

S4D630-BR01-02 ebmpapst 400V 630mm AC Axial Fan

SKU: S4D630-BR01-02

Price: \$674.82

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4d630-br01-02-ebmpapst-400v-630mm-ac-axial-fan/>

Product Description

The ebmpapst S4D630-BR01-02 is a high-capacity industrial AC axial fan with a nominal voltage of 400 VAC and an impeller size of 630 mm, specifically engineered for demanding thermal management in large-scale refrigeration and industrial cooling systems. Driven by a robust three-phase M4D110-IA external rotor motor with a power consumption of 1250 W in Delta (Δ) configuration and 840 W in Star (Y) configuration at 50 Hz, 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 PP plastic-sprayed aluminum insert, delivers a powerful airflow reaching 8830 m³/h at its optimum efficiency point while maintaining an overall static efficiency of 37%. Built with a cast aluminum rotor surface and a black plastic-coated steel guard grille, this 16.6 kg fan provides a dependable and weather-resistant cooling solution with IP54 protection and H2 environmental class for industrial condensers, dry coolers, and large-scale HVAC infrastructure at the end.

S4D630-BR01-02 Fan Parameters

Model Number: S4D630-BR01-02

Manufacturer: ebmpapst

Motor Model: M4D110-IA

Series: S Series

Type: AC Axial Fan

Impeller Size: 630 mm

Weight: 16.6 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Wiring: Delta (Δ) / Star (Y)

Frequency: 50 Hz

Power Consumption: 1250 W (Δ) / 840 W (Y)

Nominal Current: 2.48 A (Δ) / 1.42 A (Y)

Speed: 1330 RPM (Δ) / 1070 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: 8830 m³/h (@ optimum efficiency)

Actual Static Pressure: 150 Pa (Max. back pressure @ Δ)

Overall Efficiency (η_{es}): 37.0 %

Motor Design: Three-phase AC external rotor motor

Motor Protection: Thermal overload protector (TOP) with basic insulation

Insulation Class: Class F

Electrical Hookup: Terminal box

Number of Blades: 5

Blade Pitch: -10°

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: "A" (Suction over struts)

Blade Material: Sheet aluminum insert, sprayed with PP plastic

Rotor Surface: Cast in aluminum

Terminal Box Material: PP plastic

Guard Grille Material: Steel, coated with black plastic (RAL 9005)

Installation Position: Shaft horizontal or rotor on bottom

Degree of Protection: IP54

Environmental Protection: H2

Operating Temperature: -40 - +55 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 60034-1; CE; UKCA

Approval Agency: VDE; EAC

Application

The ebmpapst S4D630-BR01-02 AC fan is primarily utilized in industrial refrigeration condensers, dry coolers, large-scale HVAC units, and industrial ventilation systems for heat exchangers.

Product Images









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