

R3G250-AK41-71 ebmpapst 230VAC 250mm EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [837928856838](#)

Category: Axial & Centrifugal Fans

Price: **\$1,457.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/r3g250-ak41-71-ebmpapst-230vac-250mm-ec-centrifugal-fan>

Product Description

The ebmpapst R3G250-AK41-71 is a precision-engineered EC centrifugal fan designed for high-efficiency thermal management in demanding industrial environments. Featuring an advanced M3G084-DF EC motor, this unit integrates sophisticated electronics for seamless speed control and optimized energy consumption. The backward-curved impeller, constructed from high-grade composite materials, ensures superior aerodynamic performance while minimizing acoustic resonance. Equipped with maintenance-free ball bearings, the R3G250-AK41-71 delivers exceptional structural rigidity and longevity. Its robust thermal impedance characteristics and IP54 ingress protection make it suitable for continuous operation under variable load conditions, ensuring reliable airflow delivery in critical cooling applications requiring high static pressure capabilities.

Model Number: R3G250-AK41-71

Brand: ebmpapst

Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 230 VAC

Voltage Range: 200 - 277 VAC

Frequency: 50/60 Hz

Rated Current: 3.1 A

Power Input: 490 W

Rated Speed: 3390 RPM

Motor Type: M3G084-DF (EC Motor)

Impeller Diameter: 250 mm

Bearing Type: Ball Bearing

Max. Air Flow: 941 CFM (1600 m³/h / 26.6 m³/min)

Max. Static Pressure: 76.5 mmH₂O (750 Pa / 3.01 inH₂O)

Noise Level: 78 dB(A)

IP Rating: IP54

Insulation Class: Class B

Operating Temperature: -25°C to +60°C

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

Material (Electronics Housing): Die-cast Aluminum

Speed Control: 0-10 VDC / PWM Control input

Protection Features: Locked-rotor protection, Soft start, Thermal overload protection

Mounting Orientation: Any

Weight: 3.5 kg

Life Expectancy: 40,000 hrs @ 40°C

This high-performance air mover is engineered for critical infrastructure requiring consistent static pressure and airflow regulation. The R3G250-AK41-71 is frequently utilized in precision air conditioning units for data centers, ensuring optimal thermal regulation for server racks and IT equipment. Additionally, the R3G250-AK41-71 serves as a vital component in industrial ventilation systems, clean room filtration modules (FFUs), and variable frequency drive (VFD) cooling cabinets. Its EC technology makes it ideal for telecom base stations and heat exchangers where energy efficiency and precise controllability are paramount.

Supplemental Images

