

R3G190-RC03-06 ebmpapst 200-240VAC 190mm IP54 EC Centrifugal Fan Datasheet



Brand: ebmpapst

SKU: [985965079047](#)

Category: Axial & Centrifugal Fans

Price: **\$228.99**

E-mail: sales@equipspares.com

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

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Product Description

The ebmpapst R3G190-RC03-06 is a precision-engineered EC centrifugal fan designed for optimal aerodynamic performance and superior energy efficiency. Utilizing advanced GreenTech EC motor technology, this unit integrates drive electronics directly into the rotor hub, significantly reducing thermal impedance while maintaining a compact structural footprint. The backward-curved impeller geometry is meticulously optimized to minimize turbulence and acoustic noise, ensuring stable airflow delivery even against high static pressure requirements. Constructed with high-grade materials for maximum structural rigidity, the fan features a maintenance-free ball bearing system that guarantees operational longevity. Its IP54 rating ensures robust protection against dust and moisture ingress, making it an ideal solution for demanding industrial environments requiring reliable thermal management and continuous duty cycles.

Model Number: R3G190-RC03-06

Brand: ebmpapst

Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 200-240 VAC

Frequency: 50/60 Hz

Rated Current: 0.53 A

Power Consumption: 60 W

Rated Speed: 2810 RPM

Impeller Diameter: 190 mm

Bearing Type: Ball Bearing

Motor Technology: EC (Electronically Commutated)

Motor Type: M3G055-CF

Ingress Protection: IP54

Max. Air Flow: Approx. 335 CFM (570 m³/h)

Min. Ambient Temperature: -25 C

Max. Ambient Temperature: +60 C

Insulation Class: B

Blade Material: PA Plastic (Glass-fiber reinforced)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Mounting Position: Shaft horizontal or rotor on bottom; rotor on top on request

Technical Features: Soft start, Motor current limitation, Control input 0-10 VDC / PWM, Tach output

Protection Class: I (if protective earth is connected by customer)

Touch Current: <= 3.5 mA

Approval: UL 1004-7, CSA C22.2 No. 77, CE

Weight: 1.4 kg

The R3G190-RC03-06 is widely utilized in critical ventilation and air conditioning systems where energy efficiency and precise control are paramount. Common deployments include inline duct fans, electronic cabinet cooling, and heat exchangers requiring sustained high pressure. The R3G190-RC03-06 excels in clean room technology and filtration units, providing consistent airflow to maintain strict environmental standards. Additionally, this model is frequently integrated into variable air volume (VAV) systems and compact air handling units within the telecommunications and industrial automation sectors.

Supplemental Images

