

A2175-HBT.TC.GN Sunon 220VAC 172x151x51mm Capacitor Axial Fan Datasheet



Brand: SUNON

SKU: 937962581580

Category: Axial & Centrifugal Fans

Price: \$58.99

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Product Description

The Sunon A2175-HBT.TC.GN is a high-grade AC Axial Fan designed for industrial applications necessitating robust thermal management and sustained high-volume airflow. Engineered with a precision Alveolate motor structure and a capacitor-run induction system, this unit delivers superior torque efficiency while minimizing thermal impedance. The fan features a die-cast aluminum frame providing exceptional structural rigidity, coupled with a dynamically balanced thermoplastic PBT impeller to reduce acoustic resonance and vibration. Incorporating a premium Ball Bearing architecture, the A2175-HBT.TC.GN ensures extended operational longevity and reliable performance under continuous duty cycles. It is equipped with thermal cutout protection, making it a critical component for systems requiring rigorous safety standards and consistent static pressure.

Model Number: A2175-HBT.TC.GN

Brand: Sunon

Product Type: AC Axial Fan

Rated Voltage: 220-240 VAC

Frequency: 50/60 Hz

Voltage Range: 150 - 250 VAC

Rated Current: 0.11 / 0.11 A

Power Consumption: 25 / 26 W

Rated Speed: 2800 / 3200 RPM ($\pm 10\%$)
Bearing Type: Ball Bearing
Max. Air Flow: 203 / 239 CFM (345 / 406 m³/h)
Max. Static Pressure: 0.62 / 0.69 InH₂O (15.7 / 17.5 mmH₂O)
Dimensions: 172mm x 151mm x 51mm
Weight: 908 g (2.0 lbs)
Life Expectancy: 50,000 Hours @ 25°C
Noise Level: 51 / 58 dB(A)
Frame Material: Aluminum Alloy Die-Cast
Impeller Material: Thermoplastic PBT (UL94V-0)
Motor Type: Capacitor-Run Induction Motor (Alveolate)
Protection: Thermal Cutout (TC)
Termination: Terminals (Standard)
Insulation Resistance: >500M Ohm @ 500VDC
Dielectric Strength: 1500 VAC for 1 Minute
Operating Temperature: -10°C to +70°C
Storage Temperature: -40°C to +70°C
Safety Certifications: UL, CUR, TUV, CE

The A2175-HBT.TC.GN is engineered for critical cooling in heavy-duty industrial environments, including server rack enclosures, telecommunications cabinets, and large-scale power supply units. Its high airflow capacity makes it a preferred choice for factory automation equipment, CNC control panels, and medical instrumentation requiring reliable heat dissipation. Maintenance engineers and system integrators frequently deploy the A2175-HBT.TC.GN in HVAC ventilation retrofits and heat exchanger systems, ensuring that sensitive electronics operate within safe thermal boundaries to prevent overheating and maximize equipment uptime.

Supplemental Images

