

K3G500-PB24-03/F01 ebmpapst 400VAC EC Centrifugal Fan

SKU: K3G500-PB24-03/F01

Price: \$2,656.97

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g500-pb24-03-f01-ebmpapst-400vac-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G500-PB24-03/F01 is a high-performance 400VAC three-phase EC Centrifugal Fan from the RadiPac series, featuring backward-curved impellers with a support bracket and specialized F01 firmware. Driven by a high-efficiency GreenTech EC motor with integrated electronics, this 500 mm impeller size module is specifically engineered for mission-critical Air Handling Units (AHU), large-scale data center cooling, and industrial ventilation. Operating on a nominal voltage range of 380 to 480 VAC, it delivers a Power Consumption of 4200 W and a Current Draw of 6.4 A at a rated speed of 2000 RPM, with a maximum load capacity of up to 4.5 kW. Featuring a sheet aluminum impeller, an integrated PI controller, and RS-485 MODBUS-RTU communication, it achieves a static efficiency of 69.6% (Efficiency grade N=73.7), ensuring superior energy savings and reliable continuous S1 operation at the end.

K3G500-PB24-03/F01 Fan Parameters

Model Number: K3G500-PB24-03/F01

Motor Model: M3G150-IF (Size 150)

Manufacturer: ebmpapst

Type: EC Centrifugal Fan - RadiPac, backward-curved, single inlet with support bracket

Impeller Size: 500 mm

Dimensions: 630 x 630 x 486 mm

Weight: 42.2 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC

Nominal Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Current Draw: 6.4 A (@400V) / Max. 7.5 A

Power Consumption: 4200 W (@400V) / Max. 4.5 kW (4500 W)

Rated Speed: 2000 RPM

Max. Air Flow: 5111.8 CFM (8685.0 m³/h / 144.75 m³/min)

Static Pressure Increase: 109.21 mmH₂O (1071.0 Pa / 4.30 inAq)

Static Efficiency: 69.6% (Efficiency grade N: 73.7)

Impeller Material: Sheet aluminum

Electronics Housing Material: Die-cast aluminum

Support Plate Material: Sheet steel, galvanized

Support Bracket Material: Steel, painted black

Inlet Nozzle Material: Sheet steel, galvanized

Rotor Surface: Painted black

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Insulation Class: "F"

Degree of Protection: IP55

Moisture (F) / Environmental (H) Protection Class: H1

Motor Protection: Electronically protected (TOP internally connected)

Technical Features: Integrated VSD; RS-485 MODBUS-RTU (V6.3); Integrated PI controller; Soft start; Control input 0-10 VDC / PWM; F01 specific parameter set

Electrical Hookup: Terminal box

Installation Position: See legend on product drawing

Condensation Drainage Holes: On rotor side

Mode: S1 (Continuous operation)

Protection Class: I (if protective earth is connected)

Max. Ambient Temperature: 60 °C (Electronically-protected)

Min. Ambient Temperature: -40 °C

Standard Compliance: EN 61800-5-1; CE; UKCA

Approval: EAC; CSA C22.2 No. 77; UL 1004-7

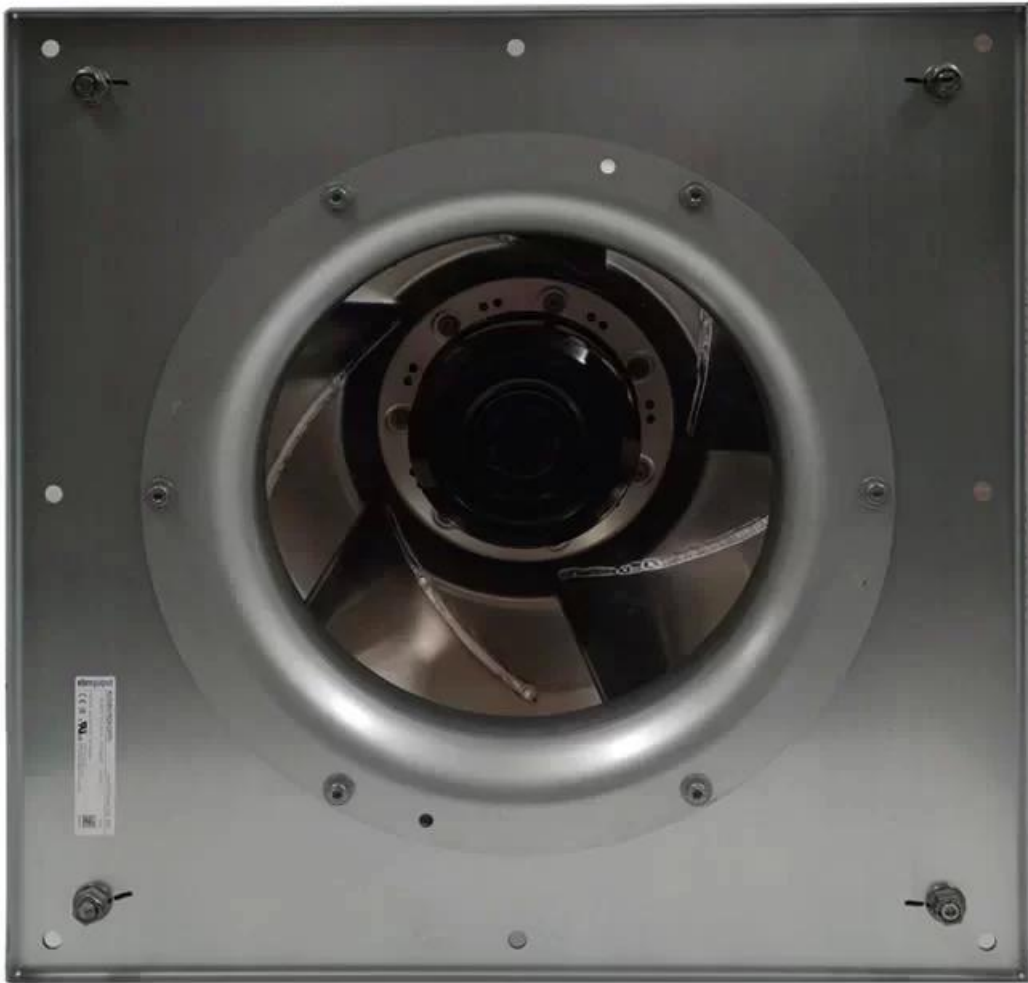
Application

The ebmpapst K3G500-PB24-03/F01 RadiPac module is the primary air-moving solution for high-efficiency Air Handling Units (AHU), large-scale data center cooling units, and industrial HVAC systems requiring variable-speed 400V three-phase EC centrifugal airflow with specialized F01 firmware in a 500mm configuration.

Product Images









Scan for product details:

