

GR45I-ZID.GG.CR ZIEHL-ABEGG 400V ECblue Centrifugal Fan

SKU: GR45I-ZID.GG.CR

Price: \$2,642.70

Categories: Fans

Tags: Ziehl-Abegg

Product Link:

<https://www.electspares.com/product/gr45i-zid-gg-cr-ziehl-abegg-400v-ecblue-centrifugal-fan/>

Product Description

The ZIEHL-ABEGG GR45I-ZID.GG.CR is an industrial-grade 3-phase ECblue Centrifugal Fan with a 450 mm impeller, optimized for high-capacity power conversion equipment and mission-critical ventilation. Driven by a state-of-the-art IE5 efficiency motor with an integrated VSD (Variable Speed Drive) and MODBUS controller, this unit features a precise Max. Power Consumption of 5.00 kW and a Max. Current Draw of 8.00 A at 380 V. Operating at a peak rated speed of 2620 RPM, it achieves an exceptional efficiency grade of N=76.6, far exceeding ErP 2015 standards. Constructed for harsh environments, this 42.0 kg German-engineered unit features IP55 protection, THCL 155 insulation, and is UL-listed for short-circuit symmetry up to 100kA, ensuring maximum mechanical stability and electrical safety for integrated industrial applications at the end.

GR45I-ZID.GG.CR Fan Parameters

Model Number: GR45I-ZID.GG.CR

Manufacturer: ZIEHL-ABEGG (Made in Germany)

Part Number (P/N): 116931/A01

Serial Number (S/N): 43732178/001

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

Impeller Size: 450.0 mm

Dimensions: 600 x 600 x 482 mm

Weight: 42.0 kg

Efficiency Class: IE5 (ECblue)

