

D1G133-AB39-52 ebmpapst 48VDC 215x171mm EC Centrifugal Fan

SKU: D1G133-AB39-52

Price: \$589.10

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/d1g133-ab39-52-ebmpapst-48vdc-215x171mm-ec-centrifugal-fan/>

Product Description

The ebmpapst D1G133-AB39-52 is a high-performance EC single inlet centrifugal fan with a nominal voltage of 48 VDC and dimensions of 215 x 171 x 180 mm, specifically engineered for precision thermal management in high-density electronic enclosures. Powered by an advanced M1G074-BF GreenTech EC external rotor motor with a power consumption of 105 W, this unit features a motor vibration-damped suspension on both sides to minimize mechanical noise and resonance. The integrated electronic system supports seamless speed adjustment via a 0-10 VDC or PWM control input, complemented by a tacho output for real-time monitoring.

Constructed with a robust galvanized sheet steel housing and impeller, this 2.8 kg fan delivers a powerful balance of significant airflow and high static pressure, ensuring optimal cooling in telecommunications infrastructure, server racks, and industrial ventilation systems at the end.

D1G133-AB39-52 Fan Parameters

Model Number: D1G133-AB39-52

Manufacturer: ebmpapst

Motor Model: M1G074-BF

Series: EC Centrifugal Fan Series

Type: EC Centrifugal Fan (Single Inlet)

Impeller Size: 133 mm

Dimensions: 215 x 171 x 180 mm

Weight: 2.8 kg

Bearing Type: Ball bearing

Nominal Voltage: 48 VDC

Voltage Range: 36.0 - 57.0 VDC

Power Consumption: 105 W

Nominal Current: 2.8 A

Speed: 1780 RPM

Max. Air Flow: 62.23 CFM (105.7 m³/h / 1.76 m³/min)

Max. Static Pressure: 9.81 mmH₂O (96.24 Pa / 0.39 inH₂O)

Actual Air Flow: 250 CFM (425 m³/h)

Actual Static Pressure: 1.60 inAq (400 Pa)

Sound Pressure Level: 62 dB(A)

Motor Design: Brushless EC motor (External rotor)

Motor Protection: Reverse polarity protection; Motor current limitation; Soft start

Technical Features: Control input 0-10 VDC / PWM; Tacho output

Insulation Class: Class B

Electrical Hookup: Lead wires (Variable cable)

Number of Blades: Forward-curved multi-blade impeller

Direction of Rotation: Clockwise, viewed toward rotor

Airflow Direction: Radial (Single inlet)

Impeller Material: Sheet steel, galvanized

Housing Material: Sheet steel, galvanized

Installation Position: Any

Degree of Protection: IP42

Mode: S1 (Continuous operation)

Operating Temperature: -25 - +60 °C

Storage Temperature: -40 - +80 °C

Standard Compliance: EN 62368-1; EN 61000-6-2; EN 55022 (Class B)

Approval Agency: CSA C22.2 No. 77; CCC; EAC; UL 1004-1

Application

The ebmpapst D1G133-AB39-52 EC centrifugal fan is primarily utilized in precision air conditioning units, telecommunications base stations, cleanroom modules, and electronic equipment rack ventilation.

Product Images









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