



Data Specification Sheet

Customer :
Customer Part Number :
ECD Part Number. : ECD0232-A01
Model Number / Issue : AF12038B22HL-01
Description : 120mm x 120mm x 38mm – AC Variable Frequency Motor
Issue Date : 2013-10-27



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

General Information

ITEM		Specification	
01	Part Number	AF12038B22HL-01	
02	Dimension	120×120×38mm	
03	Rated Voltage	200 - 240VAC (50/60Hz)	220 -240VAC
04	Start-up Voltage	85VAC (50/60Hz)	85VAC
05	Operating Voltage	85~265VAC	85~265VAC
06	Rated Speed	3500Rpm	±10%
07	Maximum Current	0.18 A	Max
08	Maximum Power	9.5W	
09	Max Airflow	126	CFM
		3.57	m ³ /min
10	Max Static Pressure	0.39	Inch-H ₂ O
		97.5	Pa
11	Life Expectancy	50000hrs at 40°C	a.L10 at Conf. Level 90% b.Rated Voltage
12	Noise Level	53dB	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	Clockwise (From Label side)	

Material Information

01	Bearing	<input checked="" type="checkbox"/> NMB Ball Bearing	<input type="checkbox"/> Sleeve Bearing
02	Frame	<input checked="" type="checkbox"/> PBT of UL94V-0	<input type="checkbox"/> Die-cast Aluminum Alloy
03	Impeller	<input checked="" type="checkbox"/> PBT of UL94V-0	<input type="checkbox"/> Steel
04	Bobbin	<input checked="" type="checkbox"/> PBT of UL94V-0	
05	Connection Type	<input checked="" type="checkbox"/> Wire <input type="checkbox"/> Black(N) <input type="checkbox"/> Black(L) <input type="checkbox"/> Brown(E) UL1007 20# <input checked="" type="checkbox"/> Terminal	<input type="checkbox"/> White(RD) <input type="checkbox"/> Yellow(FG) 400mm±15mm
06	Sleeving	<input checked="" type="checkbox"/> Heat shrink Sleeving	
07	Connector	Not Applicable	

Electrical Information

ITEM		Specification	
01	Locked Rotor Protection	<input type="checkbox"/> Locked the fan blade 72hours, after lock released, the fan can work normally	
		<input checked="" type="checkbox"/> 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	
07	Special Function	<input type="checkbox"/> RD	<input type="checkbox"/> FG

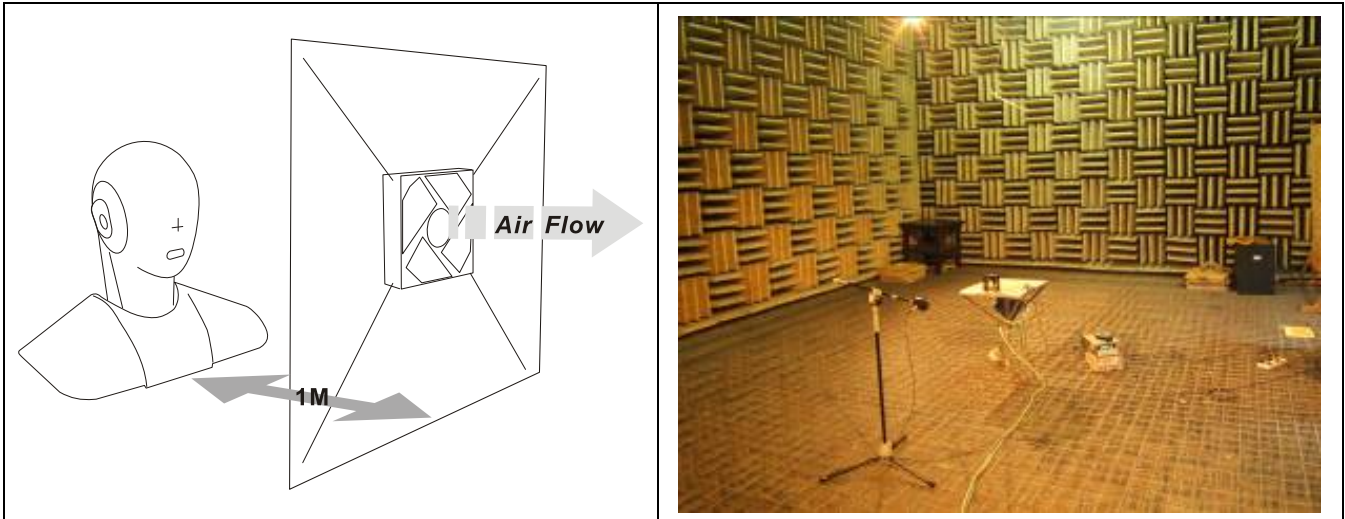
Environmental Specification

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

Approvals

01	CE	In Accordance with Low Voltage Directive 2006/95/EC <input checked="" type="checkbox"/> IEC 60335-2-80:2002 (Second edition) + A1:2004 +A2:2008 in conjunction with IEC 60335-1:2010 (Fifth Edition)
02	UL	<input checked="" type="checkbox"/> File Number E254715
03	CUL	<input checked="" type="checkbox"/> File Number E254715
03	TUV	<input type="checkbox"/> In Progress

Noise Measure Condition



Measurement Systems

1. ANECHOIC Room Noise Measurement System

2. Digital Head Measurement System, 16-bit version

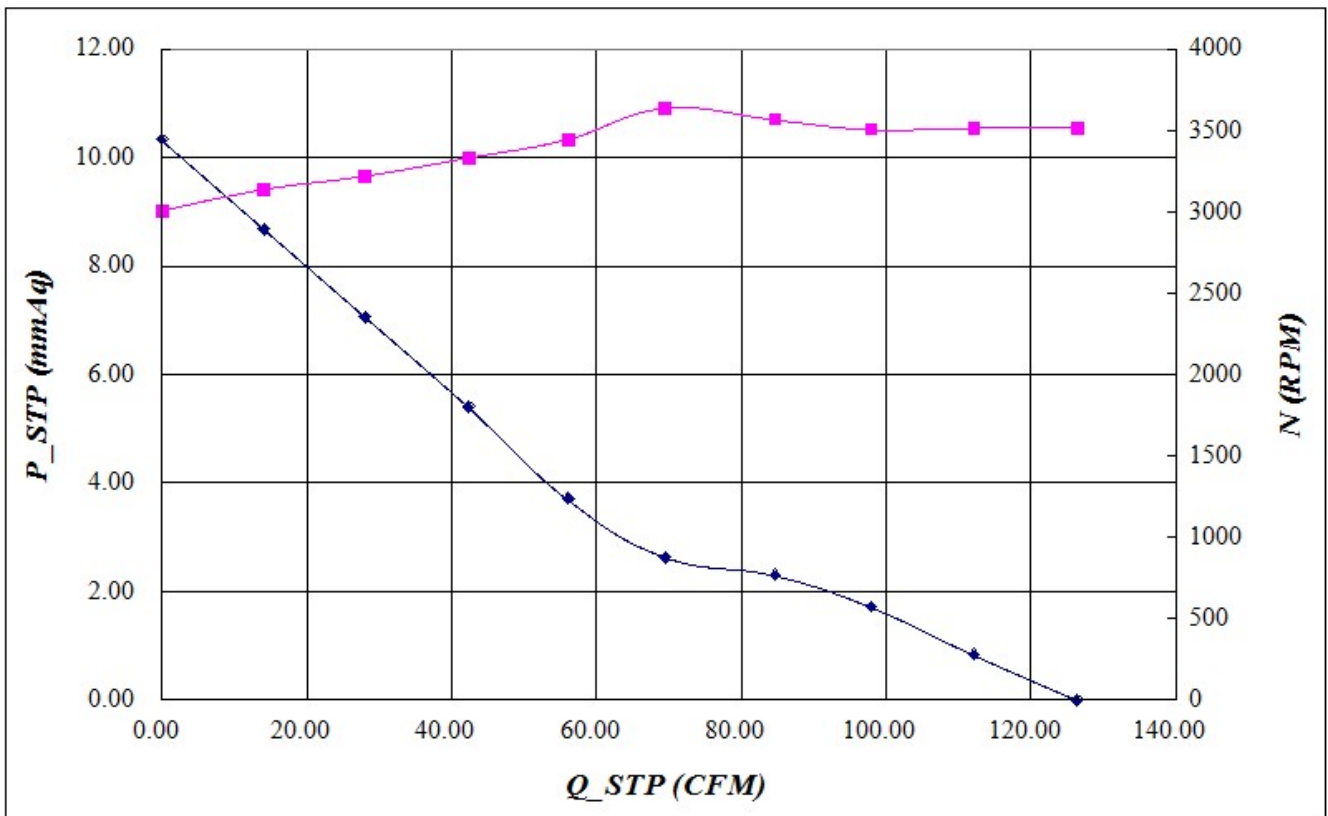
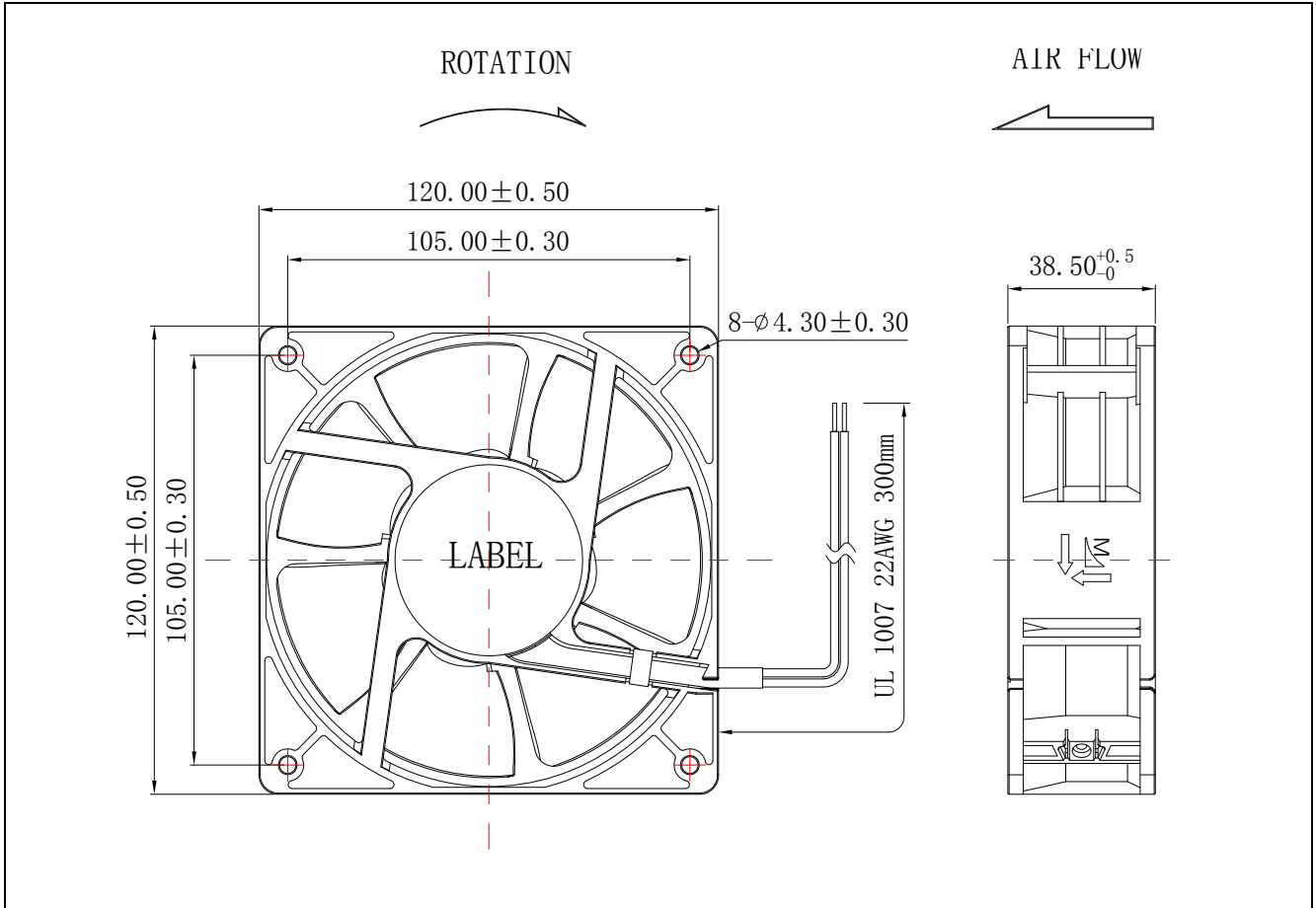
3. Specifications: ISO 3744, ISO 3745, ISO 7779, CNS6753, JIS 8346

4. Background Noise: < 18dB(A)

Label Identification

	Model No.	AF12038B22HL-01
	Rated Voltage	220-240 VAC (50/60Hz)
	Maximum Power	9.5W
	Label Size	Φ47mm
	Label Color	Green
	Safety Approvals	CE UL
	Appendix Code	No

Outline Dimension



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 (H₂S, SO₂, NO₂, 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

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