



R3G500-AG25-01 ebmpapst

Brand: ebmpapst

SKU: R3G500-AG25-01

Category: EC Fans

URL: <https://www.fansco.com/item/r3g500-ag25-01-ebmpapst/>

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Product Description

R3G500-AG25-01 ebmpapst 500mm 1700RPM 2500W 3.9A Ball 4097CFM IP55 400VAC EC centrifugal module RadiPac Centrifugal Fan

The R3G500-AG25-01 is a backward-curved, single-intake EC centrifugal fan by ebm-papst, paired with the M3G150-FF motor, designed for industrial ventilation with robust performance and energy efficiency. Operating on a 3-phase 400VAC power supply (380–480VAC, 50/60Hz), it features a rated speed of 1700 rpm, 2500W power consumption, and 3.9A current draw, delivering reliable operation in high-load scenarios. With a 500mm diameter and 22.5kg weight, the fan incorporates a die-cast aluminum electronics housing and aluminum impeller, offering durability and corrosion resistance, while its IP55 protection rating ensures dust-tight and water jet-resistant performance in harsh environments. It operates at -25°C to 60°C ambient temperatures (storage: -40°C to 80°C) with an "F" insulation class for high-temperature tolerance.

At its optimal efficiency point, the fan achieves 6960 m³/h airflow and 724 Pa static pressure, with an overall efficiency of 58.8%—surpassing the 2015 regulatory requirement of 55.7%—and an efficiency grade N of 65.1 for energy savings. Equipped with advanced controls, it supports MODBUS-RTU communication, an integrated PID controller, and soft start for precise speed adjustment and remote monitoring, along with safety features like thermal overload protection and undervoltage detection. Certified to CE, UL 1004-7, EAC, and CAN/CSA-E60730-1, it is ideal for industrial ventilation, air conditioning systems, and heavy-duty applications, combining high-performance aerodynamics, rugged construction, and smart functionality to meet global safety and efficiency standards.

Technical Specifications

Attribute	Value
Part Number	R3G500-AG25-01
Manufacturer	ebm-papst
Air Flow	4097 CFM
Approval Agency	CE CSA EAC UL

Bearing Type	Ball Bearing
Current Rating	3.9 A
Dimensions	500 mm
Fan Speed	1700 RPM
Power Rating	2500 W
Fan Type	EC
Frequency	50/60 Hz
IP Rating	IP55
Voltage Rating	400 VAC
Operating Voltage	380 ~ 480 VAC
Series	R3G500
Termination	3 Wire Leads
Subcategory	EC centrifugal module RadiPac
Weight	22.5kg
Subcategory	Blowers & Centrifugal Fans





