

# 6224N ebmpapst 24VDC 172x51mm 17W Round Axial Fan Datasheet



**Brand:** ebmpapst

**SKU:** [888419461249](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$192.99**

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Product Page:

<https://www.equipspares.com/product/6224n-ebmpapst-24vdc-172x51mm-17w-round-axial-fan>

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## Product Description

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The ebmpapst 6224N is a DC Axial Fan engineered for demanding industrial thermal management applications requiring high airflow and structural durability. Featuring an advanced electronically commutated external rotor motor integrated into a robust die-cast aluminum housing, this unit ensures superior structural rigidity and efficient heat dissipation. The aerodynamic impeller, constructed from fiberglass-reinforced plastic (PA), is dynamically balanced to minimize acoustic resonance while maximizing static pressure capabilities. Utilizing a precision ball bearing architecture, the 6224N delivers exceptional longevity and reliability under continuous operation. Its design optimizes thermal impedance, making it a critical component for systems requiring consistent high-volume air delivery within a standard 172mm round footprint.

Model Number: 6224N

Brand: ebmpapst

Product Type: DC Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 12.0 - 28.0 VDC

Rated Current: 0.71 A

Power Consumption: 17.0 W

Rated Speed: 3500 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 241.3 CFM (410 m<sup>3</sup>/h / 6.83 m<sup>3</sup>/min)  
Max. Static Pressure: 15.81 mmH<sub>2</sub>O (155 Pa / 0.62 inH<sub>2</sub>O)  
Dimensions: 172mm x 51mm (Round)  
Weight: 0.82 kg  
Life Expectancy: 80,000 Hours (L10 at 40°C)  
Noise Level: 50 dB(A)  
Housing Material: Die-cast Aluminum  
Impeller Material: Fiberglass-reinforced Plastic (PA)  
Operating Temperature: -20°C to +72°C  
Storage Temperature: -40°C to +80°C  
Termination: 2 Flat Plugs 3.0 x 0.5 mm  
Direction of Rotation: Counter-clockwise (viewed toward rotor)  
Airflow Direction: Intake over struts  
Motor Protection: Reverse Polarity and Locked Rotor Protection  
Insulation Class: E  
Certifications: VDE, CSA, UL, CE  
Origin: Hungary

The 6224N is extensively utilized in high-density electronic cooling environments, including telecommunications base stations, server rack ventilation, and industrial automation control cabinets. Its robust construction allows the 6224N to perform reliably in variable frequency drives (VFDs) and photovoltaic inverters where consistent thermal regulation is paramount. Additionally, this model is frequently deployed in medical diagnostic equipment and railway technology, ensuring critical components remain within safe operating temperature ranges during continuous duty cycles.

## Supplemental Images

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