

S4D500-AD03-01 ebmpapst 400/480V 500mm AC Axial Fan

SKU: S4D500-AD03-01

Price: \$418.99

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4d500-ad03-01-ebmpapst-400-480v-500mm-ac-axial-fan/>

Product Description

The ebmpapst S4D500-AD03-01 is a high-performance industrial AC axial fan with a nominal voltage of 400/480 VAC and an impeller size of 500 mm, specifically engineered for demanding thermal management in large-scale condensers and industrial ventilation systems. Driven by a robust three-phase M4D110-GF external rotor motor with a maximum power consumption of 1220 W at 480 VAC (60 Hz) in a Delta (Δ) connection and 770 W in a Star (Y) connection, this unit features a heavy-duty ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 5 backward-curved die-cast aluminum blades delivers a massive airflow of 11300 m³/h at 1570 RPM (60 Hz Δ) and 8120 m³/h at 1035 RPM (50 Hz Y), achieving high static efficiency across various wiring configurations. Constructed with an aluminum-cast rotor surface, an ABS plastic terminal box, and condensate discharge holes on both rotor and stator sides, this 15.5 kg fan unit provides a dependable and rugged cooling solution with IP54 protection and Class F insulation for cooling towers, dry coolers, and industrial AHU infrastructure at the end.

S4D500-AD03-01 Fan Parameters

Model Number: S4D500-AD03-01

Manufacturer: ebmpapst

Motor Model: M4D110-GF

Series: S Series

Type: AC Axial Fan

Impeller Size: 500 mm

Weight: 15.5 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC / 480 VAC (3-phase)

Frequency: 50 / 60 Hz

Power Consumption (50 Hz): 820 W (Δ) / 550 W (Y)

Power Consumption (60 Hz): 1220 W (Δ) / 770 W (Y)

Nominal Current (50 Hz): 1.59 A (Δ) / 0.95 A (Y)

Nominal Current (60 Hz): 1.86 A (Δ) / 1.13 A (Y)

Speed (50 Hz): 1325 RPM (Δ) / 1035 RPM (Y)

Speed (60 Hz): 1570 RPM (Δ) / 1170 RPM (Y)

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)

Actual Air Flow (50 Hz): 9590 m³/h (Δ) / 8120 m³/h (Y)

Actual Air Flow (60 Hz): 11300 m³/h (Δ) / 8970 m³/h (Y)

Max. Back Pressure (50 Hz): 160 Pa (Δ) / 100 Pa (Y)

Max. Back Pressure (60 Hz): 150 Pa (Δ) / 84 Pa (Y)

Sound Pressure Level: 71 dB(A) (50 Hz) / 74 dB(A) (60 Hz)

Motor Protection: Thermal overload protector (TOP) brought out

Insulation Class: Class F

Electrical Hookup: Terminal box (ABS plastic, black)

Cable Exit: Axial

Number of Blades: 5

Blade Angle: 0°

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts)

Impeller Material: Die-cast aluminum

Rotor Surface: Cast in aluminum

Guard Grille Material: Steel, phosphated and coated in black plastic

Installation Position: Any

Condensate Discharge: Rotor and stator sides

Degree of Protection: IP54

Max. Operating Temp: +80 °C (50 Hz) / +50 °C (60 Hz)

Standard Compliance: CE; EN 61800-5-1

Approval Agency: VDE; GOST

Application

The ebmpapst S4D500-AD03-01 AC fan is primarily utilized in large industrial condensers, dry coolers, heavy-duty ventilation units, and heat exchangers requiring high-performance three-phase power supply.

Product Images









Scan for product details:

