R3G500-RA25-01 ebmpapst 400V EC Centrifugal Fan

SKU: R3G500-RA25-01

Price: $2,467.02

Categories: Fans

Tags: ebmpapst

Product Link:
https://www.elecspares.com/product/r3g500-ra25-01-ebmpapst-400v-ec-centrifugal-fan/

Product Description

The ebmpapst R3G500-RA25-01 is a high-performance EC centrifugal fan with an external rotor motor, measuring Ø500mm in size. This 3-phase fan operates at a nominal voltage of 400VAC within a broad range of 380-480VAC, and is suitable for both 50Hz and 60Hz frequencies. It consistently achieves a speed of 1700RPM, consumes 2650W of power, and draws 4.4A of current. The fan features robust ball bearings and has an impeller made of PP plastic with 9 blades, and a coated in black rotor surface. The electronics housing is constructed from die-cast aluminium.

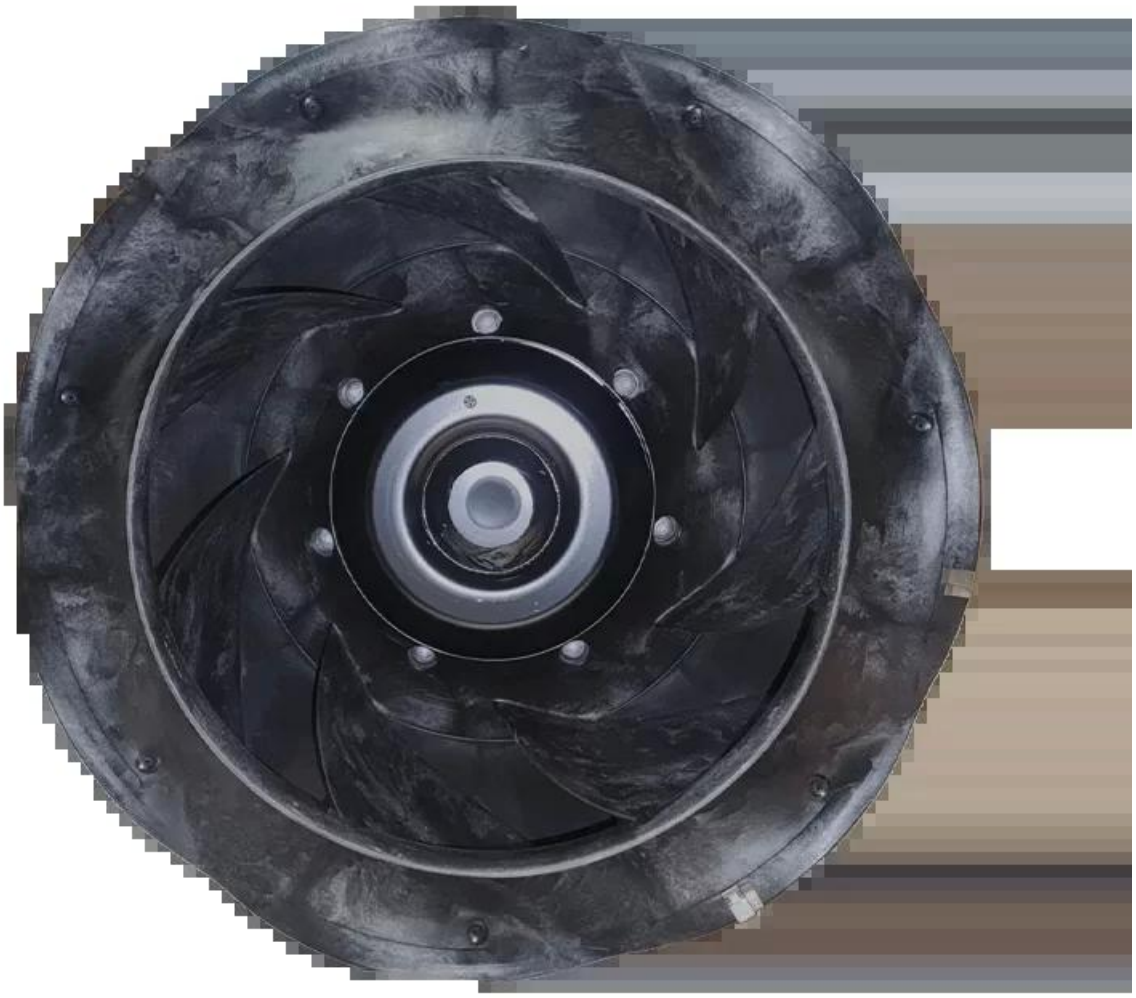
The R3G500-RA25-01 boasts an IP54 type of protection, insulation class "F", and Humidity class F4-1. It includes integrated technical features such as an integrated PID controller, passive PFC, soft start, motor current limit, and various outputs/inputs (e.g., 0-10VDC, 4-20mA for sensor input), and an alarm relay. Comprehensive motor protection includes reverse polarity and locked-rotor protection, over temperature protected electronics/motor, and line undervoltage/phase failure detection. Electrical connection is via a terminal box. The fan operates in S1 mode within an ambient temperature range of -25°C to 60°C, with transport/storage temperatures between -40°C and +80°C. Its mounting position can be shaft horizontal or rotor on bottom (rotor on top on request), and it features rotor-side condensate drainage holes. Conforming to EN 61000-6-1, it holds approvals including UL 1004-7 + 80730, EAC, C22.2 Nr.77, and CAN/CSA-E60730-1. This fan is suitable for industrial refrigeration and freezing equipment, ventilation systems, air conditioning units, and heat pumps.

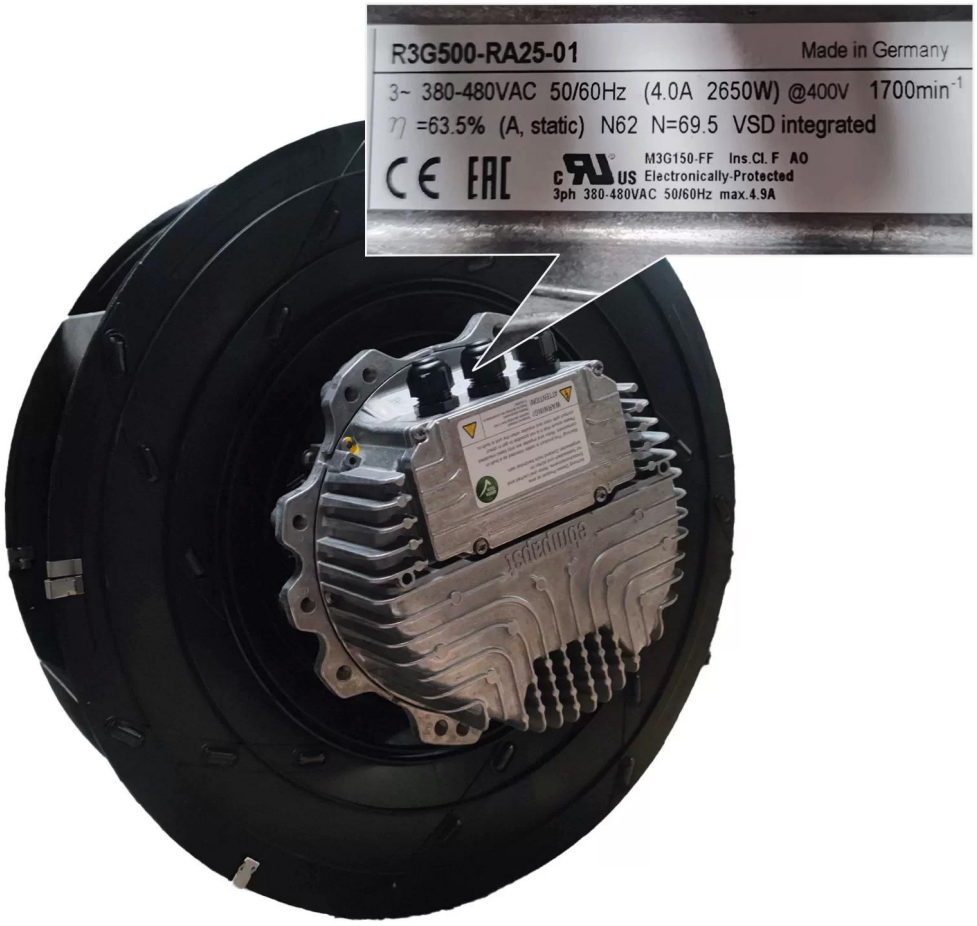
R3G500-RA25-01 Fan Parameters
Model: R3G500-RA25-01
Manufacturer: ebmpapst
Type: EC centrifugal fan

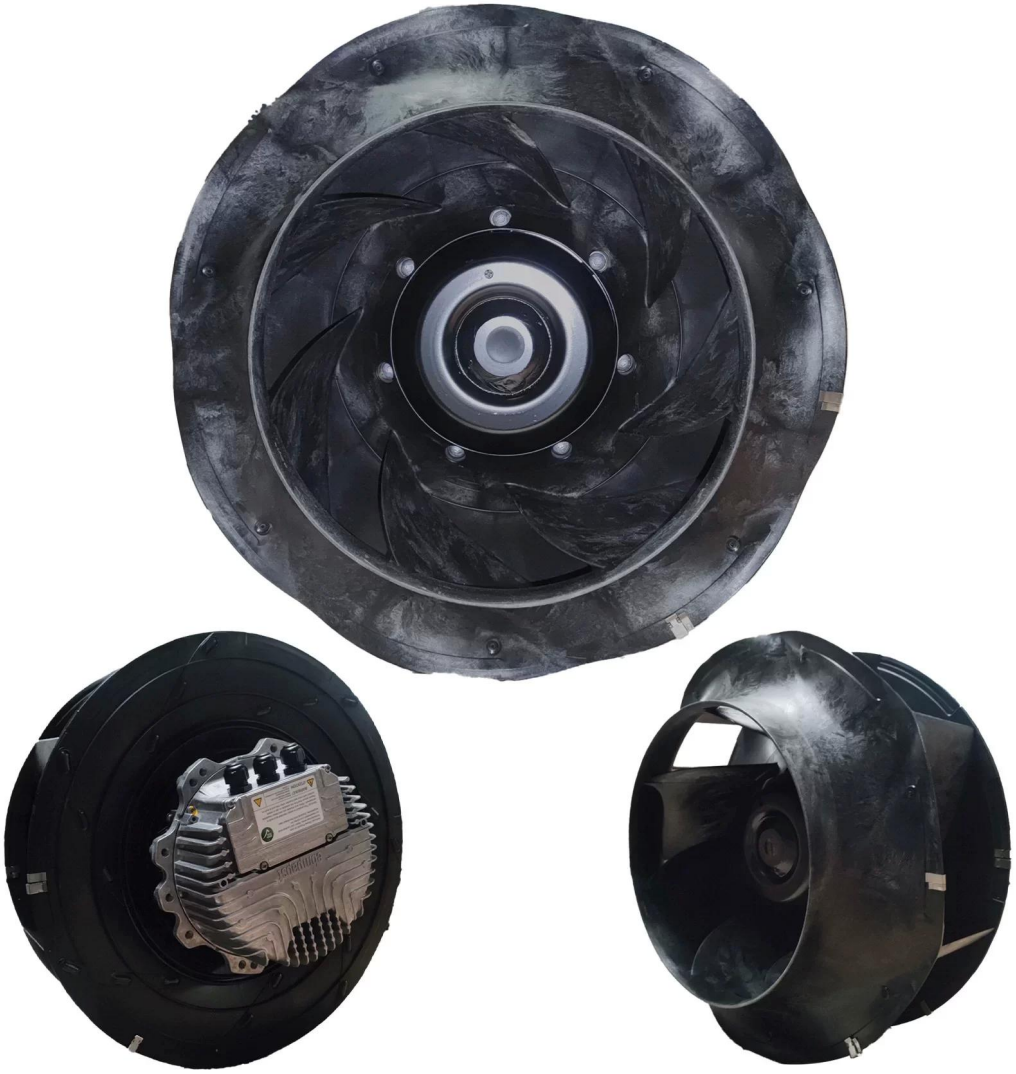
Motor: M3G150-FF
Dimensions (Size): Ø 500 mm
Phase: 3~
Nominal Voltage: 400 V AC
Nominal voltage range: 380 .. 480 V AC
Frequency: 50/60 Hz
Speed: 1700 RPM
Power input: 2650 W
Current draw: 4.4 A
Min. ambient temperature: -25 °C
Max. ambient temperature: 60 °C
Surface of rotor: Coated in black
Material of electronics housing: Die-cast aluminium
Material of impeller: PP plastic
Number of blades: 9
Direction of rotation: Clockwise, seen on rotor
Type of protection: IP 54
Insulation class: "F"
Humidity class: F4-1
Max. permissible ambient motor temp. (transp./storage): +80 °C
Min. permissible ambient motor temp. (transp./storage): -40 °C
Mounting position: Shaft horizontal or rotor on bottom; rotor on top on request
Condensate drainage holes: Rotor-side
Operation mode: S1
Motor bearing: Ball bearing
Technical features (Control/Monitoring): Output 10 VDC, max. 10 mA; Output 20 VDC, max. 50 mA; Output for slave 0-10V; Operation and alarm display; Input for sensor 0-10 V or 4-20 mA; External 24 V input (programming); External release input; Alarm relay; Integrated PID controller; Motor current limit; PFC passive; RS485 MODBUS RTU; Soft start; Control input 0-10 VDC / PWM; Control interface with SELV potential safely disconnected from the mains; Over temperature protected electronics / motor; Line undervoltage / phase failure detection
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system): <= 3.5 mA
Electrical leads: Via terminal box
Motor protection: Reverse polarity and locked-rotor protection
Protection class: I (if protective earth is connected by customer)
Product conforming to standard: EN 61000-6-1
Approval: UL 1004-7 + 80730, EAC, C22.2 Nr.77, CAN/CSA-E60730-1
Strength class for mounting screws: 8.8
Weight: 22.8 kg
Life Expectancy: For cyclic speed loads, note that the rotating parts of the device are designed for maximum one million load cycles.
Application: Industrial refrigeration and freezing equipment, ventilation systems, air

conditioning units, and heat pumps.

Product Images




R3G500-RA25-01
Made in Germany
3~ 380-480VAC 50/60Hz (4.0A 2650W) @400V 1700min-1
η =63.5% (A, static) N62 N=69.5 VSD integrated
M3G150-FF Ins.Cl. F A0
Electronically-Protected
3ph 380-480VAC 50/60Hz max.4.9A



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