

4312/2U ebmpapst 12V 0.42A 119x119x32mm DC Axial Fan

SKU: 4312/2U

Price: \$92.57

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/4312-2u-ebmpapst-12v-0-42a-119x119x32mm-dc-axial-fan/>

Product Description

The ebmpapst 4312/2U is a high-performance 12VDC IP68-rated DC Axial Fan with dimensions of 119 x 119 x 32 mm, featuring a glass-fiber reinforced PBT housing and PA impeller specifically engineered for mission-critical cooling in Industrial Frequency Converters and high-density power electronics. Driven by an electronically commutated external rotor motor with maintenance-free ball bearings and fully encapsulated IP68-motor protection, this 0.22 kg unit operates at 12 VDC delivering a Max. Power Consumption of 5.0 W and a Max. Current Draw of 0.42 A at a rated speed of 2800 RPM. This High-performance unit achieves a Max. Air Flow of 170.0 m³/h (100.0 CFM / 2.83 m³/min) and a Max. Static Pressure of 8.16 mmH₂O (80.0 Pa / 0.32 inAq). Featuring integrated electronic protection against reverse polarity and blocking, along with a speed signal (Tacho) output via AWG 22 leads, this IP68-protected unit is optimized for environments requiring extreme reliability, dust-proof and waterproof performance in industrial VFD systems at the end.

4312/2U Fan Parameters

Model Number: 4312/2U

Manufacturer: ebmpapst

Article Number: 9294305439

Type: DC Axial Fan

Dimensions: 119 x 119 x 32 mm

Weight: 0.22 kg

Origin: Germany

Bearing Type: Ball bearing (Long-time lubrication)

Phase: DC

Nominal Voltage: 12 VDC

Voltage Range: 6.0 - 15.0 VDC
Connection Type: 3-wire (Leads AWG 22, TR 64, Speed signal)
Max. Current Draw: 0.42 A
Max. Power Consumption: 5.0 W
Rated Speed: 2800 RPM
Max. Air Flow: 100.0 CFM (170.0 m³/h / 2.83 m³/min)
Max. Static Pressure: 8.16 mmH₂O (80.0 Pa / 0.32 inAq)
Working Air Flow: 170.0 m³/h
Static Pressure Increase: 80.0 Pa
Sound Pressure Level: 45.0 dB(A)
Sound Power Level: 5.8 Bel
Motor Protection: Electronic blocking / Reverse polarity protection
Service Life (L10): 62,500 h (40 °C) / 27,500 h (65 °C)
Life Expectancy (L10Δ): 105,000 h (40 °C)
Degree of Protection: IP68 (Fully encapsulated motor)
Housing Material: Glass-fiber reinforced PBT plastic
Impeller Material: Glass-fiber reinforced PA plastic
Direction of Rotation: Clockwise (viewed toward rotor)
Airflow Direction: Intake over struts
Ambient Temperature (Max.): 65 °C
Min. Operating Temperature: -20 °C
Standard Compliance: CE; GREEN TECH; VDE; CSA; UL

Application

The ebmpapst 4312/2U axial fan is the primary cooling component for industrial frequency converters and high-density electronic modules requiring IP68-rated waterproof protection and high-static pressure performance.

Product Images







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