

R1G175-RC02-11 ebmpapst 48VDC 175mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 943745565953

Category: Axial & Centrifugal Fans

Price: \$253.99

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Product Page:

<https://www.equipspares.com/product/r1g175-rc02-11-ebmpapst-48vdc-175mm-centrifugal-fan>

Product Description

The ebmpapst R1G175-RC02-11 is a high-efficiency Centrifugal Fan engineered for precision thermal management in demanding industrial environments. Utilizing advanced DC external rotor motor technology, this motorized impeller features a backward-curved blade design that optimizes aerodynamic efficiency while minimizing acoustic resonance and turbulence. The unit is constructed with robust materials to ensure structural rigidity and long-term reliability under continuous operation. Its integrated electronics provide superior control, maintaining low thermal impedance across critical components. Designed for high-static pressure applications, the R1G175-RC02-11 delivers consistent airflow performance, making it an essential component for systems requiring rigorous thermal dissipation and stable operating conditions.

Model Number: R1G175-RC02-11

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Product Type: Centrifugal Fan / Motorized Impeller

Rated Voltage: 48VDC

Voltage Range: 36.0 - 57.0 VDC

Rated Current: 0.8 A

Power Consumption: 38.4 W

Rated Speed: 3100 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 335 CFM (570 m³/h)
Max. Static Pressure: 1.8 inH₂O (450 Pa)
Impeller Diameter: 175 mm
Weight: 0.75 kg
Life Expectancy: 50,000 Hours (L10 at 40°C)
Motor Technology: DC External Rotor
Impeller Material: PA Plastic (Glass-fiber reinforced)
Direction of Rotation: Clockwise (viewed toward rotor)
Ingress Protection: IP20
Insulation Class: Class B
Operating Temperature: -20°C to +60°C
Storage Temperature: -40°C to +80°C
Speed Control: 0-10V / PWM Control Input
Termination: Lead Wires
Certifications: CE, UL, CSA, VDE
Protection: Reverse Polarity, Locked Rotor Protection

The R1G175-RC02-11 is widely utilized in telecommunications infrastructure and high-density server rack cooling systems where space and efficiency are paramount. Its compact profile allows for seamless integration into ventilation units and industrial automation cabinets requiring reliable air movement against significant back pressure. Engineers frequently specify the R1G175-RC02-11 for medical diagnostic equipment and power inverters, ensuring critical components remain within safe thermal limits during peak operation.

Supplemental Images

