

R3G250-AY11-C1 ebmpapst 400VAC 250mm EC Centrifugal Fan

SKU: R3G250-AY11-C1

Price: \$914.24

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g250-ay11-c1-ebmpapst-400vac-250mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G250-AY11-C1 is a high-performance 400VAC 3-phase EC Centrifugal Fan with a 250 mm backward-curved aluminum impeller, specifically engineered for mission-critical cooling in Industrial Frequency Converters and high-capacity AHU systems. Driven by a high-torque M3G084-GF brushless EC motor with integrated electronics and precision ball bearings, this 6.4 kg unit operates within a 380 - 480 VAC range across 50/60 Hz frequencies, delivering a Max. Power Consumption of 820.0 W and a Max. Current Draw of 1.35 A at a rated speed of 3580 RPM. This High-performance unit features a 7-blade aerodynamic sheet aluminum impeller achieving a Max. Air Flow of 1805.0 m³/h (1062.4 CFM / 30.08 m³/min) and a Max. Static Pressure of 92.59 mmH₂O (908.0 Pa / 3.65 inH₂O). Featuring a maintenance-free structure and integrated RS-485 MODBUS-RTU interface with PWM speed control, this IP54-rated fan is optimized for environments requiring extreme high-pressure stability and intelligent system integration in industrial VFD and ventilation systems at the end.

R3G250-AY11-C1 Fan Parameters

Model Number: R3G250-AY11-C1

Manufacturer: ebmpapst

Motor Model: M3G084-GF

Type: EC Centrifugal Fan (Backward-curved)

Impeller Size: 250 mm

Weight: 6.4 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Voltage Range: 380 - 480 VAC

Frequency: 50 / 60 Hz

Max. Current Draw: 1.35 A

Max. Power Consumption: 820.0 W

Rated Speed: 3580 RPM

Max. Air Flow: 1062.4 CFM (1805.0 m³/h / 30.08 m³/min)

Max. Static Pressure: 92.59 mmH₂O (908.0 Pa / 3.65 inH₂O)

Working Air Flow: 1805.0 m³/h

Static Pressure Increase: 908.0 Pa

Overall Efficiency (η_{es}): 63.4 %

Control / Signal Output: RS-485 MODBUS-RTU; 0-10V / PWM Input; FG Speed Signal

Technical Features: Integrated PID controller; PFC (Passive); Soft start; Alarm relay

Output Voltages: 10 VDC (max. 10 mA) / 20 VDC (max. 50 mA) / 24 VDC input

Motor Protection: Thermal overload protection (TOP) internally connected; Phase failure detection

Insulation Class: Class B

Degree of Protection: IP54 / Protection Class I

Electrical Hookup: Terminal box

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Material: Sheet aluminum

Electronics Housing: Die-cast aluminum

Service Life: 45,000 h (at 40 °C)

Operating Temperature: -25 - +60 °C

Standard Compliance: EN 61800-5-1; CE; UL 1004-7; CSA C22.2; CCC; EAC

Application

The ebmpapst R3G250-AY11-C1 centrifugal fan is the primary cooling component for high-power industrial frequency converters, large-scale air handling units (AHU), and data center cooling systems requiring MODBUS-RTU communication and high-pressure performance in 400VAC 3-phase environments.

Product Images





Scan for product details:

