

8038HH24B-PD1 T&T 24VDC 80x80x38mm High Pressure Axial Fan Datasheet



Brand: T&T

SKU: [736419256595](#)

Category: Axial & Centrifugal Fans

Price: **\$16.99**

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Product Description

The T&T 8038HH24B-PD1 is a high-performance Axial Fan engineered for demanding industrial cooling applications requiring elevated static pressure capabilities. This unit features a robust DC motor architecture integrated with a precision Dual Ball Bearing system, ensuring reduced friction and extended operational longevity under continuous load. The 38mm frame depth allows for an optimized impeller geometry, significantly enhancing aerodynamic efficiency and thermal impedance management. Designed with structural rigidity in mind, the housing withstands vibration and thermal stress, making it an ideal solution for high-density electronic enclosures where airflow resistance is a critical factor.

Model Number: 8038HH24B-PD1

Brand: T&T

Product Type: DC Axial Fan

Rated Voltage: 24V DC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.60 A

Power Consumption: 14.4 W

Rated Speed: 5700 RPM (Nominal)

Bearing Type: Dual Ball Bearing

Max. Air Flow: 84.1 CFM (142.8 m³/h / 2.38 m³/min)

Max. Static Pressure: 16.5 mmH₂O (161.8 Pa / 0.65 inH₂O)

Dimensions: 80 x 80 x 38 mm

Weight: 175 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 48.5 dB(A)

Housing Material: PBT Thermoplastic (UL94V-0)

Impeller Material: PBT Thermoplastic (UL94V-0)

Termination: Lead Wires

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +70°C

Ingress Protection: IP20

Insulation Resistance: >10M Ohm at 500VDC

Dielectric Strength: 500VAC for 1 Minute

Motor Protection: Locked Rotor Protection, Polarity Protection

Mounting Orientation: Any

The T&T 8038HH24B-PD1 is specifically calibrated for environments where component density restricts natural convection, such as in 2U server racks and telecommunications switching equipment. Engineers frequently deploy the 8038HH24B-PD1 in industrial automation control panels and power supply units where consistent forced air cooling is mandatory to prevent thermal throttling. Its high static pressure profile also makes it suitable for heat exchanger systems and medical instrumentation requiring reliable thermal dissipation.

Supplemental Images

