

RH71M-6DK.7Q.1R Ziehl-Abegg 230V/400V AC Centrifugal Fan

SKU: RH71M-6DK.7Q.1R

Price: \$4,213.75

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.elecspares.com/product/rh71m-6dk-7q-1r-ziehl-abegg-230v-400v-ac-centrifugal-fan/>

Product Description

The Ziehl-Abegg RH71M-6DK.7Q.1R is an ultra-high-capacity industrial AC Backward Curved Centrifugal Fan with a precision-engineered 710 mm impeller. Driven by a high-efficiency 6-pole three-phase external rotor motor, this 230V/400V dual-voltage model is designed as a mission-critical thermal management solution for multi-megawatt wind turbine converters and centralized industrial inverters. It delivers a massive maximum airflow of 14500 m³/h at a rated speed of 920 RPM (at 50 Hz). With a rated current of 2.40 A at 400V, it is specifically engineered to generate the high-volume displacement and steady static pressure (1.24 inAq) required to move air through extensive industrial ducting and dense cooling fin arrays. This 45.04 kg heavy-duty unit features a premium dual-ball bearing system and a specialized 7-blade aerodynamic impeller for ultimate durability. The RH71M-6DK.7Q.1R provides maximum operational stability for industrial automation, renewable energy power stacks, and large-scale HVAC infrastructure.

[RH71M-6DK.7Q.1R] Fan Parameters

Manufacturer: Ziehl-Abegg (Germany)

Model Number: RH71M-6DK.7Q.1R

Motor Type: MK137-6DK.15.N (3-Phase External Rotor Motor)

Type: AC Centrifugal Fan (Backward Curved Cpro Series)

Impeller Size: 710 mm

Dimensions: 710 mm (Diameter) x 342 mm (Axial Depth)

Nominal Voltage (Delta Connection): 3~ 230 VAC

Nominal Voltage (Star Connection): 3~ 400 VAC

Frequency: 50 / 60 Hz

Speed (50/60 Hz): 920 / 1010 RPM

Power Input (50/60 Hz): 1150 / 1750 W
Rated Current at 230V (50/60 Hz): 4.10 / 5.20 A
Rated Current at 400V (50/60 Hz): 2.40 / 3.00 A
Starting Current (50/60 Hz): 7.50 / 7.20 A
Max. Airflow (50/60 Hz): 14500 / 15800 m³/h
Max. Static Pressure (50/60 Hz): 310 / 380 Pa (1.24 / 1.52 inAq)
Noise Level: 71 dB(A)
Weight: 45.04 kg
Termination: Terminal Box (Integrated)
Bearing Type: Dual Ball Bearing (Maintenance-free)
Impeller Material: High-performance ZAmid Composite
Number of Blades: 7
Direction of Rotation: Clockwise (viewed toward rotor)
Degree of Protection: IP54
Insulation Class: F (155 °C)
Motor Protection: Thermal Contact (TK) Integrated
Operating Temp. Range: -10 °C to +60 °C
Capacitor (for 1~ operation): 30 µF / 400V (Optional)
Balancing Quality: G 6.3 (ISO 1940-1)
Efficiency Class: ErP 2015 Compliant
Approvals: CE, UL, CSA, CCC, EAC, VDE

Application

The RH71M-6DK.7Q.1R is primarily utilized as a high-capacity main cooling fan for multi-megawatt industrial frequency drives and renewable energy power converters. Its 710 mm backward-curved impeller is essential for managing the extreme thermal load of heavy-duty IGBT power stacks and transformers, where high-volume airflow (14500 m³/h) is required to maintain system integrity. The "Cpro" impeller design ensures high efficiency and low noise emissions even under varying pressure conditions. This 45.04 kg unit is also standard in central air handling units (AHUs) and large-scale industrial heat exchangers. The combination of its 3-phase external rotor motor and high-torque aerodynamic design ensures consistent, 24/7 cooling performance, safeguarding the operational stability of mission-critical 230V/400V industrial automation and large-scale power conversion infrastructure in harsh environments.

Product Images





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