

D2D146-BG03-16 ebmpapst 400V/480V 146mm AC Centrifugal fan

SKU: D2D146-BG03-16

Price: \$932.20

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/d2d146-bg03-16-ebmpapst-400v-480v-146mm-ac-centrifugal-fan/>

Product Description

The ebmpapst D2D146-BG03-16 is a high-performance 3~ AC dual-inlet centrifugal blower powered by the heavy-duty M2D068-GA motor. Designed for global industrial grids, it operates across a wide nominal voltage range of 400V to 480V (380-480 VAC) with a Star (Y) wiring configuration. This unit features dual 146 mm forward-curved impellers made of black-painted sheet steel, housed in a robust galvanized sheet steel casing with a RAL 9006 white-aluminum coated guard grille. At 60Hz/480V, it reaches a peak speed of 2960 RPM with a power consumption of 560 W and a current draw of 0.76 A. Engineered for extreme reliability, it carries an IP55 protection rating and Class F insulation, making it ideal for S1 continuous operation in high-static pressure environments like industrial HVAC, cabinet cooling, and power electronics ventilation.

D2D146-BG03-16 Fan Parameters

Manufacturer: ebmpapst

Model Number: D2D146-BG03-16

Motor Model: M2D068-GA

Type: AC Centrifugal Blower fan (Dual Inlet)

Phase: 3~ (Three-phase)

Nominal Voltage: 400 / 440 / 480 VAC

Voltage Range: 380 - 480 VAC

Wiring: Star (Y)

Frequency: 50 / 60 Hz

Dimensions: 260 x 209.4 x 222.2 mm

Fan Size: 146 mm

Weight: 5.6 kg

[Electrical Data]

Rated Speed (50/60Hz): 2580 / 2960 RPM

Power Consumption (50/60Hz): 350 / 560 W

Current Draw (400V/480V): 0.60 / 0.76 A

Termination: Axial Cable

Insulation Class: F

Motor Bearing: Ball Bearing

Touch Current: ≤ 3.5 mA (IEC 60990)

[Performance & Acoustics]

Max. Air Flow: 705 m³/h (Typical at ml/ce)

Min. Back Pressure: 290 Pa (50Hz) / 385 Pa (60Hz)

Static Efficiency: 35.6% (η_{es})

Efficiency Grade: N 46.1

Degree of Protection: IP55

Environmental Protection: F5

[Materials & Construction]

Housing Material: Sheet steel, galvanized

Impeller Material: Sheet steel, painted black

Guard Grille: Steel, coated RAL 9006 (White-aluminum plastic)

Rotor Surface: Painted black

Motor Suspension: Motor mounted with brackets on one side

Direction of Rotation: Counterclockwise, viewed toward rotor

Installation Position: Shaft horizontal

Mode: S1 (Continuous operation)

[Reliability & Protection]

Min. Ambient Temperature: -25 °C

Max. Ambient Temperature: 60 °C

Max. Storage Temperature: +80 °C

Min. Storage Temperature: -40 °C

Motor Protection: Thermal overload protector (TOP) with basic insulation

Protection Class: I (Requires protective earth)

Conformity: EN 60335-1; CE

Approval: CCC; EAC; UL 1004-1; CSA C22.2 No. 100; UL 507

Application

The ebmpapst D2D146-BG03-16 3-phase blower is an industrial thermal management solution designed for high-density electrical enclosures, frequency inverters, and HVAC air handling units. Its dual-inlet centrifugal design is optimized to provide high-velocity airflow even when facing significant back pressure (up to 385 Pa). The IP55 rating ensures the motor is protected against dust and water jets, making it suitable for harsh industrial factory floors. With multi-voltage support (400V-480V) and robust sheet steel construction, this blower provides 24/7

maintenance-free performance for mission-critical cooling in power conversion systems, medical equipment, and large-scale telecommunications infrastructure.

Product Images







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