SPECIFICATION FOR APPROVAL
то :
REF. No
CUSTOMER APPROVEDAPPROVED DATECHECKED DATEPREPARED DATE研發處 2017.11.20研發處 2017.11.20研發處 2017.11.20研發處 2017.11.20顧文榮原佩如
MODEL No.      AD0912UX-A7BGLP.S         DESCRIPTION:       DC FAN (RoHS)       REV         ID No.
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. の研發處で 2017.11.20 發行章
ADDA ADDA CORPORATION

## <u>DATA-SHEET</u>

Engineering

```
Printed On: 17/11/20
```

### BRUSHLESS AXIAL COOLING FANS

Customer				Ref: (RoHS)
Adda Model No	AD0912UX-A7B	GL		
Samples attached	Pie	ce(s),		
Safety Approval	UL,CUL,TUV,CE		:EN 60950-1:2006+A11 JL507	+A1+A12+A2
		CE:E	EN 61000-6-1:2007	
		ENG	61000-6-3:2007+A1	
Specifications				
	ECIFICATION /			
	92x92x25 m	m		
BEARING TYPE	HYPRO			
RATED VOLTAGE	12 VD0			
OPERATING VOLTAGE RANGE	11.4 VD0	C – 12.6	6 VDC	
OPERATING DUTY CYCLE RANGE	30% ~ 100%		N N	
START-UP DUTY CYCLE		RATED VOLTAGE	)	
	0.40 Amp			
	4.80 Wat			
	0.50 Amp		%MAX (Duty cyc	
	6.00 Wat		(Duty cyc	,
RATED SPEED	3800 RPN		% (Duty cyc	le 100%)
		REE AIR AT RATI	,	
AIR FLOW	73.000 CFN	Ϋ́Υ.	,	
AIR FLOW	2.065 CMI	,	,	
		REE AIR AT RATE	,	
STATIC AIR PRESSURE		H <sub>2</sub> O (min.:		,
STATIC AIR PRESSURE	6.350 mm	H <sub>2</sub> O (min.:	5.143 mm H <sub>2</sub> O)	
	(IN FI	REE AIR AT RATE	,	
NOISE LEVEL	46.0 dB (	A) (max.: 50.0	) dB(A))	
MOTOR PROTECTION	BY IC			
POLARITY PROTECTION	YES			
CONNECTION LEAD TYPE	WIRE, AWG#	26		
LIFE EXPECTANCY	40000 Hou	rs at 40℃	/ 65% RH	
NET WEIGHT	98 Gra	m.		
PACKING	180 pcs.	Per Export Carto	n.	
* If no PWM signal is present (no conne	on to the PWM di	ive signal),		
the fan should be run at rated speed	M.		10	機股份有效
$*$ The fan should be run,at Max of start $\cdot$	duty cycle.		1. A.	TT JY to TI
Unless otherwise stated, the relative hu	ty is 65%, and th	e temperature is 25	°C 🖄 K	卅贺灰 🔊
for the standard testing.			20	17.11.20
Should you have any doubt, please refe	the environment	al conditions specifi	ied in the	《行音
acknowledgement document.			55	(1)早
ADDA CORPORATION	odel No.: ADO	912UX-A7BGL		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

- $4\cdot 1$  All rated characteristics were specified as per data sheet enclosed.
- 4 · 2 Rated Current : Rated Current shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 3 Rated Speed : Rated Speed shall be measured after 3 minutes. of continuous rotation at rated voltage.
- $4\cdot 4$  Start Voltage : The voltage which is able to start the fan to operate by suddenly switching ' ON ' .
- 4 · 5 Input Power : Input Power shall be measured after 3 minutes of continuous rotation at rated voltage.
- 4 · 6 Locked Rotor Current : Locked current shall be measured within one minute of rotor locked, after 3 minutes of continuous rotation at rated voltage in clean air.
- 4 · 7 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 · 8 Noise Level : The measurement of noise level is carried out with reference to CNS8753 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air.

NOISE LEVEL MEASUREMENT

<----> 1 mtr. ---->

Mic.

Fan



ADDA CORPORATION

Model No.: AD0912UX-A7BGL

Direction of air flow

Page 2/6

#### 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.
- 7.2 Operating Temperature / Humidity
  - -10°C to +70°C at humidity 65%+/-20% RH.
- 7.3 Storage Temperature

All function shall be normal after 500 hours storage at  $-40^{\circ}$ C to  $+70^{\circ}$ C with a 24 hour recovery period at room temperature.

7.4 Humidity

After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specificaiton.

7.5 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

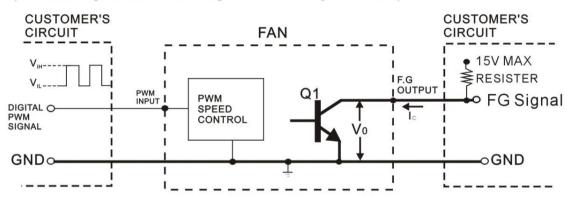
## SPECIFICATION

Citical 0.25% Major 1.00% More 2.50%         9.0 OUTLINE STYLING & DIMENSIONS         Image: Citical Citic		nges should be within specification. Jality inspection under sampling	
<ul> <li>In the transformed to the polarity protection, please not provide the part of the protection (project) or motion.</li> <li>Present on the projection (project) or motion.</li> <li>Present of the protection (project) or motion.</li> <li>Present of the protection.</li> <li>Present of the protection.</li> <li>Present of the protection.</li> <li>Present of the protection of protection.</li> <li>Present of the protection of protection (project) or motion.</li> <li>Present of the protection (project) or motion.</li> <li>Present of the protection (project) or motion.</li> <li>Present of the protection of protection.</li> <li>Present of the protection of protection.</li> <li>Present of the protection (project) or motion.</li> <li>Present of the protection (project).</li> <li>Present of production.</li> <li>Present of protection (project</li></ul>	Major 1	.00%	
<ul> <li>In the random set of production. Therefore, if you want to use this fan in series with 2x voltage inputs. For example, if a single for rated at 12V, then don't install two of them in series with 2x voltage inputs. Therefore, if you want to use this fan in series with 2x voltage inputs. Therefore, if you want to use this fan in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rated at 12V, then don't install two of them in series with 2x voltage inputs. For example, if a single for a rate at 12V, then don't rate example in a single form there is any issue withing the incurred from the reason of this different application (project) or not.</li> <li>In he due the formation (project) or not.</li> <li>In head Wire, there is a possibility to come of from fram.</li> <li>In head Wire, there is a possibility to come of from fram.</li> <li>In head Wire, there is a possibility to come of from fram.<td>9.0 OUTLINE STYLING &amp; DIMENS</td><td>SIONS</td><td></td></li></ul>	9.0 OUTLINE STYLING & DIMENS	SIONS	
<ul> <li>10.1 Notes:</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>10.3 If the fan does not have the polarity protection function, the connection of the concord wires should be red + red, and black + black, or else the fan will be damaged in no time.</li> <li>10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse.</li> <li>10.5 Please don't install this fan is 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.</li> <li>10.6 Every specific fan is designed tor lis certain application (project). Therefore, if you want to use this fan is designed tor lis 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. Therefore, the Life Expectancy in the Test Reports(10 and MITTF 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 alther expresses dor implication. Therefore, the Life Expectancy in the Test Reports(110 and MITTF 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 alther expresses dor implication.</li> <li>10.7 The "Life Expectancy of this fan has not been evaluated for use in combination with any red application. Therefore, the Life Expectancy in the Test Reports(110 and MITTF Report) that relate to this fan is</li></ul>			
<ul> <li>LEAD WIRES: UL 1061, AWG26, L = 290±10 mm Red = positive; Black = negative. White = FG ; Blue = PWM</li> <li>10.0 Notes: <ol> <li>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.</li> <li>10.2 Do not carry the fan by its lead wires.</li> <li>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.</li> <li>10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse.</li> <li>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.</li> <li>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.</li> <li>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 of reference only and shall not construe any kind of warranty of ADDA to the life of any specific fan, either expressed or implied.</li> <li>10.8 The period of product warranty.unless otherwise agreed by ADDA in written, shall be 12 months staring from the date of production.</li> <li>10.9 In Lead Wire, there is a possibility to come off from frame.</li> <li>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 ).</li> </ol></li></ul>	SOUTS 28 SOUTS 28 SOU		藏殿份有價
<ul> <li>Red = positive : Black = negative. White = FG ; Blue = PWM</li> <li>10.0 Notes:</li> <li>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.</li> <li>10.2 Do not carry the fan by its lead wires.</li> <li>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.</li> <li>10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse</li> <li>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.</li> <li>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. Therefore, the Life Expectancy in the Test Reports(110 and MITTF Report) that relate to this fan is fan is on the expressed or implied.</li> <li>10.8 The period of product warranty.unless otherwise agreed by ADDA in written, shall be 12 months staring from the date of production.</li> <li>10.9 In Lead Wire, there is a possibility to come off from frame.</li> <li>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 ).</li> </ul>			☞ 研發處 ы
<ul> <li>10.0 Notes:</li> <li>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.</li> <li>10.2 Do not carry the fan by its lead wires.</li> <li>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.</li> <li>10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>10.8 The period of product warranty, unless otherwise agreed by ADDA in written, shall be 12 months staring from the date of production.</li> <li>10.9 In Lead Wire, there is a possibility to come off from frame.</li> <li>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).</li> </ul>	Red	= positive; Black = negative.	2017.11.20
<ul> <li>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.</li> <li>10.2 Do not carry the fan by its lead wires.</li> <li>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.</li> <li>10.4 For the models without reverse connection of polarity protection, please do not connect the lead wire in reverse</li> <li>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.</li> <li>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. 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.</li> <li>10.8 The period of product warranty, unless otherwise agreed by ADDA in written, shall be 12 months staring from the date of production.</li> <li>10.9 In Lead Wire, there is a possibility to come off from frame.</li> <li>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 ).</li> </ul>			發行章/
ADDA CORPORATION Model No.: AD0912UX-A7BGL Page 4/6	<ul> <li>10.1 Please do not touch and fan blade and ball bearing</li> <li>10.2 Do not carry the fan by it</li> <li>10.3 If the fan does not have colored wires should be readamaged in no time.</li> <li>10.4 For the models without reconnect the lead wire in r</li> <li>10.5 Please don't install this fan in fan rated at 12V, then don't</li> <li>10.6 Every specific fan is designed use this fan in other application (project) or not.</li> <li>10.7 The"Life Expectancy" of this end application. Therefore, that relate to this fan is for r ADDA to the life of any specific fan staring from the date of product warrants staring from the date of product warrants fastened ,suggested distance</li> </ul>	gs may be damaged and it causes noise defects the polarity protection function, the connection of ed + red, and black + black, or else the fan will be everse connection of polarity protection, please d reverse n series with 2x voltage inputs. For example, if a sir install two of them in series with 24V input. ed for its certain application (project). Therefore, if y tion (project), please inform ADDA first so that we can which might be incurred from the reason of this diffe fan has not been evaluated for use in combination y the Life Expectancy in the Test Reports(L10 and MT reference only and shall not construe any kind of wa cific fan, either expressed or implied. nty, unless otherwise agreed by ADDA in written, sha duction. sibility to come off from frame. bumping or interference caused by deformed impell ce of at least 0.5mm is strongly reserved in front of	f the be lo not ngle ou want to an confirm rent with any ITF Report) arranty of all be 12 months ler when fan is
	ADDA CORPORATION	Model No.: AD0912UX-A7BGL	Page 4/6



....

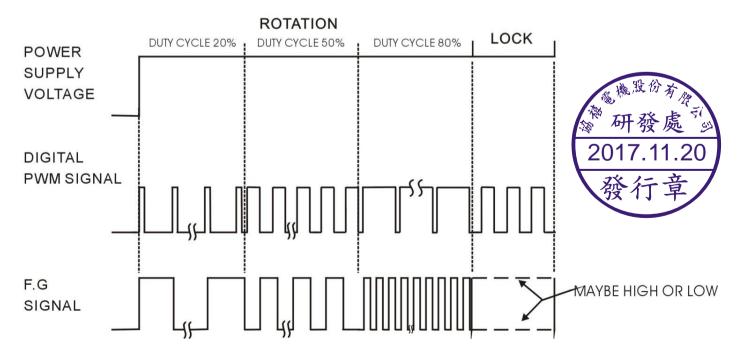
#### PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(F.G) • OUTPUT OF LOCKED SIGNAL ------OPEN COLLECTOR TYPE

