

OA109AP-11-1TB Orion Fans 115VAC 120x120x38mm Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$25.99**

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Product Description

The Orion Fans OA109AP-11-1TB is a high-performance AC Axial Fan engineered for demanding industrial thermal management. This unit features a robust die-cast aluminum housing and a UL94V-0 thermoplastic impeller, ensuring structural rigidity and fire safety in critical environments. The motor utilizes a shaded pole induction architecture with internal impedance protection to prevent thermal failure during locked rotor conditions. Equipped with a precision dual ball bearing system, the fan minimizes thermal impedance and maximizes operational longevity. Its aerodynamic blade profile is optimized for high static pressure, making it an ideal solution for dense electronic enclosures requiring consistent airflow and reliable heat dissipation.

Model Number: OA109AP-11-1TB

Brand: Orion Fans

Product Type: AC Axial Fan

Rated Voltage: 115VAC

Voltage Range: 110 - 120VAC

Frequency: 50/60Hz

Rated Current: 0.16/0.14A

Power: 17/15W

Rated Speed: 3000 RPM

Bearing Type: Dual Ball Bearing

Max. Air Flow: 110 CFM (186.9 m³/h)

Max. Static Pressure: 7.11 mmH₂O (69.7 Pa / 0.28 inH₂O)

Dimensions: 120x120x38mm

Weight: 560g

Life Expectancy: 60,000 Hours (L10 at 40C)

Noise Level: 42 dB

Housing Material: Die-Cast Aluminum

Blade Material: PBT, UL94V-0 Plastic

Termination: Terminals

Operating Temperature: -20C to +80C

Storage Temperature: -40C to +100C

Protection: Impedance Protected

Insulation Resistance: 100M ohm between leadwire and frame (500VDC)

Dielectric Strength: 1 min at 1500VAC/50-60Hz

Certifications: UL, cUL, TUV, CE, RoHS

The Orion Fans OA109AP-11-1TB is specifically designed for integration into industrial control cabinets and server enclosures where reliable heat extraction is paramount. In telecommunications infrastructure, the OA109AP-11-1TB provides the necessary static pressure to overcome internal resistance in densely packed equipment racks. It is also frequently utilized in CNC machinery and power supply cooling systems to maintain optimal operating temperatures for sensitive electronics. The rugged construction ensures that the OA109AP-11-1TB performs consistently in medical diagnostic equipment and automated industrial processing lines.

Supplemental Images

