

R1G225-AF07-52 ebmpapst 24V 225mm EC Centrifugal Fan

SKU: R1G225-AF07-52

Price: \$177.13

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r1g225-af07-52-ebmpapst-24v-225mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R1G225-AF07-52 is a high-performance 24 VDC GreenTech EC centrifugal fan featuring a 225 mm backward-curved RadiCal impeller made of glass-fiber reinforced PA66 plastic. Driven by a compact M1G074-BF motor, this unit is engineered for precision air displacement in low-voltage applications, delivering a speed of 2600 RPM with a power consumption of 100 W. Designed for S1 continuous operation, it integrates advanced technical features including a 0-10 VDC/PWM control input, tachometer output for speed monitoring, and comprehensive reverse polarity and soft start protection. This SELV-compliant air-moving solution is ideal for telecommunications, industrial control cabinets, and battery-powered ventilation systems, maintaining high reliability and EMC industrial immunity across an ambient temperature range of -25 °C to 60 °C.

R1G225-AF07-52 Fan Parameters

Model Number: R1G225-AF07-52

Manufacturer: ebmpapst

Motor Model: M1G074-BF

Series: RadiCal EC Centrifugal Series

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 225 mm

Dimensions: 225 x 225 x 99 mm

Bearing Type: Ball Bearing

Nominal Voltage: 24 VDC

Voltage Range: 16.0 - 28.0 VDC

Weight: 1.5 kg

Power Consumption: 100 W

Nominal Current: 4.6 A

Speed: 2600 RPM

Control Interface: 0-10 VDC / PWM

Technical Features: Tach output; Soft start; Motor current limitation; Reverse polarity protection; Control input 0-10 VDC / PWM

Motor Design: DC External Rotor Motor (EC)

Safety Protection: SELV (Safety Extra-Low Voltage)

Insulation Class: Class B

Touch Current: < 0.75 mA

Termination: Variable cable

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)

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: PA66 plastic, glass-fiber reinforced

Rotor Surface: Painted black

Installation Position: Any

Condensate Discharge Holes: None

Degree of Protection: IP42

Environmental Protection Class: H0 (Dry environment)

Operating Temperature: -25 - +60 °C

EMC Compliance: EN 61000-6-2 (Immunity); EN 55022 Class B (Emission)

Standard Compliance: EN 62368-1, CE

Approval Agency: UL 1004-1, CSA C22.2 No. 77, EAC

Application

The ebmpapst R1G225-AF07-52 is used in telecommunications infrastructure, industrial control cabinets, battery-powered cooling systems, and mobile ventilation units.

Product Images







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