

R3G560-RB31-77 ebmpapst 380-480VAC 560mm Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [921993832418](#)

Category: Axial & Centrifugal Fans

Price: **\$2,380.99**

E-mail: sales@equipspares.com

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Product Description

The ebmpapst R3G560-RB31-77 is a high-efficiency EC centrifugal fan module designed for demanding industrial ventilation requirements. Utilizing advanced RadiCal backward-curved impeller geometry, this unit optimizes aerodynamic throughput while significantly reducing turbulence-induced noise and structural vibration. The integrated EC motor technology provides superior energy efficiency compared to traditional AC variants, offering precise speed control and reduced thermal impedance within the system. Engineered with robust materials for structural rigidity, the fan ensures reliable operation under continuous loads. Its sophisticated commutation electronics manage power delivery effectively, making it suitable for applications requiring consistent airflow and long-term durability in complex thermal environments.

Model Number: R3G560-RB31-77

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Product Type: EC Centrifugal Fan (RadiCal)

Rated Voltage: 400 VAC

Voltage Range: 380 - 480 VAC (3-Phase)

Frequency: 50/60 Hz

Rated Current: 4.43 A

Power Consumption: 2900 W

Rated Speed: 1650 RPM

Impeller Diameter: 560 mm
Motor Type: M3G150-FF (EC Motor)
Bearing Type: Maintenance-free Ball Bearing
Max. Air Flow: 8240 CFM (14000 m³/h)
Max. Static Pressure: 4.82 inH₂O (1200 Pa)
Blade Material: PA Plastic (Glass-fiber reinforced)
Rotor Material: Aluminum
Housing Material: Galvanized Sheet Steel
Ingress Protection: IP54
Insulation Class: F
Motor Protection: Thermal Overload Protector (TOP) wired internally
Speed Control: 0-10 VDC / PWM / MODBUS
Operating Temperature: -25°C to +60°C
Mounting Orientation: Shaft horizontal or rotor on bottom
Number of Blades: 7
Phase: 3~
Weight: 33.5 kg
Approvals: UL, CSA, CE, VDE

This unit is engineered for critical air handling systems where reliability and efficiency are paramount. Common deployments include large-scale data center cooling units, precision air conditioning for server rooms, and industrial ventilation systems requiring high static pressure capabilities. The R3G560-RB31-77 excels in rooftop units and air handling units (AHUs) where space optimization and energy conservation are required. Furthermore, the R3G560-RB31-77 is frequently utilized in cleanroom filtration systems and complex process cooling applications, ensuring consistent thermal regulation across sensitive equipment infrastructure.

Supplemental Images

