

# K3G450-PB24-01/F01 ebmpapst 400VAC EC Centrifugal Fan

**SKU:** K3G450-PB24-01/F01

**Price:** \$2,195.99

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/k3g450-pb24-01-f01-ebmpapst-400vac-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst K3G450-PB24-01/F01 is a premium, high-efficiency 400VAC three-phase EC Centrifugal Module from the RadiPac series, featuring a 450 mm backward-curved aluminum impeller and an integrated inlet nozzle. Housed in a robust support bracket with overall Dimensions of 630 x 630 x 556 mm, this unit is powered by the M3G150-IF EC external rotor motor with integrated power electronics. Specifically engineered for mission-critical air handling units (AHU), data center cooling, and precision HVAC systems, it operates on a wide 380 - 480 VAC supply, delivering a massive Power Input of 5250 W and a Current Draw of 8.0 A at a rated speed of 2600 RPM. The K3G450-PB24-01/F01 features integrated RS485 MODBUS RTU communication, PID control, and passive PFC, ensuring superior energy management with a 69.2% overall efficiency ( $\eta_{es}$ ) and ultra-reliable continuous S1 operation in demanding industrial environments at the end.

K3G450-PB24-01/F01 Fan Parameters

Model Number: K3G450-PB24-01/F01

Motor Model: M3G150-IF

Manufacturer: ebmpapst

Type: EC Centrifugal Module - RadiPac, backward-curved

Impeller Size: 450 mm

Dimensions: 630 x 630 x 556 mm

Weight: 49.0 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Method of Obtaining Data: ml (Max. load)

Max. Current Draw: 8.0 A

Power Input: 5250 W

Rated Speed: 2600 RPM

Max. Air Flow: 4629.1 CFM (7865.0 m<sup>3</sup>/h / 131.08 m<sup>3</sup>/min)

Max. Static Pressure: 163.77 mmH<sub>2</sub>O (1606.0 Pa / 6.45 inAq)

Overall Efficiency ( $\eta_{es}$ ): 69.2%

Number of Blades: 5

Impeller Material: Aluminum sheet

Inlet Nozzle Material: Sheet steel, galvanised

Support Bracket: Steel, coated in black

Electronics Housing: Die-cast aluminium

Direction of Rotation: Clockwise (viewed toward rotor)

Insulation Class: "F"

Degree of Protection: IP55

Humidity Class: H1

Technical Features: RS485 MODBUS RTU; Integrated PID controller; Passive PFC; Soft start;

Motor current limit; Over-temperature protection; 0-10V / PWM input; Alarm relay

Touch Current:  $\leq 3.5$  mA (acc. IEC 60990, Fig. 4, TN system)

Electrical Connection: Terminal box

Condensation Drainage Holes: Rotor-side

Installation Position: Any (Shaft horizontal or rotor on bottom)

Mode: S1

Protection Class: I

Max. Ambient Temperature: 50 °C

Min. Ambient Temperature: -25 °C

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

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

### Application

The ebmpapst K3G450-PB24-01/F01 RadiPac module is the primary cooling solution for large-scale air handling units (AHU), precision data center cooling, and industrial ventilation requiring intelligent 400V three-phase EC centrifugal airflow with an integrated 630mm bracket and pre-fitted inlet ring.

## Product Images

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Scan for product details:

