

K3G220-RD53-03 ebmpapst 230VAC 220mm EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 748505312008

Category: Axial & Centrifugal Fans

Price: \$1,020.99

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/k3g220-rd53-03-ebmpapst-230vac-220mm-ec-centrifugal-fan>

Product Description

The ebmpapst K3G220-RD53-03 is a high-efficiency EC Centrifugal Fan module designed for precision air movement in demanding industrial environments. Utilizing GreenTech EC motor technology, this unit integrates sophisticated commutation electronics directly into the rotor hub, optimizing thermal impedance and reducing energy consumption compared to standard AC equivalents. The RadiCal backward-curved impeller is constructed from glass-fiber reinforced composite PA plastic, ensuring structural rigidity and superior aerodynamic performance. This advanced design minimizes turbulence and acoustic noise while maintaining high static pressure capabilities. The unit features robust ingress protection and advanced speed control interfaces, making it suitable for variable air volume systems requiring reliable, maintenance-free operation and precise thermal regulation.

Model Number: K3G220-RD53-03

Brand: ebmpapst

Product Type: EC Centrifugal Fan (RadiCal)

Rated Voltage: 230 VAC

Voltage Range: 200 - 277 VAC

Frequency: 50/60 Hz

Phase: 1~

Rated Power: 85 W

Rated Current: 0.75 A
Rated Speed: 2580 RPM
Max. Air Flow: 529.7 CFM (900 m³/h / 15 m³/min)
Max. Static Pressure: 46.9 mmH₂O (460 Pa / 1.85 inH₂O)
Impeller Diameter: 220 mm
Bearing Type: Ball Bearing
Motor Type: M3G055-CF
Weight: 1.6 kg
IP Rating: IP54
Insulation Class: Class B
Impeller Material: PA Plastic (Glass-fiber reinforced)
Housing Material: PA Plastic
Speed Control: 0-10 VDC / PWM Control
Signal Output: Tach Output
Operating Temperature: -25°C to +60°C
Storage Temperature: -40°C to +80°C
Motor Protection: Thermal Overload Protector (TOP) wired internally
Number of Blades: 7
Mounting Orientation: Any
Leakage Current: ≤ 3.5 mA
Certifications: CE, CSA, UL, VDE, CCC

The K3G220-RD53-03 is engineered for critical ventilation tasks within compact air handling units, electronics cooling, and precision climate control systems. Its high-pressure capability makes it ideal for inline duct fans, clean room filtration modules, and heat exchangers where system resistance is significant. Operators frequently deploy the K3G220-RD53-03 in server rack cooling arrays and telecommunications base stations due to its efficient EC modulation and compact footprint. Additionally, this model serves effectively in industrial cabinet cooling and medical device airflow management, ensuring consistent thermal regulation under varying load conditions.

Supplemental Images

