

FB045-4EK.4F.V4P ZIEHL-ABEGG 230V 450mm AC Axial Fan

SKU: FB045-4EK.4F.V4P

Price: \$418.26

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/fb045-4ek-4f-v4p-ziehl-abegg-230v-450mm-ac-axial-fan/>

Product Description

The ZIEHL-ABEGG FB045-4EK.4F.V4P is a high-reliability 230 V 1-Phase Industrial Axial Fan with a 450 mm blade diameter, featuring robust sheet metal blades designed for efficient air delivery in commercial cooling systems. Driven by a high-torque external rotor motor with THCL 155 (Class F) insulation and moisture protection, this unit features a dual-frequency configuration, delivering a precise Power Consumption of 0.39 kW at 1320 RPM (50 Hz) or 0.55 kW at 1450 RPM (60 Hz). Constructed with an all-aluminum rotor and blades, complemented by a RAL 9005 powder-coated motor suspension, this 9.20 kg German-engineered unit achieves a superior static efficiency of 31.6%, exceeding ErP 2015 standards with an efficiency grade of N=40.6. Equipped with an IP54 terminal box and integrated thermal contacts, it ensures maximum mechanical stability and long-term performance for mission-critical industrial applications at the end.

FB045-4EK.4F.V4P Fan Parameters

Model Number: FB045-4EK.4F.V4P

Manufacturer: ZIEHL-ABEGG (Made in Germany)

Type: 1-Phase AC Axial Fan (Axialventilator mit Blechflügeln)

Blade Diameter: 450.0 mm

Weight: 9.20 kg

Quality of Bearings: Ball bearing with long-time lubrication

Nominal Voltage: 1~ 230 VAC \pm 10%

Phase: 1~

Frequency: 50/60 Hz

Rated Performance (50 Hz): 0.39 kW | 1.80 A | 1320 RPM | 8.0 μ F/400V | 70 °C

Rated Performance (60 Hz): 0.55 kW | 2.40 A | 1450 RPM | 8.0 μ F/400V | 70 °C

Max. Air Flow: 3207.7 CFM (5450.0 m³/h)

Max. Static Pressure: 10.2 mmH₂O (100.0 Pa)

Efficiency Grade (ErP): Nactual = 40.6 (Ntarget = 40 / ErP 2015 compliant)

Efficiency nstatA: 31.6 %

Electrical Connection: Terminal box K62 (Mounted on Stator)

Connection Diagram: 1360-104XA

Motor Protection: Thermal contact (Thermostatschalter)

Type of Protection: IP54

Thermal Class: THCL 155 (Class F)

Impregnation: Moisture and hot climate protection (Feucht- und Tropenschutz)

Material Blades: Aluminium (Unpainted)

Material Rotor: Aluminium (Unpainted)

Guard Grille Type: Ring grille

Motor Suspension: Powder-coated, resistance class 2

Colour Suspension: RAL 9005 (Jet black)

Fitting Position: H / Vu / Vo

Min. Operating Temperature: -25 °C

Max. Ambient Temperature: 70 °C

Application

The ZIEHL-ABEGG FB045-4EK.4F.V4P axial fan is the primary cooling component for commercial refrigeration condensers, evaporators, and industrial ventilation systems requiring high-durability airflow and superior corrosion resistance in 230V single-phase power environments.

Product Images





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