

RH50M-6DK.4I.1R Ziehl-Abegg 230/400V AC Centrifugal Fan

SKU: RH50M-6DK.4I.1R

Price: \$1,677.15

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rh50m-6dk-4i-1r-ziehl-abegg-230-400v-ac-centrifugal-fan/>

Product Description

The Ziehl-Abegg RH50M-6DK.4I.1R (Article No. 123670) is a high-efficiency 3-phase AC Centrifugal Fan featuring a 500 mm single inlet impeller with backward-curved blades. Powered by the MK106-6DK.14.U external rotor motor, this compact 12 kg unit is designed for versatile global use, supporting multiple voltage configurations including 230/400V and 265/460V. At 50 Hz, it delivers 0.45 kW of power at 930 rpm, while its 6-pole design ensures quiet and stable operation for AHUs and industrial ventilation. With IP54 protection, Thermal Class 155 (F), and a maximum ambient temperature of 70 °C, the RH50M-6DK.4I.1R provides a reliable, high-performance air-moving solution for mission-critical climate control infrastructures.

RH50M-6DK.4I.1R Fan Parameters

Manufacturer: Ziehl-Abegg (Germany)

Article Number: 123670

Motor Model: MK106-6DK.14.U (6-Pole)

Phase: 3~

Impeller Size: 500 mm

Weight: 12 kg

[Electrical Data - 50 Hz]

- Voltage: 3~ 230/400 V $\pm 10\%$ (D/Y)
- Power Input (P1): 0.45 kW
- Current Draw: 2.3 / 1.3 A
- Speed: 930 rpm
- Power Factor (COSY): 0.50
- Max. Ambient Temp: 70 °C

[Electrical Data - 60 Hz (Option 1)]

- Voltage: 3~ 230/400 V $\pm 10\%$ (D/Y)
- Power Input (P1): 0.61 kW
- Current Draw: 2.1 / 1.2 A
- Speed: 1050 rpm
- Power Factor (COSY): 0.73
- Max. Ambient Temp: 70 °C

[Electrical Data - 60 Hz (Option 2)]

- Voltage: 3~ 265/460 V $\pm 10\%$ (D/Y)
- Power Input (P1): 0.66 kW
- Current Draw: 2.15 / 1.25 A
- Speed: 1090 rpm
- Power Factor (COSY): 0.67
- Max. Ambient Temp: 70 °C

[Materials & Construction]

Impeller Type: Single inlet, backward curved blades

Degree of Protection: IP54

Thermal Class: THCL 155 (Class F)

Motor Protection: Thermal contact

Certification: CE, EAC, cURus

Made in Germany

Application

The Ziehl-Abegg RH50M-6DK.4I.1R (Article No. 123670) is a versatile, mid-range AC centrifugal fan engineered for high-performance air displacement in compact Air Handling Units (AHU), commercial rooftop ventilation, and industrial cabinet cooling. Featuring a 500 mm backward-curved impeller and a lightweight 12 kg design, this unit is specifically optimized for applications requiring a balance of high airflow (up to 7,850 m³/h) and exceptionally quiet operation, provided by its 6-pole motor architecture.

The fan's ability to operate continuously at 70°C ambient temperatures makes it an ideal choice for demanding environments such as industrial process drying, heat exchangers, and high-temperature kitchen exhaust systems. With dual-frequency (50/60 Hz) and multi-voltage (230/400V or 265/460V) support, it offers a global air-moving solution for mission-critical infrastructures including pharmaceutical clean rooms, hospital isolation wards, and noise-sensitive office building climate control. Its IP54 protection and robust "Made in Germany" build quality ensure long-term, maintenance-free reliability in 24/7 S1 continuous-duty cycles.

Product Images





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