

# R3G250-AK41-71 ebmpapst 230VAC 250mm EC Centrifugal Fan

**SKU:** R3G250-AK41-71

**Price:** \$1,155.93

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/r3g250-ak41-71-ebmpapst-230vac-250mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst R3G250-AK41-71 is a high-performance 200-277 V single-phase GreenTech EC centrifugal fan featuring a 250 mm backward-curved RadiCal impeller made of hot-dip galvanized sheet steel. Driven by the powerful M3G084-DF external rotor motor, this unit achieves a maximum airflow of 1055 m<sup>3</sup>/h and a high static pressure increase of 689 Pa. Designed for precision industrial cooling, it integrates an RS-485 interface (via 0-10V/PWM control), an alarm relay, and passive PFC for optimized power factor. With its IP54-rated die-cast aluminum electronics housing and 11-blade high-strength design, the R3G250-AK41-71 provides exceptional reliability, soft start-up, and adaptive speed control for demanding thermal management and ventilation applications across an ambient temperature range of -25 °C to 45 °C.

R3G250-AK41-71 Fan Parameters

Model Number: R3G250-AK41-71

Manufacturer: ebmpapst

Motor Model: M3G084-DF

Series: RadiCal EC Centrifugal Series

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 250 mm

Dimensions: 250 x 250 x 147 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 200 - 277 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Weight: 4.5 kg

Power Consumption: 490 W

Nominal Current: 3.1 A

Speed: 3390 RPM (3395 RPM at peak point)

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)

Efficiency Grade (N): 62.6

Overall Efficiency ( $\eta_{es}$ ): 48.6%

Motor Design: Single-phase EC External Rotor Motor

Control Interface: 0-10 VDC / PWM

Technical Features: Integrated PID controller; Soft start; Motor current limitation; Passive PFC; 10 VDC output (max. 1.1 mA); Alarm relay; Line undervoltage detection

Motor Protection: Thermal overload protection for electronics/motor; Thermal switch auto reset

Insulation Class: Class B

Touch Current:  $\leq 3.5$  mA

Electrical Hookup: Variable cable

Number of Blades: 11

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Sheet steel, hot-dip galvanized

Electronics Housing Material: Die-cast aluminum

Rotor Surface: Painted black

Installation Position: Shaft horizontal or rotor on top

Condensation Drainage: None

Degree of Protection: IP54

Environmental Protection Class: H1 (Moist - occasional or constantly high humidity)

Operating Temperature: -25 - +45 °C

Standard Compliance: EN 61800-5-1, UKCA, CE

Approval Agency: VDE, CSA C22.2 No. 77, EAC, UL 1004-3, CCC

#### Application

The ebmpapst R3G250-AK41-71 is used in commercial refrigeration condensers, industrial heat exchangers, air conditioning units, cooling for electrical cabinets, and small-scale ventilation systems.

## Product Images

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Scan for product details:

