

# RF22P-2DD.5H.1R ZIEHL-ABEGG 400/480V Centrifugal Fan

**SKU:** RF22P-2DD.5H.1R

**Price:** \$3,414.10

**Categories:** Fans

**Tags:** Ziehl-Abegg

**Product Link:**

<https://www.electspares.com/product/RF22P-2DD-5H-1R-ZIEHL-ABEGG-400-480V-CENTRIFUGAL-FAN/>

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## Product Description

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The ZIEHL-ABEGG RF22P-2DD.5H.1R is a high-performance 3-phase AC Centrifugal Fan with a 225 mm impeller, specifically engineered for intensive thermal management in industrial frequency converters and high-density power conversion systems. Driven by a high-torque external rotor motor with THCL 155 (Class F) insulation and IP54 protection, this unit features flexible power ratings up to 1.55 kW at 480 V (60 Hz). Operating at a high rated speed of 2850 RPM, it requires a significant Minimum Static Pressure (PsF min. 1000 Pa) at 60 Hz to ensure optimal motor cooling and operational stability. Constructed with a heavy-duty galvanized sheet steel impeller and a rugged die-cast aluminum motor housing, this 17.0 kg German-engineered unit ensures maximum mechanical stability and long-term performance for mission-critical industrial applications at the end.

RF22P-2DD.5H.1R Fan Parameters

Model Number: RF22P-2DD.5H.1R

Manufacturer: ZIEHL-ABEGG (Made in Germany)

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

Impeller Size: 225.0 mm

Weight: 17.0 kg

Bearing Type: Ball bearing with long-time lubrication

Nominal Voltage: 3~ 400 - 480 VAC  $\pm 10\%$  (Y)

Phase: 3~

Frequency: 50/60 Hz

Rated Performance (50 Hz 400V): 1.10 kW | 1.9 A | 2420 RPM |  $\cos \phi$  0.90

Rated Performance (60 Hz 400V): 1.30 kW | 2.2 A | 2500 RPM |  $\cos \phi$  0.88

Rated Performance (60 Hz 480V): 1.55 kW | 2.2 A | 2850 RPM |  $\cos \phi$  0.88

Max. Air Flow: 794.6 CFM (1350.0 m<sup>3</sup>/h)  
Max. Static Pressure: 122.4 mmH<sub>2</sub>O (1200.0 Pa)  
Working Air Flow: 1350.0 m<sup>3</sup>/h  
Static Pressure Increase: 1200.0 Pa  
Minimum Static Pressure (PsF min): 750.0 Pa (at 50 Hz) / 1000.0 Pa (at 60 Hz)  
Efficiency Grade (ErP): N=39.2 (ErP 2013 compliant)  
Static Efficiency ( $\eta$  statA): 32.6 %  
Motor Type: External rotor motor  
Motor Protection: Integrated thermal protection  
Insulation Class: THCL155 (Class F)  
Degree of Protection: IP54  
Electrical Hookup: Lead wires (Star connection)  
Number of Blades: 7 (Backward-curved)  
Direction of Rotation: Clockwise (viewed toward rotor)  
Impeller Material: Sheet steel, galvanized  
Housing Material: Die-cast aluminum (Motor portion)  
Operation Mode: S1 (Continuous operation)  
Sound Pressure Level: 74.0 dB(A)  
Service Life (L10): 40,000 h (at 40 °C)  
Operating Temperature: -20 - +40 °C  
Storage Temperature: -40 - +80 °C (at 65% RH)  
Standard Compliance: ErP 2013; CE; EN 60335-1  
Approval Agency: VDE; UL; CCC; EAC

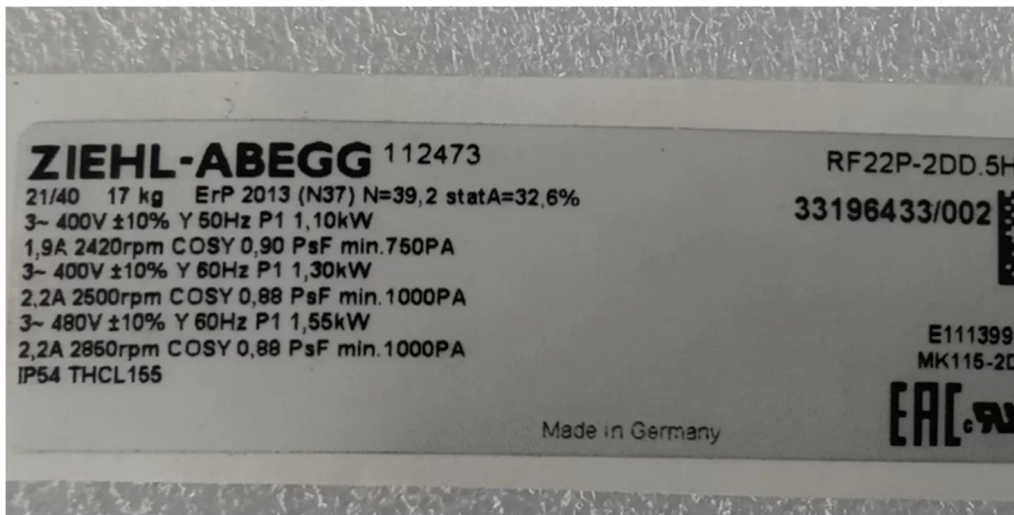
#### Application

The ZIEHL-ABEGG RF22P-2DD.5H.1R 3-phase fan is the primary cooling component for heavy-duty industrial frequency converters and power distribution cabinets requiring high-velocity radial airflow and strict minimum static pressure levels for operational safety.

## Product Images

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Scan for product details:

