



## FFB0412VHN-BF00 Delta

Brand: Delta

SKU: FFB0412VHN-BF00

Category: DC Fans

URL: <https://www.fansco.com/item/ffb0412vhn-bf00-delta/>

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## Product Description

FFB0412VHN-BF00 Delta 12VDC 40x40x28mm 15.8CFM 0.509inH2O(126.8Pa) Ball 45dB(A) 1.92W 9500RPM 3 Wire Leads Locked Rotor Protection, Speed Sensor (Tach) DC Fan

FFB0412VHN-BF00 is a DC brushless axial flow fan manufactured by Delta Electronics, featuring a two-phase four-pole motor design. With a rated voltage of 12VDC and an operation voltage range of 4.5-13.2VDC, it starts at  $\leq 4.0\text{VDC}$  under 25°C ambient temperature. The fan draws 0.16A (max. 0.24A) current, consuming 1.92W (max. 2.88W) power, running at  $9500\pm 8\%$  RPM. It delivers a maximum air flow of  $0.447\text{m}^3/\text{min}$  (15.79CFM) at zero static pressure and a maximum static pressure of 12.94mmH2O (0.509inH2O) at zero air flow, with an average noise level of 45dB(A) (max. 49dB).

Constructed with UL94V-0 plastic frame and impeller, the fan adopts a two-ball bearing system, measuring  $40\times 40\times 28\text{mm}$  and weighing 32g. It ensures a 70,000-hour continuous operation life at 40°C, operating within 10-70°C and storing at -40-75°C. Equipped with locked rotor protection (motor winding impedance prevents burnout within 96 hours of locked rotor at rated voltage) and reverse polarity protection, it uses UL1007-F AWG24 leads (red for +, black for -, blue for FG signal). The FG signal outputs in open collector mode ( $V_{FG}\leq 13.2\text{V}$ ,  $I_C\leq 5\text{mA}$ ) with automatic self-rotation recovery. Passing reliability tests including thermal cycling, humidity exposure, vibration, and mechanical shock, it suits high-speed cooling in compact applications.

## Technical Specifications

Attribute	Value
Model	FFB0412VHN-BF00
Manufacturer	Delta Electronics
Dimensions	40x40x28 mm
Bearing Type	Ball Bearing
Series	FFB
Voltage Rating	12 VDC
Air Flow	15.8 CFM
Air Flow (m3)	0.442 m <sup>3</sup> /min

Static Pressure	0.509 in H2O (126.8 Pa)
Features	Locked Rotor Protection, Speed Sensor (Tach)
Fan Type	DC
Noise Level	45 dB(A)
Power Rating	1.92 W
Fan Speed	9500 RPM
Termination	3 Wire Leads
Number of blades	5
Operating Temperature	14 ~ 158°F (-10 ~ 70°C)
Approval Agency	CE, CSA, UL, VDE
Weight	0.071 lb (32.21 g)
Current Rating	0.24 A
Subcategory	DC axial fan





