

# K3GA00-PV03-01 ebmpapst 380-480V 1000mm EC Centrifugal Fan

**SKU:** K3GA00-PV03-01

**Price:** \$11,249.44

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.elecspares.com/product/k3ga00-pv03-01-ebmpapst-380-480v-100mm-ec-centrifugal-fan/>

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## Product Description

The ebmpapst K3GA00-PV03-01 is a heavy-duty, ultra-high-power 3-phase EC Centrifugal Fan module from the RadiPac series, featuring a massive 1000 mm backward-curved aluminum impeller. Driven by the M3G200-QA (Size 200) GreenTech EC motor, this 168 kg industrial unit operates on a 380-480 VAC supply and is engineered for large-scale air handling units (AHU) and infrastructure ventilation. It delivers exceptional air displacement with a power consumption of 6340 W at a rated speed of 750 RPM. The unit is constructed for maximum durability, utilizing sheet aluminum for the impeller, galvanized sheet steel for the support plate and inlet nozzle, and a die-cast aluminum electronics housing. Featuring advanced MODBUS-RTU control, an integrated PID controller, and multiple sensor inputs (0-10V/4-20mA), the K3GA00-PV03-01 offers a mission-critical, IE5-efficiency cooling solution with IP55 and H1 protection, capable of operating in extreme temperatures down to -40 °C.

K3GA00-PV03-01 Fan Parameters

Manufacturer: ebmpapst (Germany)

Model Number: K3GA00-PV03-01

Motor Model: M3G200-QA (Size 200)

Phase: 3~

Type: EC Centrifugal Fan Unit (Heavy-Duty RadiPac Module)

Impeller Size: 1000 mm

Dimensions: 1000 mm (Diameter)

Nominal Voltage: 400 VAC

Nominal Voltage Range: 3~ 380 - 480 VAC

Frequency: 50 / 60 Hz

Speed: 750 RPM

Power Consumption: 6340 W

Current Draw: 9.8 A

Touch Current: <= 3.5 mA (per IEC 60990)

Weight: 168 kg

Rotor Surface: Painted black

Electronics Housing: Die-cast aluminum

Impeller Material: Sheet aluminum

Support Plate & Inlet Nozzle: Sheet steel, galvanized

Spacer Material: Aluminum

Number of Blades: 5

Direction of Rotation: Clockwise (viewed toward rotor)

Degree of Protection: IP55

Insulation Class: F

Environmental Protection Class: H1

Operating Temp. Range: -40 °C to +40 °C (Occasional start-up -40°C to -25°C)

Max. Storage Temp: +80 °C

Min. Storage Temp: -40 °C

Installation Position: Shaft horizontal or rotor on bottom (See drawing legend)

Condensation Drainage: Rotor side holes included

Mode of Operation: S1 (Continuous duty)

Bearing Type: Sealed Ball Bearing

Technical Features:

- Output 10 VDC (10mA) & 20 VDC (50mA)
- Slave output (0-10 V)
- Sensor input (0-10 V or 4-20 mA)
- External 24 V parameter input
- Integrated PID controller & Soft start
- RS-485 MODBUS-RTU
- Thermal overload protection (Motor & Electronics)
- Line undervoltage / Phase failure detection

EMC Immunity: Acc. to EN 61000-6-2 (Industrial)

EMC Emission: Acc. to EN 61000-6-4 (Industrial)

Conformity & Approvals: CE, UKCA, EN 61800-5-1, UL 1004-7, CSA C22.2 No. 77, EAC

## Application

The ebmpapst K3GA00-PV03-01 is a mission-critical air-moving unit designed for massive-scale industrial air handling systems, tunnel ventilation, and large-capacity commercial refrigeration plants. Its 1000 mm aluminum 5-blade impeller is specifically optimized for moving vast volumes of air at high efficiency, powered by a 6340 W high-torque EC motor. The integrated MODBUS-RTU and PID controller allow for sophisticated automation within a building management system (BMS), while the 168 kg galvanized steel structure ensures structural integrity under continuous S1 operation. With its specialized low-temperature tolerance and H1 moisture protection, this RadiPac module is the definitive choice for 380-480V global infrastructures.

requiring extreme power density, advanced diagnostics, and long-term operational reliability in harsh industrial climates.

## **Product Images**

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