

S6D630-AN01-01 ebmpapst 400/480V AC Axial Fan

SKU: S6D630-AN01-01

Price: \$542.74

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/s6d630-an01-01-ebmpapst-400-480v-ac-axial-fan/>

Product Description

The ebmpapst S6D630-AN01-01 is a powerful 3-phase AC Axial Fan from the HyBlade® (S series) with sickled blades and a guard grille for a short nozzle, measuring 630mm. It operates on 400V AC at both 50Hz and 60Hz, and on 480V AC at 60Hz, with performance varying based on Delta (Δ) or Y (Y) wiring. Across these modes, the speed ranges from 690 to 1070 RPM, power consumption from 400 to 810W, current draw from 0.68 to 1.35A, and maximum back pressure from 26 to 105Pa. The fan features press-fitted sheet steel blades sprayed with PP plastic, a steel, phosphated and coated in black plastic guard grille, and ABS plastic terminal box. It has 5 blades, a coated black rotor surface, and is equipped with ball bearings. The fan offers an IP54 type of protection and Insulation Class "F", with ambient temperature limits from -40°C to a maximum of 65°C (at 400V 50Hz), 60°C (at 400V 60Hz), and 55°C (at 480V 60Hz). Technical features include a thermal overload protector and rotor-side condensate discharge holes. It conforms to EN 61800-5-1 and CE standards, with VDE approval.

S6D630-AN01-01 Fan Parameters

Model: S6D630-AN01-01

Motor: M6D110-GF

Manufacturer: ebmpapst

Type: AC Axial Fan - HyBlade® sickled blades (S series) with guard grille for short nozzle

Phase: 3~

Nominal Voltage: 400 V AC / 480 V AC

Frequency: 50/60 Hz

Method of Obtaining Data: ml

Valid for Approval / Standard: CE

Performance at 400 V AC, 50 Hz, Delta (Δ) Wiring:

Speed: 890 RPM

Power Consumption: 600 W

Current Draw: 1.2 A

Max. Back Pressure: 105 Pa (0.42 inH₂O)

Performance at 400 V AC, 50 Hz, Y (Y) Wiring:

Speed: 690 RPM

Power Consumption: 400 W

Current Draw: 0.68 A

Max. Back Pressure: 56 Pa (0.22 inH₂O)

Performance at 400 V AC, 60 Hz, Delta (Δ) Wiring:

Speed: 1010 RPM

Power Consumption: 730 W

Current Draw: 1.29 A

Max. Back Pressure: 50 Pa (0.2 inH₂O)

Performance at 400 V AC, 60 Hz, Y (Y) Wiring:

Speed: 700 RPM

Power Consumption: 430 W

Current Draw: 0.8 A

Max. Back Pressure: 26 Pa (0.1 inH₂O)

Performance at 480 V AC, 60 Hz, Delta (Δ) Wiring:

Speed: 1070 RPM

Power Consumption: 810 W

Current Draw: 1.35 A

Max. Back Pressure: 55 Pa (0.22 inH₂O)

Performance at 480 V AC, 60 Hz, Y (Y) Wiring:

Speed: 820 RPM

Power Consumption: 550 W

Current Draw: 0.8 A

Max. Back Pressure: 35 Pa (0.14 inH₂O)

Min. Ambient Temperature: -40 °C

Max. Ambient Temperature: 65 °C (for 400V 50Hz), 60 °C (for 400V 60Hz), 55 °C (for 480V 60Hz)

Starting Current: 4 A (400V 50Hz), 3.5 A (400V 60Hz, 480V 60Hz)

Size: 630 mm

Surface of Rotor: Coated in black

Material of Terminal Box: ABS plastic, black

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

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

Number of Blades: 5

Direction of Air Flow: "V"

Direction of Rotation: Counter-clockwise, seen on rotor

Type of Protection: IP 54

Humidity Class: F4-1

Insulation Class: "F"

Max. Permissible Ambient Motor Temp. (transp./storage): +80 °C

Min. Permissible Ambient Motor Temp. (transp./storage): -40 °C

Mounting Position: Shaft horizontal or rotor on bottom; rotor on top on request

Operation Mode: S1

Condensate Discharge Holes: Rotor-side

Motor Bearing: Ball bearing

Leakage Current: ≤ 3.5 mA

Electrical Leads: Via terminal box

Motor Protection: Thermal overload protector (TOP) brought out

Cable Exit: Axial

Protection Class: I (if protective earth is connected by customer)

Product Conforming to Standard: EN 61800-5-1; CE

Approval: VDE

Weight: 17.7 kg

Application: Commonly used in large-scale ventilation systems, industrial air handling units, central air conditioning, and other demanding air movement applications.

Product Images







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