

R3G630-RB32-71 ebmpapst 380-480VAC 630mm EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: 1015161627515

Category: Axial & Centrifugal Fans

Price: \$3,428.99

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Product Description

The ebmpapst R3G630-RB32-71 is a high-efficiency EC centrifugal fan designed for demanding industrial ventilation requirements. Featuring advanced GreenTech EC motor technology, this unit integrates a Variable Speed Drive (VSD) to optimize aerodynamic performance and reduce energy consumption significantly compared to AC counterparts. The backward-curved RadiCal impeller is engineered with high-performance composite materials to minimize noise generation while maximizing structural rigidity and airflow throughput. With a robust IP55 ingress protection rating, the motor ensures reliable operation in harsh environments, maintaining low thermal impedance and exceptional longevity under continuous load conditions.

Model Number: R3G630-RB32-71

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Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 380-480 VAC

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

Frequency: 50 / 60 Hz

Rated Current: 4.2 A

Power Input: 2800 W

Rated Speed: 1250 RPM (Nominal)

Impeller Diameter: 630mm

Motor Technology: GreenTech EC Motor (M3G Series)

Bearing Type: Maintenance-free Ball Bearing

Max. Air Flow: Approx. 8000 CFM (13590 m³/h)

Max. Static Pressure: Approx. 3.2 inH₂O (800 Pa)

Ingress Protection: IP55

Speed Control: Integrated VSD (0-10V / PWM / MODBUS)

Impeller Material: PA Plastic (Glass-fiber reinforced)

Electronics Housing Material: Die-cast Aluminum

Insulation Class: F

Operating Temperature: -25°C to +60°C

Mounting Orientation: Shaft horizontal or rotor on bottom

Protection Features: Locked-rotor protection, Soft start, Phase failure detection

Weight: Approx. 28.5 kg

The R3G630-RB32-71 is engineered for critical air handling units (AHUs) and precision cooling systems where reliability is paramount. Commonly deployed in large-scale data center cooling arrays and industrial ventilation retrofits, the R3G630-RB32-71 ensures consistent airflow management. Its integrated electronics make it ideal for cleanroom filtration systems and variable air volume (VAV) applications requiring precise modulation.

Supplemental Images

