

DV4118NPR-197 ebmpapst 48VDC 120x120x38mm Diagonal Fan Datasheet



Brand: ebmpapst

SKU: 1009680200486

Category: Axial & Centrifugal Fans

Price: \$57.99

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Product Page:

<https://www.equipspares.com/product/dv4118npr-197-ebmpapst-48vdc-120x120x38mm-diagonal-fan>

Product Description

The ebmpapst DV4118NPR-197 is a high-efficiency Diagonal Fan engineered for demanding industrial cooling applications requiring substantial static pressure development. Utilizing advanced diagonal impeller geometry, this unit bridges the gap between axial and centrifugal designs, optimizing aerodynamic throughput while minimizing turbulence-induced noise. The robust construction features a die-cast aluminum housing that ensures structural rigidity and superior thermal management under continuous load. Powered by a precision-wound 48VDC motor with a wide operating range of 33-60V, it integrates maintenance-free ball bearings to maintain rotor stability and extend operational service life in harsh environments. This specific configuration is optimized for high-power density systems where reliable thermal impedance reduction is critical.

Model Number: DV4118NPR-197

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Product Type: DC Diagonal Fan

Rated Voltage: 48 VDC

Voltage Range: 33.0 - 60.0 VDC

Rated Current: 0.45 A

Power Consumption: 22.0 W

Rated Speed: 6000 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 317.8 CFM (540 m³/h / 9.0 m³/min)

Max. Static Pressure: 28.1 mmH₂O (275 Pa / 1.10 inH₂O)

Dimensions: 120 x 120 x 38 mm

Weight: 0.415 kg (0.91 lbs)

Housing Material: Die-cast Aluminum

Impeller Material: PA Plastic (Fiberglass Reinforced UL 94 V-0)

Operating Temperature: -20°C to +65°C

Storage Temperature: -40°C to +80°C

Life Expectancy: 70,000 Hours (40°C)

Termination: Quick Connect Leads

Ingress Protection: IP20

Insulation Class: E

Motor Protection: Reverse Polarity, Locked Rotor Protection

Mounting Orientation: Any

This high-performance cooling solution is specifically calibrated for heavy-duty machinery and critical electronics, serving as a direct replacement for Linde forklift ventilation systems. The DV4118NPR-197 excels in environments with high back-pressure requirements, such as densely packed server racks, telecommunications base stations, and industrial drive cooling. Operators rely on the DV4118NPR-197 for its consistent thermal regulation in variable voltage scenarios, ensuring the longevity of sensitive components in automation control panels and renewable energy inverters.

Supplemental Images

