

# S4D420-AU02-03 ebmpapst 400V 420mm AC Axial Fan

**SKU:** S4D420-AU02-03

**Price:** \$863.95

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/s4d420-au02-03-ebmpapst-400v-420mm-ac-axial-fan/>

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## Product Description

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The ebmpapst S4D420-AU02-03 is a high-performance industrial AC axial fan with a nominal voltage of 400 VAC and an impeller size of 420 mm, specifically engineered for reliable thermal management in commercial refrigeration and industrial cooling systems. Driven by a robust three-phase M4D094-EA external rotor motor with power ratings ranging from 185 W to 385 W depending on wiring configuration ( $\Delta$ /Y) and frequency, this unit features a heavy-duty ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 5 blades, constructed from a press-fitted sheet steel blank sprayed with PP plastic, delivers a powerful airflow of 3205 m<sup>3</sup>/h at its optimum efficiency point while maintaining an overall static efficiency of 32.3%. Built with a black-painted rotor surface and an ABS plastic terminal box, this 6 kg fan provides a dependable and weather-resistant cooling solution with IP54 protection and F4-1 humidity class for industrial condensers, dry coolers, and heat pump infrastructure at the end.

S4D420-AU02-03 Fan Parameters

Model Number: S4D420-AU02-03

Manufacturer: ebmpapst

Motor Model: M4D094-EA

Series: S Series

Type: AC Axial Fan

Impeller Size: 420 mm

Weight: 6 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Wiring: Delta ( $\Delta$ ) / Star (Y)

Frequency: 50 / 60 Hz

Power Consumption: 260 W (50Hz Δ) / 185 W (50Hz Y) / 385 W (60Hz Δ) / 220 W (60Hz Y)

Nominal Current: 0.52 A (50Hz Δ) / 0.31 A (50Hz Y) / 0.65 A (60Hz Δ) / 0.37 A (60Hz Y)

Speed: 1360 RPM (50Hz Δ) / 1060 RPM (50Hz Y) / 1490 RPM (60Hz Δ) / 970 RPM (60Hz Y)

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Actual Air Flow: 3205 m<sup>3</sup>/h (@ optimum efficiency)

Actual Static Pressure: 95 Pa (Max. back pressure @ 50Hz Δ)

Overall Efficiency (η<sub>es</sub>): 32.3 %

Motor Design: Three-phase AC external rotor motor

Motor Protection: Thermal overload protector (TOP) brought out

Insulation Class: Class F

Electrical Hookup: Terminal box

Number of Blades: 5

Direction of Rotation: Counter-clockwise, viewed toward rotor

Airflow Direction: "V" (Exhaust over struts)

Blade Material: Press-fitted sheet steel blank, sprayed with PP plastic

Terminal Box Material: ABS plastic, black

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

Installation Position: Shaft horizontal or rotor on bottom

Degree of Protection: IP54

Humidity Class: F4-1

Operating Temperature: -40 - +60 °C (50 Hz) / -40 - +55 °C (60 Hz)

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 60034-1; CE

Approval Agency: CCC; GOST

#### Application

The ebmpapst S4D420-AU02-03 AC fan is primarily utilized in industrial refrigeration condensers, dry coolers, air conditioning units, and commercial heat exchangers.

## Product Images

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Scan for product details:

