

TAA0412CD-BD1A Delta 12VDC 40x40x20mm 4-Wire Axial Fan Datasheet



Brand: Delta

SKU: [991911396718](#)

Category: Axial & Centrifugal Fans

Price: **\$13.99**

E-mail: sales@equipspares.com

Web: <https://www.equipspares.com>

Product Page:

<https://www.equipspares.com/product/taa0412cd-bd1a-delta-12vdc-40x40x20mm-4-wire-axial-fan>

Product Description

The Delta TAA0412CD-BD1A is a high-performance DC Axial Fan engineered for demanding thermal management environments requiring substantial static pressure in a compact footprint. Utilizing advanced DC motor technology and a robust Dual Ball Bearing architecture, this unit ensures minimized friction and extended operational longevity under continuous load. The aerodynamic impeller design is optimized to reduce thermal impedance while maintaining structural rigidity at high rotational speeds. Designed for precision cooling, the TAA0412CD-BD1A delivers exceptional airflow efficiency, making it an ideal solution for high-density electronic enclosures where space is constrained but thermal dissipation requirements are critical.

Model Number: TAA0412CD-BD1A

Brand: Delta Electronics

Product Type: DC Axial Fan

Rated Voltage: 12VDC

Voltage Range: 7.0 - 13.2 VDC

Rated Current: 0.60 A

Power Input: 7.20 W

Rated Speed: 14500 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 24.8 CFM (42.1 m³/h / 0.70 m³/min)

Max. Static Pressure: 28.5 mmH₂O (279 Pa / 1.12 inH₂O)

Dimensions: 40 x 40 x 20 mm

Weight: 48 g

Life Expectancy: 70,000 Hours at 40°C

Noise Level: 54.5 dB-A

Speed Control: PWM / 4-Wire Tachometer

Ingress Protection: IP55 (Optional)

Insulation Class: Class A

Housing Material: PBT Plastic (UL94V-0)

Impeller Material: PBT Plastic (UL94V-0)

Operating Temperature: -10°C to +70°C

Storage Temperature: -40°C to +75°C

Termination: 4-Wire Leads (Red +, Black -, Blue PWM, Yellow Tach)

Certifications: UL, cUL, TUV, CE

Protection: Locked Rotor Protection, Polarity Protection

The TAA0412CD-BD1A is specifically designed for high-density server applications, 1U rackmount systems, and telecommunications equipment where high static pressure is necessary to overcome system impedance. Its compact 40mm form factor allows for integration into tight spaces within network switches and industrial power supplies. The TAA0412CD-BD1A ensures reliable thermal regulation in mission-critical hardware, preventing overheating in continuous-duty environments such as RAID arrays and precision medical instrumentation.

Supplemental Images

