



Data Specification Sheet



Customer :
ECD Part Number : DB12032B24LA
Revision : A01
Description : 120mm × 120mm × 32mm
Issue Date : 2016-12-19

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

Product Specification

General Specification

ITEM		Specification Condition		
01	Part No.	DB12032B24LA		
02	Dimension	120mm×120mm×32mm		
03	Rated Voltage	24 VDC		
04	Start-Up Voltage	12 VDC		
05	Operating Voltage	14.0 ~ 27.6 VDC		A Rated Voltage
06	Rated Speed	2500 rpm	±10%	b. 25℃
07	Rated Current	0.26 A	±10%	c. 65% RH
08	Rated Power	7.20 W		d. Measured after 5 Mins
09	Safety Current	0.40 A		The current is for Safety Regulation.
10	Max Airflow	29.31	CFM	a. PQ Measurement Apparatus : (LW9266-SR)
		0.83	m³/min	b. Standard : AMCA
11	Max Static Pressure	0.86	Inch-H ₂ O	c. Rated Voltage
		21.75	mm-H ₂ O	d. Rated Current
12	Life Expectancy	70,000hrs at 40℃		a.L10 at Conf. Level 90% b. Rated Voltage
13	Noise Level	50.6dBA		a. Rated Voltage b. Non-Echo Chamber c. Standard: CNS 8753/ISO3744 d. Test Condition: ISO 7779 e. Distance: 1.0M
14	No. of Pole	4 Poles		
15	Rotating Direction	Clockwise (From Label side)		

Electrical Specification

ITEM		Specification. Condition
01	Locked Rotor Protection	<input type="checkbox"/> Safety Condition
		<input checked="" type="checkbox"/> Auto power off after locked at rated voltage for 1sec After auto power off ,circuit attempt restart in 2 to 6sec
02	Polarity Protection	<input checked="" type="checkbox"/> Open circuit when Vcc & GND are exchanged
		<input type="checkbox"/> Circuit won't be burned within 5 seconds when Vcc & GND are exchanged
03	Insulation Resistance	10MΩ Between unshielded wire and frame at 500VDC/min
04	Dielectric Strength	5mA Max/ Measured b/w lead wire(+)and frame at 500VAC/min

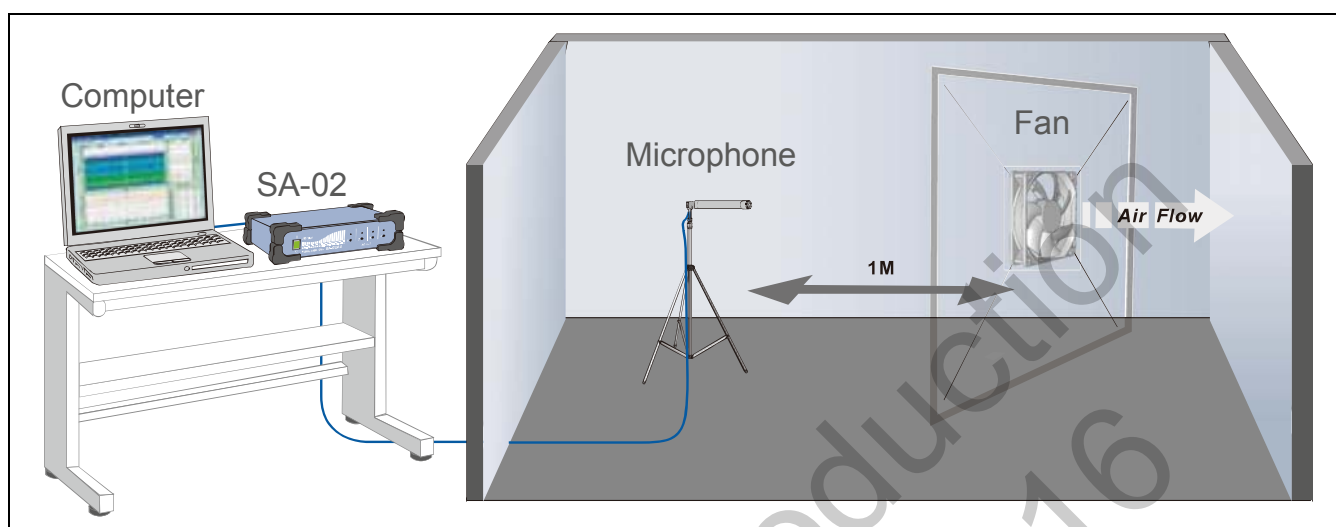
Main Materials, Parts Specification

01	Bearing	<input checked="" type="checkbox"/> Dual 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	Lead Wire	<input checked="" type="checkbox"/> Red(+)	<input checked="" type="checkbox"/> Black(-)	<input type="checkbox"/> Blue (PWM)	UL 1007 24#
		<input type="checkbox"/> Yellow(FG)	<input type="checkbox"/> White(RD)	2 wires 300±10mm	
06	Connector	No			
07	Tube	No			
08	IP Level	No			

Environmental Specification

ITEM		Specification. Condition
01	Operating Temp. Range	Temperature : -10 °C ~ +70°C
		Humidity : 15%~ 90% RH (Frost Eliminated)
02	Storage Temp. Range	Temperature : -40 °C ~ +70°C
		Humidity :15%~ 90% RH (Frost Eliminated)

Noise Measure Condition



Measurement Systems

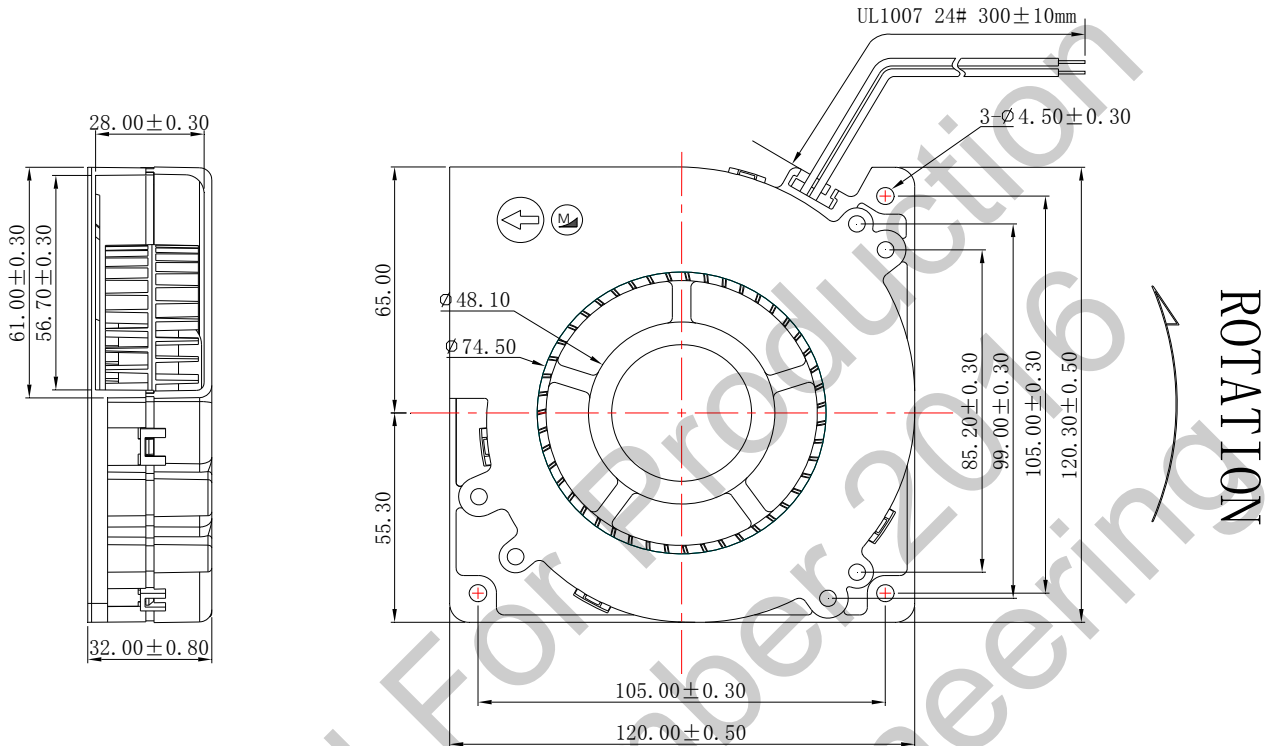
1. ANECHOIC Room Noise Measurement System
2. Rion SA-02 4-Channel Signal Analyzer, U-57 Microphone
3. Specifications: ISO 3744, ISO 3745, ISO 7779, CNS6753, JIS 8346
4. Background Noise: $< 18\text{dB(A)}$

Label Marking

	Model No.	DB12032B24LA
	Rated Voltage	24 VDC
	Safety Current	0.40A
	Label Size	$\Phi 54\text{mm}$
	Label Color	Black
	Safety Approvals	UL, CE, TUV
	Appendix Code	No

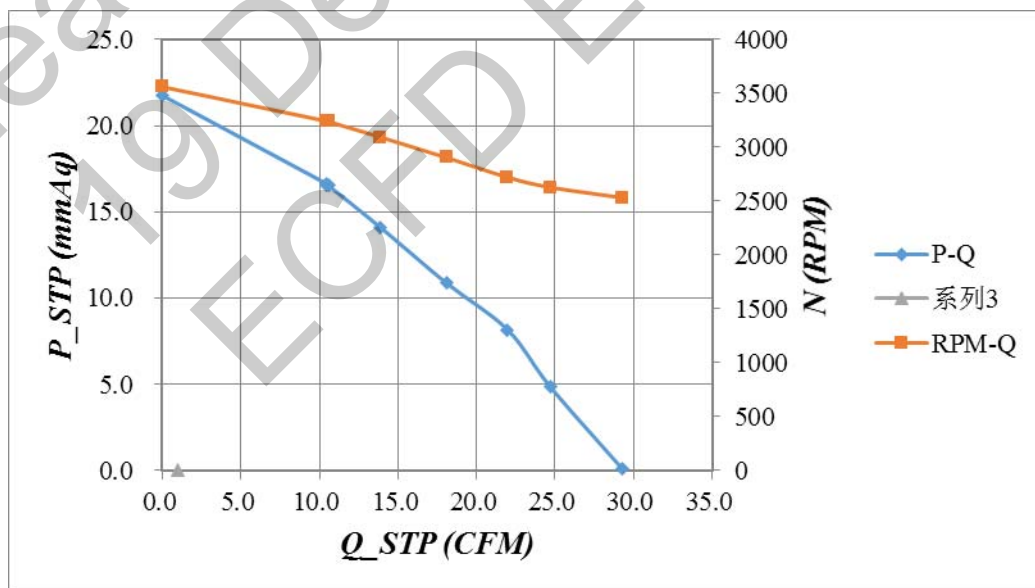
Outline Drawing

AIR FLOW



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 (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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