

# K3G450-PB29-N1 ebmpapst 400V 450mm EC Centrifugal Fan

**SKU:** K3G450-PB29-N1

**Price:** \$1,699.91

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/k3g450-pb29-n1-ebmpapst-400v-450mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst K3G450-PB29-N1 is an ultra-high-performance 400 VAC (3-phase) EC Centrifugal Fan unit with a 450 mm RadiPac impeller, specifically engineered for mission-critical industrial ventilation and large-scale Air Handling Units (AHU). Driven by the robust M3G150-IF motor, this unit operates within a 380 - 480 VAC range, delivering a massive Max. Power Consumption of 6800 W and a Max. Current Draw of 10.3 A at a rated speed of 2800 RPM. This Industrial Frequency Converters compatible unit is constructed with a high-strength sheet aluminum impeller, galvanized sheet steel inlet nozzle, and a 45.2 kg heavy-duty steel support structure with Dimensions of 630 x 630 x 540 mm. It achieves a Max. Air Flow of 9035.0 m<sup>3</sup>/h (5317.8 CFM) and a Max. Static Pressure of 178.35 mmH<sub>2</sub>O (1749.0 Pa / 7.02 inAq) at its maximum load (ml) point. Featuring advanced technical integration including RS-485 MODBUS-RTU V6.4, an integrated vibration sensor, and VFD compatibility, this IP55-rated unit is optimized for extreme reliability and precise airflow modulation in demanding industrial environments. The ebmpapst K3G450-PB29-N1 centrifugal fan is the primary cooling component for large-scale industrial air handling units (AHU), server room precision air conditioning, and high-pressure ventilation systems requiring massive air volume and high energy efficiency in 400 VAC environments at the end.

K3G450-PB29-N1 Fan Parameters

Type: EC Centrifugal Fan

Model Number: K3G450-PB29-N1

Motor: M3G150-IF

Manufacturer: ebmpapst

Series: RadiPac EC Series

Method of obtaining data: ml (Maximum load)

Impeller Size: 450 mm  
Motor Size: 150  
Dimensions: 630 x 630 x 540 mm  
Weight: 45.2 kg  
Bearing Type: Ball bearing  
Nominal Voltage: 400 VAC (3-phase)  
Voltage Range: 380 - 480 VAC  
Frequency: 50/60 Hz  
Max. Current Draw: 10.3 A  
Max. Power Consumption (P1 Input): 6800.0 W  
Rated Speed: 2800 RPM  
Max. Air Flow: 5317.8 CFM (9035.0 m<sup>3</sup>/h / 150.58 m<sup>3</sup>/min)  
Max. Static Pressure: 178.35 mmH<sub>2</sub>O (1749.0 Pa / 7.02 inAq)  
Working Air Flow: 9035.0 m<sup>3</sup>/h  
Static Pressure Increase: 1749.0 Pa  
Overall Efficiency: 68.8%  
Efficiency Grade: ErP 2015 compliant (Nactual 70.7)  
Power Factor Correction (PFC): Passive  
Touch Current: <= 3.5 mA  
Control Input: RS-485 MODBUS-RTU V6.4 / 0-10 VDC / PWM  
Technical Features: Vibration sensor; Integrated PI controller; Soft start; External 15-50 VDC input  
Voltage Output: 3.3-24 VDC (Pmax = 800 mW)  
Motor Protection: Electronic motor protection; Phase failure detection; Thermal overload protection  
Insulation Class: Class F  
Degree of Protection: IP55  
Environmental Protection Class: H1  
Operating Temperature: -40 - +40 °C  
Number of Blades: 5  
Direction of Rotation: Clockwise (viewed toward rotor)  
Impeller Material: Sheet aluminum  
Rotor Surface: Painted black  
Support Bracket Material: Steel, painted black  
Inlet Nozzle Material: Sheet steel, galvanized  
Electronics Housing: Die-cast aluminum  
Mode: S1 (Continuous operation)  
Standard Compliance: EN 61800-5-1; CE; UL 1004-7; CSA C22.2 No. 77; EAC

#### Application

The ebmpapst K3G450-PB29-N1 centrifugal fan is the primary cooling component for large-scale industrial air handling units (AHU), server room precision air conditioning, and high-pressure ventilation systems requiring massive air volume and high energy efficiency in 400 VAC

environments.

## **Product Images**

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Scan for product details:

