

R87F-A1A15H OMRON 100VAC 120x38mm Axial Fan Datasheet



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Category: Axial & Centrifugal Fans

Price: **\$148.99**

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Product Page: <https://www.equipspares.com/product/r87f-a1a15h-omron-100vac-120x38mm-axial-fan>

Product Description

The OMRON R87F-A1A15H is a robust AC Axial Fan designed for demanding industrial thermal management applications. Engineered with a high-efficiency AC motor and a precision ball bearing architecture, this unit ensures consistent airflow delivery and reduced friction under continuous operation. The structural rigidity is provided by a die-cast aluminum frame, which optimizes thermal impedance and minimizes vibration transmission. Its aerodynamic impeller design maximizes static pressure while maintaining operational stability, making it an ideal solution for harsh electrical environments requiring reliable heat dissipation and long service life.

Model Number: R87F-A1A15H

Brand: OMRON

Product Type: AC Axial Fan

Rated Voltage: 100 VAC

Frequency: 50/60 Hz

Input Power: 15 W (50Hz) / 14 W (60Hz)

Rated Current: 0.24 A (50Hz) / 0.21 A (60Hz)

Rated Speed: 2700 RPM (50Hz) / 3100 RPM (60Hz)

Max. Air Flow: 95.3 CFM (2.7 m³/min) / 113.0 CFM (3.2 m³/min)

Max. Static Pressure: 6.86 mmH₂O (67.6 Pa) / 8.82 mmH₂O (86.3 Pa)

Noise Level: 42 dB (50Hz) / 46 dB (60Hz)

Bearing Type: Ball Bearing

Dimensions: 120 x 120 x 38 mm

Weight: 550 g

Frame Material: Die-cast Aluminum

Impeller Material: Glass-reinforced PBT (UL94V-0)

Operating Temperature: -30°C to +70°C

Storage Temperature: -40°C to +85°C

Insulation Resistance: 100 MΩ min. at 500 VDC

Dielectric Strength: 1500 VAC for 1 minute

Protection: Impedance Protection

Termination: Terminal Type (Faston #110)

Life Expectancy: 50,000 Hours (at 25°C)

Mounting Orientation: Vertical or Horizontal

This cooling solution is specifically engineered for integration into control panels, factory automation equipment, and power supply units where space and reliability are critical. The R87F-A1A15H excels in maintaining optimal operating temperatures within server racks and CNC machinery control cabinets, effectively mitigating thermal risks. By utilizing the R87F-A1A15H, operators ensure the longevity of sensitive electronic components in telecommunications infrastructure and medical instrumentation, preventing thermal throttling and hardware failure.

Supplemental Images

