

# R3G225-RE07-20 ebm-papst 200-277V Ø225mm EC Centrifugal Fan Datasheet



**Brand:** ebmpapst

**SKU:** [778454577809](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$634.99**

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Product Page:

<https://www.equipspares.com/product/r3g225-re07-20-ebm-papst-200-277v-o225mm-ec-centrifugal-fan>

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## Product Description

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The ebm-papst R3G225-RE07-20 is a high-efficiency backward curved centrifugal fan designed for precision thermal management in industrial inverter and power electronic applications. Integrating advanced GreenTech EC motor technology, this unit delivers superior aerodynamic performance with significantly reduced power consumption compared to standard AC motors. The 7-blade polyamide impeller is engineered to optimize airflow while minimizing acoustic resonance and thermal impedance. Built with a robust die-cast aluminum electronics housing and maintenance-free ball bearings, the fan ensures structural rigidity and operational longevity. It features sophisticated integrated electronics for speed control and system monitoring, providing a stable and responsive cooling solution for critical infrastructure.

Model Number: R3G225-RE07-20

Brand: ebm-papst

Product Type: EC Centrifugal Fan (Backward Curved)

Rated Voltage: 230 VAC

Voltage Range: 200 - 277 VAC

Frequency: 50 / 60 Hz

Rated Current: 1.25 A

Power Consumption: 170 W

Rated Speed: 2860 RPM

Max. Air Flow: 730 CFM (1240 m<sup>3</sup>/h)

Max. Static Pressure: 2.25 inH<sub>2</sub>O (560 Pa)

Bearing Type: Ball Bearing

Impeller Diameter: 225 mm

Weight: 2.4 kg

Motor Type: M3G055-CF

Motor Technology: EC (Electronically Commutated)

Impeller Material: PA Plastic (Polyamide, glass-fiber reinforced)

Number of Blades: 7

Ingress Protection: IP54

Insulation Class: B

Operating Temperature: -25 to +60 °C

Speed Control: 0-10 VDC / PWM Control Interface

Direction of Rotation: Clockwise (viewed toward rotor)

Mounting Position: Shaft horizontal or rotor on bottom

Termination: Lead wires

Protection Features: Locked-rotor protection, Soft start, Thermal overload protection, Reverse polarity

Compliance: CE, UL, CSA, CCC, EAC

Life Expectancy: 40,000 hrs (at 40°C)

The R3G225-RE07-20 is extensively utilized in the cooling of variable frequency drives (VFDs), solar inverters, and high-density power supplies where space and efficiency are paramount. Its precise speed control capabilities make it ideal for cleanroom technology, medical ventilation devices, and IT server rack cooling modules. Additionally, the R3G225-RE07-20 serves as a critical component in industrial automation cabinets, ensuring reliable heat dissipation for sensitive electronic control units.

## Supplemental Images

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