

# 4114N/2H3P-309 ebmpapst 24V 119x119x38mm DC Axial Fan

**SKU:** 4114N/2H3P-309

**Price:** \$169.99

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/4114n-2h3p-309-ebmpapst-24v-119x119x38mm-dc-axial-fan/>

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## Product Description

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The ebmpapst 4114N/2H3P-309 (9694300309) is a specialized 24 V DC Axial Fan with dimensions of 119 x 119 x 38 mm, meticulously engineered for precision thermal management in high-end Siemens drive systems and industrial electronics. This unit features a sophisticated 4-wire interface, including an integrated PWM speed control input and a speed signal (FG) output for real-time monitoring. Driven by an electronically commutated external rotor motor with auto-restart locked-rotor protection, it delivers a precise Max. Power Consumption of 22.0 W and a Max. Current Draw of 0.92 A at 24 V DC. Operating at a peak rated speed of 5000 RPM, it provides a high-velocity airflow of 285.0 m<sup>3</sup>/h (167.7 CFM) to maintain optimal temperature in high-power VFD cabinets. Constructed with a die-cast aluminum metal housing and a 5-blade glass-fiber reinforced plastic impeller with precision dual ball bearings, this 390 g unit ensures maximum cooling performance and long-term mechanical stability for integrated industrial switchgear systems at the end.

4114N/2H3P-309 Fan Parameters

Model Number: 4114N/2H3P-309

Part Number: 9694300309

Manufacturer: ebmpapst

Type: DC Axial Fan (PWM Control)

Dimensions: 119.0 x 119.0 x 38.0 mm

Weight: 390 g

Bearing Type: Ball bearing

Nominal Voltage: 24 V DC

Voltage Range: 16.0 - 30.0 V DC

Max. Power Consumption: 22.0 W

Max. Current Draw: 0.92 A (920 mA)  
Starting Current: 1.50 A  
Rated Speed: 5000 RPM  
Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)  
Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)  
Working Air Flow: 285.0 m<sup>3</sup>/h (167.7 CFM)  
Static Pressure Increase: 215 Pa (0.86 inH<sub>2</sub>O)  
Speed Control: PWM (Pulse Width Modulation)  
Speed Signal: Open Collector (Tachometer output)  
Motor Protection: Auto-restart locked rotor and reverse polarity protection  
Insulation Class: Class E  
Electrical Hookup: 4 lead wires (Red: +UB, Blue: GND, White: FG, Violet: PWM)  
Wire Length: 310 mm (22 AWG)  
Number of Blades: 5  
Direction of Rotation: Clockwise (viewed toward rotor)  
Airflow Direction: Intake over struts  
Housing Material: Metal (Die-cast aluminum)  
Impeller Material: Glass-fiber reinforced PA plastic  
Operation Mode: S1 (Continuous operation)  
Sound Power Level: 6.6 bel(A)  
Sound Pressure Level: 57.0 dB(A)  
Service Life (L10): 70,000 h (at 40 °C) / 35,000 h (at 70 °C)  
Operating Temperature: -20 - +70 °C  
Storage Temperature: -40 - +80 °C  
Degree of Protection: IP20  
Standard Compliance: DIN EN 60335; CE; EAC  
Approval Agency: VDE; CSA; UL

#### Application

The ebmpapst 4114N/2H3P-309 DC fan is designed for Siemens SINAMICS drive cooling and high-density industrial control cabinets requiring precise PWM-based variable speed thermal control.

## Product Images

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Scan for product details:

