

# R3G250-RK55-05 ebmpapst 48VDC 250mm EC Centrifugal Fan

**SKU:** R3G250-RK55-05

**Price:** \$1,031.37

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r3g250-rk55-05-ebmpapst-48vdc-250mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst R3G250-RK55-05 is a high-efficiency RadiCal® EC centrifugal fan engineered for precision thermal management in DC-powered environments. Driven by the M3G055-CF external rotor motor with integrated control electronics, this 250 mm unit is optimized for 48 VDC operation, delivering a balanced 105 W of power at a rated speed of 2250 RPM. The specialized backward-curved impeller, crafted from glass-fiber reinforced plastic, provides superior aerodynamic efficiency and low noise emissions. This EC fan features integrated speed control via PWM or 0-10 VDC signals, allowing for dynamic airflow adjustment based on system cooling requirements. With its robust ball bearing system and IP54-rated motor protection, the R3G250-RK55-05 ensures reliable S1 continuous operation in telecommunications infrastructure, server racks, and industrial control systems where energy efficiency and compact integration are critical.

R3G250-RK55-05 Fan Parameters

Model Number: R3G250-RK55-05

Motor Number: M3G055-CF

Manufacturer: ebmpapst

Series: RadiCal® Series

Type: EC Centrifugal Fan (Backward-curved)

Size: 250 mm

Dimensions: 250 mm (Impeller diameter)

Weight: 1.6 kg

Bearing Type: Ball bearing

Nominal Voltage: 48 VDC

Voltage Range: 36.0 - 57.0 VDC

Power Consumption: 105 W

Nominal Current: 2.30 A

Speed: 2250 RPM

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Actual Air Flow: 1180 m<sup>3</sup>/h

Actual Static Pressure: 380 Pa

Sound Power Level: 6.8 Bel(A)

Sound Pressure Level: 60 dB(A)

Motor Design: EC external rotor motor with integrated electronics

Motor Protection: Reverse polarity and locked-rotor protection; soft start

Technical Features: PWM / 0-10 VDC control input; Tacho output

Insulation Class: Class B

Electrical Hookup: Lead wires

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: Radial

Impeller Material: Glass-fiber reinforced PA plastic

Housing Material: None (Motorized impeller)

Installation Position: Any

Degree of Protection: IP54

Operating Temperature: -25 - +60 °C

Service Life (L10 @ 40 °C): 62500 h

Standard Compliance: EN 60950-1, CE

Approval Agency: VDE, UL, CSA, CCC

#### Application

The ebmpapst R3G250-RK55-05 EC fan is primarily utilized in telecommunications base stations, 48V DC server cabinets, industrial battery cooling, and energy-efficient ventilation modules.

## Product Images

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Scan for product details:

