

K2S165-AA17-05 ebm-papst 230VAC 165mm Motorized Impeller Datasheet



Brand: ebmpapst

SKU: [736794561499](#)

Category: Axial & Centrifugal Fans

Price: **\$450.99**

E-mail: sales@equipspares.com

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Product Page:

<https://www.equipspares.com/product/k2s165-aa17-05-ebm-papst-230vac-165mm-motorized-impeller>

Product Description

The ebm-papst K2S165-AA17-05 is a robust AC motorized impeller engineered for high-static pressure applications within industrial enclosures and cabinet cooling systems. Utilizing an advanced external rotor motor design, this unit optimizes thermal impedance management while maintaining exceptional structural rigidity under continuous operation. The aerodynamic curvature of the backward-curved impeller blades significantly reduces turbulence-induced noise, ensuring efficient airflow delivery in high-density environments. Designed as the core cooling component for Rittal SK3241.100 filter fan units, it features precision ball bearings that extend operational service life and ensure reliability in harsh thermal conditions, making it a critical component for maintaining system integrity.

Model Number: K2S165-AA17-05

Brand: ebm-papst

Product Type: AC Motorized Impeller

OEM Reference: Rittal SK3241.100

Rated Voltage: 230 VAC

Frequency: 50 / 60 Hz

Rated Current: 0.28 / 0.24 A

Power Input: 45 / 39 W

Rated Speed: 2550 / 2750 RPM

Bearing Type: Ball Bearing

Max. Air Flow: 323.7 CFM (550 m³/h / 9.16 m³/min)

Max. Static Pressure: 0.48 inH₂O (120 Pa / 12.2 mmH₂O)

Impeller Diameter: 165mm

Weight: 1.3 kg

Capacitor: 1.5 μF / 400 VDB

Motor Protection: Thermal Overload Protector (TOP)

Insulation Class: Class B

Ingress Protection: IP54 (Dependent on installation)

Operating Temperature: -25°C to +60°C

Material: Sheet Steel (Impeller), Die-cast Aluminum (Rotor)

Phase: Single Phase

Direction of Rotation: Clockwise (viewed toward rotor)

Termination: Lead Wires

Compliance: CE, VDE, UL

The K2S165-AA17-05 is specifically engineered for thermal management in industrial control cabinets and server enclosures, serving as the direct replacement fan for the Rittal SK3241.100 filter fan assembly. Its high-pressure capabilities make it ideal for forcing air through dense filter mats in automation panels, CNC machinery control units, and telecommunications infrastructure. By maintaining optimal operating temperatures, the K2S165-AA17-05 prevents component failure in power distribution systems and variable frequency drive (VFD) cabinets where consistent airflow is critical for system longevity.

Supplemental Images

