

SPECIFICATION FOR APPROVAL

CUSTOMER : _____

CUSTOMER PART NO. : _____

CUSTOMER APPROVED	APPROVED BY 	CHECKED BY  	PREPARED BY 
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MODEL NO. : AD04024MB107100 P.S. _____

DESCRIPTION : _____

SPEC NO. : SA-0120251128002

ISSUE DATE : 2026.03.19

REVISION : A01

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

協電機股份有限公司
研發處
2026.03.19
發行章

DATA - SHEET

Engineering

BRUSHLESS AXIAL COOLING FANS

Customer	:		Ref: (RoHS)
Adda Model No	:	AD04024MB107100	
Samples attached	:	Piece(s),	
Safety Approval	:	UL,CUL,CE,UKCA	UL:UL 507 CE: EN 61000-6-1: 2019 EN 61000-6-3: 2021 UKCA: BS EN 61000-6-1: 2019 BS EN 61000-6-3: 2021
<u>Specifications</u>			
<u>ITEM</u>	<u>SPECIFICATION / CONDITION</u>		
BEARING TYPE	:	TWO BALL	
RATED VOLTAGE	:	24.0 VDC	
OPERATING VOLTAGE RANGE	:	21.8 VDC — 26.4 VDC	
START – UP VOLTAGE	:	17.0 VDC , NORMAL	
RATED CURRENT	:	0.05 Amp + 10 %MAX (Approximately REAL CURRENT 0.03 Amp)	
RATED POWER	:	1.20 Watt + 10 %MAX (Approximately REAL POWER 0.72 Watt)	
RATED SPEED	:	6000 RPM ± 15 % (IN FREE AIR AT RATED VOLTAGE)	
AIR FLOW	:	6.893 CFM (min.: 5.859 CFM)	
AIR FLOW	:	0.195 CMM (min.: 0.165 CMM) (IN FREE AIR AT RATED VOLTAGE)	
STATIC AIR PRESSURE	:	0.126 Inch H ₂ O (min.: 0.091 Inch H ₂ O)	
STATIC AIR PRESSURE	:	3.200 mm H ₂ O (min.: 2.312 mm H ₂ O) (IN FREE AIR AT RATED VOLTAGE)	
NOISE LEVEL	:	25.5 dB (A) (max.: 29.5 dB(A))	
MOTOR PROTECTION	:	BY IC	
POLARITY PROTECTION	:	YES	
LIFE EXPECTANCY	:	70000 Hours at 40°C / 65% RH	
NET WEIGHT	:	17 Gram. (REF.)	
PACKING	:	700 pcs. Per Export Carton.	
Unless otherwise stated, the relative humidity is 65%, and the temperature is 25°C for the standard testing. Should you have any doubt, please refer to the environmental conditions specified in the acknowledgement document. Real Current and Real Power are for reference.			
ADDA CORPORATION		Model No.: AD04024MB107100	Page 1/5



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.

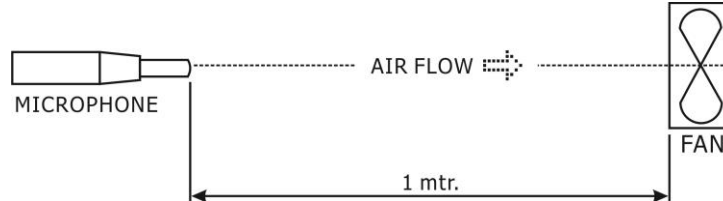
4 · 2 Start Voltage : The voltage which is able to start the fan to operate by suddenly switching ' ON ' .

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 to 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 continuous 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°C to +70°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.



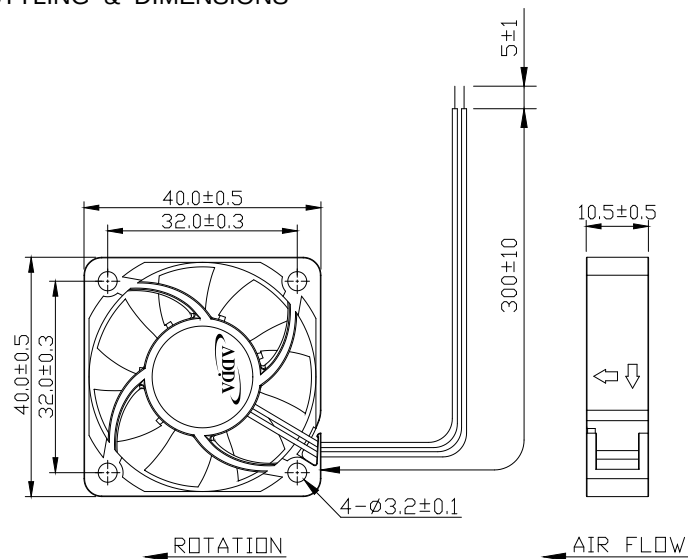
SPECIFICATION

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-105E as follow:

Critical	0.25%
Major	1.00%
Minor	2.50%

9.0 OUTLINE STYLING & DIMENSIONS

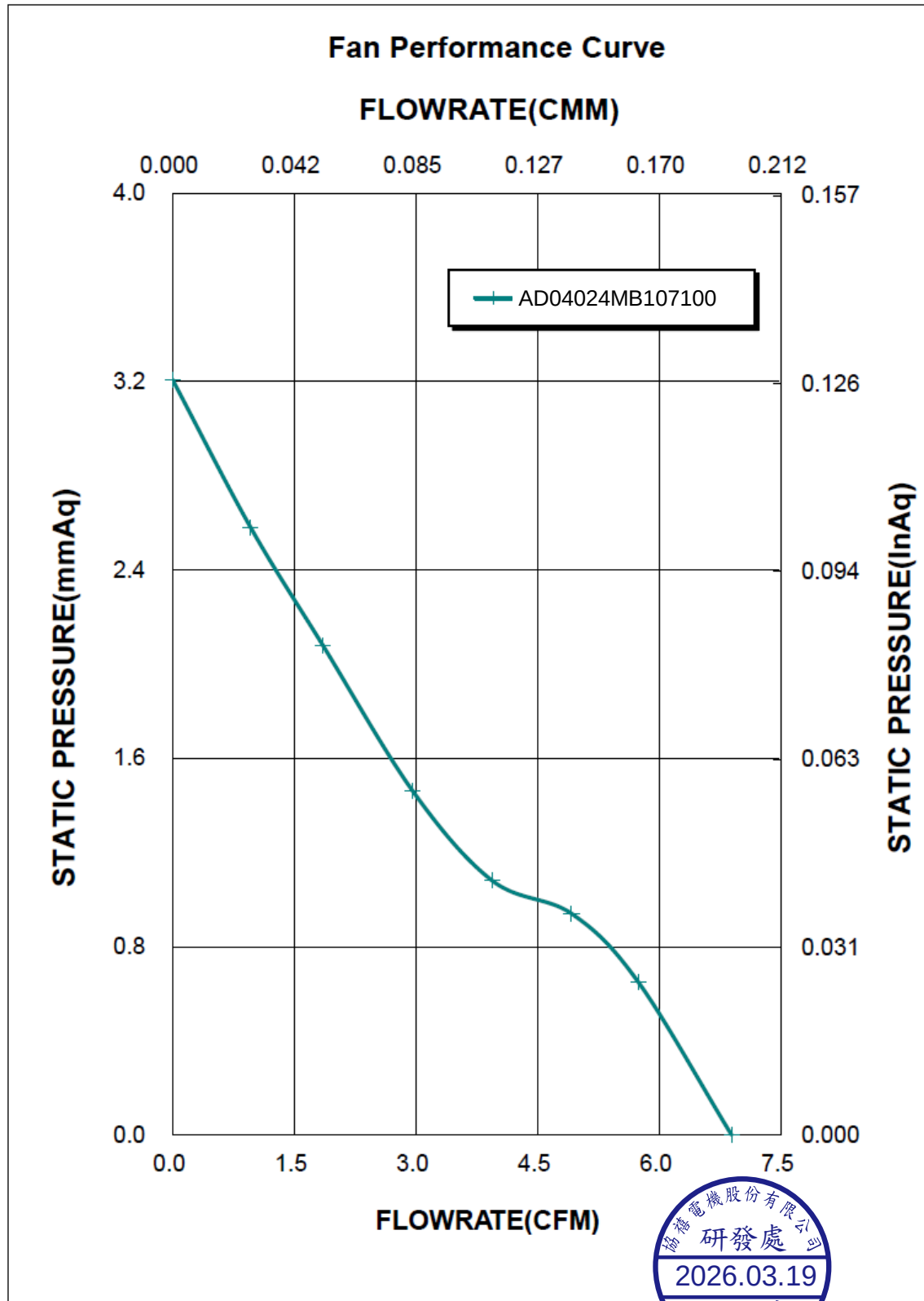


LEAD WIRES : UL 1061, AWG26

Red = positive ; Black = negative.

10.0 Notes:

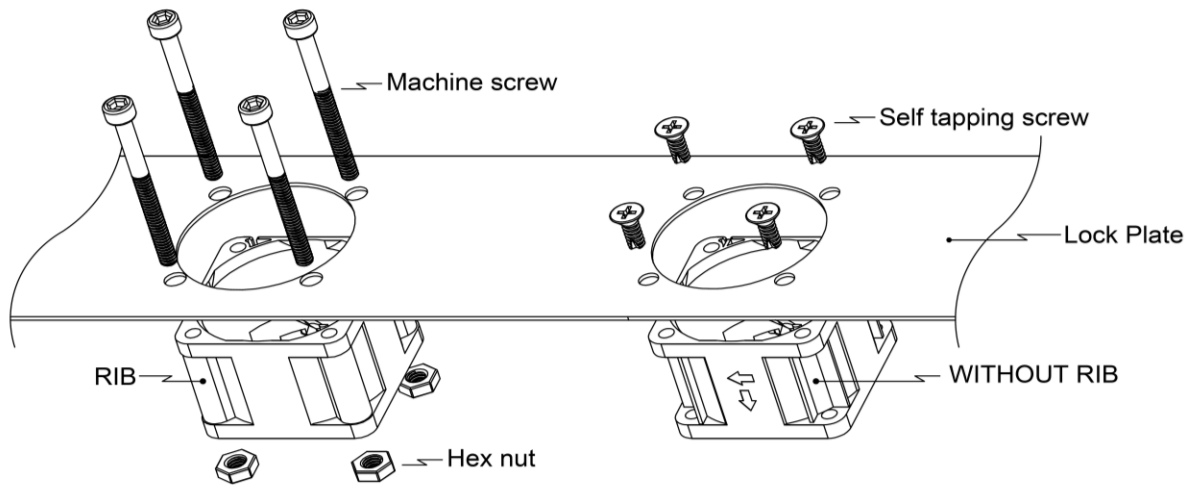
- 10.1 Please do not touch and push Fan Blade with fingers or others, fan blade and ball bearings may be damaged and it causes noise defect. And suitable fan guard should be fitted to the fan to guard against any potential for personal injury.
- 10.2 Do not carry the fan by its lead wires.
- 10.3 If the fan does not have the polarity protection function, the connection of the colored wires should be red + red, and black + black, or else the fan will be damaged in no time.
- 10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse
- 10.5 Please don't install this fan in series with 2x voltage inputs. For example, if a single fan rated at 12V, then don't install two of them in series with 24V input.
- 10.6 Every specific fan is designed for its certain application (project). Therefore, if you want to use this fan in other application (project), please inform ADDA first so that we can confirm whether there is any issue which might be incurred from the reason of this different application (project) or not.
- 10.7 The "Life Expectancy" of this fan has not been evaluated for use in combination with any end application. Therefore, the Life Expectancy in the Test Reports (L10 and MTTF Report) that relate to this fan is for reference only and shall not construe any kind of warranty of ADDA to the life of any specific fan, either expressed or implied.
- 10.8 The period of product warranty, unless otherwise agreed by ADDA in writing, shall be 12 months starting from the date of production.
- 10.9 In Lead Wire, there is a possibility to come off from frame.
- 10.10 In order to avoid abnormal bumping or interference caused by deformed impeller when fan is fastened, suggested distance of at least 0.5mm is strongly reserved in front of the frame (the sight from the impeller face).
- 10.11 Hot swapping or Hot plugging is not allowed to cause damage to fans. Notice in advance is strongly requested if design for Hot swapping or Hot plugging is needed.



