

S4D630-CD01-11/F01 ebmpapst 400V 630mm AC Axial Fan

SKU: S4D630-CD01-11/F01

Price: \$799.96

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s4d630-cd01-11-f01-ebmpapst-400v-630mm-ac-axial-fan/>

Product Description

The ebmpapst S4D630-CD01-11/F01 is a heavy-duty high-power 3-phase AC Axial Fan with an impeller diameter of 630 mm, specifically engineered for the most demanding industrial refrigeration and ventilation applications. Powered by a high-torque external rotor motor, this unit operates on a 400 VAC supply and is optimized for large-scale condensers and dry coolers. It delivers a powerful maximum airflow of 13,040 m³/h at a rated speed of 1320 RPM (50Hz). The S4D630 is characterized by its significant power capacity, consuming 2630 W at 50 Hz and up to 3360 W at 60 Hz. Featuring dual-speed capability via Delta/Star (Δ /Y) wiring, the fan allows for precise airflow management, reducing speed to 1050 RPM in Star mode for noise-sensitive operations. Weighing 28 kg and built with ebmpapst's HyBlade technology, this IP54-rated unit provides 24/7 mission-critical reliability and exceptional air displacement for 400V global industrial cooling infrastructure.

S4D630-CD01-11/F01 Fan Parameters

Manufacturer: ebmpapst

Model Number: S4D630-CD01-11/F01

Phase: 3~

Type: AC Axial Fan (High-Power HyBlade Series)

Impeller Size: 630 mm

Dimensions: 630 mm (Diameter) - Overall depth as per heavy-duty motor housing

Nominal Voltage: 400 VAC

Frequency: 50 / 60 Hz

[50 Hz Operation Data]

- Wiring: Δ (Delta) / Y (Star)

- Speed: 1320 / 1050 RPM

- Power Input: 2630 / 1750 W
- Current Draw: 4.78 / 2.95 A
- Max. Airflow: 13,040 m³/h

[60 Hz Operation Data]

- Wiring: Δ (Delta) / Y (Star)
- Speed: 1490 / 1010 RPM
- Power Input: 3360 / 1820 W
- Current Draw: 5.75 / 3.25 A

Max. Static Pressure: Approximately 210 Pa (High-power performance)

Weight: 28 kg

Bearing Type: Dual Ball Bearing (Maintenance-free)

Impeller Material: HyBlade (Aluminum core with fiberglass-reinforced plastic)

Number of Blades: 5

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

Direction of Airflow: Exhaust over struts ("V" direction)

Degree of Protection: IP54

Insulation Class: F

Motor Protection: Thermal overload protector (TOP) wired internally

Operating Temp. Range: -40 °C to +60 °C

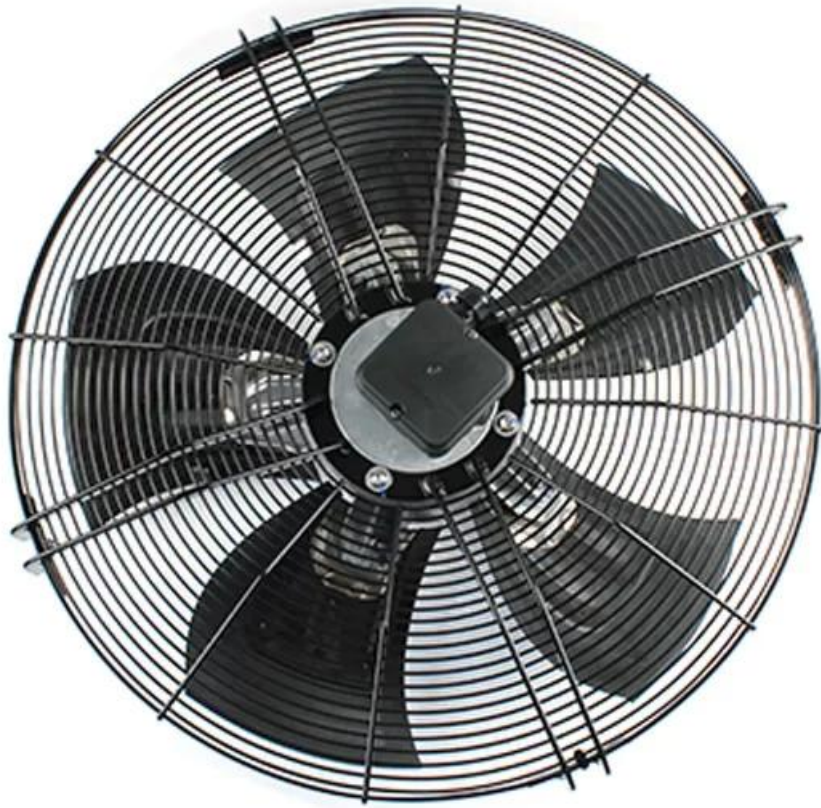
Mode of Operation: S1 (Continuous duty)

Approvals: CE, UKCA, UL, CSA, EAC

Application

The ebmpapst S4D630-CD01-11/F01 is a mission-critical thermal management solution for high-capacity industrial cooling towers, commercial refrigeration condensers, and massive heat exchangers. Its 630 mm 5-blade HyBlade impeller is engineered to move over 13,000 m³/h of air while maintaining structural integrity under the high torque of its 2630 W motor. The dual-speed Δ/Y wiring capability is essential for large-scale HVAC systems, allowing for "High Power" mode during peak loads and "Energy Saving/Low Noise" mode (Y-connection) during off-peak periods. With its robust 28 kg construction, IP54 protection, and specialized environmental sealing, the S4D630 provides reliable 24/7 heat rejection for data center chillers, agricultural ventilation, and power plant cooling in 400V 3-phase industrial environments.

Product Images









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