

# TA450DC B33534-55ALC1 Nidec 24VDC 120x120x38mm Axial Fan Datasheet



**Brand:** Nidec

**SKU:** [1029890982691](#)

**Category:** Axial & Centrifugal Fans

**Price:** **\$21.99**

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Product Page:

<https://www.equipspares.com/product/ta450dc-b33534-55alc1-nidec-24vdc-120x120x38mm-axial-fan>

## Product Description

Nidec TA450DC B33534-55ALC1 is a 24VDC 120x120x38mm Axial Fan optimized for high-density thermal management in industrial enclosures. This BetaV series component utilizes a sophisticated dual ball bearing architecture to minimize thermal impedance and ensure long-term structural rigidity under continuous operation. Engineered with a high-efficiency DC motor, it draws 0.45A while delivering significant static pressure to overcome internal system resistance. The aerodynamic blade profile is specifically tuned to balance high-volume airflow with acoustic precision, making it a reliable solution for mission-critical cooling. This unit provides a robust 10.8W power rating, ensuring stable thermal regulation for sensitive electronic components.

Model Number: TA450DC B33534-55ALC1

Brand: Nidec

Product Type: Axial Fan

Rated Voltage: 24 VDC

Voltage Range: 14.0 - 27.6 VDC

Rated Current: 0.45 A

Power: 10.8 W

Rated Speed: 3200 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 105.0 CFM (178.4 m<sup>3</sup>/h)

Max. Static Pressure: 8.6 mmH<sub>2</sub>O (84.3 Pa)

Dimensions: 120 x 120 x 38 mm

Weight: 270 g

Life Expectancy: 70,000 hours at 40°C

Noise Level: 48.0 dB(A)

Housing Material: Plastic (UL94V-0)

Blade Material: Plastic (UL94V-0)

Termination: 2 Lead Wires

Operating Temperature: -10 to +70 °C

Storage Temperature: -40 to +75 °C

Protection Features: Locked Rotor Protection, Reverse Polarity Protection

#### TA450DC Applications

1. Industrial Control Cabinets: The 38mm depth and high static pressure make it an ideal replacement fan for overcoming the high impedance of densely packed VFD and PLC enclosures.
2. Server and Storage Arrays: Optimized for 120mm mounting points in 4U rackmount chassis where consistent airflow is required to prevent HDD thermal throttling.
3. Power Supply Cooling: High-reliability dual ball bearings provide the necessary longevity for integration into heavy-duty industrial power converters and UPS systems.

## Supplemental Images

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