

8550N ebmpapst 230V 80x80x38mm AC Axial Fan

SKU: 8550N

Price: \$37.71

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/8550n-ebmpapst-230v-80x80x38mm-ac-axial-fan/>

Product Description

The ebmpapst 8550N is a high-performance 230VAC AC Axial Fan with dimensions of 80 x 80 x 38 mm, specifically engineered for mission-critical cooling in industrial automation and high-durability electronic enclosures. Driven by a high-efficiency shaded-pole motor with the Sintec sleeve bearing system, this heavy-duty unit operates on a 230 VAC supply, delivering a Max. Power Consumption of 12.0 W (50 Hz) / 11.0 W (60 Hz) and a Power Output of 3.6 W / 3.3 W at a rated speed up to 3200 RPM. This high-performance unit is optimized for reliable heat dissipation in compact enclosures, providing a Max. Air Flow of 31.8 CFM (54.0 m³/h / 0.90 m³/min) and a Max. Static Pressure of 64.0 Pa (6.53 mmH₂O / 0.26 inAq). Featuring a 2-wire lead connection, rugged die-cast aluminum housing, and sheet steel impeller, this 80 mm unit ensures maximum mechanical stability with a dielectric strength of 1500 VAC and an extended service life of up to 55,000 hours in continuous S1 environments at the end.

8550N Fan Parameters

Model Number: 8550N

Manufacturer: ebmpapst

Type: AC Axial Fan

Dimensions: 80 x 80 x 38 mm

Weight: 490 g

Bearing Type: Sintec sleeve bearing system

Nominal Voltage: 230 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Max. Current Draw: 70 / 60 mA

Max. Power Consumption: 12.0 / 11.0 W

Power Output: 3.6 / 3.3 W

Rated Speed: 2700 / 3200 RPM

Max. Air Flow: 25.9 / 31.8 CFM (44.0 / 54.0 m³/h)

Max. Static Pressure: 46.0 / 64.0 Pa (4.69 / 6.53 mmH₂O)

Sound Power Level: 4.4 / 4.8 B

Sound Pressure Level: 30 / 34 dB(A)

Connection: 2-Wire (2 single strands AWG 28, TR 64, bared and tin-plated)

Grounding Lug: M4 x 8 (TORX)

Dielectric Strength: 1500 VAC / 1 Min. (Type test) / 1500 VAC / 1 Sec. (Routine test)

Isolation Resistance: > 50 MΩ (at 500 VDC)

Clearance / Creepage Distance: 2.0 mm / 1.8 mm

Motor Protection: Impedance protection

Insulation Class: "B"

Degree of Protection: IP20

Protection Class: I

Impeller Material: Sheet steel, painted black

Housing Material: Die-cast aluminum

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Exhaust over struts

Installation Position: Any

Mode: S1

Service Life (L10): 52,500 h (50 Hz) / 55,000 h (60 Hz) at 40 °C

Ambient Temperature (Max.): 70 °C (50 Hz) / 75 °C (60 Hz)

Min. Operating Temperature: -10 °C

Storage Temperature Range: -40 °C to 80 °C

Standard Compliance: DIN EN 60950; DIN EN 60335; CE

Approval: CE; EAC; UL; VDE; CSA; CCC

Application

The ebmpapst 8550N fan is the primary cooling component for industrial control cabinets, automation systems, and high-durability electronic power supplies requiring a 2-wire metal-housed 230V axial blower.

Product Images







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