

RH31M-4EK.2F.1R ZIEHL-ABEGG 115V 310mm AC Centrifugal Fan

SKU: RH31M-4EK.2F.1R

Price: \$1,287.64

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh31m-4ek-2f-1r-ziehl-abegg-115v-310mm-ac-centrifugal-fan/>

Product Description

The ZIEHL-ABEGG RH31M-4EK.2F.1R is a high-performance 115VAC 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 MK085-4EK.10.U external rotor motor with precision ball bearings, this 6.0 kg unit operates within a 115VAC range across 50/60 Hz frequencies, delivering a Max. Power Consumption of 170.0 / 230.0 W and a Max. Current Draw of 1.60 / 2.00 A at a rated speed of 1380 / 1520 RPM. This High-performance unit features a specialized aerodynamic 7-blade aluminum impeller achieving a Max. Air Flow of 1980.0 / 2180.0 m³/h (1165.4 / 1283.1 CFM / 33.00 / 36.33 m³/min) and a Max. Static Pressure of 33.14 / 40.79 mmH₂O (325.0 / 400.0 Pa / 1.31 / 1.61 inAq). Featuring a heavy-duty design with integrated thermal contacts (TB) for motor protection, this IP44-rated fan is optimized for environments requiring extreme heat resistance up to 80 °C and high-pressure stability in industrial VFD and power electronics systems at the end.

RH31M-4EK.2F.1R Fan Parameters

Model Number: RH31M-4EK.2F.1R

Manufacturer: ZIEHL-ABEGG

Motor Model: MK085-4EK.10.U

Type: AC Centrifugal Fan (Backward-curved)

Impeller Size: 310 mm

Weight: 6.0 kg

Bearing Type: Ball bearing

Nominal Voltage: 115 VAC

Voltage Range: 115 VAC (±10%)

Frequency: 50 / 60 Hz

Max. Current Draw: 1.60 / 2.00 A

Max. Power Consumption: 170.0 / 230.0 W

Rated Speed: 1380 / 1520 RPM

Max. Air Flow: 1165.4 / 1283.1 CFM (1980.0 / 2180.0 m³/h / 33.00 / 36.33 m³/min)

Max. Static Pressure: 33.14 / 40.79 mmH₂O (325.0 / 400.0 Pa / 1.31 / 1.61 inAq)

Working Air Flow: 1980.0 / 2180.0 m³/h

Static Pressure Increase: 325.0 / 400.0 Pa

Capacitance Required: 16.0 µF / 220 V

Motor Protection: Thermal contact (TB) integrated

Insulation Class: Thermal class 155 (Class F)

Degree of Protection: IP44

Electrical Hookup: Supply cable axial (7x0.82 mm² x 55 cm)

Number of Blades: 7

Direction of Rotation: Clockwise (viewed toward rotor)

Impeller Material: Aluminium

Ambient Temperature (Max.): 80 °C (50Hz) / 60 °C (60Hz)

Min. Operating Temperature: -25 °C

Balancing Quality: G6.3

Sound Power Level: 69.0 / 71.0 dB(A)

Service Life: 40,000 h (at 40 °C)

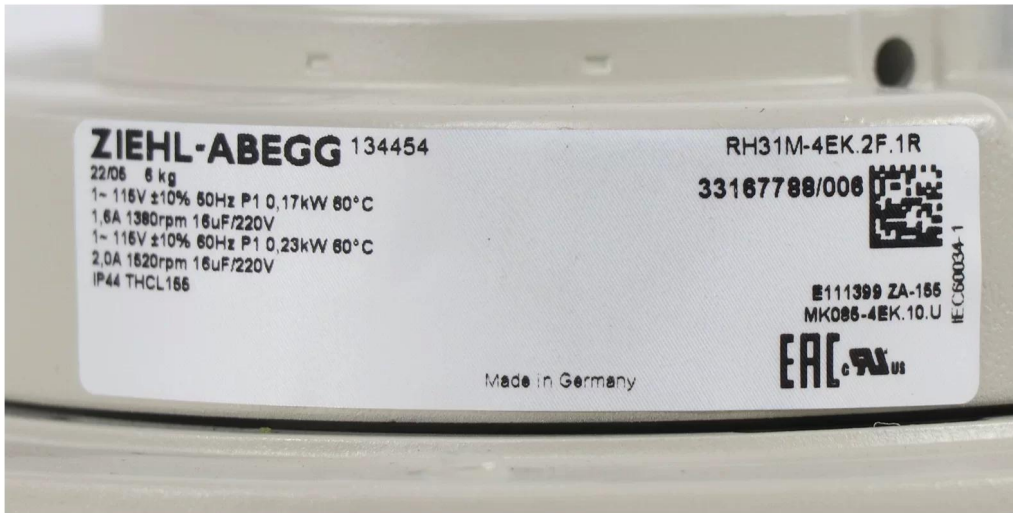
Standard Compliance: CE; UL; EAC

Application

The ZIEHL-ABEGG RH31M-4EK.2F.1R centrifugal fan is the primary cooling component for industrial frequency converters, specialized AHU ventilation systems, and high-temperature cabinet environments requiring robust airflow and high-pressure stability in 115VAC environments.

Product Images





Scan for product details:

