SPECIFICATION FOR APPROVAL											
CUSTOMER :											
CUSTOMER PART NO. :											
CUSTOMER APPROVEDAPPROVED BY 研發處 2024.03.28 簡文榮CHECKED BY 研發處 2024.03.28 李群雪PREPARED BY 研發處 2024.03.28 石富元CHECKED BY 研發處 2024.03.28 東尔雪PREPARED BY 研發處 2024.03.28 瓦富元											
MODEL NO. : AB1224XB-Y0B P.S. (4967)											
DESCRIPTION: 《 股份有限											
SPEC NO.: SA-0120211220006 發研發處型											
ISSUE DATE : 2024.03.28 2024.03.28											
REVISION: A02 發行章											
THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY											
KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.											
ADDA CORPORATION											

Revised Record											
Rev.	Revision Description	Change page	Date								
A00	Preliminary		2021.12.22								
A01	修正線材→UL1061#26	4/6	2022.03.23								
A02	Update	all	2024.03.28								
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	* 研發處 "										
	2024.03.28										
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<u>DATA-SHEET</u>

Engineering

BRUSHLESS AXIAL COOLING FANS

Customer	:							Ref: (RoHS)			
Adda Model No		AB1224XB-	Y0B		P.S:	(4967)					
Samples attached : Piece(s),											
Safety Approval	:	CE,UKCA					0-6-1:2007 -3:2007+A1				
					UK	CA:BS E	N 61000-6-1:20	07			
					BS	EN 6100	0-6-3:2007+A1				
Specifications											
ITEM SPECIFICATION / CONDITION											
BEARING TYPE		TWO BALL									
RATED VOLTAGE		24	VDC								
OPERATING VOLTAGE RANGE		22.8	VDC	—	25.2	VDC					
OPERATING DUTY CYCLE RANGE		30% ~ 100%	6								
START-UP DUTY CYCLE	:	30% Max	(AT RA	TED VO	LTAGE)						
RATED CURRENT	:	0.71	Amp	+	10	%MAX	(Duty cycle 10	0%)			
(Approximately REAL CURRENT 0.52 Amp)											
RATED POWER	:	17.04	Watt	+	10	%MAX	(Duty cycle 10	0%)			
		(Approximat	ely REA	_ POWE	ER 12.48	Watt)					
RATED SPEED	:	3100	RPM	±	10	%	(Duty cycle 10	0%)			
	:	Rotatable					(Duty cycle 0%	6)			
	(IN FREE AIR AT RATED VOLTAGE)										
AIR FLOW	:	35.516	CFM	(min.:	31.964	CFM)					
AIR FLOW	:	1.005	CMM	(min.:	0.904	CMM)					
		(N FREE	AIR A		D VOLT	AGE)				
STATIC AIR PRESSURE	:	1.533	Inch H ₂	C	(min.:	1.241	Inch H ₂ O)				
STATIC AIR PRESSURE	:	38.938	mm H_2C)	(min.:	31.539	mm H ₂ O)				
	(IN FREE AIR AT RATED VOLTAGE)										
NOISE LEVEL	:	59.6	dB (A)	(max.:	63.6	dB(A))					
MOTOR PROTECTION	:	BY	IC								
POLARITY PROTECTION	:	YES									
LIFE EXPECTANCY	:	70000	Hours	at	40 ℃	/ 65%	RH				
NET WEIGHT	:	251	Gram.	(REF.)							
PACKING		40		. ,	rt Carton						
			•	•		-	77 ()				
" 为 股份 有 人											
the fan should be run at rated speed RPM. * The fan should be run, at Max of start -up duty cycle.											
			the tem	norature	nie 25℃	- A	^診 研發	处 의			
Unless otherwise stated, the relative humidity is 65%, and the temperature is 25° for the standard testing.											
Should you have any doubt, please refer to the environmental conditions specified in the $\frac{1}{\sqrt{2}}$											
acknowledgement document.											
Real Current and Real Power are for refer	ien	ce.									
ADDA CORPORATION	Ν	lodel No.:	AB1224	XB-Y0E	3	P.S:	(4967)	Page 1/6			