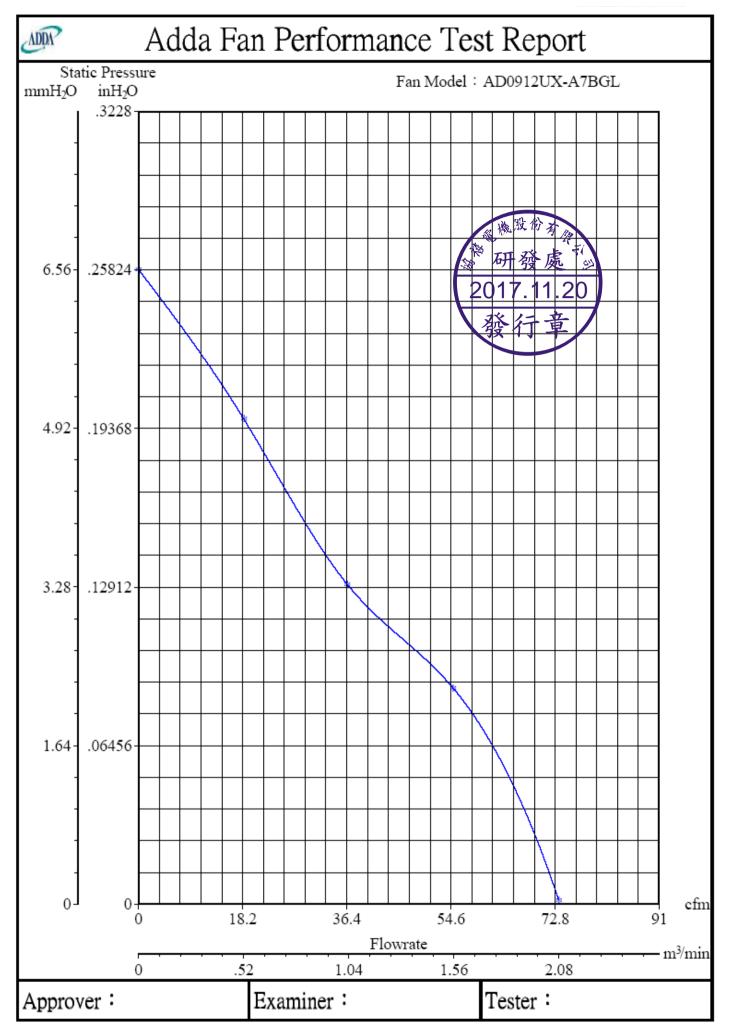


(External signal function design is decided by customer)

*TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENTIc =10mA MAX
SATURATION VOLTAGEV <sub>ol</sub> =1 V MAX
*TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGEV <sub>OH</sub> =15 V MAX
*DIGITAL PWM SPEED CONTROL POSITION
PWM INPUT VOLTAGE HIGHV $_{H}$ =3V~5.5 V
PWM INPUT VOLTAGE LOWVIL = $0V \sim 0.5V$

\*PWM INPUT FREQUENCY-----FPWM:18KHZ~30KHZ





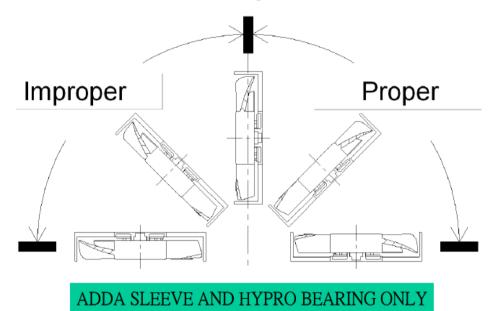
Page 6/6

# \* Sleeve 與 Hypro軸承裝置說明:



\*Sleeve 與 Hypro軸承有裝置上的受限,不正常區域的運用(Improper)可能有共震與噪音的現像產生.

