

# K3G250-AI27-05 ebmpapst 230V EC Diagonal Fan Rittal SK3245.500

**SKU:** K3G250-AI27-05

**Price:** \$679.00

**Categories:** Fans

**Tags:** ebmpapst, Rittal

**Product Link:**

<https://www.electspares.com/product/k3g250-ai27-05-ebmpapst-230v-ec-diagonal-fan-rittal-sk3245-500/>

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## Product Description

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The ebmpapst K3G250-AI27-05 is a high-performance, single-phase EC Diagonal Fan, which is the core component of the Rittal SK 3245.500 TopTherm Filter Fan Unit. The unit operates on 200-240 V AC, 50/60 Hz, with a maximum rated current of 1.33 A and a power consumption of 165 W. The system achieves an unimpeded airflow of 900 m<sup>3</sup>/h and features an integrated control interface (0-10 V / PWM input and tachometer output) for precise, energy-efficient climate control.

K3G250-AI27-05 Fan Parameters

Model: K3G250-AI27-05

Manufacturer: ebmpapst

Integrated Unit Model: Rittal SK 3245.500 (TopTherm Filter Fan Unit)

Type: EC Diagonal Fan (High Efficiency) / Filter Fan Unit

ELECTRICAL & PERFORMANCE (Rittal Unit Rated Data)

Rated Operating Voltage: 200-240 VAC, 1~, 50 Hz/60 Hz

Rated Power Consumption: 165 W (at 50 Hz and 60 Hz)

Rated Current Max: 1.33 A (at 50 Hz and 60 Hz)

Miniature Circuit-Breaker/Fuse: 4 A

Fan Component Speed (Peak): 3290 RPM

Max. Airflow (Unimpeded Air Flow): 900 m<sup>3</sup>/h (at 50 Hz and 60 Hz)

Air Throughput (with 1 x Standard Filter Mat): 680 m<sup>3</sup>/h

Air Throughput (with 2 x Standard Filter Mat): 820 m<sup>3</sup>/h

Noise Level: 72 dB(A) (at 50 Hz and 60 Hz)

Service Life L10: 59000 h

## MECHANICAL & INSTALLATION

Dimensions (Width x Height): 323 mm x 323 mm

Build Depth (Fan Component): 25 mm

Installation Depth (Total Unit): 130.5 mm

Required Mounting Cut-out (WxH): 292 mm x 292 mm

Weight: 3.46 kg

Colour: RAL 7035

Mounting Type: Screw-fastened

Enclosure Compatibility: Suitable for TS, TS IT, VX SE, PC, IW

## CONTROL & MONITORING

Motor Technology: EC (Electronically Commutated)

Control Interface: Yes (0-10 V / PWM Input, Tachometer Output)

Monitor Output: Tachometer Output (Signal for monitoring fan speed)

Fault Signal: Optional monitoring/alarm signal via Rittal system components.

## ENVIRONMENTAL & PROTECTION

Operating Temperature Range: -25 °C to 55 °C

Storage Temperature Range: -25 °C to 70 °C

Protection Category IP:

\* IP 51 (with standard filter)

\* IP 52 (with pleated filter and absorber mat)

\* IP 56 (with filter and hose-proof hood)

Protection Category NEMA: Type 1, 12, 3, 3R (with filter and hose-proof hood)

Protection Class: I

Standards: VDE, cULus, EAC, KCC

Supply Includes: Complete unit ready to install, including filter mat

## Application

The ebmpapst K3G250-AI27-05 fan serves as the core component of the Rittal SK 3245.500 TopTherm Filter Fan Unit, designed for precise thermal management of electrical and control cabinets. The unit supports various enclosure installations (e.g., TS, VX SE) and offers flexible IP protection configurations (up to IP 56) to suit diverse industrial and outdoor environments. Its EC technology ensures high energy efficiency, low noise, and an extended service life of up to 59,000 hours, enabling accurate remote speed control and monitoring via the PWM interface.

## Product Images

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