

R3G500-AP25-01 ebmpapst 400VAC 500mm EC Centrifugal Fan

SKU: R3G500-AP25-01

Price: \$2,181.41

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g500-ap25-01-ebmpapst-400vac-500mm-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G500-AP25-01 is a high-performance 380-480 V three-phase GreenTech EC centrifugal fan from the RadiPac series, featuring a 500 mm backward-curved aluminum impeller. Driven by a powerful M3G150-FF external rotor motor with integrated electronics, this unit achieves a maximum airflow of 8140 m³/h and an impressive static efficiency of 66.7%. The fan is engineered for intelligent thermal management, featuring a built-in PID controller, RS-485 Modbus RTU interface, and active power limiting for optimal energy consumption. With its robust IP55-rated die-cast aluminum electronics housing and maintenance-free ball bearings, the R3G500-AP25-01 provides superior reliability and precision speed control for large-scale industrial ventilation and mission-critical HVAC infrastructure.

R3G500-AP25-01 Fan Parameters

Model Number: R3G500-AP25-01

Manufacturer: ebmpapst

Motor Model: M3G150-FF

Series: RadiPac EC Centrifugal Series

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 500 mm

Dimensions: 500 x 500 x 365 mm

Bearing Type: Ball Bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Weight: 24.6 kg

Power Consumption: 2825 W

Nominal Current: 4.3 A

Speed: 1780 RPM (1790 RPM at peak point)

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)

Efficiency Grade (N): 72.4

Overall Efficiency (η_{es}): 66.7%

Motor Design: 3-Phase EC External Rotor Motor

Control Interface: 0-10 VDC / PWM / RS-485 Modbus RTU

Technical Features: Integrated PID controller; Soft start; Power limiter; PFC (passive); External 24 V input; 10 VDC & 20 VDC outputs; Sensor input (0-10 V or 4-20 mA); Alarm relay

Motor Protection: Reverse polarity, locked-rotor, and thermal overload protection

Insulation Class: Class F

Touch Current: ≤ 3.5 mA

Electrical Hookup: Terminal box

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Sheet aluminum

Electronics Housing Material: Die-cast aluminum

Rotor Surface: Painted black

Installation Position: Shaft horizontal or rotor on bottom

Condensation Drainage: Rotor side holes

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -25 - +60 °C

Standard Compliance: EN 61800-5-1, CE

Approval Agency: UL 1004-7, CSA C22.2 No. 77, EAC

Application

The ebmpapst R3G500-AP25-01 is used in high-efficiency air handling units (AHU), data center precision cooling, cleanroom ventilation, industrial heat exchangers, and smart building HVAC systems.

Product Images







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