

FFB0412VN-F00Y9H Delta 12VDC 0.83A 40x40x28mm Axial Fan Datasheet



Brand: Delta

SKU: [865585861272](#)

Category: Axial & Centrifugal Fans

Price: **\$17.99**

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Product Page:

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Product Description

The Delta FFB0412VN-F00Y9H is a high-performance DC brushless axial fan measuring 40 x 40 x 28 mm, operating at a nominal 12 VDC with a safety current rating of 0.83 A. This compact 4028 series fan is constructed with a UL 94V-0 flame-retardant plastic impeller and frame, housing a precision maintenance-free dual ball bearing system for extended operational life. It features a 4-wire interface supporting both Pulse Width Modulation (PWM) for speed control and a Frequency Generator (FG) signal for rotational monitoring. The internal motor architecture includes locked rotor protection with a 10-second auto-restart and polarity protection to prevent damage from reverse voltage connection. Delivering a maximum airflow of 23.66 CFM and a high static pressure of 2.33 inH₂O at 18,000 RPM, the unit is designed for high-density thermal management where significant backpressure is present.

FFB0412VN-F00Y9H Specifications

Model Number: FFB0412VN-F00Y9H

Brand: Delta Electronics

Dimensions: 40 x 40 x 28 mm

Rated Voltage: 12 VDC

Operating Voltage Range: 5.0 to 13.8 VDC

Rated Current: 0.55 A (Typical), 0.83 A (Safety Label)

Input Power: 6.60 W (Average), 9.00 W (Maximum)

Rated Speed: 18,000 RPM \pm 10%
Maximum Airflow: 0.670 m³/min (23.66 CFM)
Maximum Static Pressure: 59.18 mmH₂O (2.33 inH₂O)
Acoustic Noise: 56.5 dB-A (Typical), 60.5 dB-A (Maximum)
Bearing Type: Dual Ball Bearing
Interface: 4-Wire (Red: +, Black: -, Blue: FG, Yellow: PWM)
PWM Frequency: 25 kHz (Recommended)
Insulation Class: UL Class A
Insulation Resistance: 10 M Ω minimum at 500 VDC
Dielectric Strength: 5 mA maximum at 500 VAC 50/60 Hz
Life Expectancy: 70,000 Hours (L10 at 40 °C)
Operating Temperature: -10 to +70 °C
Storage Temperature: -40 to +80 °C
Operating Humidity: 5 to 90 % RH
Weight: 51 g
Safety Approvals: RoHS Compliant, UL, TUV, CE

FFB0412VN-F00Y9H Applications

Primary applications include integration into high-density 1U/2U rackmount servers, telecommunications base station power modules, and industrial switching power supplies. Deployed within CNC controller cabinets, network routers, and automotive LED thermal management systems requiring high-pressure forced-air cooling.

Supplemental Images

