

K3G560-PB31-71 ebmpapst 400VAC 560mm EC Centrifugal Fan

SKU: K3G560-PB31-71

Price: \$1,517.35

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g560-pb31-71-ebmpapst-400vac-560mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G560-PB31-71 is a high-performance 400 V three-phase GreenTech EC centrifugal fan module from the RadiPac series, featuring a 560 mm backward-curved aluminum impeller integrated into a robust 800 mm square support structure. This complete plug-and-play unit is equipped with a galvanized steel support plate, black painted steel support brackets, and a galvanized inlet nozzle, ensuring structural rigidity and optimized aerodynamics for large-scale ventilation. Driven by the powerful M3G150-IF motor with integrated electronics, it delivers a massive air flow of 10515 m³/h at a static efficiency of 71%. Featuring an RS-485 Modbus RTU interface, integrated PID controller, and comprehensive protection features including phase failure detection and soft start, the K3G560-PB31-71 is the definitive solution for high-capacity air handling units and data center cooling systems across an operating range of -25 °C to 40 °C.

K3G560-PB31-71 Fan Parameters

Model Number: K3G560-PB31-71

Manufacturer: ebmpapst

Motor Model: M3G150-IF

Series: RadiPac EC Centrifugal Module

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 560 mm

Dimensions: 800 x 800 x 575 mm

Bearing Type: Ball Bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Weight: 52 kg

Power Consumption: 3300 W

Nominal Current: 5.1 A

Speed: 1540 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)

Efficiency Grade (N): 76.1

Overall Efficiency (η_{es}): 71.0%

Motor Design: 3-Phase EC External Rotor Motor

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

Technical Features: Integrated PID controller; Soft start; Passive PFC; External 24 V input; 10 VDC output (max. 10 mA); Alarm relay; Operation and alarm display

Motor Protection: Thermal overload protection; Reverse polarity and locked-rotor protection; Line undervoltage / phase failure detection

Insulation Class: Class F

Touch Current: ≤ 3.5 mA

Electrical Hookup: Via terminal box

Number of Blades: 5

Direction of Rotation: Clockwise, viewed toward rotor

Impeller Material: Sheet aluminum

Support Plate Material: Sheet steel, galvanized

Support Bracket Material: Steel, painted black

Inlet Nozzle Material: Sheet steel, galvanized

Electronics Housing Material: Die-cast aluminum

Installation Position: See product drawing

Condensate Discharge Holes: On rotor side

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -25 - +40 °C

Standard Compliance: EN 61800-5-1, CE

Approval Agency: EAC

Application

The ebmpapst K3G560-PB31-71 is used in high-efficiency air handling units (AHU), data center precision cooling, cleanroom ventilation, industrial heat exchangers, and smart building HVAC systems.

Product Images





Scan for product details:

