

RL90-18/06 ebmpapst 115V 121mm AC Centrifugal Fan

SKU: RL90-18/06

Price: \$78.75

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/rl90-18-06-ebmpapst-115v-121mm-ac-centrifugal-fan/>

Product Description

The ebmpapst RL90-18/06 (Model: VHS0090XQHCS / PN: 9214014024) is a professional-grade 115 VAC centrifugal fan featuring a forward-curved impeller, designed for high-pressure cooling in industrial control systems and infrastructure. Operating on a 115 VAC supply at 50/60 Hz, this unit delivers a dual-rated performance of 21/21 W with an effective output power of 1.37/2.37 W. Within its 121 x 121 x 37 mm glass-fiber reinforced PBT scroll housing and sheet steel base, it maintains a nominal speed of 2450/2550 RPM, generating 42 m³/h (24.7 CFM) of radial airflow. Engineered for durability, the RL90-18/06 features ball bearings and an IP20 protection rating, providing a robust thermal solution for environments from -30 °C to 85 °C.

RL90-18/06 Fan Parameters

Manufacturer: ebmpapst

Model Number: RL90-18/06

Part Number: 9214014024

Identification: VHS0090XQHCS

Phase: 1~

Type: AC Centrifugal Fan

Nominal Voltage: 115 VAC

Frequency: 50/60 Hz

Dimensions: 121 x 121 x 37 mm

Weight: 0.680 kg

[Electrical Data]

Nominal Speed: 2450/2550 RPM

Power Consumption (Input): 21/21 W

Power Output: 1.37/2.37 W

Current Draw: 240/230 mA

Termination: 2 leads AWG 22; Housing base with 6.3 x 0.8 mm flat plug for protective earth

Motor Protection: Impedance protection against overload

Insulation Class: B

[Performance & Acoustics]

Max. Air Flow: 42 m³/h (24.7 CFM)

Max. Static Pressure: 190 Pa (0.76 inAq)

Sound Power Level: 6.0 B

Direction of Rotation: Clockwise (viewed toward rotor)

Airflow Direction: Radial discharge through housing window

[Materials & Construction]

Housing Material: Glass-fiber reinforced PBT scroll; Sheet steel base

Impeller Material: Glass-fiber reinforced PA plastic

Motor Bearing: Ball Bearing

Mounting: Integrated mounting holes on scroll casing

[Reliability & Protection]

Degree of Protection: IP20

Min. Ambient Temperature: -30 °C

Max. Ambient Temperature: 85 °C

Service Life (L10): 37500 h at 40 °C (15000 h at 85 °C)

Standard Compliance: VDE, CSA, UL, CE

Application

The ebmpapst RL90-18/06 centrifugal fan is specifically engineered for high-impedance industrial cooling applications where its 121 x 121 x 37 mm scroll housing and forward-curved impeller are required to deliver a critical 42 m³/h airflow through dense electronic components, while its 115 VAC impedance-protected motor (21 W input) and IP20-rated construction ensure reliable 50/60 Hz operation and heat dissipation in mission-critical hardware from -30 °C to 85 °C.

Product Images







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