



## AFB1224SHE Delta

Brand: Delta

SKU: AFB1224SHE

Category: DC Axial Fans

URL: <https://www.fansco.com/item/afb1224she-delta/>

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## Product Description

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AFB1224SHE Delta 120x120x38mm Ball 24VDC 151.85CFM(4.300m<sup>3</sup>/min)  
0.571inchH<sub>2</sub>O(14.50mmH<sub>2</sub>O) 53.0dB(A) 12.00W 3700RPM 2wireleads fan

The AFB1224SHE is a DC brushless axial flow fan by Delta Electronics, designed with a two-phase, four-pole motor. The AFB1224SHE operates at a rated voltage of 24VDC, with a wide operating voltage range of 7.0–27.6VDC, drawing 0.50A (max. 0.75A) current and consuming 12.00W (max. 18.00W) power. Rotating at 3700 RPM, the AFB1224SHE delivers 4.300 m<sup>3</sup>/min (min. 3.950 m<sup>3</sup>/min) airflow at zero static pressure and 0.571 inchH<sub>2</sub>O (min. 0.484 inchH<sub>2</sub>O) air pressure at zero airflow, with average noise of 53.0 dB-A (max. 56.0 dB-A) measured 1 meter from the intake in free-air conditions.

Constructed with UL94V-0 flame-retardant plastic for both the frame and impeller, the AFB1224SHE features a double ball bearing system, ensuring a 70,000-hour lifespan under continuous operation at 40°C and 15–65% RH. Measuring 120mm x 120mm x 38mm (L x W x H), the AFB1224SHE weighs 256 grams and rotates clockwise when viewed from the nameplate side, using UL1007-F-AWG#24 leads (red for positive, black for negative) for reliable power connection. The standardized dimensions of the AFB1224SHE allow easy integration into industry-standard cooling systems, with mounting hole spacing of 105.0 ± 0.3 mm (horizontal/vertical) and 5.0 mm diameter holes for secure installation.

Environmentally, the AFB1224SHE withstands -10°C to +60°C during operation and -40°C to +75°C for storage, with humidity tolerances of 5–90% RH (operating) and 5–95% RH (storage) (non-condensing). These specs make the AFB1224SHE suitable for diverse environments, from controlled indoor setups to harsh industrial spaces with fluctuating temperatures and moisture levels, where its robust construction ensures consistent performance.

Safety and reliability are prioritized in the AFB1224SHE, which includes lock rotor protection to prevent fire for 96 hours at rated voltage by limiting motor winding impedance during rotor lock, as well as polarity tolerance to withstand accidental reverse connections without damage. The AFB1224SHE undergoes rigorous testing, including thermal cycling, humidity exposure, vibration, and mechanical shock resistance, ensuring it maintains performance under stressful operational conditions.

Ideal for high-performance cooling applications, the AFB1224SHE excels in industrial machinery, telecommunications equipment, server racks, and power electronics systems. Its 120x38mm form factor allows the AFB1224SHE to

balance robust airflow with space efficiency, making it suitable for both compact enclosures and large-scale setups where standardized sizing simplifies integration. The wide voltage range of the AFB1224SHE adapts to unstable power environments, while its long lifespan and durable ball bearings minimize maintenance in 24/7 operations. With resistance to extreme temperatures and humidity, the AFB1224SHE establishes itself as a reliable choice for demanding thermal management needs across industries.

## Technical Specifications

Attribute	Value
Part Number	AFB1224SHE
Fan Type	DC
Approval Agency	CE, CSA, UL, VDE
Operating Temperature	14 ~ 140°F (-10 ~ 60°C)
Features	Locked Rotor Protection
Series	AFB
Air Flow (m3)	4.300 m3/min
Dimensions	120x120x38 mm
Termination	2 wire leads
Manufacturer	Delta Electronics
Fan Speed	3700 RPM
Power Rating	12.00 W
Noise Level	53.0 dB(A)
Static Pressure	0.571 inchH2O (14.50 mmH2O)
Air Flow	151.85 CFM
Voltage Rating	24 VDC
Bearing Type	Ball Bearing
Weight	0.565 lb (256.28 g)
Category	Axial
Current Rating	0.50 A
Operating Voltage	7 ~ 27.6 VDC
Material Frame	Plastic

Material Blade	Plastic
Lifetime @ Temp	70000 Hrs @ 40°C





