

RH31M-2DK.3I.2R ZIEHL-ABEGG 400V 310mm AC Centrifugal Fan

SKU: RH31M-2DK.3I.2R

Price: \$1,171.06

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh31m-2dk-3i-2r-ziehl-abegg-400v-310m-ac-centrifugal-fan/>

Product Description

The ZIEHL-ABEGG RH31M-2DK.3I.2R is a high-performance 400VAC / 460VAC three-phase AC Centrifugal Fan with a 310 mm backward-curved aluminum impeller, specifically engineered for mission-critical cooling in Industrial Frequency Converters and specialized AHU systems. Driven by a high-torque MK092-2DK.3I.2R external rotor motor with precision ball bearings, this 10.0 kg unit operates within a 400 - 460 VAC range across 50/60 Hz frequencies using a Star (Y) connection, delivering a Max. Power Consumption of 0.76 / 1.15 / 1.25 kW and a Max. Current Draw of 1.35 / 1.80 / 1.80 A at a rated speed of 2790 / 3160 / 3260 RPM. This High-performance unit features a specialized aerodynamic 7-blade aluminum impeller achieving a Max. Air Flow of 3520.0 / 3980.0 m³/h (2071.7 / 2342.5 CFM / 58.67 / 66.33 m³/min) and a Max. Static Pressure of 137.66 / 181.51 mmH₂O (1350.0 / 1780.0 Pa / 5.42 / 7.15 inAq). Featuring a heavy-duty "Made in Germany" construction with integrated thermal contacts (TB) for motor protection, this IP54-rated fan is optimized for environments requiring extreme heat resistance up to 70 °C and high-pressure stability in industrial VFD and power electronics systems at the end.

RH31M-2DK.3I.2R Fan Parameters

Model Number: RH31M-2DK.3I.2R

Manufacturer: ZIEHL-ABEGG

Motor Model: MK092-2DK.3I.2R

Type: AC Centrifugal Fan (Backward-curved)

Impeller Size: 310 mm

Weight: 10.0 kg

Origin: Made in Germany

Bearing Type: Ball bearing

Nominal Voltage: 400 / 460 VAC (3~)

Voltage Range: 380 - 506 VAC ($\pm 10\%$)

Connection Type: Star (Y)

Frequency: 50 / 60 Hz

Max. Current Draw: 1.35 / 1.80 / 1.80 A

Max. Power Consumption: 0.76 / 1.15 / 1.25 kW

Rated Speed: 2790 / 3160 / 3260 RPM

Power Factor ($\cos \varphi$): 0.81 / 0.91 / 0.87

Max. Air Flow: 2071.7 / 2342.5 CFM (3520.0 / 3980.0 m³/h / 58.67 / 66.33 m³/min)

Max. Static Pressure: 137.66 / 181.51 mmH₂O (1350.0 / 1780.0 Pa / 5.42 / 7.15 inAq)

Working Air Flow: 3520.0 / 3980.0 m³/h

Static Pressure Increase: 1350.0 / 1780.0 Pa

Motor Protection: Thermal contact (TB) integrated

Insulation Class: Thermal class 155 (Class F / THCL 155)

Degree of Protection: IP54

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Material: Aluminium

Ambient Temperature (Max.): 70 °C (50Hz) / 50 °C (60Hz)

Min. Operating Temperature: -25 °C

Balancing Quality: G6.3

Sound Power Level: 82.0 / 85.0 dB(A)

Standard Compliance: CE; UL; EAC; ErP 2015

Application

The ZIEHL-ABEGG RH31M-2DK.3I.2R centrifugal fan is the primary cooling component for high-power industrial frequency converters, data center cooling units, and large-scale AHU systems requiring high-efficiency airflow and extreme static pressure in 400V-460V three-phase environments.

Product Images





Scan for product details:

