



GENERAL SPECIFICATION - DC Fans

1.0 SCOPE

This specification defines the basic requirements for R Series DC 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 should be final.

2.0 MECHANICAL

2.1 Dimensions: This device shall have the dimensions as shown in the outline drawing in printed media and/or attached to samples. (All measurements in MM)

2.2. Material:

2.2.1 Motor: Brushless DC with permanent magnet motor.

2.2.2 Impeller: Thermoplastic in black color, rated UL94V-0.

2.2.3 Housing: Thermoplastic in black color, rated UL94V-0. or aluminum alloy, spray painted black. (As shown per drawing)

2.2.4 Bearing System: Ball Bearing or sleeve bearing (See data sheet)

2.3 Leads: UL Type, certified for use at rated temperature and voltage, normally +Red/-Black (Optional connectors available on request.)

2.4 Weight & Packing: As shown per Data Sheet submitted with samples

3.0 ELECTRICAL

3.1 Rated Voltage & Power Input: As specified in Data Sheet.

3.2 Tolerances: Speed +/-10%; Current +20%

3.3 Dielectric Strength: Applied a 1500VAC, 1mA for one second between housing and lead wire(+)

3.4 Insulation Resistance: More than 500M Ohm between internal stator and lead wire(+) measured by 500VDC.

3.5 Protection: Polarity protected. (Other options available on request)

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° (RH35%~85%)

4.2 Storage Temperature (Celsius): -40° to +80°.(RH35%~85%)

4.3 Acoustical: This device shall have a maximum noise level as specified in Data Sheet submitted with samples, measured 1 meter away from intake side of fan in 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 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_.

5.2 Noise Level

Measured in an semi-anechoic chamber with background noise level below 18+/-1dBA. 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 Air pressure.

5.4 Air Pressure

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

6.0 SAFETY APPROVALS

ThermActive DC fans are approved and licensed for selling by UL/CUL; TUV; CSA; CE.

Warranty, Errors & Omissions

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