SPECIFICATION

1 · 0 SCOPE

- 1.1 If the information or other related document is inconsistent with this acknowledgement document, please refer to the acknowledge document.
- 1.2 This documentation defines the mechanical & electrical characteristics of DC brushless fans.
- 1.3 The specification of this product is described in details in the acknowledgement document. No guarantee is given to our product under the use of over specifications.
- 1.4 For any change or amendment to the specifications, such change will be noticed in writing beforehand.
- 1.5 If the product is used on the MIS system, please specify the specification in the purchase order.

2 · 0 MATERIAL

- 2 · 1 Frame : UL94V-0 Glass Filled polyester (P.B.T)
- 2 · 2 Fan Blade : UL94V-0 Glass Filled polyester (P.B.T)
- 2 · 3 RoHS : (V) YES
 - HF : () YES

3 · 0 DIMENSIONS & CONSTRUCTION

All dimensions, Direction of rotation and air flow were specified as per drawing attached.

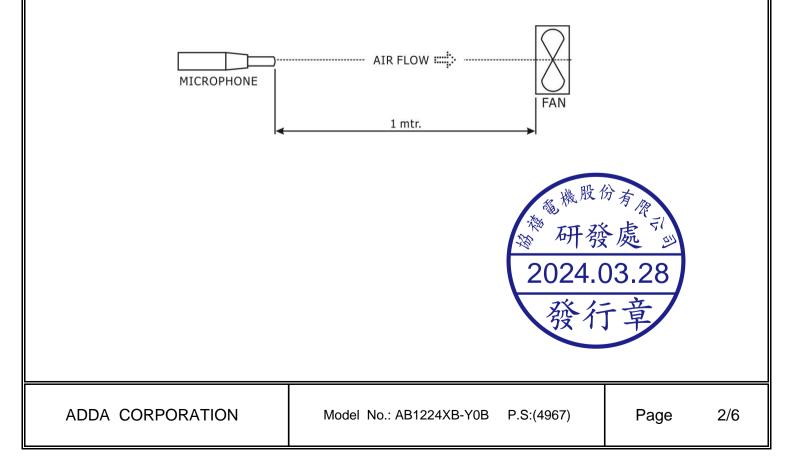
4 · 0 CHARACTERISTICS & DEFINITION

4 · 1 Rated Current/Rated Speed/Rated Power :

All shall be measured after 3 minutes of continuous rotation at rated voltage in free air.

- $4\cdot 2$ Start Voltage : The voltage which is able to start the fan to operate by suddenly switching 'ON'.
- 4 · 3 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in free air.
- 4 · 4 Air Flow & Static Pressure : The air flow data and static pressures should be determined in accordance with AMCA-210 standard in a doublechamber testing with intake-side measurement.
- 4 · 5 Noise Level : The measurement of noise level is carried out with reference ISO7779 in a semi-anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air .

NOISE LEVEL MEASUREMENT



SPECIFICATION

5.0 MECHANICAL INSPECTION

5.1 Rotation Direction

Counterclockwise when look into 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 thick.

- 5.6 Please do not stick a grease and/or an oil to the fan housing or blade which may have a harmful influence by a chemical reaction at high humidity.
- 5.7 If the fan is reinstalled, please pay special attention to the noise due to the vibration (or resonance).
- 5.8 During the testing of the fan, please make sure the finger guard is used for safety.

6.0 ELECTRICAL INSPECTION

6.1 Insulation Resistance

Not less than 10M ohm between housing and positive end of lead wire (red) at 500V DC.

