

FN080-ADK.6N.V7P5 ZIEHL-ABEGG 400V 800mm AC Axial Fan

SKU: FN080-ADK.6N.V7P5

Price: \$937.10

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/fn080-adk-6n-v7p5-ziehl-abegg-400v-800mm-ac-axial-fan/>

Product Description

The ZIEHL-ABEGG FN080-ADK.6N.V7P5 is a high-capacity 400 V 3-Phase Industrial AC Axial Fan with an 800 mm blade diameter, featuring bionic scythe-shaped blades optimized for low-noise large-scale heat extraction. Driven by a high-torque 6-pole external rotor motor with THCL155 (Class F) insulation and integrated thermal protection, this unit features a precise Max. Power Consumption of 2.00 kW and a Max. Current Draw of 4.30 A at 400 V AC (50 Hz, Delta connection). Operating at a rated speed of 880 RPM, it provides a massive air delivery of 24500.0 m³/h (14420.2 CFM) while achieving an efficiency grade of N=40 to ensure superior performance in condensers and cooling towers. Constructed with high-strength die-cast aluminum blades and a rugged galvanized wall ring featuring IP54 protection, this 31.0 kg German-engineered unit ensures maximum mechanical stability and long-term durability for mission-critical industrial applications at the end.

FN080-ADK.6N.V7P5 Fan Parameters

Model Number: FN080-ADK.6N.V7P5

Manufacturer: ZIEHL-ABEGG (Made in Germany)

Type: 3-Phase AC Axial Fan (Scythe-shaped Owlet blades)

Blade Diameter: 800.0 mm

Weight: 31.0 kg

Bearing Type: Ball bearing with long-time lubrication

Nominal Voltage: 3~ 400 VAC (Δ / Y)

Phase: 3~

Frequency: 50/60 Hz

Max. Power Consumption (P1): 2.00 kW (at 50 Hz) / 2.90 kW (at 60 Hz)

Max. Current Draw: 4.30 A (at 50 Hz) / 5.20 A (at 60 Hz)

Rated Speed: 880 RPM (at 50 Hz) / 950 RPM (at 60 Hz)
Power Factor (cos φ): 0.68
Max. Air Flow: 14420.2 CFM (24500.0 m³/h / 408.33 m³/min)
Max. Static Pressure: 16.3 mmH₂O (160.0 Pa / 0.64 inH₂O)
Working Air Flow: 24500.0 m³/h
Static Pressure Increase: 160.0 Pa
Minimum Static Pressure (PsF min): 0.0 Pa (Unrestricted airflow allowed)
Efficiency Grade: N=40 (ErP 2015 compliant)
Static Efficiency (η statA): 35.5 %
Motor Type: External rotor motor (6-pole)
Motor Protection: Thermal overload protector (TOP) wired internally
Insulation Class: THCL155 (Class F)
Degree of Protection: IP54
Electrical Hookup: Terminal box (Integrated on motor)
Number of Blades: 7 (Bionic Scythe-shaped)
Direction of Rotation: Clockwise (viewed toward rotor)
Impeller Material: Die-cast aluminum
Housing Material: Galvanized steel (Wall ring / Guard grille)
Operation Mode: S1 (Continuous operation)
Sound Power Level: 78.0 dB(A)
Sound Pressure Level: 55.0 dB(A) (at 7m distance)
Service Life (L10): 50,000 h (at 40 °C)
Operating Temperature: -40 - +70 °C (at 50 Hz) / -40 - +55 °C (at 60 Hz)
Storage Temperature: -40 - +80 °C (at 65% RH)
Standard Compliance: ErP 2015; EN 60335-1; CE
Approval Agency: VDE; UL; CCC; EAC

Application

The ZIEHL-ABEGG FN080-ADK.6N.V7P5 axial fan is the primary cooling component for large-scale refrigeration condensers, dry coolers, and cooling towers requiring high-volume airflow with ultra-low noise emission and IP54 durability.

Product Images



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