

K3G630-AR02-01 ebmpapst 400VAC 630mm EC Centrifugal Fan

SKU: K3G630-AR02-01

Price: \$6,856.80

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g630-ar02-01-ebmpapst-400vac-630mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G630-AR02-01 is a high-efficiency RadiPac EC centrifugal fan unit with a nominal voltage of 400 VAC and an impeller size of 630 mm, specifically engineered for advanced thermal management in high-density data centers and large-scale industrial ventilation systems. Driven by a massive three-phase M3G200-HF EC external rotor motor with an integrated electronic control system and a power consumption of 6750 W, this unit features a heavy-duty ball bearing system designed for long-term mechanical stability and continuous S1 duty. Its aerodynamic design with 7 aluminum sheet blades delivers a massive airflow of 14635 m³/h at its rated speed of 1500 RPM, achieving a total pressure increase of 1016 Pa with an overall static efficiency of 63.5%. Constructed with a galvanized and plastic-coated (RAL 7035) steel support structure and an integrated PID controller with RS-485 MODBUS RTU interface, this 125 kg fan unit provides an intelligent and extremely powerful air-moving solution with IP54 protection and Class F insulation for precision air conditioning units, clean rooms, and large-scale industrial AHU infrastructure at the end.

K3G630-AR02-01 Fan Parameters

Model Number: K3G630-AR02-01

Manufacturer: ebmpapst

Motor Model: M3G200-HF

Series: RadiPac

Type: EC Centrifugal Fan

Impeller Size: 630 mm

Weight: 125 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC (3-phase)

Voltage Range: 380 - 480 VAC

Frequency: 50/60 Hz

Power Consumption: 6750 W

Nominal Current: 10.3 A

Speed: 1500 RPM

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)

Actual Air Flow: 14635 m³/h (@ optimum efficiency)

Actual Static Pressure: 1016 Pa (Total pressure increase pfs)

Overall Efficiency (η_{es}): 63.5 %

Motor Design: Three-phase EC external rotor motor

Electronics Housing: Die-cast aluminium

Motor Protection: Reverse polarity and locked-rotor protection

Insulation Class: Class F

Control Input: 0-10 VDC / PWM / RS-485 MODBUS RTU

Electrical Hookup: Terminal box

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Aluminium sheet

Inlet Nozzle Material: Sheet steel, galvanised and plastic-coated (RAL 7035)

Support Structure: Sheet steel, galvanised and plastic-coated (RAL 7035)

Installation Position: Shaft horizontal (base mounting) or rotor on bottom

Degree of Protection: IP54

Humidity Class: F4-1

Operating Temperature: -40 - +50 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 61800-5-1; CE

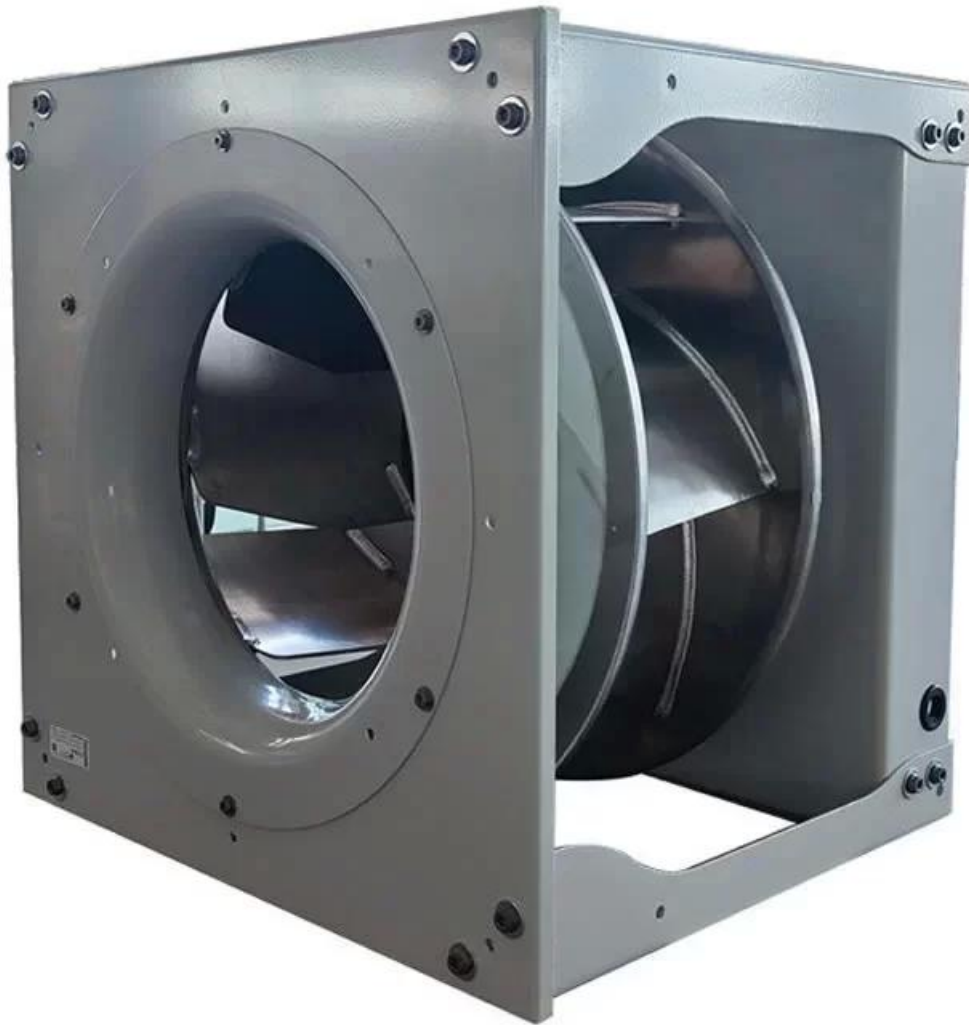
Approval Agency: GOST

Application

The ebmpapst K3G630-AR02-01 EC fan is primarily utilized in large-scale air handling units (AHU), data center cooling infrastructure, clean room ventilation, and high-pressure industrial heat recovery systems.

Product Images









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