

R3G190-RC05-03 ebmpapst 230VAC 190mm EC Centrifugal Fan

SKU: R3G190-RC05-03

Price: \$397.12

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g190-rc05-03-ebmpapst-230vac-190mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G190-RC05-03 is a high-performance 230VAC EC Centrifugal Fan with dimensions of 190 x 190 x 71.4 mm, 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-BI motor with integrated electronics and maintenance-free ball bearings, this 1.1 kg unit operates on a 230 VAC supply (range 200 - 240 VAC) delivering a Max. Power Consumption of 83 W and a Max. Current Draw of 0.75 A at a rated speed of 3200 RPM. Featuring intelligent speed regulation via 0-10V/PWM, Soft start, and Motor current limit, this 7-blade unit with PA plastic construction incorporates a SELV control interface safely disconnected from the mains and a thick-layer passivated rotor. Optimized for industrial VFD systems, it complies with EN 61000-6-2 immunity standards and is designed for high operational reliability in an open-rotor, black-painted design at the end.

R3G190-RC05-03 Fan Parameters

Model Number: R3G190-RC05-03

Motor Model: M3G055-BI

Manufacturer: ebmpapst

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

Size: 190 mm

Dimensions: 190 x 190 x 71.4 mm

Weight: 1.1 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: 0.75 A

Max. Power Consumption: 83 W

Rated Speed: 3200 RPM

Control Interface: Control input 0-10 VDC / PWM (SELV potential safely disconnected)

Output Signal: Tach output; Output 10 VDC, max. 1.1 mA

Number of Blades: 7

Technical Features: Soft start; Motor current limit; Over-temperature protected electronics / motor; Locked-rotor protection

EMC Interference Immunity: Acc. to EN 61000-6-2 (industrial environment)

EMC Harmonics: Acc. to EN 61000-3-2/3

EMC Interference Emission: Acc. to EN 55022 (Class B)

Touch Current (IEC 60990): ≤ 3.5 mA

Insulation Class: "B"

Degree of Protection: IP54

Protection Class: I (if protective earth is connected)

Impeller Material: PA plastic

Electronics Housing Material: Die-cast aluminium

Rotor Surface: Thick layer passivated

Direction of Rotation: Clockwise (seen on rotor)

Cable Exit: Variable

Mounting Position: Any

Condensate Discharge Holes: None, open rotor

Mode: S1

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

Application

The ebmpapst R3G190-RC05-03 centrifugal fan is the primary cooling component for industrial frequency converters and high-efficiency ventilation systems requiring RadiCal® aerodynamic performance and EMC-compliant EC technology.

Product Images









Scan for product details:

