

DV6224/2TDA-816 ebmpapst 24V 172x51mm DC Diagonal Fan

SKU: DV6224/2TDA-816

Price: \$297.41

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/dv6224-2tda-816-ebmpapst-24v-172x51mm-dc-diagonal-fan/>

Product Description

The ebmpapst DV6224/2TDA-816 is a high-performance 24VDC DC Diagonal Fan with dimensions of 172 x 172 x 51 mm, featuring a robust die-cast aluminum housing and glass-fiber reinforced PA plastic impeller, specifically engineered for mission-critical cooling in Industrial Frequency Converters and high-performance VFD systems. Driven by a high-torque brushless external rotor motor with maintenance-free ball bearings and fully integrated power electronics, this 0.91 kg unit operates at 24 VDC delivering a Max. Power Consumption of 89.0 W and a Max. Current Draw of 3.7 A at a rated speed of 6850 RPM. This High-performance unit achieves a Max. Air Flow of 700.0 m³/h (412.0 CFM / 11.67 m³/min) and a Max. Static Pressure of 60.16 mmH₂O (590.0 Pa / 2.37 inAq). Featuring integrated electronic protection against reverse polarity and blocking, alongside a Tacho speed signal and PWM control interface via AWG 22 leads, this IP54-rated diagonal unit is optimized for environments requiring extreme reliability, industrial-grade moisture resistance, and maximum thermal dissipation in VFD systems at the end.

DV6224/2TDA-816 Fan Parameters

Model Number: DV6224/2TDA-816

Manufacturer: ebmpapst

Type: DC Diagonal Fan

Dimensions: 172 x 172 x 51 mm

Weight: 0.91 kg

Origin: Germany

Bearing Type: Ball bearing (Long-time lubrication)

Phase: DC

Nominal Voltage: 24 VDC

Voltage Range: 16.0 - 28.0 VDC
Connection Type: 4-wire (Leads AWG 22, TR 64, PWM & Tacho)
Max. Current Draw: 3.7 A
Max. Power Consumption: 89.0 W
Rated Speed: 6850 RPM
Max. Air Flow: 412.0 CFM (700.0 m³/h / 11.67 m³/min / 194.4 l/s)
Max. Static Pressure: 60.16 mmH₂O (590.0 Pa / 2.37 inAq)
Working Air Flow: 700.0 m³/h
Static Pressure Increase: 590.0 Pa
Sound Power Level: 8.2 Bel(A)
Sound Pressure Level: 74 dB(A)
Motor Protection: Electronic blocking / Reverse polarity protection
Service Life (L10): 65,000 h (40 °C) / 32,500 h (70 °C)
Insulation Class: Class E
Degree of Protection: IP54 (Moisture protection)
Housing Material: Die-cast aluminum
Impeller Material: Glass-fiber reinforced PA plastic
Direction of Rotation: Counter-clockwise (viewed toward rotor)
Airflow Direction: Exhaust over struts
Ambient Temperature (Max.): 70 °C
Min. Operating Temperature: -20 °C
Standard Compliance: CE; VDE; UL; CSA; CCC

Application

The ebmpapst DV6224/2TDA-816 diagonal fan is the primary cooling component for industrial frequency converters and high-density power modules requiring extreme static pressure and high-wattage thermal dissipation in VFD environments.

Product Images









Scan for product details:

