

S4D450-AU01-01 ebmpapst 400VAC 450mm 3-Phase Axial Fan Datasheet



Brand: ebmpapst

SKU: 772326337535

Category: Axial & Centrifugal Fans

Price: \$591.99

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Product Page:

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Product Description

The ebmpapst S4D450-AU01-01 is a robust AC Axial Fan engineered for high-efficiency industrial ventilation and thermal management. Featuring a 3-phase external rotor motor integrated with a dynamically balanced sheet steel impeller, this unit ensures optimal aerodynamic performance and structural rigidity. The design minimizes thermal impedance while maximizing airflow throughput, making it suitable for continuous duty cycles in harsh environments. Equipped with maintenance-free ball bearings and an IP54 ingress protection rating, the fan delivers reliable operation with reduced vibration and noise emissions, ensuring longevity and consistent cooling performance.

Model Number: S4D450-AU01-01

Brand: ebmpapst

Product Type: Axial Fan

Motor Type: AC External Rotor Motor (M4D094-EA)

Rated Voltage: 400 VAC (3-Phase)

Voltage Range: 380.0 - 480.0 VAC

Frequency: 50 / 60 Hz

Rated Current: 0.48 A / 0.56 A

Power Consumption: 135 W / 185 W

Rated Speed: 1350 RPM / 1590 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 3154.7 CFM (5360 m³/h / 89.3 m³/min)
Max. Static Pressure: 7.14 mmH₂O (70 Pa / 0.28 inH₂O)
Dimensions: 450mm (Impeller Diameter)
Weight: 7.5 kg
Life Expectancy: > 40,000 Hours at 40°C
Ingress Protection: IP54
Insulation Class: Class F
Noise Level: 72 dB(A)
Impeller Material: Sheet Steel, Coated Black
Housing Material: Galvanized Steel with Guard Grille
Direction of Rotation: Clockwise, viewed toward rotor
Operating Temperature: -40°C to +65°C
Motor Protection: Thermal Overload Protector (TOP) wired internally
Mounting Orientation: Any
Certifications: CE, CCC, EAC, VDE
Phase: 3~
Number of Blades: 5

The S4D450-AU01-01 is widely utilized in large-scale industrial cooling and ventilation systems, including refrigeration condensers, evaporators, and heat exchangers. Its high airflow capacity makes it ideal for facility climate control and cooling tower applications where consistent air exchange is critical. Additionally, the S4D450-AU01-01 serves effectively in transformer cooling and heavy machinery ventilation, ensuring operational stability in telecommunications and power generation sectors.

Supplemental Images

