

DV4114/12NR-189 ebm-papst 24VDC 440mA 119x119x38mm Fan Datasheet



Brand: ebmpapst

SKU: 580602545615

Category: Axial & Centrifugal Fans

Price: **\$162.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/dv4114-12nr-189-ebm-papst-24vdc-440ma-119x119x38mm-fan>

Product Description

The ebm-papst DV4114/12NR-189 is a high-efficiency Diagonal Compact Fan engineered for applications requiring significant static pressure development and sustained airflow. Utilizing advanced 24VDC motor technology, this unit features a mixed-flow impeller design that bridges the gap between axial and centrifugal performance, optimizing thermal impedance in high-density electronics. Constructed with a robust die-cast aluminum housing and fiber-reinforced plastic impeller, it ensures structural rigidity and long-term reliability under thermal stress. The aerodynamic profile minimizes turbulence-induced noise while maximizing throughput, making it an ideal solution for demanding industrial thermal management systems requiring consistent operation.

Model Number: DV4114/12NR-189

Brand: ebm-papst

Product Type: Diagonal Compact Fan

Rated Voltage: 24 VDC

Voltage Range: 16.0 - 30.0 VDC

Rated Current: 440 mA

Power Consumption: 10.5 W

Dimensions: 119 x 119 x 38 mm

Bearing Type: Ball Bearing

Max. Air Flow: 164.8 CFM (280 m³/h / 4.66 m³/min)

Max. Static Pressure: 22.43 mmH₂O (220 Pa / 0.88 inH₂O)

Rated Speed: 5000 RPM

Noise Level: 61 dB(A)

Housing Material: Die-cast Aluminum

Impeller Material: PA Plastic (UL94V-0)

Operating Temperature: -20°C to +65°C

Life Expectancy: 70,000 Hours (40°C)

Termination: Lead Wires

Weight: 375 g

Ingress Protection: IP20

Direction of Rotation: Counter-clockwise viewed toward rotor

The DV4114/12NR-189 is specifically designed for industrial environments where high component density creates significant resistance to airflow, necessitating higher static pressure than standard axial fans can provide. Common deployment scenarios include telecommunications base stations, server rack cooling systems, and frequency converters where consistent thermal dissipation is critical. The DV4114/12NR-189 excels in cooling power supplies and industrial automation control cabinets, ensuring operational stability in continuous-duty applications.