

S4D450-AO14-01 ebmpapst 400V 450mm AC Axial Fan

SKU: S4D450-AO14-01

Price: \$756.24

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4d450-ao14-01-ebmpapst-400v-450mm-ac-axial-fan/>

Product Description

The ebmpapst S4D450-AO14-01 is a high-performance 400VAC three-phase AC Axial Fan featuring 450 mm specialized aerodynamic PP plastic blades and a high-torque 4-pole external rotor motor, specifically engineered for mission-critical cooling in Industrial Frequency Converters and large-scale ventilation systems. Driven by a precision-balanced motor with maintenance-free ball bearings and moisture protection (Humidity class F4-1), this 10 kg unit operates at 400 VAC using a Delta/Star (Δ/Y) connection to provide dual-speed flexibility across multiple frequencies, delivering a Max. Power Consumption of 480 / 340 / 690 / 400 W and a Max. Current Draw of 0.98 / 0.58 / 1.20 / 0.72 A at a rated speed of 1360 / 1110 / 1510 / 1060 RPM. This High-performance unit features a 5-blade PP plastic impeller with "V" direction airflow, achieving a Max. Air Flow of 4530.0 / 4980.0 m³/h (2666.3 / 2931.2 CFM / 75.50 / 83.00 m³/min) and a Max. Static Pressure of 14.28 / 10.20 mmH₂O (140.0 / 100.0 Pa / 0.56 / 0.40 inAq). Featuring a robust construction with an ABS plastic terminal box and a steel guard grille coated in black plastic (RAL9005), this IP54-rated fan is optimized for environments requiring high reliability and industrial-grade airflow in VFD systems at the end.

S4D450-AO14-01 Fan Parameters

Model Number: S4D450-AO14-01

Manufacturer: ebmpapst

Motor Model: M4D094-HA

Type: AC Axial Fan

Impeller Size: 450 mm

Weight: 10 kg

Origin: Germany

Bearing Type: Ball bearing (Long-time lubrication)

Phase: 3~

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Connection Type: Delta / Star (Δ/Y)

Frequency: 50 / 60 Hz

Max. Current Draw: 0.98 / 0.58 / 1.20 / 0.72 A

Max. Power Consumption: 480 / 340 / 690 / 400 W

Starting Current: 3.9 / 1.3 / 3.9 / 1.3 A

Rated Speed: 1360 / 1110 / 1510 / 1060 RPM

Max. Air Flow: 2666.3 / 2931.2 CFM (4530.0 / 4980.0 m³/h / 75.50 / 83.00 m³/min)

Max. Static Pressure: 14.28 / 10.20 mmH₂O (140.0 / 100.0 Pa / 0.56 / 0.40 inAq)

Working Air Flow: 4530.0 / 4980.0 m³/h

Static Pressure Increase: 140.0 / 100.0 Pa

Sound Pressure Level: 67 / 62 / 70 / 64 dB(A)

Number of Blades: 5

Direction of Air Flow: "V"

Direction of Rotation: Counter-clockwise (seen on rotor)

Motor Protection: Thermal overload protector (TOP) brought out

Touch Current: \leq 3.5 mA

Insulation Class: "F"

Humidity Class: F4-1

Degree of Protection: IP54

Protection Class: I (if protective earth is connected by customer)

Operation Mode: S1 (Continuous operation)

Material of Impeller: PP plastic

Material of Terminal Box: ABS plastic

Material of Guard Grille: Steel, coated in black plastic (RAL9005)

Surface of Rotor: Coated in black

Condensate Discharge Holes: Rotor-side (open)

Mounting Position: Shaft horizontal or rotor on bottom

Ambient Temperature (Max.): 65 / 50 °C

Min. Operating Temperature: -40 °C

Storage Temp. Range: -40 °C to +80 °C

Standard Compliance: EN 60034-1; CE; EAC; CCC; ErP 2015

Application

The ebmpapst S4D450-AO14-01 axial fan is the primary cooling component for industrial frequency converters, large condensers, and outdoor heat exchangers requiring dual-speed airflow and extreme-temperature reliability in 400V three-phase environments.

Product Images









Scan for product details:

