



GENERAL SPECIFICATION - AC Fans

1.0 SCOPE

This specification defines the basic requirements for R Series AC Brushless Fans supplied by ThermActive Electronics, LLC. Wherever any discrepancy is found between this General Specification and the individual Data Sheet attached to samples, information provided in the later is final.

2.0 MECHANICAL

2.1 Dimensions: This device shall have the dimensions as shown in the outline styling drawing attached to samples. (All measurements in MM)

2.2. Material:

2.2.1 Motor: Two-pole Shaded pole induction motor.

2.2.2 Impeller: Flame retardant thermoplastic in black color, rated UL94V-0.

2.2.3 Housing: Aluminum alloy, painted black.

2.2.4 Bearing System: Sleeve Bearing or Ball Bearing

2.3 Leads: Two(2) wires, Type UL1007, certified for use at rated temperature and voltage, or 2 pin terminals each 2.8x0.5mm, pitch=8.0mm

2.4 Weight & Packing: As shown per our quotation.

3.0 ELECTRICAL

3.1 Rated Voltage: 115/230VAC.

3.2 Power Input: See data sheet attached to sample.

3.3 Tolerances: +/- 10% on rated current and speed.

3.4 Dielectric Strength: Applied a 1800VAC for 2 seconds/ 500 microamps maximum leakage.

3.5 Insulation: IEEE 130 temperature index.

3.6 Protection: This fan shall be locked rotor protected.

4.0 ENVIRONMENTAL

Unless otherwise specified, when subject to the following conditions, devices within this specification shall have no change in appearance, physical dimensions or functionality.

4.1 Operating Temperature (Celsius): -10° to +70°.

4.2 Storage Temperature (Celsius): -40° to +80°.

4.3 Acoustical: This device shall have a maximum noise level as specified in Characteristic Measurement data sheet, measured 1 meter away from intake side of fan-free air.

4.4 Life Expectancy: When operating at 25°C, this fan shall have a life expectancy of 30,000 hours and 50,000 hours respectively for Sleeve Bearing and Ball Bearing systems.

5.0 DEFINITIONS of CHARACTERISTICS

5.1 Power Input and Speed

Measured after continuous 30 minutes operation at rated voltage in free air at an ambient temperature of 25°C.

5.2 Noise Level

Measured in an semi-anechoic chamber with background noise level below 15dBA.

The fan to be running in free air with microphone at a distance of one(1) meter from the intake side of fan.

5.3 Air Flow

Measured by a double chamber. The values are recorded when the fan speed is stabilized at rated voltage and 0 static pressure.

5.4 Static Pressure

Measured at rated voltage with 0 air flow at an ambient temperature of 25°C.

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