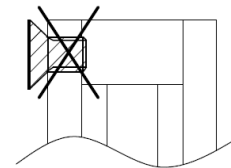
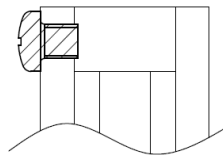
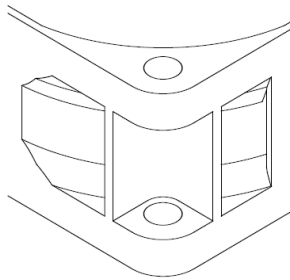
外框運用說明 (Frame Type Coordinated with Screw Type Recommended)

*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.

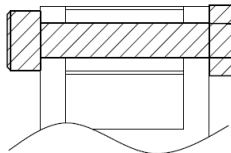
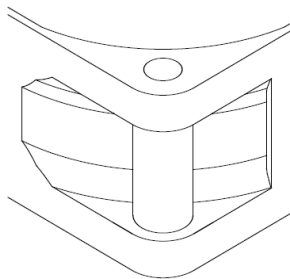


Flange Type



NOTE: Do not use countersunk head screws to avoid the risk of breakage.

Rib Type



Screw Type	Screw SPEC.			Recommended Hole Diameter	Frame MAX. Torque (Kgf-cm)	
	Size	Standard	Screw Diameter (Max./Min.)		Flange Type	Rib Type
Self-tapping Screws	M4	JIS B1122 (Class 2)	Ø4 / Ø3.85	ø3.2~3.5	5	8
	M5		Ø5 / Ø4.85	ø4.2~4.5	8	11

NOTE: The above-mentioned is ADDA's recommendation to use self-tapping screws, frames and locking torques. If you have any requirement, please contact ADDA.

Certificate of Compliance

Certificate Number:

UL-US-2593215-2

Report Reference:

E132139-20251125

Issue Date:

2025-11-27

Issued to:

ADDA CORP
NO 6 E SECTION INDUSTRY 6 RD PING TUNG 900
Taiwan

This certificate confirms that representative samples of:

GPWV2 - Fans, Electric - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 507, Edition 10, Issue Date 2017-11-09, Revision Date 2024-08-22

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



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A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2593215-2
Report reference E132139-20251125
Date 2025-11-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Electric Fans - Component

Model(s): AD04005(A)(B)107(C)00, AD04012(A)(B)107(C)00, AD04024(A)(B)107(C)00, AD05005(A)(B)107(C)02, AD05012(A)(B)107(C)02, AD05024(A)(B)107(C)02 where (A) may be E, V, X, U, H, M, L, and D, (B) may be X, and B, (C) may be 1, 2, 3, 9, B, and F



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Certificate of Compliance

Certificate Number:
UL-CA-2568298-0

Report Reference:
E132139-20251125

Issue Date:
2025-11-27

Issued to:

ADDA CORP
NO 6 E SECTION INDUSTRY 6 RD PING TUNG 900
Taiwan

This certificate confirms that representative samples of:

GPWV8 - Fans, Electric Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 NO. 113-18 - 11 th Ed. - Issue Date: 2018-10-01

Additional Information:

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A handwritten signature in blue ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2568298-0
Report reference E132139-20251125
Date 2025-11-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Electric Fans - Component

Model(s): AD04005(A)(B)107(C)00, AD04012(A)(B)107(C)00, AD04024(A)(B)107(C)00, AD05005(A)(B)107(C)02, AD05012(A)(B)107(C)02, AD05024(A)(B)107(C)02 *where (A) may be E, V, X, U, H, M, L, and D, (B) may be X, and (C) may be 1, 2, 3, 9, B, and F*



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