

# 3412NHH ebmpapst 12V 2.5W 0.24A 92mm 9225 DC Axial Fan

**SKU:** 3412NHH

**Price:** \$48.00

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.elecspares.com/product/3412nhh-ebmpapst-12v-2-5w-0-24a-92mm-9225-dc-axial-fan/>

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## Product Description

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The ebmpapst 3412NHH is a high-performance compact DC axial fan from the 3400 N series, specifically engineered for precision thermal management in high-density electronic environments. Operating on a 12 VDC nominal supply within a functional range of 8.0 - 13.2 VDC, this unit features a specialized brushless motor that achieves a nominal speed of 3250 RPM with an optimized power consumption of 2.9 W and a current draw of 0.24 A. The unit is housed in a 92 x 92 x 25 mm glass-fiber reinforced PBT plastic frame with a PA plastic impeller, delivering an airflow of 102 m<sup>3</sup>/h. Designed for extreme reliability, the 3412 NHH employs a high-grade ball bearing system and offers protection against reverse polarity and blocked rotors, ensuring a service life of 70000 h at 40 °C in environments ranging from -20 °C to 60 °C.

3412 NHH Fan Parameters

Manufacturer: ebmpapst

Model Number: 3412NHH

Type: DC axial fan

Nominal Voltage: 12 VDC

Nominal Voltage Range: 8.0 - 13.2 VDC

Dimensions: 92 x 92 x 25 mm

Impeller Size: 88 mm

Weight: 0.100 kg

[Electrical Data]

Nominal Speed: 3250 RPM

Power Consumption: 2.9 W

Current Draw: 0.24 A

Cable: Leads AWG 24, TR 64, stripped and tin-plated

Motor Protection: Protection against reverse polarity and blocked rotor

Option: Speed signal (available as a variant)

Insulation Class: E

[Performance & Acoustics]

Max. Air Flow: 102 m<sup>3</sup>/h (60.0 CFM)

Sound Power Level: 5.1 B

Sound Pressure Level: 39 dB(A)

Direction of Rotation: Counterclockwise (viewed toward rotor)

Airflow Direction: Exhaust over struts

[Materials & Construction]

Housing Material: Glass-fiber reinforced PBT plastic

Impeller Material: Glass-fiber reinforced PA plastic

Storage (Bearing): Ball bearing

Number of Blades: 3

Installation Position: Any (Shaft horizontal or vertical)

[Reliability & Protection]

Degree of Protection: IP20

Min. Ambient Temperature: -20 °C

Max. Ambient Temperature: 60 °C

Min. Storage Temperature: -40 °C

Max. Storage Temperature: 80 °C

Service Life (L10) @ 40 °C: 70000 h

Service Life (L10) @ Max Temp: 45000 h

Approval: VDE, CSA, UL

Application

The ebmpapst 3412NHH axial fan is specifically engineered for high-performance cooling in industrial automation and server hardware where its 92 x 92 x 25 mm compact frame and 3250 RPM motor are required to deliver a critical 102 m<sup>3</sup>/h airflow for thermal regulation, while its ball bearing system and 2.9 W power-efficient design ensure stable 12 VDC operation and extended service life in mission-critical environments from -20 °C to 60 °C.

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## Product Images

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Scan for product details:

