

K3G500-AP25-01 ebmpapst 400VAC 500mm EC Centrifugal Fan

SKU: K3G500-AP25-01

Price: \$3,142.70

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g500-ap25-01-ebmpapst-400vac-500mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G500-AP25-01 is a high-performance RadiPac EC centrifugal fan assembly engineered for superior energy efficiency and intelligent airflow management in large-scale HVAC systems. Driven by the M3G150-FF external rotor motor, this 500 mm unit is optimized for 3-phase 400 VAC operation, delivering a robust air volume of 8140 m³/h at its optimum efficiency point with a static efficiency of 66.5%. The construction features a 7-blade aluminum sheet impeller and a comprehensive support system including a hot-dip galvanised mounting plate and inlet nozzle. Its advanced electronics suite offers unmatched control flexibility, featuring RS485 MODBUS-RTU, an integrated PID controller, and dual sensor inputs (0-10 V and 4-20 mA). Built for S1 continuous operation with IP54 protection, the K3G500-AP25-01 incorporates comprehensive safety features such as phase failure detection, active motor current limitation, and thermal overload protection, providing a professional-grade, plug-and-play solution for air handling units and industrial ventilation.

K3G500-AP25-01 Fan Parameters

Model Number: K3G500-AP25-01

Motor Number: M3G150-FF

Manufacturer: ebmpapst

Series: RadiPac Series

Type: EC Centrifugal Fan (Backward-curved)

Size: 500 mm

Weight: 40 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Power Consumption: 2825 W

Nominal Current: 4.3 A

Speed: 1780 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)

Optimum Air Flow: 8140 m³/h

Optimum Pressure Increase: 799 Pa

Overall Efficiency: ηes 66.5% / Efficiency Grade N72.2

Motor Design: EC external rotor motor, black coated

Motor Protection: Reverse polarity, locked-rotor, and over-temperature protection

Technical Features: RS485 MODBUS-RTU; Integrated PID controller; 0-10 VDC / PWM control input; Input for sensor (0-10 V / 4-20 mA); External 24 V input (programming); Alarm relay; Soft start; Line undervoltage / phase failure detection; Output 10 VDC (max 10 mA) & 20 VDC (max 50 mA); Output for slave 0-10 V

EMC Standards: EN 61000-6-2 (Industrial); EN 61000-6-3 (Household)

Insulation Class: Class F

Moisture/Env. Protection: F4-1

Electrical Hookup: Terminal box

Number of Blades: 7

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Aluminium sheet

Mounting Plate/Inlet Nozzle: Sheet steel, hot-dip galvanised

Support Bracket: Steel, coated in black plastic (RAL 9005)

Electronics Housing: Die-cast aluminium

Installation Position: Refer to product drawing

Condensation Drainage: Rotor-side holes

Mode: S1

Touch Current: ≤ 3.5 mA

Degree of Protection: IP54

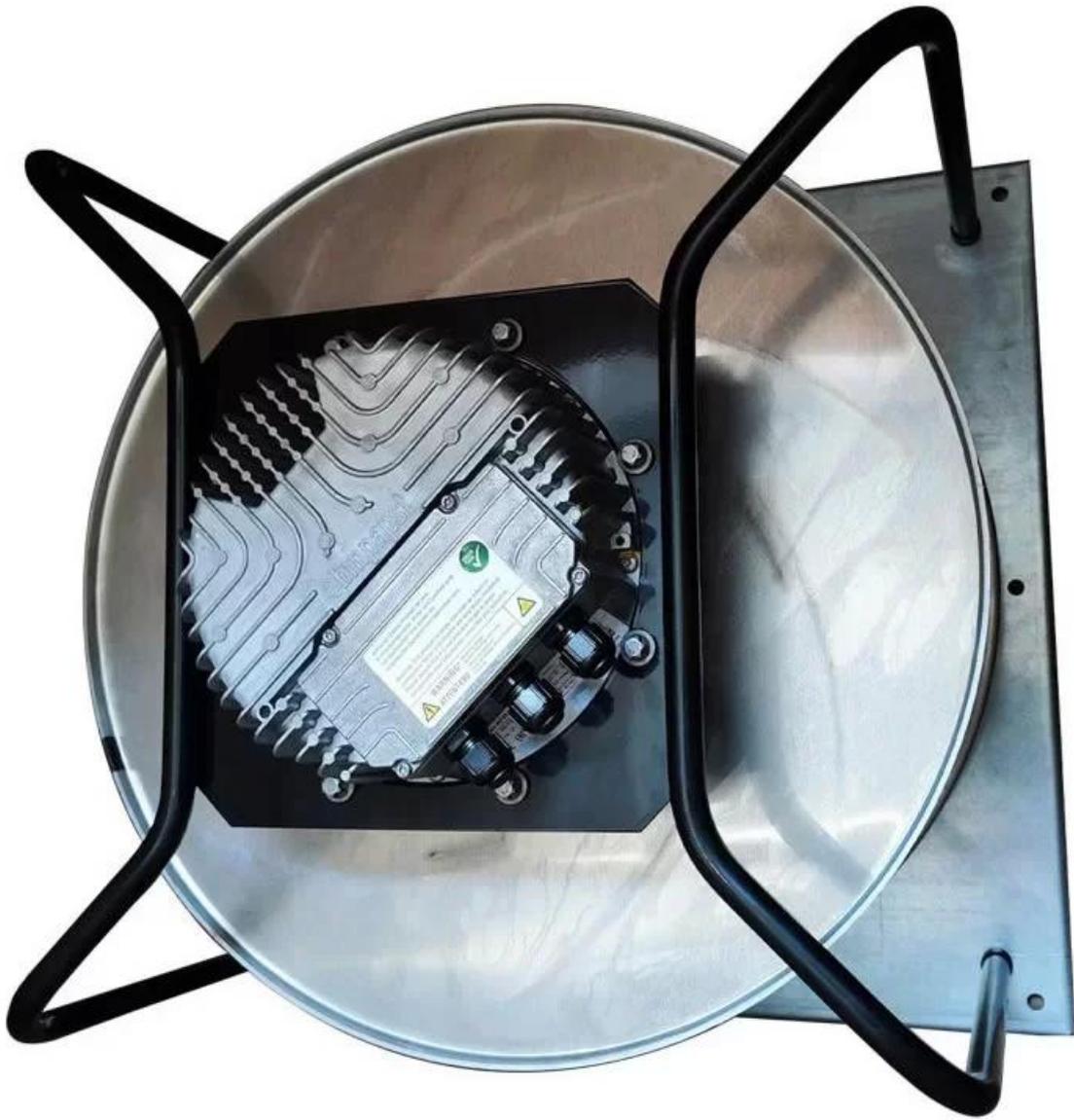
Protection Class: I

Approval: VDE, UL 1004-7, CSA C22.2, EAC, CCC

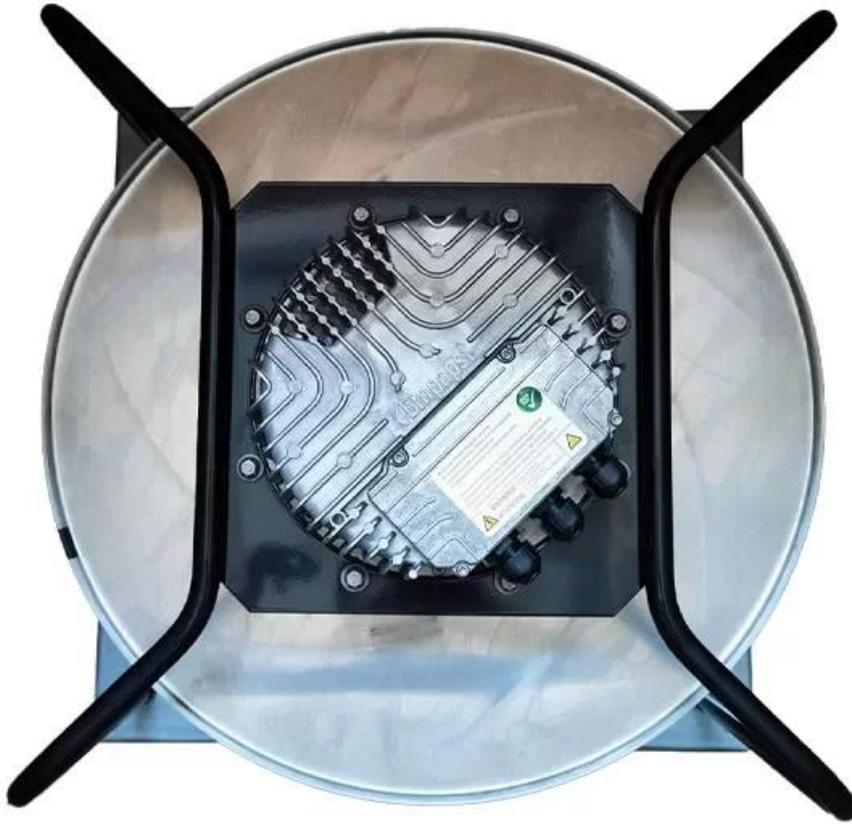
Application

The ebmpapst K3G500-AP25-01 EC fan is primarily utilized in large-scale Air Handling Units (AHU), data center cooling systems, cleanroom ventilation, and high-capacity roof extractors.

Product Images









Scan for product details:

