

4114N/2H7P ebmpapst 24V 3.8A 90W 119mm DC Axial Fan

SKU: 4114N/2H7P

Price: \$219.99

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/4114n-2h7p-ebmpapst-24v-3-8a-90w-119mm-dc-axial-fan/>

Product Description

The ebmpapst 4114N/2H7P is an ultra-high-performance DC Axial Fan with dimensions of 119 x 119 x 38 mm. As a flagship of the S-Force high-output series, this fan features an advanced 3-phase motor drive and electronically commutated external rotor technology. Operating at a nominal 24 VDC, it is rated at 90 W with a current draw of 3.8 A, achieving a powerful rotational speed of 9500 RPM. This model is characterized by its 4-wire interface, providing integrated PWM speed control and a Tacho signal output for precise thermal management. Encased in a rugged die-cast aluminum housing with a glass-fiber reinforced plastic impeller, it is the definitive choice for cooling high-density server racks, 5G telecommunications infrastructure, and high-performance industrial inverters where overcoming extreme system resistance is critical.

4114N/2H7P Fan Parameters

Manufacturer: ebmpapst

Model Number: 4114N/2H7P

Type: DC Axial Fan (S-Force Series)

Dimensions: 119 x 119 x 38 mm

Nominal Voltage: 24 VDC

Operating Voltage Range: 16 to 30 VDC

Speed: 9500 RPM

Power Input: 90 W

Rated Current: 3.8 A

Max. Airflow: 335.5 CFM (570 m³/h)

Max. Static Pressure: 1050 Pa (4.22 inAq)

Noise Level: 78 dB(A)

Sound Power Level: 8.9 B

Weight: 425 g

Impeller Size: 110 mm

Termination: 4 Wire Leads

Bearing Type: Ball Bearing

Housing Material: Die-cast aluminum

Impeller Material: Glass-fiber reinforced PA plastic

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Exhaust over struts

Degree of Protection: IP20

Insulation Class: E

Life Expectancy (L10): 62,500 hours at 40 °C / 30,000 hours at 70 °C

Speed Control: PWM (Pulse Width Modulation)

Signal Output: Tacho signal (Speedometer)

Safety Protections: Soft start, Locked rotor protection, Reverse polarity protection

Approval: VDE, CSA, UL, CE

Application

The 4114N/2H7P is specifically engineered for "extreme impedance" cooling scenarios where air must be forced through high-density component arrays or restrictive filtration systems. Its 4-wire configuration allows for intelligent, demand-based cooling; the system can dynamically adjust the 9500 RPM speed via PWM to balance cooling performance with energy efficiency. This is vital for 1U/2U server chassis, high-power network switches, and industrial laser power supplies. The 3-phase drive ensures stable torque even at peak speeds, while the Tacho signal provides real-time health monitoring, ensuring that any deviation in the fan's performance is immediately detected in mission-critical hardware environments.

Product Images



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VUCF119YJJQS 4114 N/2H7P

24V \pm DC 3.8A 90W
(16V - 30V \pm DC)

+UB: RD	-GND: BU	
TACHO: WH	CTRL: VT	VP1
		EP

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