

# 4184N/2X ebmpapst 24V 0.50A 119x119x38mm DC Axial Fan

**SKU:** 4184N/2X

**Price:** \$93.14

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/4184n-2x-ebmpapst-24v-0-50a-119x119x38mm-dc-axial-fan/>

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## Product Description

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The ebmpapst 4184N/2X is a high-performance 24VDC DC Axial Fan with dimensions of 119 x 119 x 38 mm, featuring a robust metal housing and glass-fiber reinforced plastic impeller, specifically engineered for mission-critical cooling in Industrial Frequency Converters. Driven by a brushless external rotor motor with maintenance-free ball bearings and any-shaft mounting position, this 0.380 kg unit operates at 24 VDC delivering a Max. Power Consumption of 4.9 W and a Max. Current Draw of 0.20 A at a rated speed of 3200 RPM. This High-performance unit achieves a Max. Air Flow of 168.0 m<sup>3</sup>/h (98.88 CFM / 2.80 m<sup>3</sup>/min) and a Max. Static Pressure of 10.20 mmH<sub>2</sub>O (100.0 Pa / 0.40 inAq). Featuring integrated electronic protection against reverse polarity and blocking, alongside a yellow Tacho speed signal via AWG 22 leads and plug connection, this metal unit is optimized for industrial VFD systems requiring long-term reliability and high-static pressure at the end.

4184N/2X Fan Parameters

Model Number: 4184N/2X

Article Number: 9294310132

Manufacturer: ebmpapst

Type: DC Axial Fan

Dimensions: 119 x 119 x 38 mm

Weight: 0.380 kg

Bearing Type: Ball bearing (Any-shaft mounting)

Phase: DC

Nominal Voltage: 24 VDC

Voltage Range: 12.0 - 31.5 VDC

Connection Type: 3-wire (Plug connection, Tacho signal yellow AWG 22)

Max. Current Draw: 0.20 A  
Max. Power Consumption: 4.9 W  
Rated Speed: 3200 RPM  
Max. Air Flow: 98.88 CFM (168.0 m<sup>3</sup>/h / 2.80 m<sup>3</sup>/min)  
Max. Static Pressure: 10.20 mmH<sub>2</sub>O (100.0 Pa / 0.40 inAq)  
Working Air Flow: 168.0 m<sup>3</sup>/h  
Static Pressure Increase: 100.0 Pa  
Optimal Operating Point: 104.0 m<sup>3</sup>/h @ 40.0 Pa  
Sound Power Level: 5.6 Bel(A)  
Sound Pressure Level: 49.0 dB(A)  
Motor Protection: Electronic blocking / Reverse polarity protection  
Service Life (L10): 85,000 h (40 °C) / 40,000 h (75 °C)  
Life Expectancy (L10Δ): 142,500 h (40 °C, IPC 9591)  
Isolation Resistance: RI > 10 MΩ (500 VDC / 1 min)  
Housing Material: Metal (Die-cast aluminum)  
Impeller Material: Plastic (Glass-fiber reinforced PA)  
Direction of Rotation: Clockwise (viewed toward rotor)  
Airflow Direction: Intake over struts  
Ambient Temperature (Max.): 75 °C  
Min. Operating Temperature: -30 °C  
Standard Compliance: CE; EAC; UL 507; VDE; CSA

#### Application

The ebmpapst 4184N/2X axial fan is the primary cooling component for industrial frequency converters and power supply modules requiring integrated Tacho speed monitoring and robust metal housing.

## **Product Images**

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Scan for product details:

