AFB0824SH-F00 Delta

Brand: Delta

SKU: AFB0824SH-F00

Category: DC Fans

URL: https://www.fansco.com/item/afb0824sh-f00-delta/

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Product Description

AFB0824SH-F00 Delta 24VDC 80x80x25.40mm 46.6CFM 0.267inH2O(66.5Pa) Ball 40dB(A) 3.84W 4000RPM 3 Wire Leads Locked Rotor Protection, Speed Sensor (Tach) DC Fan

The Delta AFB0824SH-F00 is a high-performance DC axial fan engineered for efficient thermal management in industrial, IT, and telecommunications applications. With a compact 80x80x25.4mm form factor, it delivers robust airflow of 46.62 CFM (1.32 m³/min) at 4000 RPM while maintaining a low noise level of 40 dBA, making it suitable for environments where both cooling efficiency and acoustic comfort are critical . Operating on a 24V DC power supply with a wide voltage tolerance of 14–26V DC, it ensures stable performance in fluctuating power conditions, supported by a 0.16A current draw and 3.84W power consumption . The fan features a ball bearing system, offering an impressive 70,000-hour operational lifespan at 40°C, ensuring long-term reliability even in demanding conditions .

Key design advantages include its backward-curved blade configuration, which optimizes airflow dynamics and reduces turbulence, enhancing energy efficiency and pressure generation up to 0.267 in H2O (66.5 Pa) . The fan's construction uses flame-retardant plastic materials compliant with UL 94V-0 standards, ensuring safety in high-temperature environments . It also incorporates a three-wire interface with a tachometer output for real-time speed monitoring, enabling precise system integration and maintenance .

Engineered for versatility, the AFB0824SH-F00 excels in applications such as server rack cooling, telecom equipment, and industrial machinery, where consistent airflow and durability are essential. Its compliance with UL, CSA, and VDE certifications guarantees global usability and adherence to strict safety standards . The fan's PWM control capability allows adaptive speed adjustment based on thermal load, further improving energy efficiency and extending component lifespan . With a focus on reliability and performance, the AFB0824SH-F00 stands out as a cost-effective solution for medium-to-high airflow requirements in diverse industrial and commercial settings.

Technical Specifications

Attribute	Value
Part Number	AFB0824SH-F00

Manufacturer	Delta Electronics
Series	AFB
Voltage Rating	24 VDC
Dimensions	80x80x25.40 mm
Air Flow	46.6 CFM
Air Flow (m3)	1.30 m³/min
Static Pressure	0.267 in H2O (66.5 Pa)
Bearing Type	Ball Bearing
Fan Type	DC
Features	Locked Rotor Protection, Speed Sensor (Tach)
Noise Level	40 dB(A)
Power Rating	3.84 W
Fan Speed	4000 RPM
Termination	3 Wire Leads
Operating Temperature	14 ~ 140°F (-10 ~ 60°C)
Approval Agency	CE, CSA, UL, VDE
Weight	0.176 lb (80.00 g)