

R1G250-RA49-11 ebm-papst 48VDC 250mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 947925872811

Category: Axial & Centrifugal Fans

Price: **\$394.99**

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Product Page:

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Product Description

The ebm-papst R1G250-RA49-11 is a high-efficiency backward curved centrifugal fan engineered for demanding industrial thermal management applications. This unit utilizes advanced EC (Electronically Commutated) motor technology, which significantly reduces power consumption while maintaining superior aerodynamic performance compared to traditional AC counterparts. The impeller is constructed from fiberglass-reinforced plastic, ensuring structural rigidity and minimal deformation under high rotational loads. Its design optimizes airflow dynamics to lower acoustic noise levels while maximizing static pressure capabilities. The fan features a robust ball bearing system designed to withstand continuous operation, reducing thermal impedance and extending the service life of the component in critical cooling environments.

Model Number: R1G250-RA49-11

Brand: ebm-papst

Product Type: Backward Curved Centrifugal Fan

Motor Type: EC Motor (M1G074-BF)

Rated Voltage: 48 VDC

Voltage Range: 36 - 57 VDC

Rated Power: 98 W

Rated Current: 2.3 A

Rated Speed: 2550 RPM

Max. Air Flow: 794.6 CFM (1350 m³/h)

Max. Static Pressure: 460 Pa (1.85 inH₂O)

Impeller Diameter: 250 mm

Bearing Type: Ball Bearing

Weight: 2.2 kg

Noise Level: 68 dB(A)

Material (Impeller): PA Plastic (Glass-fiber reinforced)

Direction of Rotation: Clockwise, viewed toward rotor

Ingress Protection: IP20

Insulation Class: Class B

Motor Protection: Reverse polarity and locked-rotor protection

Speed Control: 0-10 VDC / PWM Control input

Signal Output: Tachometer Output

Operating Temperature: -25°C to +60°C

Approvals: CSA, UL, VDE, CE

Cable Length: Variable (standard lead wires)

Number of Blades: 7

The R1G250-RA49-11 is frequently deployed in high-density server rack cooling systems where consistent airflow is critical for preventing hardware failure. Its compact yet powerful design makes the R1G250-RA49-11 ideal for telecommunications base stations and cabinet ventilation, ensuring sensitive electronics remain within safe operating temperatures. Additionally, this model is utilized in industrial automation equipment and medical devices requiring reliable air movement. The R1G250-RA49-11 provides the necessary pressure to overcome system resistance in complex ducting or tightly packed enclosures.

Supplemental Images