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

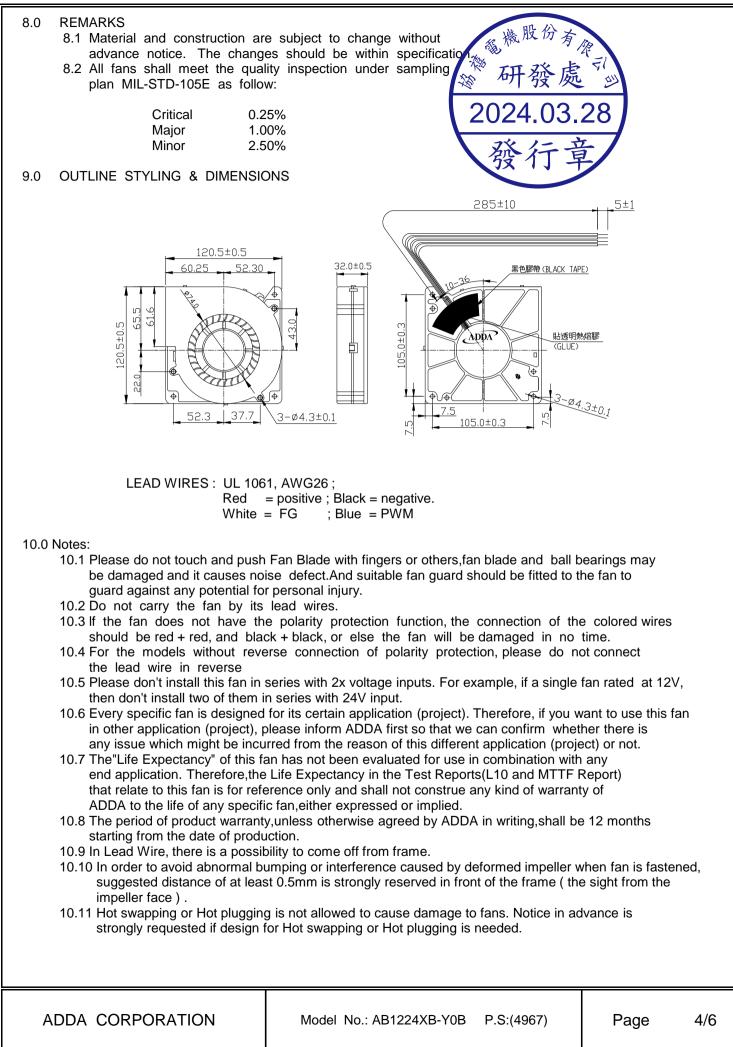
The continous duty life at given temperature after which, 90% of testing units shall still be running.

- 6.4 While the fan is running, do not intentionally lock the fan for a long time since the overheating of the motor produced by the long-time locking will damage the fan.
- 7.0 ENVIRONMENTAL
 - 7.1 Improper use such as disassembling the fan, being covered with dust, or dipping the fan in water that results in defects is not covered in the warranty. Do not use the fan in the environment with corrosive air or liquid. ADDA does not warrant damage to the product caused by outside elements (as dust, condensation, humidity or insects).
 - 7.2 Operating Temperature:-10 $^\circ\!\mathrm{C}$ to +70 $^\circ\!\mathrm{C}$.
 - 7.3 Operating Humidity:65%+/-20% RH.
 - 7.4 Storage Temperature:-40°C to +70 °C.
 - 7.5 Storage Humidity:65%+/-20% RH.
 - 7.6 Do not place or store the fan in the environment with high/low temperature/humidity. If the fan is stored for more than 6 months, functional test is highly recommended before using.



ADDA CORPORATION

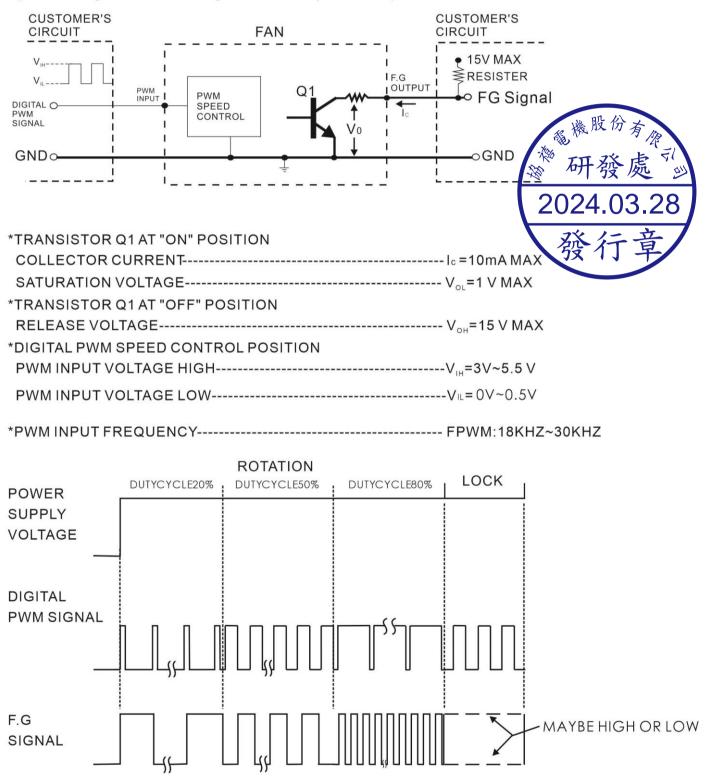
SPECIFICATION



ADDA

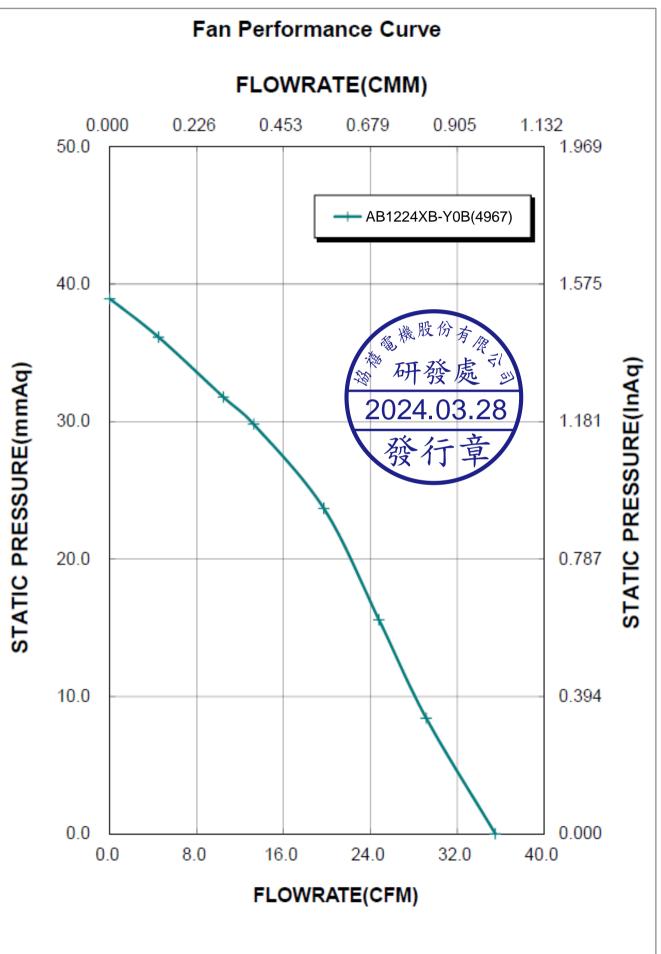
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PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(F.G) OUTPUT OF LOCKED SIGNAL ------OPEN COLLECTOR TYPE



(External signal function design is decided by customer)





外框運用說明 (Frame Type Recommended)

*標準框建議使用自攻螺絲,RIB框建議使用機械螺絲。

• We recommend to use self-tapping screw for the standard frame and machine screw for the RIB frame.

