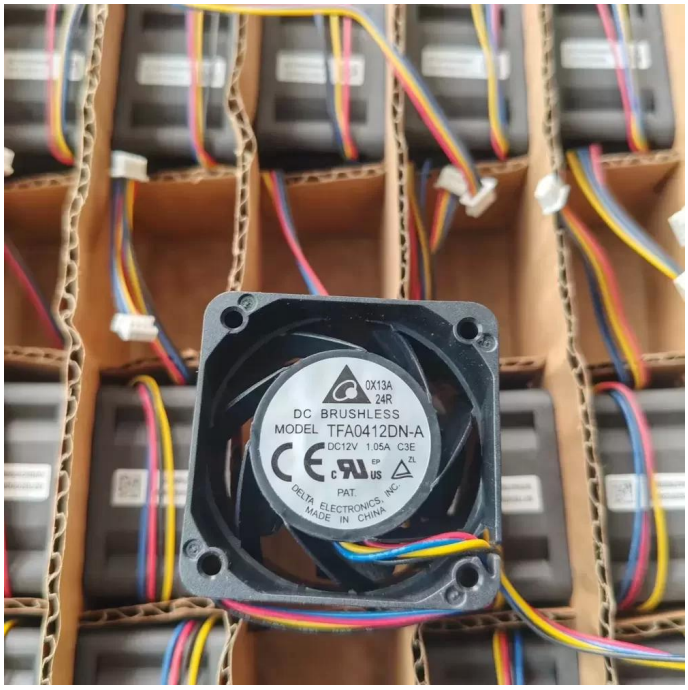
TFA0412DN-AC3E Delta 12VDC 1.05A 40x40x28mm Axial Fan Datasheet



Brand: Delta

SKU: 1045827803648

Category: Axial & Centrifugal Fans

Price: **$23.43**

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Product Page:
https://www.equipspares.com/product/tfa0412dn-ac3e-delta-12vdc-1-05a-40x40x28mm-axial-fan

Product Description

Delta TFA0412DN-AC3E is a high-performance axial cooling fan measuring 40 x 40 x 28 mm, operating at a nominal 12 VDC with a rated current of 1.05 A. The unit features a robust dual ball bearing system and a 4-wire interface supporting PWM speed control and tachometer output. Constructed with a UL 94V-0 rated plastic frame and impeller, the fan utilizes a brushless DC motor to deliver high static pressure and concentrated airflow. The internal mechanism is designed for continuous operation in high-impedance environments, incorporating locked rotor protection and polarity protection to ensure hardware integrity.

TFA0412DN-AC3E Specifications
Model: TFA0412DN-AC3E
Brand: Delta Electronics
Category: DC Axial Fan
Dimensions: 40 x 40 x 28 mm
Rated Voltage: 12 VDC
Operating Voltage Range: 7.0 to 13.2 VDC
Rated Current: 1.05 A
Rated Input Power: 12.6 W
Bearing Type: Dual Ball Bearing
Interface: 4-wire

Wire Functions: Red (Positive), Black (Negative), Blue (PWM), Yellow (Tachometer)
Connector: 4-pin plug
Material - Frame: Plastic (UL 94V-0)
Material - Impeller: Plastic (UL 94V-0)
Motor Type: Brushless DC
Protection: Locked Rotor Protection, Polarity Protection
Operating Temperature: -10 to 70 °C
Storage Temperature: -40 to 75 °C
Life Expectancy: 70,000 hours at 40 °C
Safety Approvals: UL, CSA, VDE, CE, RoHS Compliant

TFA0412DN-AC3E Applications

Primary applications include integration into high-density 1U/2U server chassis, industrial workstations, and telecommunications network switches. Deployed within power supply modules and CNC controller cabinets to provide critical thermal management for high-heat components.

Supplemental Images