

K3G400-PW03-01 ebmpapst 400VAC 400mm EC Centrifugal Fan

SKU: K3G400-PW03-01

Price: \$2,805.57

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/k3g400-pw03-01-ebmpapst-400vac-400mm-ec-centrifugal-fan/>

Product Description

The ebmpapst K3G400-PW03-01 is an ultra-high performance 400 V three-phase GreenTech EC centrifugal fan module from the RadiPac series, featuring a 400 mm backward-curved aluminum impeller integrated into a heavy-duty cubic support structure. Driven by the enhanced M3G112-IA motor with integrated electronics, this unit delivers a powerful airflow of 6360 m³/h and a significant pressure increase of 1239 Pa. Designed for mission-critical HVAC infrastructure, it features a sophisticated MODBUS V6.3 interface, an integrated PI controller, and configurable I/O for precise system integration. With its galvanized steel support plate and IP55-rated die-cast aluminum electronics, the K3G400-PW03-01 provides a smart, robust, and energy-efficient thermal management solution for data center cooling and high-pressure air handling units across a wide ambient temperature range of -40 °C to 40 °C.

K3G400-PW03-01 Fan Parameters

Model Number: K3G400-PW03-01

Manufacturer: ebmpapst

Motor Model: M3G112-IA

Series: RadiPac EC Centrifugal Module

Type: EC Centrifugal Fan (Backward-Curved)

Impeller Size: 400 mm

Dimensions: 500 x 500 x 402 mm

Bearing Type: Ball Bearing

Nominal Voltage: 400 VAC

Voltage Range: 380 - 480 VAC

Phase: 3~

Frequency: 50 / 60 Hz

Weight: 25.1 kg

Power Consumption: 3400 W

Nominal Current: 5.2 A

Speed: 2700 RPM (2725 RPM at peak point)

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): 72.5

Overall Efficiency (η_{es}): 67.6%

Motor Design: 3-Phase EC External Rotor Motor

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

Technical Features: Integrated PI controller; Soft start; Configurable I/O; Operation and alarm display with LED; External 15-50 VDC input (parameterization); Voltage output 3.3-24 VDC; Alarm relay

Motor Protection: Electronic motor protection; Thermal overload protection for electronics/motor; Line undervoltage / phase failure detection; Motor current limitation

Insulation Class: Class F

Touch Current: ≤ 3.5 mA

Electrical Hookup: 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

Condensation Drainage: On rotor side

Degree of Protection: IP55

Environmental Protection Class: H1

Operating Temperature: -40 - +40 °C

Standard Compliance: EN 61800-5-1, CE

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

Application

The ebmpapst K3G400-PW03-01 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







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