

RD22P-4DW.4N.1R ZIEHL-ABEGG 400/690V 225mm Centrifugal Fan

SKU: RD22P-4DW.4N.1R

Price: \$3,856.95

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/rd22p-4dw-4n-1r-ziehl-abegg-400-690v-225mm-centrifugal-fan/>

Product Description

The ZIEHL-ABEGG RD22P-4DW.4N.1R is a high-capacity 400/690 V 3-Phase Industrial Centrifugal Fan with an impeller size of 225 mm, specifically engineered for intensive thermal management in heavy-duty industrial frequency converters and central ventilation systems. Driven by a high-torque external rotor motor with THCL155 (Class F) insulation and IP54 protection, this unit features a precise Max. Power Consumption of 1.00 kW and a Max. Current Draw of 2.2 A at 400 V (50 Hz). Operating at a rated speed of 1370 RPM (50 Hz), it provides superior static pressure capabilities and reliable air delivery under high-impedance conditions. Constructed with a heavy-duty galvanized sheet steel impeller and a rugged die-cast aluminum motor housing, this 20 kg German-made unit ensures maximum mechanical stability and long-term performance for mission-critical industrial applications at the end.

RD22P-4DW.4N.1R Fan Parameters

Model Number: RD22P-4DW.4N.1R

Manufacturer: ZIEHL-ABEGG (Made in Germany)

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

Impeller Size: 225.0 mm

Weight: 20 kg

Bearing Type: Ball bearing

Nominal Voltage: 400 - 440 VAC (Δ) / 690 VAC (Y)

Phase: 3~

Frequency: 50/60 Hz

Max. Power Consumption (P1): 1.00 kW (at 50 Hz) / 1.70 kW (at 60 Hz)

Max. Current Draw: 2.2 A / 1.3 A (at 50 Hz) | 2.8 A / 1.6 A (at 60 Hz)

Rated Speed: 1370 RPM (at 50 Hz) / 1590 RPM (at 60 Hz)

Power Factor (cos ϕ): 0.68 (at 50 Hz) / 0.77 (at 60 Hz)

Max. Air Flow: 505.9 CFM (860.0 m³/h / 14.33 m³/min)

Max. Static Pressure: 51.0 mmH₂O (500.0 Pa / 2.01 inH₂O)

Working Air Flow: 860.0 m³/h

Static Pressure Increase: 500.0 Pa (PsF min. 0 Pa)

Motor Protection: Integrated thermal protection

Insulation Class: THCL155 (Class F)

Degree of Protection: IP54

Electrical Hookup: Lead wires (Support Δ /Y 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)

Max. Operating Temperature: 70 °C (at 50 Hz) / 40 °C (at 60 Hz)

Compliance: ERC; ErP 2015; CE

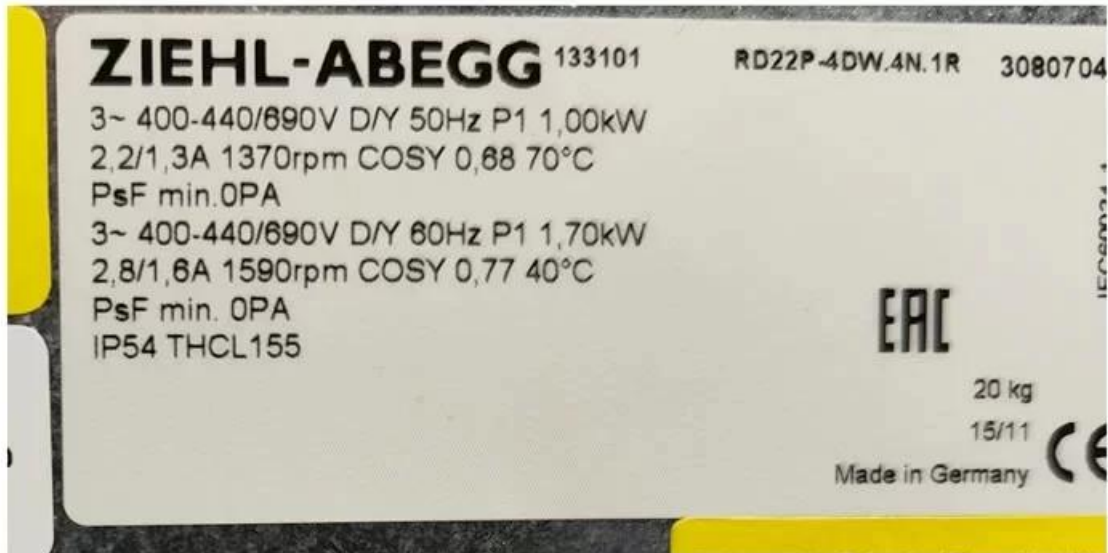
Approval Agency: VDE; UL; CCC

Application

The ZIEHL-ABEGG RD22P-4DW.4N.1R 3-phase fan is the primary cooling component for heavy-duty Industrial Frequency Converters (VFD), large-scale power distribution cabinets, and industrial HVAC systems requiring high-torque ventilation and IP54-rated durability.

Product Images





Scan for product details:

