

R3G450-AG33-01 ebmpapst 400V EC Centrifugal Fan

SKU: R3G450-AG33-01

Price: \$2,096.97

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/r3g450-ag33-01-ebmpapst-400v-ec-centrifugal-fan/>

Product Description

The ebmpapst R3G450-AG33-01 is a powerful EC centrifugal fan with an external rotor motor, measuring Ø450mm 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 1555RPM, consumes 1000W of power, and draws 1.85A of current.

The fan features robust ball bearings and has an impeller made of aluminium sheet with 6 blades, and a rotor surface coated in black. The electronics housing is constructed from die-cast aluminium. The R3G450-AG33-01 boasts an IP54 type of protection, insulation class "F", and Humidity class F4-1. It includes integrated electronics with features such as an integrated PID controller, passive PFC, soft start, motor current limit, RS485 MODBUS RTU, and various control outputs/inputs. Motor protection is provided by a thermal overload protector (TOP) wired internally, along with over-temperature protected electronics/motor and line undervoltage/phase failure detection. Electrical connection is via a terminal box with variable cable exit. 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 61800-5-1 and CE standards, it holds approvals including CCC, CSA C22.2 Nr.77, EAC, and UL 2111. This fan is suitable for industrial refrigeration and freezing equipment, ventilation systems, air conditioning units, and heat pumps.

R3G450-AG33-01 Fan Parameters

Model: R3G450-AG33-01

Manufacturer: ebmpapst

Type: EC centrifugal fan

Motor: M3G112-GA

Dimensions (Size): Ø 450 mm

Phase: 3~

Nominal Voltage: 400 V AC

Nominal voltage range: 380 .. 480 V AC

Frequency: 50/60 Hz

Speed: 1555 RPM

Power input: 1000 W

Current draw: 1.85 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: Aluminium sheet

Number of blades: 6

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 sensor 0-10 V or 4-20 mA; Analog delay; 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: Thermal overload protector (TOP) wired internally

Cable exit: Variable

Protection class: I (if protective earth is connected by customer)

Product conforming to standard: EN 61800-5-1; CE

Approval: CCC, CSA C22.2 Nr.77, EAC, UL 2111

Strength class for mounting screws: 8.8

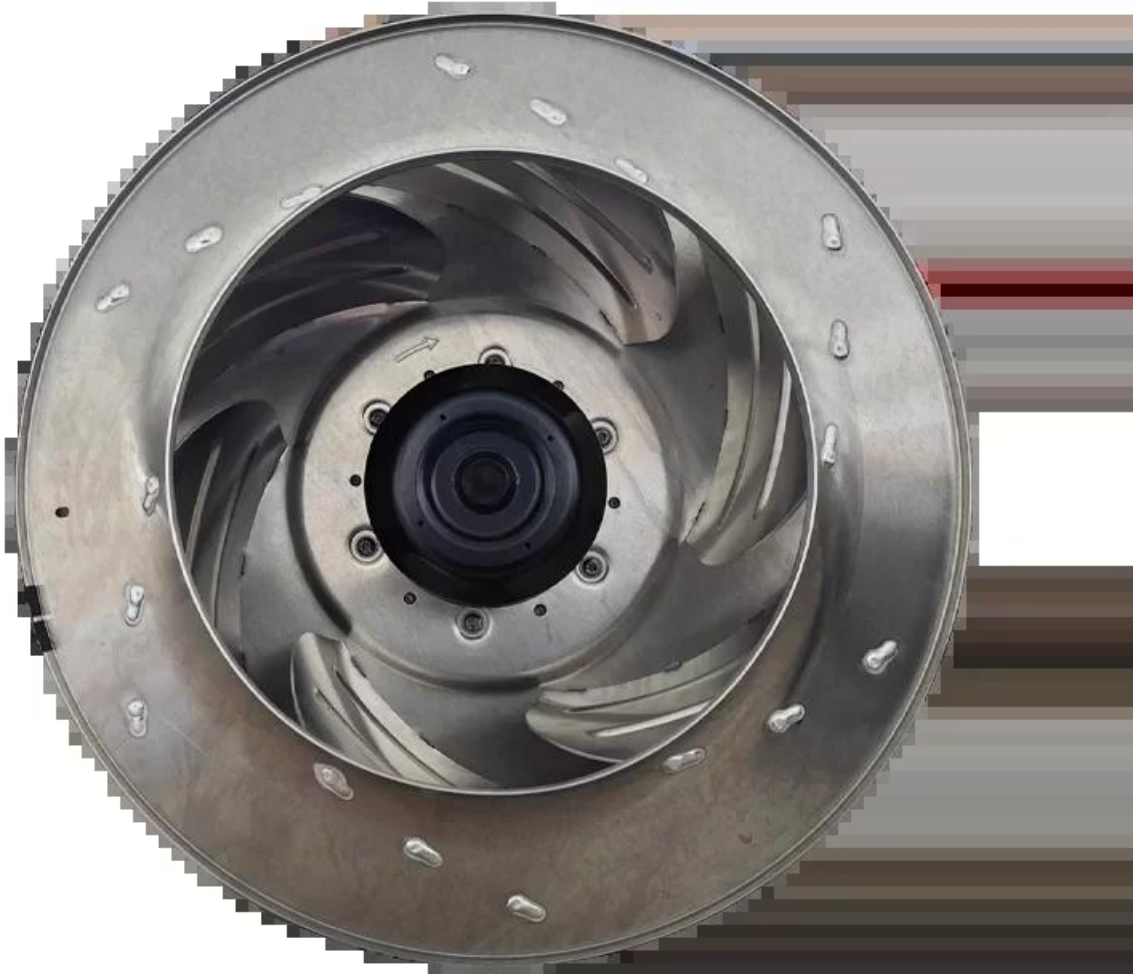
Weight: 11.2 kg

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







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