

FB050-VDK.4I.V4S ZIEHL-ABEGG 400V AC Axial Fan 500mm

SKU: FB050-VDK.4I.V4S

Price: \$344.81

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/fb050-vdk-4i-v4s-ziehl-abegg-400v-ac-axial-fan-500mm/>

Product Description

The ZIEHL-ABEGG FB050-VDK.4I.V4S is a High-Performance AC Axial Fan with pressed-steel blades, measuring 500 mm in diameter. It operates on 3~400 V $\pm$ 10% and supports dual-speed operation (Delta/Star) at 50 Hz and 60 Hz. At 50 Hz, it delivers 0.82 kW Input Power and 1.50 A Current at 1,330 RPM (Δ connection), and 0.55 kW and 0.95 A at 1,030 RPM (Y connection). At 60 Hz nominal, it delivers 1.10 kW Input Power and 1.90 A Current at 1,400 RPM (Δ connection), and 0.60 kW and 1.00 A at 980 RPM (Y connection). The fan is optimized for installation in short nozzles and is widely used in refrigeration, air-conditioning, and general ventilation systems requiring precise speed control and robust performance.

FB050-VDK.4I.V4S Fan Parameters

Model: FB050-VDK.4I.V4S

Manufacturer: ZIEHL-ABEGG

Type: AC Axial Fan (Pressed-Steel Blade)

Fan Diameter: 500 mm

Bearing Type: Ball Bearing (with long-time lubrication)

Airflow Direction: Suction (V)

Nominal Voltage: 3~400 V

Phase: 3~

Connection Type: Delta (Δ) / Star (Y)

Electrical Connection: Terminal Box

Degree of Protection: IP54

Thermal Class: THCL155

Motor Protection: Thermal Contact

Current Increase (ΔI): 10%

Max. Permitted Conveyor Temperature: 50 °C

Min. Permitted Conveyor Temperature: -40 °C

Mass: 11.30 kg

Number of Blades: 4

Blades Material: Aluminium (Uncoated)

Conformity: ErP2013,CE

Design: K (Axial bolted, mounted for short bell mouth E)

50 Hz Performance Data (Δ/Y Connection)

Frequency: 50 Hz

Rated Input (Δ/Y): 0.82 kW/0.55 kW

Rated Current (Δ/Y): 1.50 A/0.95 A

Starting Current (Δ/Y): 5.70 A/1.90 A

Rated Speed (Δ/Y): 1,330 RPM/1,030 RPM

Airflow (Max. Free Air Delivery - Approx.): 7,600 m³/h

Max. Static Pressure (Approx.): 159 Pa

60 Hz Performance Data (Δ/Y Connection)

Frequency: 60 Hz

Rated Input (Δ/Y): 1.10 kW/0.60 kW

Rated Current (Δ/Y): 1.90 A/1.00 A

Rated Speed (Δ/Y): 1,400 RPM/980 RPM

Application

The FB050-VDK.4I.V4S is a powerful and versatile axial fan primarily used in industrial ventilation and cooling applications. The dual-speed capability allows for flexible control of air volume and energy consumption, making it an excellent choice for condensers, heat exchangers, refrigeration units, and HVAC systems where the fan is mounted directly into a short air nozzle.

Product Images







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