

# **Data Specification Sheet**

Customer :

ECFD Part Number : EC17251B00HL-A02

Revision : A02

**Description** : 172×152×51mm – AC Variable Frequency Motor

Issue Date : 2017-03-29

**Customer Approval** 

**Signature** 

**Print Name** 

**Position** 

**Date** 

Thanks for your interest in our products. Once formally approved please sign and return this specification to your designated Sales Manager

EC fans & drives will not release any orders into production without receipt of a signed approval data specification sheet

EC Fans & Drives 174 Duchaine Blvd, New Bedford, MA 02745 Phone: 508-996-7400 Fax: 508-998-8694 Web: www.ecdrives.com

## **General Information**

ITEM		Specification			
01	Part Number		EC17251	B00HL-A02	
02	Dimension	172×152×51mm			
03	Rated Voltage	100-120VAC (50/60Hz)			
04	Start-up Voltage	85VAC (50/60Hz)			
05	Operating Voltage	85~120VAC			
06	Rated Speed	3200Rpm	±10%	a. Rated Voltage	
07	Maximum Current	0.45 A		b. 25°C and 65% RH	
08	Maximum Power	22.5W	Max	c. Measured after 5 Minutes	
00	May Airflow	228.35	CFM	a. PQ Measurement Apparatus :	
09	Max Airflow	6.47	m³/min	(LW9266-SR) - b. Standard : AMCA	
40	Mary Otatia Desagner	0.60	Inch-H₂O	c. Rated Voltage	
10	Max Static Pressure	149.55	Pa	d. Rated Current	
11	Life Expectancy	50000hrs	at 40°C	a.L10 at Conf. Level 90% b.Rated Voltage	
12	Noise Level	55.4dB		a.Rated Voltage b.Non-Echo Chamber c.Standard:CNS 8753/ISO3744 d.Test Condition:ISO 7779 e.Distance: 1.0M	
13	Motor Type	AF AC Frequency-Switching Fan			
14	Rotating Direction	Co	unter-Clockwise	e(From Label side)	

## **Material Information**

01	Bearing	■ Dual Ball Bearing			Sleeve Bearing				
02	Frame		□ PBT of UL94V-0			•	Die-cast Aluminum Alloy		
03	Impeller		■ PBT of UL94V-0			Steel			
04	Bobbin		■ PBT of UL94V-0						
05	Connection Type	□ Ta	□ Tags	■Black(N)	■Black(L)	□Brov	vn(E) UL1007 20#		Terminal
				□White(RD)	□Yellow(FG)	920mr	m±20mm		
06	Sleeving	■ Heat shrink Sleeving							
07	Connector	2 x AMP 2-520102-2 (or alternative)							

## **Electrical Information**

ITEM		Specification			
0.4	Locked Rotor Protection	Locked the fan blade 72hours, after lock released, the fan can work normally			
01		Auto power off after locked at rated voltage for 1sec After auto power off ,circuit will attempt restart in 2 to 6 seconds			
02	Insulation Resistance	100MΩ Between unshielded wire and frame at 500VDC/min			
03	Dielectric Strength	1800VAC/5mA/ 3s between lead wire and frame			
04	Constant Rotation Speed	During the operating voltage AF fan has the constant rotation speed			
05	Moisture Protection	PCBA Conformally Coated Against Moisture Ingress			
06	Soft Start	Soft Start Function Reduced to Minimum Setting for Increased Start-up Torque			

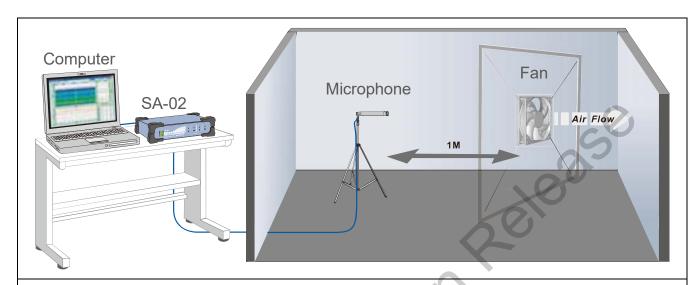
# **Environmental Specification**

	ITEM	010	Specification
01	Operating Temp. Range	Temperature :	-25°C to +70°C
		Humidity :	15%~ 90% RH
02	Ctorogo Town Dongo	Temperature :	-40°C to +70°C
02	Storage Temp. Range	Humidity	15%~ 90% RH

## Approvals

01	CE		In Accordance with Low Voltage Directive 2006/95/EC IEC 60335-2-80:2002 (Second edition) + A1:2004 +A2:2008 in conjunction with IEC 60335-1:2010 (Fifth Edition)
02	UL	•	File Number E468951
03	CUL		File Number E468951
04	TUV		In Progress

#### **Noise Measure Condition**



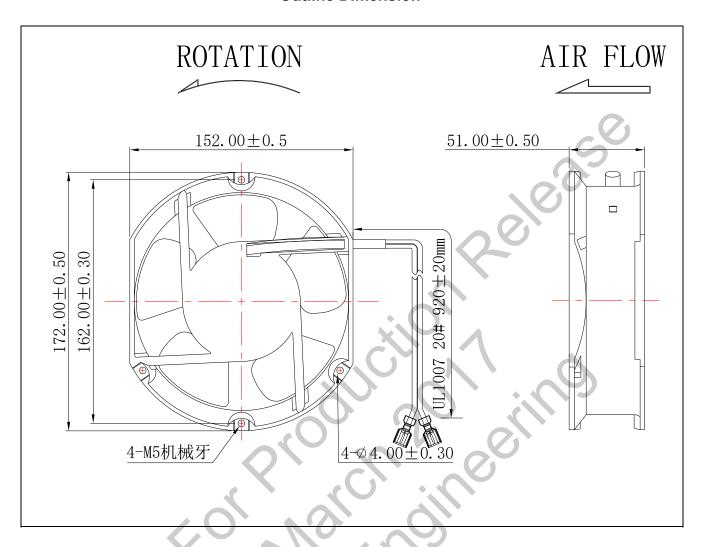
### Measurement Systems

- 1.ANECHOIC Room Noise Measurement System
- 2. Rion SA-02 4-Channel Signal Analyzer, U-57 Microphone
- 3.Specifications:ISO 3744,ISO 3745,ISO 7779, CNS6753,JIS 8346
- 4.Background Noise: <18dB(A)

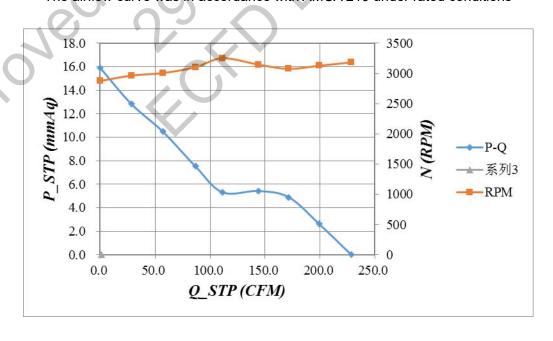
### **Label Identification**



#### **Outline Dimension**



Airflow Curve
The airflow curve was in accordance with AMCA 210 under rated conditions



### Note:

1. EC fans & drives will not guarantee the products if your application exceeds the limitations

outlined in this specification.

2. Please do not touch or push fan blade with fingers or other items Fan blade and ball

bearings may be damaged which could cause defect

3. Please avoid operating EC Fans & Drives products in poisonous materials (organic,

cyanogen's, formalin, phenol, etc.) or corrosive gas environment (H<sub>2</sub>S, SO<sub>2</sub>, NO<sub>2</sub>, etc.)

4. Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, EC fans

& drives recommend functional testing before using.

5. Please do not damage this product this product including coil and lead wires while installing

or wiring as this could cause defect

6. Always ensure that fan unit is connected to correct voltage & polarity

7. Improper mounting may cause harsh resonance, vibration, and noise

8. Please handle fans carefully. Although products are drop tested it is important to note that

damage can occur to the balancing or bearing alignment if dropped

9. EC fans & drives recommend that all fans should be fitted with an approved fan guard to

prevent injury

Disclaimer

All technical information stated in this document are provided in good faith and are believed to be accurate as at the date of publication. EC fans & drives reserve the right to amend or

change any information in this document at their discretion

EC fans & drives products are supplied under the terms and conditions contained in the

General Conditions of Sale which can be viewed at www.ecdrives.com

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