

R3G133-RA01-03 ebmpapst 230V 133mm EC Centrifugal Fan

SKU: R3G133-RA01-03

Price: \$465.69

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g133-ra01-03-ebmpapst-230v-133mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G133-RA01-03 is a highly advanced RadiCal® EC centrifugal fan engineered for precision ventilation and intelligent airflow management. Powered by the M3G045-AI external rotor motor, this 133 mm backward-curved unit features integrated electronics that allow for direct 200-240 VAC input while providing superior energy efficiency and seamless speed control. The design incorporates a 7-blade PP plastic impeller and a thick-film passivated rotor surface, housed within a durable die-cast aluminum electronics casing. A key technical advantage is its comprehensive suite of electronic features, including a 10 VDC output, Tacho feedback, and a versatile 0-10 VDC/PWM control interface with SELV potential safely disconnected from the supply. Built for S1 continuous operation with IP54 protection, the R3G133-RA01-03 meets stringent EMC standards for both industrial interference immunity and household emission levels, making it the definitive choice for high-end medical devices and compact cleanroom filter units.

R3G133-RA01-03 Fan Parameters

Model Number: R3G133-RA01-03

Motor Number: M3G045-AI

Manufacturer: ebmpapst

Series: RadiCal® Series

Type: EC Centrifugal Fan (Backward-curved)

Size: 133 mm

Motor Size: 45

Weight: 0.5 kg

Bearing Type: Ball bearing

Nominal Voltage: 230 VAC

Voltage Range: 200 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Power Consumption: 27 W

Nominal Current: 0.27 A

Speed: 3770 RPM

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Actual Air Flow: 275 m³/h

Actual Static Pressure: 340 Pa

Motor Design: EC external rotor motor with integrated electronics

Motor Protection: Electronic motor protection; Overvoltage/Undervoltage detection

Technical Features: Control input 0-10 VDC / PWM; Tach output; Output 10 VDC (max. 1.1 mA);

Soft start; Power/Current limiter; Thermal overload protection

Safety Features: SELV potential safely disconnected from supply; Touch current ≤ 3.5 mA

EMC Standards: EN 61000-6-2 (Immunity); EN 61000-6-3 (Emission); EN 61000-3-2/3

(Feedback)

Insulation Class: Class B

Moisture/Env. Protection: H1+

Electrical Hookup: Variable cable

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: Radial

Impeller Material: PP plastic

Rotor Surface: Thick-film passivated

Electronics Housing: Die-cast aluminum

Installation Position: Any

Condensation Drainage: None, open rotor

Degree of Protection: IP54

Protection Class: I

Operating Temperature: -25 - +60 °C

Standard Compliance: EN 60335-1, CE

Approval Agency: VDE, UL 1004-7, CSA C22.2, CCC, EAC

Application

The ebmpapst R3G133-RA01-03 EC fan is primarily utilized in medical diagnostic devices, laboratory fume hoods, compact fan filter units (FFU), and localized server cabinet cooling.

Product Images









Scan for product details:

