

S4E500-AM03-01 ebmpapst 230VAC 500mm AC Axial Fan

SKU: S4E500-AM03-01

Price: \$395.69

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4e500-am03-01-ebmpapst-230vac-500mm-ac-axial-fan/>

Product Description

The ebmpapst S4E500-AM03-01 is a high-performance 230VAC single-phase AC Axial Fan unit from the HyBlade® S-series, featuring 5 sickle-shaped blades with an Impeller Size of 500 mm and overall Dimensions of 565 x 210 mm. Specifically engineered for mission-critical industrial refrigeration and HVAC condensers, this 500 mm unit is driven by the M4E110-GF external rotor motor with maintenance-free ball bearings and a 12.0 µF / 450 VDB integrated capacitor. Operating on a 230 VAC supply, it delivers a Max. Power Consumption of 680 W (50 Hz) / 880 W (60 Hz) and a Max. Current Draw of 3.0 A / 3.88 A at a rated speed of 1300 / 1400 RPM under max. load (ml) conditions. Featuring a rugged HyBlade® construction—comprising press-fitted sheet steel blanks sprayed with PP plastic—and a cast aluminium rotor surface, it ensures superior thermal management with IP54 protection, F4-1 humidity class, and an extended service life in continuous S1 environments at the end.

S4E500-AM03-01 Fan Parameters

Model Number: S4E500-AM03-01

Motor Model: M4E110-GF

Manufacturer: ebmpapst

Type: AC Axial Fan - HyBlade® Sickle-shaped blades (S series)

Impeller Size: 500 mm

Dimensions: 565 x 565 x 210 mm (with guard grille for short nozzle)

Weight: 12.5 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Current Draw: 3.0 / 3.88 A

Power Input: 680 / 880 W

Rated Speed: 1300 / 1400 RPM

Max. Air Flow: 4119.8 / 4414.1 CFM (7000.0 / 7500.0 m³/h / 116.67 / 125.00 m³/min)

Max. Static Pressure: 15.30 / 10.20 mmH₂O (150.0 / 100.0 Pa / 0.60 / 0.40 inAq)

Capacitor: 12.0 µF / 450 VDB

Number of Blades: 5

Impeller Material: Press-fitted sheet steel, sprayed with PP plastic (HyBlade®)

Housing Material: Steel, phosphated and coated in black plastic (Guard grille)

Terminal Box Material: PC/ABS plastic Bayblend FR110

Rotor Surface: Cast in aluminium

Direction of Airflow: "V"

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

Insulation Class: "F"

Degree of Protection: IP54

Humidity Class: F4-1

Touch Current: ≤ 3.5 mA

Motor Protection: Thermal overload protector (TOP) brought out

Condensation Drainage Holes: Rotor-side

Installation Position: Shaft horizontal or rotor on bottom

Mode: S1

Protection Class: I

Max. Ambient Temperature: 65 / 40 °C

Min. Ambient Temperature: -40 °C

Standard Compliance: EN 61800-5-1; CE

Approval: CSA C22.2 No. 100; UL 1004-1; VDE; GOST

Application

The ebmpapst S4E500-AM03-01 fan is the primary cooling component for industrial air-cooled condensers, dry coolers, and large-scale HVAC systems requiring high-volume 230V single-phase axial airflow with a 500mm HyBlade configuration and integrated terminal box.

Product Images





Scan for product details:

