



JARO THERMAL DATA-SHEET

BRUSHLESS AXIAL COOLING FANS

Customer:

Ref:

Model Number: AD17248UB515100(OCW)-LF



Samples attached:

Safety Approval: CE

ITEM

FAN SPECIFICATION & CONDITION

DIMENSIONS:	172X150X51 MM.
BEARING TYPE:	BALL
RATED VOLTAGE:	48 VDC.
OPERATING VOLTAGE:	24—56 VDC.
START-UP VOLTAGE:	24 VDC,NOMINAL
RATED CURRENT:	1.35 AMP + 10%(MAX.).
RATED POWER:	64.8 WATT.
RATED SPEED:	5300 RPM +/-10%.
AIR FLOW:	417 CFM +/- 10%.
STATIC AIR PRESSURE:	1.690 INCH WATER.
NOISE LEVEL:	66.0 dB + 10%
MOTOR PROTECTION:	BY IC
CONNECTION LEAD TYPE:	WIRE ,AWG#22
LIFE EXPECTANCY:	70000 HOURS AT 40 degree / 65%
NET WEIGHT:	762 GRAM.
PACKING:	8 pcs PER CARTON.

SPECIFICATION

1.0 SCOPE

This documentation defines the mechanical & electrical characteristics of DC Brushless Fans.

2.0 MATERIAL

- 2.1 Housing: UL94V-0 Glass Filled Polyester (P.B.T)
- 2.2 Fan Blade: UL94V-0 Glass Filled Polyester (P.B.T)
- 2.3 Bearing Type: 2 BALL Bearing.

3.0 DIMENSIONS & CONSTRUCTION

All dimensions, direction of rotation and airflow were specified as per drawing attached.

4.0 CHARACTERISTICS & DEFINITION

- 4.1 All rated characteristics were specified as per data sheet enclosed
- 4.2 Rated Current: shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4.3 Rated Speed: shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4.4 Start Voltage: is able to start the fan to operate by suddenly switching on.
- 4.5 Input Power: shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4.6 Locked Rotor Current: shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4.7 Air Flow & Static pressure: The air flow data and static Pressures should be determined in accordance with AMCA standard or DIN24163 specification in a double-chamber testing with intake-side measurement.
- 4.8 Noise Level: the measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when viewing from impeller side

5.2 Protection

All fans have integrated protection against locked rotor condition so that there will be no damage to winding or any electronic component. Restarting is automatic as soon as any constraint to rotation has been released.

As fan placed at dead angle position, and the switch was changed from off to on.

Restarting was automatic normal as soon as and proved that this fan is good fan.

5.3 Locked Rotor Protection

No damage shall be found after 72 hours continuously at condition of rotation locked. Restarting is automatic as soon as constraint to running has been released.

5.4 Avoid the damage check the correct voltage and proper polarity before connecting with power.

5.5 Free drop shock

In minimum package condition, the fan should withstand drops on any three faces from a height of 30cm onto a wood board of 10mm in thickness.

6.0 ELECTRICAL INSPECTION

6.1 Insulation resistance

Not less than 10M Ohm between housing and positive end of lead wire (red) at 500 VDC.

6.2 Dielectric Strength

No damage should be found at 500 VAC for 60 seconds, measured with 1mA trip current between housing and positive end of lead wire.

6.3 Life Expectancy

The continuous duty life at given temperature after which, 90% of Testing units shall still be running.

6.3 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by long term locking will damage the fan.

7.0 ENVIRONMENTAL

7.1 Operating Temperature

-10 to +70 degree Celsius at 65% +/- 20% RH

7.2 Storage Temperature

All function shall be normal after 500 hours storage at -40 to +70 degree Celsius, at normal humidity with a 24 hours recovery period at room temperature.

7.3 Humidity

After 96 hours, 95% RH, 40 +/- 2 degree Celsius per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specification.

7.4 Improper use such as disassembling the fan, being covered with dust, or dipping water are not covered by the warranty.

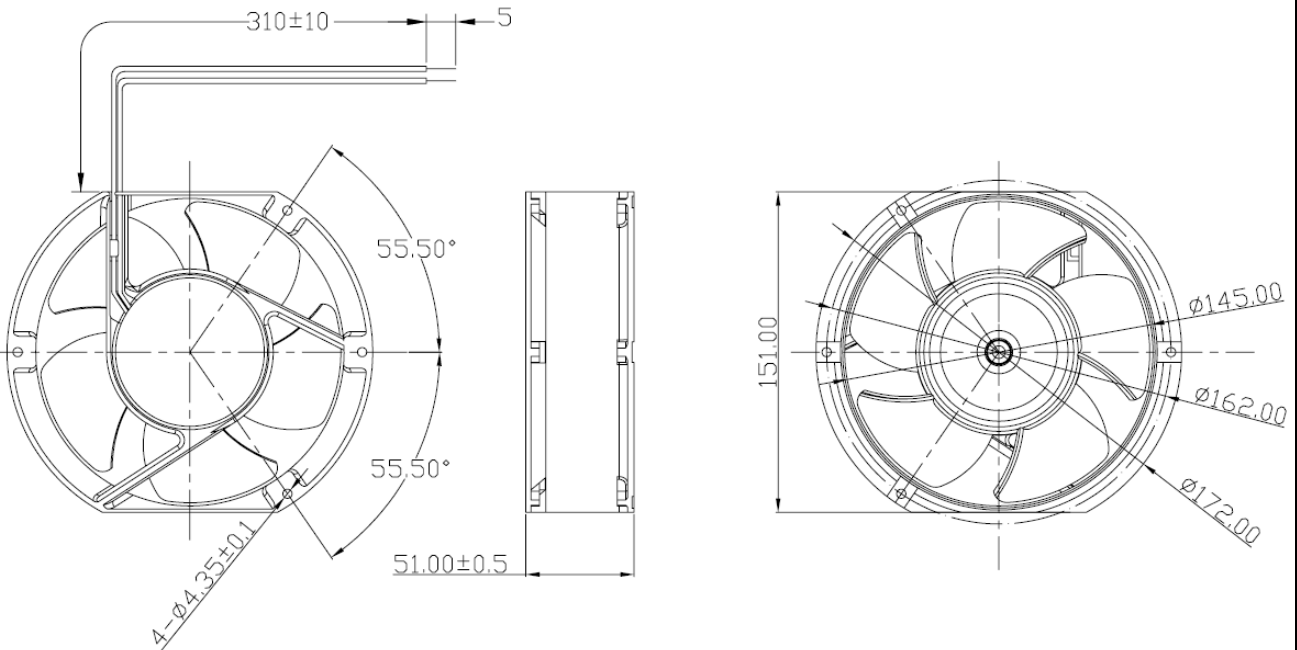
8.0 REMARKS

8.1 Material and construction are subject to change without advance Notice. The changes should be within specification.

8.2 All fans shall meet the quality inspection under sampling plan MIL-STD-105D as follow:

Critical	0.25%
Major	1.00%
Minor	2.50%

9.0 OUTLINE STYLING & DIMENSIONS



Please do not touch and push Fan Blade with fingers or others.
Fan Blade or bearings may be damaged and cause a noise defect.

LEAD WIRES: UL1007, AWG22, L=310±10mm

RED=Positive ; Black=Negative.

