

# R3G190-RB01-08 ebmpapst 230VAC 190mm EC Centrifugal Fan

**SKU:** R3G190-RB01-08

**Price:** \$597.68

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r3g190-rb01-08-ebmpapst-230vac-190mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst R3G190-RB01-08 is a high-performance 230VAC EC Centrifugal Fan featuring a RadiCal® backward-curved, single-intake impeller specifically engineered for mission-critical cooling in Industrial Frequency Converters and precision air handling units. Driven by a high-efficiency EC external rotor M3G055-BD motor with integrated electronics and maintenance-free ball bearings, this 0.94 kg unit operates on a 230 VAC supply (range 200 - 240 VAC) delivering a Max. Power Consumption of 38 W and a Max. Current Draw of 0.38 A at a rated speed of 2370 RPM. This High-performance unit achieves a Max. Air Flow of 332.5 CFM (565.0 m<sup>3</sup>/h / 9.42 m<sup>3</sup>/min) and a Max. Static Pressure of 30.59 mmH<sub>2</sub>O (300.0 Pa / 1.20 inAq). Featuring intelligent speed regulation via 0-10V/PWM control input with SELV potential, Soft start, and Power limiter, this 7-blade unit with PP plastic construction is optimized for industrial VFD systems requiring advanced motor protection and efficient airflow in a thick-film passivated rotor design at the end.

R3G190-RB01-08 Fan Parameters

Model Number: R3G190-RB01-08

Motor Model: M3G055-BD

Manufacturer: ebmpapst

Type: EC Centrifugal Fan (RadiCal®, backward-curved, single-intake)

Impeller Size: 190 mm

Weight: 0.94 kg

Bearing Type: Ball bearing

Phase: 1~

Nominal Voltage: 230 VAC

Nominal Voltage Range: 200 - 240 VAC

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Max. Current Draw: 0.38 A

Max. Power Consumption: 38 W

Rated Speed: 2370 RPM

Max. Air Flow: 332.5 CFM (565.0 m<sup>3</sup>/h / 9.42 m<sup>3</sup>/min)

Max. Static Pressure: 30.59 mmH<sub>2</sub>O (300.0 Pa / 1.20 inAq)

Working Air Flow: 565.0 m<sup>3</sup>/h

Static Pressure Increase: 300.0 Pa

Efficiency Grade N: 59.4

Overall Efficiency  $\eta_{es}$ : 42.1%

Control Interface: Control input 0-10 VDC / PWM (Input resistance > 100 k $\Omega$ ; SELV potential)

Output Signal: Tach output (Speed signal)

Number of Blades: 7

Technical Features: Soft start; Power limiter; Motor current limitation; Line undervoltage detection; Over-temperature protected electronics / motor

Motor Protection: Electronic motor protection; Locked-rotor protection

Touch Current (IEC 60990):  $\leq 3.5$  mA

Insulation Class: "B"

Degree of Protection: IP54

Protection Class: I (if protective earth is connected)

Humidity Class: H1

Impeller Material: PP plastic

Electronics Housing Material: Die-cast aluminum

Rotor Surface: Thick-film passivated

Direction of Rotation: Clockwise (viewed toward rotor)

Installation Position: Any

Condensate Discharge Holes: None, open rotor

Mode: S1

Strength Class of Screws: 8.8

Ambient Temperature (Max.): 60 °C (Transport/Storage: +80 °C)

Min. Operating Temperature: -25 °C (Transport/Storage: -40 °C)

Standard Compliance: EN 60335-1; CE

Approval: CCC; EAC; CSA C22.2 No. 77; UL 1004-7

#### Application

The ebmpapst R3G190-RB01-08 centrifugal fan is the primary cooling component for industrial frequency converters and modular HVAC systems requiring intelligent EC speed regulation and RadiCal® aerodynamic efficiency.

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## Product Images

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Scan for product details:

