

6318/2TDH4PU-047 ebmpapst 48V DC Axial Fan 172x51mm IP68

SKU: 6318/2TDH4PU-047

Price: \$155.42

Categories: Fans

Tags: ebmpapst

Product Link:

<https://www.electspares.com/product/6318-2tdh4pu-047-ebmpapst-48v-dc-axial-fan-172x51mm-ip68/>

Product Description

The ebmpapst 6318/2TDH4PU-047 is an S-Force High-Performance DC Axial Fan with dimensions of Ø172×51 mm. This customized model operates on 48 VDC, featuring a 4-wire connection for PWM control and Tachometer output. It consumes 140 W (2,900 mA Rated Current) to achieve a Rated Speed of 8,900 RPM. The fan delivers an impressive Airflow of 900.0 m³/h (529.74 CFM) but is optimized for minimal system resistance, indicated by a low Static Pressure of 1.280 Pa (0.005 inAq). A key feature is its IP68 protection rating, making it suitable for harsh environments where high airflow is needed without significant back pressure and maximum protection against dust and water ingress.

6318/2TDH4PU-047 Fan Parameters

Model: 6318/2TDH4PU-047

Manufacturer: ebmpapst

Type: DC Axial Fan (S-Force)

Dimensions: Ø172×51 mm

Motor Design: Electronically Commutated External Rotor Motor (EC)

Bearing Type: Ball Bearing

Rated Voltage: 48 VDC

Rated Current: 2,900 mA

Rated Input: 140 W

Rated Speed: 8,900 RPM

Airflow: 900.0 m³/h (529.74 CFM)

Static Pressure: 1.280 Pa (0.005 inAq)

Mass: 0.875 kg

Termination: 4 Wire Leads (PWM Input and Tachometer Output)

Min. Permitted Ambient Temperature (TU min.): -20 °C

Max. Permitted Ambient Temperature (TU max.): 60 °C

Min. Permitted Storage Temperature (TL min.): -40 °C

Max. Permitted Storage Temperature (TL max.): 80 °C

Ingress Protection: IP68

Life Expectancy L10 at TU=40 °C: 52,500 h

Life Expectancy L10 at TU max. (60 °C): 32,500 h

Life Expectancy L10 acc. to IPC 9591 at TU=40 °C: 87,500 h

Safety Approval: CE, EAC, UL, VDE, CSA, CCC

Application

The 6318/2TDH4PU-047 is uniquely suited for applications requiring very high volume air movement in clean but potentially humid or dusty outdoor environments due to its IP68 rating. Typical uses include ventilation in outdoor communication cabinets, cooling in solar inverters or UPS systems with minimal air resistance, and general air exchange where maximum protection and longevity are paramount.

Product Images







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