

# R1G225-AF11-21 ebm-papst 48VDC 225mm EC Centrifugal Fan Datasheet



**Brand:** ebmpapst

**SKU:** [739167878542](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$235.99**

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Product Page:

<https://www.equipspares.com/product/r1g225-af11-21-ebm-papst-48vdc-225mm-ec-centrifugal-fan>

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## Product Description

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The ebm-papst R1G225-AF11-21 is a high-efficiency Backward Curved Centrifugal Fan engineered with advanced GreenTech EC motor technology. Designed for critical thermal management, this unit features a robust motorized impeller configuration that optimizes aerodynamic throughput while minimizing structural resonance. The integration of maintenance-free ball bearings ensures long-term reliability and reduced thermal impedance under continuous operation. Its electronic commutation system provides precise speed regulation via PWM or analog control, delivering superior energy efficiency compared to traditional AC counterparts. The impeller is constructed from high-grade composite materials, ensuring structural rigidity and resistance to environmental stress in demanding industrial applications.

Model Number: R1G225-AF11-21

Brand: ebm-papst

Product Type: Backward Curved Motorized Impeller

Motor Technology: EC (Electronically Commutated)

Rated Voltage: 48VDC

Voltage Range: 36.0 - 57.0 VDC

Rated Current: 2.20 A

Power Consumption: 98 W

Rated Speed: 2700 RPM

Max. Air Flow: 465 CFM (790 m<sup>3</sup>/h / 13.16 m<sup>3</sup>/min)  
Max. Static Pressure: 46.9 mmH<sub>2</sub>O (460 Pa / 1.85 inH<sub>2</sub>O)  
Impeller Diameter: 225 mm  
Bearing Type: Ball Bearing  
Weight: 1.1 kg  
Life Expectancy: 60,000 Hours @ 40°C  
Speed Control: 0-10 VDC / PWM Control  
Output Signal: Tachometer Output  
Ingress Protection: IP20  
Insulation Class: Class B  
Noise Level: 69 dB(A)  
Impeller Material: PA Plastic (Glass-fiber reinforced)  
Number of Blades: 7  
Direction of Rotation: Clockwise (viewed toward rotor)  
Operating Temperature: -25°C to +60°C  
Storage Temperature: -40°C to +80°C  
Motor Protection: Reverse Polarity, Locked Rotor Protection  
Soft Start: Yes  
Approvals: UL, CSA, VDE, CE

The R1G225-AF11-21 is specifically designed for high-static pressure applications such as telecommunications base stations, server cabinet cooling, and precision air-conditioning units. Its compact footprint allows for seamless integration into inline duct fans and heat exchangers where space is at a premium but airflow cannot be compromised. Engineers frequently specify the R1G225-AF11-21 for medical ventilation systems and industrial control panel cooling, relying on its consistent performance curve to maintain optimal operating temperatures for sensitive electronics.

## Supplemental Images

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