• Please be cautions sleeve and hypro bearing fans mounting. Improper mounting of the fan may cause excess resonance • vibration and subsequent noise.





Zertifikat	Certificate			$\mathbf{A}$
<b>Zertifikat Nr. Certificate No.</b> R 50013944	Blatt Page 0017			ΤÜV
Ihr Zeichen Client Reference 12024798	Unser Zeichen Our ZTW2-SHH- 11		Ausstellungsdatum 19.04.2004	Date of Issue (day/mo/yr)
Genehmigungsinhaber License H Adda Corporation 6, East Section, Ind Pingtung City 900 Taiwan, R.O.C.		Adda Corpor	ction, Indust ity 900	
Prüfzeichen Test Mark	Geprüft nach Teste EN 60950:20			
(Type Designation) Z1 steht für : (stands for) Z2 steht für : (stands for)	ADZ112Z2X-A7Z3Z4 07, 08 oder (or) 0 H oder (or) U 9 oder (or) B	逐	發處 <sup>1</sup> 30 7.11.20 行章	1 1 1 1
(stands for) Z4 steht für : (stands for) Nennspannung : (Rated Voltage)	GL oder (or) GP siehe Anlage (see Appendix) siehe Anlage (see Appendix)	TÜV Rheinland	and GmbH	1
ANLAGE (Appendix): Dem Zertifikat liegt unsere Prüf- und Ze Das Produkt entspricht den o.g. Anförde This certificate is based on our Testing	rtifizierungsordnung zugrunde. erungen, die Herstellung wird üb and Certification Regulation, The	erwacht. product	Zertifizierungs	stelle
fulfills above-mentioned-requirements, the				
fulfills above-mentioned-requirements, the TÜV Rheinland Product Safety	GmbH, Am Grauen Ste	in, D-51105 Köln		

Zertifikat Certij	ficate			A
<b>Zertifikat Nr. Certificate No</b> . R 50013944	Blatt Page 0060			TÜVRheinland
l <b>hr Zeichen <i>Client Reference</i></b> 12086425/ST	Unser Zeichen Our ZTW1-YML- 1	2 S A 67 S S S S S S S S S S S S S S S S S S	usstellungsdatum 14.04.2016	Date of Issue (day/mo/yr)
Genehmigungsinhaber License Hold Adda Corporation 6, East Section, Indu Pingtung City 900 Taiwan, R.O.C.		ADDA Electr (Kunshan), No. 88, Jia Zhangpu Tow	Co., Ltd. ngfeng Road	y Technology
TÜVRheinland ZERTIFIZIERT	Geprüft nach Test EN 60950-1	ed acc. to : 2006+A11+A1+A	A12+A2	
	entifikation) dentification)			ventgelte - Einheit se Fee - Unit
<u>Ventilator</u> (DC Fan) wie Blatt (as page) 01			(A)	魏股份有份
Änderung (Change)			The second secon	开發處
Prüfgrundlage : sieł	e oben above)		20 <sup>-</sup> 發	17.11.20
ANLAGE (Appendix): 1				ALGA P.
Nem Zertifikat liegt unsere Prüf- und Zertifizien es Produktes mit den oben genannten Standara I Ländern, in denen das Produkt in Verkehr ge etrachtet werden. Die Herstellung des zertifizie his certificate is based on our Testing and Cert f the product with the standards and testing re- zquirements in countries where the product is gdditionally. The manufacturing of the certified	Is und Prüfgrundlagen Zusätz bracht werden soll, müssen zu rten Produktes wird überwach üfication Regulation and state, nürements as indicated above, oing to be marketed have to b	liche Anforderungen sätzlich it, s the conformity Any additional e considered	Zertifizierungs	TÜVRheinian
<b>'ÜV Rheinland LGA Products Gml</b> el.: (+49/221)8 06 - 13 71 e-mail: cert-validit ax: (+49/221)8 06 - 39 35 http://www.tuv.com	@de.tuv com	31 Nürnberg	DiplIng. (FH)	A. Klinker

Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

10/020 # 04/18 8 TUV, TuSV and TUV are registered trademarks. Utilization and application registra prior approval.

Dipl.-Ing. (FH) A. Klinker

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ADDA: AD0912UX-A7BGL-LF