

4114N/2H8PU ebmpapst 24V 5A 119x119x38mm DC Axial Fan

SKU: 4114N/2H8PU

Price: \$249.56

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/4114n-2h8pu-ebmpapst-24v-5a-119x119x38mm-dc-axial-fan/>

Product Description

The ebmpapst 4114N/2H8PU is an ultra-high-performance 24 VDC DC Axial Fan with dimensions of 119 x 119 x 38 mm, specifically engineered for extreme thermal management in industrial frequency converters and high-density electrical control cabinets. Driven by a specialized brushless DC motor with integrated electronic protection and PWM speed control, this unit provides a massive power consumption of 120 W and a nominal current of 5.0 A at 24 VDC. Operating at an extraordinary rated speed of 11,000 RPM, it delivers a superior airflow for critical heat extraction. Constructed with a die-cast aluminum metal housing and a 5-blade high-strength plastic impeller featuring a precision ball bearing system, this 0.425 kg unit provides a robust air-moving solution with a noise level of 78 dB(A) and IP20 protection, ensuring maximum cooling performance and long-term mechanical stability for high-power inverters, variable frequency drives (VFD), and high-performance server systems at the end.

4114N/2H8PU Fan Parameters

Model Number: 4114N/2H8PU

Manufacturer: ebmpapst

Type: DC Axial Fan

Impeller Size: 119 mm

Dimensions: 119.0 x 119.0 x 38.0 mm

Weight: 0.425 kg

Bearing Type: Ball bearing

Nominal Voltage: 24 VDC

Voltage Range: 16.0 - 30.0 VDC

Nominal Power Consumption: 120 W

Nominal Current Draw: 5.0 A

Starting Current: 10.0 A
Rated Speed: 11,000 RPM
Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)
Max. Static Pressure: 72.40 mmH₂O (710 Pa / 2.85 inH₂O)
Working Air Flow: 570 m³/h
Static Pressure Increase: 710 Pa
Control Input: PWM (Speed control)
Speed Signal: Tacho signal (Open collector)
Motor Protection: Locked-rotor and reverse polarity protection
Insulation Class: Class E
Electrical Hookup: 4 lead wires (Red +, Blue -, Violet PWM, White Tacho)
Number of Blades: 5
Direction of Rotation: Clockwise (viewed toward rotor)
Airflow Direction: Exhaust over struts (Direction "V")
Housing Material: Metal (Die-cast aluminum)
Impeller Material: Plastic (Fibreglass-reinforced PA)
Operation Mode: S1 (Continuous operation)
Sound Power Level: 8.7 B
Sound Pressure Level: 78 dB(A)
Service Life (L10): 55,000 h (at 40 °C) / 27,500 h (at 70 °C)
Operating Temperature: -20 - +70 °C
Storage Temperature: -40 - +80 °C
Degree of Protection: IP20
Standard Compliance: EN 60335-1; CE
Approval Agency: VDE; CSA; UL; CCC; EAC

Application

The ebmpapst 4114N/2H8PU DC fan is primarily utilized in high-performance industrial frequency converters, power inverters, and high-density electrical control cabinet heat dissipation systems for extreme cooling.

Product Images







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