

R3G250-RE07-07 ebm-papst 230V 250mm EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [977139446695](#)

Category: Axial & Centrifugal Fans

Price: **\$685.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/r3g250-re07-07-ebm-papst-230v-250mm-ec-centrifugal-fan>

Product Description

The ebm-papst R3G250-RE07-07 is a precision-engineered EC Centrifugal Fan designed for critical thermal management applications requiring high efficiency and compact integration. Utilizing advanced GreenTech EC motor technology (M3G055-CF), this unit delivers superior energy performance compared to traditional AC variants while maintaining a reduced acoustic footprint. The backward-curved impeller geometry is aerodynamically optimized to minimize turbulence and maximize static pressure capabilities. Constructed with a robust die-cast aluminum housing and glass-fiber reinforced plastic impeller, the fan ensures structural rigidity and long-term durability under continuous operation. Its sophisticated electronic commutation system allows for precise speed modulation via 0-10V or PWM interfaces, optimizing thermal impedance in high-density electronic enclosures and industrial machinery.

Model Number: R3G250-RE07-07

Brand: ebm-papst

Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 230VAC

Frequency: 50/60Hz

Voltage Range: 200 - 240 VAC

Rated Power: 170 W

Rated Current: 1.35 A

Rated Speed: 2570 RPM
Max. Air Flow: 788.7 CFM (1340 m³/h)
Max. Static Pressure: 2.21 inH₂O (550 Pa)
Impeller Diameter: 250mm
Bearing Type: Ball Bearing
Motor Type: M3G055-CF
Speed Control: 0-10 VDC / PWM Control
Output: Tach Output
Ingress Protection: IP54
Insulation Class: B
Housing Material: Die-cast Aluminum
Impeller Material: PA Plastic (Glass-fiber reinforced)
Mounting Orientation: Any
Direction of Rotation: Clockwise (viewed toward rotor)
Operating Temperature: -25°C to +60°C
Storage Temperature: -40°C to +80°C
Weight: 2.6 kg
Life Expectancy: 40,000 Hours (L10 at 40°C)
Certifications: CE, UL 1004-7, CSA C22.2 No. 77, CCC, EAC
Protection: Thermal Overload Protector (TOP), Reverse Polarity, Locked Rotor

The R3G250-RE07-07 is specifically engineered for high-demand industrial environments requiring reliable airflow and pressure stability. Primary deployment scenarios include cooling systems for variable frequency drives (VFDs), solar inverters, and large-scale power converters where heat dissipation is critical. Additionally, the R3G250-RE07-07 serves effectively in IT infrastructure, such as server rack cooling modules and telecommunications base stations, as well as in precision air conditioning units and medical diagnostic equipment requiring low-vibration operation.

Supplemental Images

