

AFB0812HHB-F00 Delta 12V 0.24A 80mm 8015 DC Axial Fan

SKU: AFB0812HHB-F00

Price: \$9.99

Categories: Fans

Tags: Delta

Product Link:

<https://www.electspares.com/product/afb0812hhb-f00-delta-12v-0-24a-80mm-8015-dc-axial-fan/>

Product Description

The Delta AFB0812HHB-F00 is a high-performance 12V DC Axial Fan with dimensions of 80 x 80 x 15 mm, specifically optimized for efficient thermal management in slim-profile electronic enclosures. Operating at a nominal 12 VDC, this specialized variant runs at a rated speed of 4000 RPM, delivering an airflow of 35.7 CFM (60.6 m³/h) with a power consumption of 2.88 W and a current draw of 0.24 A. The fan features a high-density 9-blade impeller and a 3-wire interface with an F00 suffix, indicating an integrated Frequency Generator (FG) signal that provides a precise Tacho pulse output for real-time speed monitoring. Utilizing Delta's signature dual ball bearing system and weighing 58g, the AFB0812HHB-F00 provides a balanced profile of 0.159 inH₂O (39.6 Pa) static pressure and reliable 24/7 operation, making it an ideal solution for 1U server chassis and networking equipment where constant rotation feedback is required.

AFB0812HHB-F00 Fan Parameters

Manufacturer: Delta Electronics

Model Number: AFB0812HHB-F00

Motor Design: Brushless DC Motor

Type: DC Axial Fan

Nominal Voltage: 12 VDC

Voltage Range: 7.0 - 13.8 VDC

Dimensions: 80 x 80 x 15 mm

Impeller Size: 80 mm

Number of Blades: 9

Weight: 58 g

[Electrical Data]

Nominal Speed: 4000 RPM (±10%)

Power Consumption: 2.88 W

Current Draw: 0.24 A

Starting Voltage: 7.0 VDC

Termination: 3 Lead wires (Red: +, Black: -, Blue: FG Signal)

Lead Wire Length: 300 mm \pm 10 mm

Motor Bearing: Dual Ball Bearing

Signal Type: F00 - Frequency Generator (FG) / Tacho Signal

Signal Output: Open Collector (2 pulses per revolution)

Motor Protection: Polarity protection and locked rotor auto-restart

[Performance & Acoustics]

Max. Air Flow: 60.6 m³/h (35.7 CFM)

Max. Static Pressure: 39.6 Pa (0.159 inH₂O)

Sound Pressure Level: 37 dB(A)

Direction of Rotation: Clockwise (looking at rotor)

Airflow Direction: Exhaust over struts

[Materials & Construction]

Housing Material: Glass-fiber reinforced plastic (PBT, UL 94V-0)

Impeller Material: Glass-fiber reinforced plastic (PBT, UL 94V-0)

Mounting Position: Any

Frame Type: Ribbed

[Reliability & Protection]

Service Life (L10 at 40 °C): 70000 h

Min. Ambient Temperature: -10 °C

Max. Ambient Temperature: 70 °C

Insulation Resistance: 10M Ω min at 500 VDC between frame and (+) terminal

Dielectric Strength: 5 mA max at 500 VAC 50/60 Hz for 1 minute

Approval: UL, CUL, TUV, CE

Application

The Delta AFB0812HHB-F00 is specifically engineered for high-density cooling in mission-critical 12V environments where space is at a premium but consistent airflow is required to maintain the stability of 1U rackmount servers, telecommunications modules, and industrial micro-controllers, utilizing its slim 15mm frame depth and 9-blade high-efficiency impeller to provide effective heat extraction while the integrated 3-wire F00 Tacho signal provides an essential Open Collector output for system-level speed detection, ensuring that any deviation in RPM can be immediately flagged by the controller to prevent thermal damage in high-uptime enterprise applications where a lightweight 58g construction and rotational feedback are vital.

Product Images









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