

# D3G146-LV05-31 ebmpapst 230V 146mm EC Centrifugal Fan

**SKU:** D3G146-LV05-31

**Price:** \$615.68

**Categories:** Fans

**Tags:** ebmpapst

**Product Link:**

<https://www.electspares.com/product/d3g146-lv05-31-ebmpapst-230v-146mm-ec-centrifugal-fan/>

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## Product Description

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The ebmpapst D3G146-LV05-31 is a high-efficiency 200-240 V single-phase GreenTech EC dual-inlet centrifugal fan featuring a 146 mm forward-curved galvanized steel impeller integrated into a robust PP plastic scroll housing. Driven by the M3G055-DF motor with integrated control electronics, this unit is engineered for optimized air displacement in space-constrained environments, delivering an airflow of 745 m<sup>3</sup>/h with a power consumption of 170 W. The motor features dual-side vibration damping and cooling openings on both rotor and stator sides to ensure stable, long-term operation. Equipped with an active PFC, tachometer output, and a 0-10 VDC/PWM control interface, the D3G146-LV05-31 provides a smart, low-vibration, and energy-saving thermal management solution for precision cooling and ventilation across an ambient temperature range of -25 °C to 60 °C.

D3G146-LV05-31 Fan Parameters

Model Number: D3G146-LV05-31

Manufacturer: ebmpapst

Motor Model: M3G055-DF

Series: RadiCal EC Centrifugal Series

Type: EC Centrifugal Fan (Dual-Inlet with Scroll Housing)

Size: 146 mm

Dimensions: 206 x 216 x 272 mm

Bearing Type: Ball Bearing

Nominal Voltage: 230 VAC

Voltage Range: 200 - 240 VAC

Phase: 1~

Frequency: 50 / 60 Hz

Weight: 2.72 kg

Power Consumption: 170 W (Ped 0.17 kW)

Nominal Current: 0.8 A

Speed: 1560 RPM (2250 RPM at peak point)

Max. Air Flow: 62.23 CFM (105.7 m<sup>3</sup>/h / 1.76 m<sup>3</sup>/min)

Max. Static Pressure: 9.81 mmH<sub>2</sub>O (96.24 Pa / 0.39 inH<sub>2</sub>O)

Efficiency Grade (N): 46.9

Overall Efficiency ( $\eta_{es}$ ): 35.8%

Motor Design: Single-phase EC External Rotor Motor

Control Interface: 0-10 VDC / PWM; Tach output

Technical Features: Active PFC; Soft start; Motor current limitation; 10 VDC output (max. 10 mA); Control interface with SELV potential; Thermal overload protection for motor

Motor Protection: Thermal overload protector (TOP) internally connected

Insulation Class: Class F

Touch Current:  $\leq$  3.5 mA

Electrical Hookup: Plug with variable cable

Number of Blades: 42 (Forward-curved)

Direction of Rotation: Counter-clockwise, viewed toward rotor

Impeller Material: Sheet steel, galvanized

Housing Material: PP plastic

Electronics Housing Material: PP plastic

Motor Suspension: Motor vibration-damped on both sides

Installation Position: Any

Condensate Discharge Holes: None

Degree of Protection: Motor IP00, electronics IP20

Environmental Protection Class: H0 (Dry environment)

Operating Temperature: -25 - +60 °C

Standard Compliance: EN 60335-1, CE

Approval Agency: CSA C22.2 No. 77, UL 1004-7, EAC

### Application

The ebmpapst D3G146-LV05-31 centrifugal fan is primarily utilized in electronic cabinet cooling, small air handling units, laboratory equipment ventilation, cleanroom filter units, and compact HVAC systems.

## Product Images

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Scan for product details:

