
Nominal Current: 0.48 A (400V 50Hz) / 0.53 A (400V 60Hz)
Nominal Current (230V): 0.83 A (230V 50Hz) / 0.92 A (230V 60Hz)
Speed: 1380 RPM (@ 50 Hz) / 1540 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)
Max. Back Pressure: 120 Pa (@ 50 Hz) / 70 Pa (@ 60 Hz)
Efficiency: η_{es} 34.9% (Static efficiency)
Optimum Air Flow: 3795 m³/h
Optimum Pressure Increase: 91 Pa
Sound Pressure Level: 64 dB(A)
Motor Design: External rotor motor (Painted black)
Motor Protection: None (Requires external overheating protection)
Insulation Class: Class F
Moisture/Env. Protection: H0+
Electrical Hookup: Variable cable
Number of Blades: 5
Direction of Rotation: Counterclockwise, viewed toward rotor
Airflow Direction: "V"
Blade Material: Sheet steel, painted black
Guard Grille Material: Steel, coated with black plastic (RAL 9005)
Installation Position: Shaft horizontal or rotor on bottom; rotor on top on request
Condensation Drainage: Holes on rotor side
Mode: S1
Touch Current: < 0.75 mA
Degree of Protection: IP44
Protection Class: I
Approval: CCC, EN 60335-1

Application

The ebmpapst S4D450-AP01-01 axial fan is primarily utilized in industrial refrigeration condensers, air-cooled heat exchangers, large-scale ventilation systems, and specialized HVAC units.

Product Images









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