Bearing Type: Ball bearing

Nominal Voltage: 3~ 380 - 480 VAC

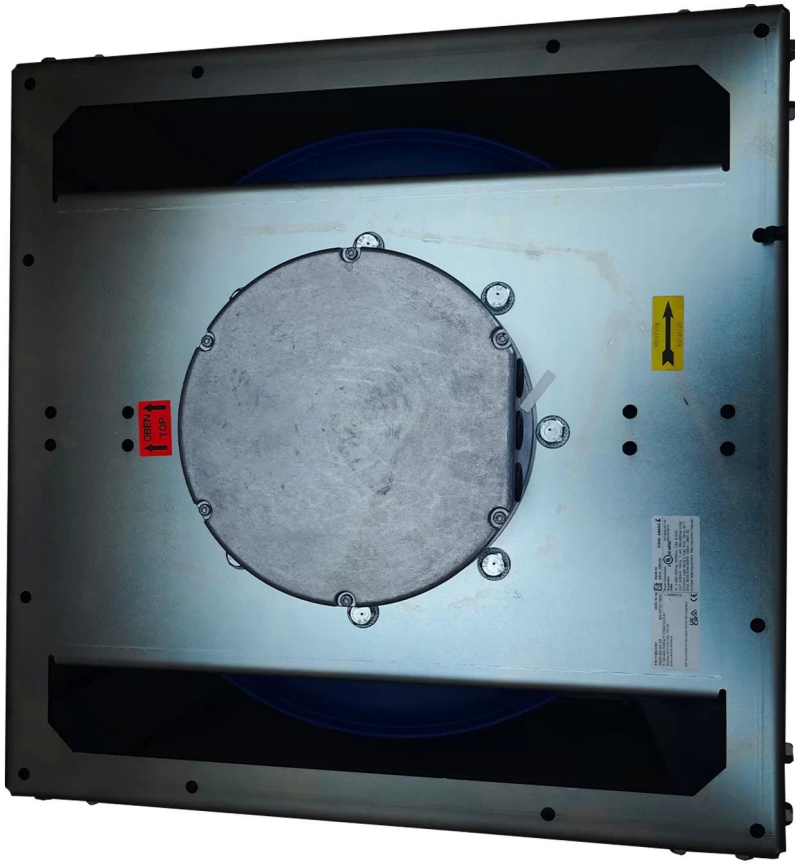
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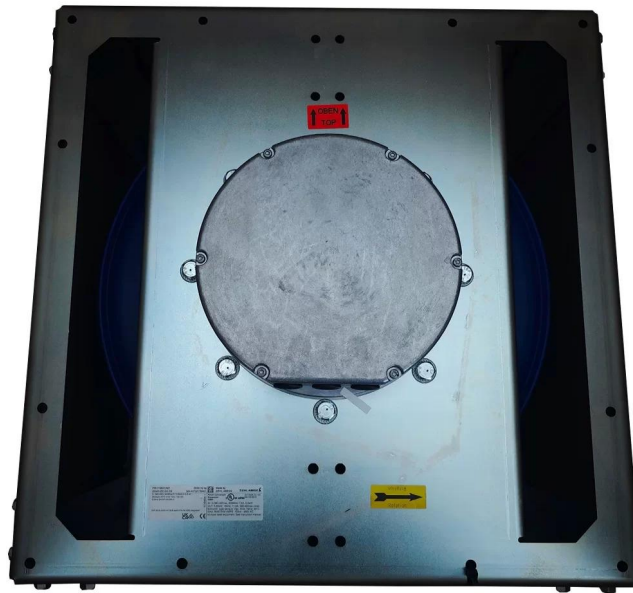
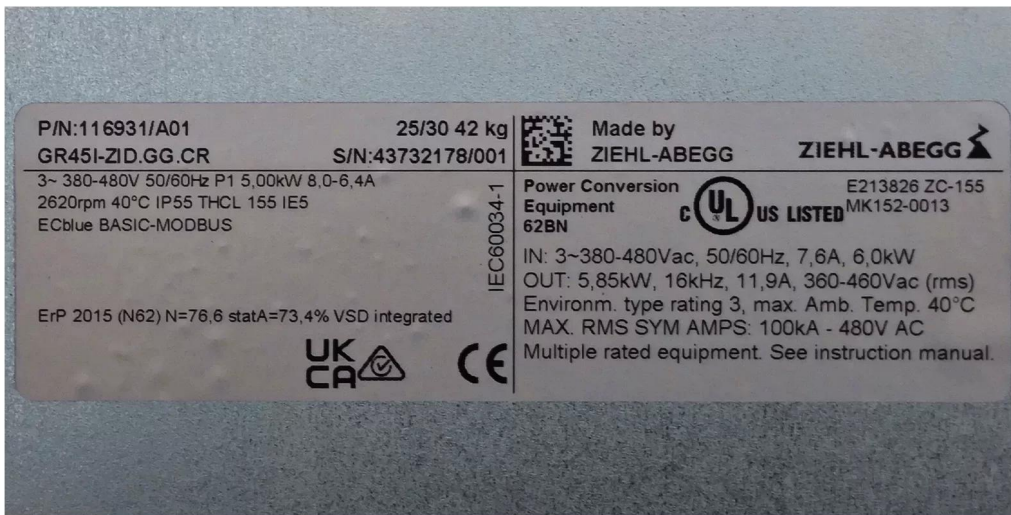
Frequency: 50/60 Hz
Max. Power Consumption (P1): 5.00 kW
Max. Current Draw: 8.00 - 6.40 A
Rated Speed: 2620 RPM
Max. Air Flow: 5038.8 CFM (8561.0 m³/h)
Max. Static Pressure: 146.7 mmH₂O (1439.0 Pa)
Working Air Flow: 8561.0 m³/h
Static Pressure Increase: 1439.0 Pa
Efficiency Grade (ErP): N=76.6 (N_{target} = 62 / ErP 2015)
Efficiency nstatA: 73.4 %
Integrated VSD: Yes (Variable Speed Drive)
Control Function: BASIC-MODBUS
Motor Protection: Integrated active temperature management
Thermal Class: THCL 155 (Class F)
Degree of Protection: IP55
Environmental Type Rating: Type 3
Symmetry Short Circuit Rating: 100 kA RMS SYM - 480 V AC
Integrated Controller Electrical Specs:
- Input: 3~ 380 - 480 VAC, 50/60 Hz, 7.6 A, 6.0 kW
- Output: 360 - 460 VAC (rms), 16 kHz, 11.9 A, 5.85 kW
Number of Blades: 7 (Backward-curved)
Direction of Rotation: Clockwise (viewed toward rotor)
Impeller Material: ZAmid (High-performance composite)
Operation Mode: S1 (Continuous operation)
Max. Ambient Temperature: 40 °C
Standard Compliance: ErP 2015; CE; UL Listed
UL Labelling: E213826 ZC-155 / MK152-0013
UL Category: Power Conversion Equipment 62BN

Application

The ZIEHL-ABEGG GR45I-ZID.GG.CR IE5 fan is the primary cooling component for heavy-duty industrial frequency converters, data center CRAC units, and large-scale modular AHU systems requiring high-efficiency airflow and MODBUS network integration.

Product Images





Scan for product details:

