DV6318/2TDH5PR ebm-papst 48VDC 172mm Diagonal Fan Datasheet

Brand: ebmpapst

SKU: 1012410770547

Category: Axial & Centrifugal Fans

Price: **$599.99**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/dv6318-2tdh5pr-ebm-papst-48vdc-172mm-diagonal-fan

Product Description

The ebm-papst DV6318/2TDH5PR is a high-efficiency diagonal fan designed for extreme thermal management applications requiring substantial static pressure and airflow. Engineered with the advanced S-Force motor technology, this unit features a robust aluminum die-cast housing that ensures structural rigidity under high-velocity operation. The 3-phase motor design, coupled with precision ball bearings, optimizes longevity and reduces thermal impedance within the system. Its aerodynamic diagonal impeller geometry significantly enhances air compression, making it superior to standard axial counterparts in high-resistance environments. This 48VDC unit delivers exceptional power density, utilizing a 388W motor to drive massive air volume for critical industrial cooling.

Model Number: DV6318/2TDH5PR
Brand: ebm-papst
Product Type: Diagonal Compact Fan
Rated Voltage: 48 VDC
Voltage Range: 36.0 - 72.0 VDC
Rated Current: 8.1 A
Power Consumption: 388 W
Rated Speed: 9200 RPM
Bearing Type: Precision Ball Bearing
Max. Air Flow: 647.4 CFM (1100 m^3/h / 18.33 m^3/min)

Max. Static Pressure: 4.82 inH_2O (1200 Pa / 122.37 mmH_2O)
Dimensions: 172 mm x 172 mm x 51 mm
Weight: 1.0 kg
Housing Material: Die-cast Aluminum
Impeller Material: PA Plastic (UL 94 V-0)
Operating Temperature: -20°C to +65°C
Storage Temperature: -40°C to +80°C
Speed Control: PWM Input
Signal Output: Tachometer (Speed Sensor)
Motor Type: 3-Phase S-Force DC Motor
Ingress Protection: IP20
Life Expectancy: 70000 Hours (at 40°C)
Termination: Lead Wires
Mounting Orientation: Any

The DV6318/2TDH5PR is engineered for mission-critical environments where heat dissipation is paramount. Common deployments include high-density server racks, telecommunications base stations, and industrial inverters requiring forced convection against high back pressure. The DV6318/2TDH5PR is also frequently utilized in medical imaging equipment and large-scale automation control cabinets, ensuring component stability through consistent, high-velocity airflow.

Supplemental Images


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