

RH45M-4DK.4I.1R ZIEHL-ABEGG 230/400/460V Centrifugal Fan

SKU: RH45M-4DK.4I.1R

Price: \$635.68

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh45m-4dk-4i-1r-ziehl-abegg-230-400-460v-centrifugal-fan/>

Product Description

The ZIEHL-ABEGG RH45M-4DK.4I.1R is a professional-grade 3-phase AC Centrifugal Fan with a 450 mm impeller, designed for high-precision industrial cooling in switchgear and power conversion systems. Driven by a high-torque external rotor motor with THCL 155 (Class F) insulation and moisture protection, this unit features a flexible electrical configuration with a max power consumption of 1.10 kW and a 1.80 A draw at 460 V (60 Hz). Operating at a rated speed of 1440 RPM, it features an aluminum backward-curved impeller meticulously balanced to G 6.3 standards. This 10.60 kg German-engineered unit is finished in RAL 7032 (pebble grey) and includes an integrated D02 terminal box with 105 cm high-quality cabling, ensuring maximum reliability and mechanical stability for mission-critical industrial applications at the end.

RH45M-4DK.4I.1R Fan Parameters

Model Number: RH45M-4DK.4I.1R

Manufacturer: ZIEHL-ABEGG (Made in Germany)

Type: 3-Phase AC Centrifugal Fan (Backward-curved)

Designation: Single inlet impeller with backward curved blades

Impeller Size: 450.0 mm

Weight: 10.60 kg

Bearing Quality: Ball bearing with long-time lubrication

Nominal Voltage: 3~ 230/400 VAC $\pm 10\%$ (Δ/Y) | 265/460 VAC $\pm 10\%$ (Δ/Y)

Phase: 3~

Frequency: 50/60 Hz

Rated Performance (50 Hz): 0.70 kW | 2.70/1.55 A | 1300 RPM | $\cos \phi$ 0.65 (400V)

Rated Performance (60 Hz 400V): 0.97 kW | 3.00/1.70 A | 1360 RPM | $\cos \phi$ 0.80

Rated Performance (60 Hz 460V): 1.10 kW | 3.10/1.80 A | 1440 RPM | $\cos \phi$ 0.77

Max. Air Flow: 3237.1 CFM (5500.0 m³/h)

Max. Static Pressure: 56.1 mmH₂O (550.0 Pa)

Working Air Flow: 5500.0 m³/h

Static Pressure Increase: 550.0 Pa

Efficiency Grade (ErP): Nactual = 59.0 (Ntarget = 58 / ErP 2013 compliant)

Efficiency nstatA: 46.8 %

Electrical Connection: Cable box D02 fixed on motor (lateral exit)

Cable Quality: Li7Y2G-J, 9x 0.82 mm² (AWG18) x 105 cm

Connection Diagram: 1360-106XA

Motor Protection: Thermal contact (Integrated)

Type of Protection: IP54

Thermal Class: Thermal class 155 (Class F)

Impregnation: Moisture and hot climate protection

Material Impeller: Aluminium

Balance Quality: G 6.3

Painting Motor: 1 coat paint resistance class 1 (RAL 7032 pebble grey)

Installation Position: Fitting position H / Vu / Vo

Min. Operating Temperature: -40 °C

Max. Ambient Temperature: 80 °C (at 50 Hz) / 40 °C (at 60 Hz)

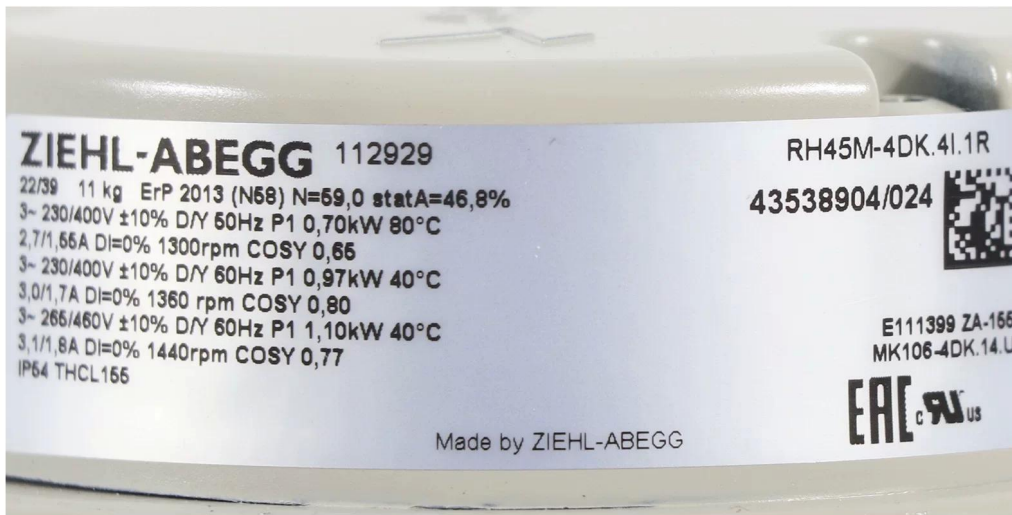
Labelling UL/CSA: E111399 ZA-155, MK106-4DK.14.U

Application

The ZIEHL-ABEGG RH45M-4DK.4I.1R fan is the primary cooling component for heavy-duty industrial frequency converters, professional air conditioning units, and large-scale power distribution cabinets requiring high-precision radial airflow and multi-voltage compatibility.

Product Images





Scan for product details:

