

K3G560-PB31-03/F02 ebmpapst 400VAC EC Centrifugal Fan

SKU: K3G560-PB31-03/F02

Price: \$3,128.48

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g560-pb31-03-f02-ebmpapst-400vac-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G560-PB31-03/F02 is an ultra-high-performance 400VAC EC Centrifugal Fan featuring the RadiPac series backward-curved, single-intake impeller with a reinforced cube design, specifically engineered for mission-critical cooling in Industrial Frequency Converters and AHU systems. Driven by a high-efficiency M3G150-IF GreenTech EC motor with integrated power electronics, this 51.8 kg unit operates on a 3-phase 380-480 VAC supply delivering a Max. Power Consumption of 4250 W and a Max. Current Draw of 6.5 A at a rated speed of 1700 RPM. This High-performance unit achieves a Max. Air Flow of 5650.3 CFM (9600.0 m³/h / 160.00 m³/min) and a Max. Static Pressure of 107.27 mmH₂O (1052.0 Pa / 4.23 inAq). Featuring a comprehensive suite of intelligent technical features including an integrated PI controller, RS-485 MODBUS-RTU (V6.3) interface, and an operation/alarm LED display, this IP55-rated module is optimized for industrial VFD systems requiring maximum energy efficiency and precision airflow management at the end.

K3G560-PB31-03/F02 Fan Parameters

Model Number: K3G560-PB31-03/F02

Motor Model: M3G150-IF

Manufacturer: ebmpapst

Type: EC Centrifugal Fan (RadiPac, Cube design)

Impeller Size: 560 mm

Dimensions: 800 x 800 x 521.5 mm (Module assembly)

Weight: 51.8 kg

Bearing Type: Ball bearing

Phase: 3~

Nominal Voltage: 400 VAC

Nominal Voltage Range: 380 - 480 VAC

Frequency: 50/60 Hz

Method of Obtaining Data: ml (Max. load)

Max. Current Draw: 6.5 A

Max. Power Consumption: 4250 W

Rated Speed: 1700 RPM

Max. Air Flow: 5650.3 CFM (9600.0 m³/h / 160.00 m³/min)

Max. Static Pressure: 107.27 mmH₂O (1052.0 Pa / 4.23 inAq)

Working Air Flow: 9600.0 m³/h

Static Pressure Increase: 1052.0 Pa

Overall Efficiency (η_{es}): 70.1%

Efficiency Grade: N 74.1

Touch Current (IEC 60990): ≤ 3.5 mA

Number of Blades: 5

Control Interface: 0-10 VDC / PWM / RS-485 MODBUS-RTU (V6.3)

Technical Features: Integrated PI controller; Soft start; Active PFC; Motor current limitation; External 15-50 VDC input (parameterization); Voltage output 3.3-24 VDC (Pmax 800 mW); Alarm relay; Configurable I/Os; Operation and alarm display with LED; SELV potential control interface

Motor Protection: Thermal overload protection; Reverse polarity and locked-rotor protection

Insulation Class: Class F

Degree of Protection: IP55 / Protection class I

Housing Material: Die-cast aluminum (Electronics) / Galvanized sheet steel (Cube frame/Inlet nozzle)

Impeller Material: Sheet aluminum

EMC Compliance: Immunity acc. to EN 61000-6-2; Emission acc. to EN 61000-6-3

Direction of Rotation: Clockwise (viewed toward rotor)

Ambient Temperature (Max.): 40 °C

Min. Operating Temperature: -40 °C (Permitted occasional start-up)

Standard Compliance: CE; EAC; UL 1004-7; CSA C22.2 No. 77; EN 61800-5-1

Application

The ebmpapst K3G560-PB31-03/F02 centrifugal fan is the primary cooling component for large-scale industrial frequency converters and modular air conditioning systems requiring intelligent control, IP55 environmental protection, and high static pressure.

Product Images









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