SPECIFICATION FOR APPROVAL
MODEL NO. :AD0405LX-K90 P.S. (XT1)
DESCRIPTION :
SPEC NO. : SA-0120160516003
ISSUE DATE : 2019.08.20
REVISION : C
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.
成版分方 一部一致處 2019.08.20 發行章

<u>DATA-SHEET</u>

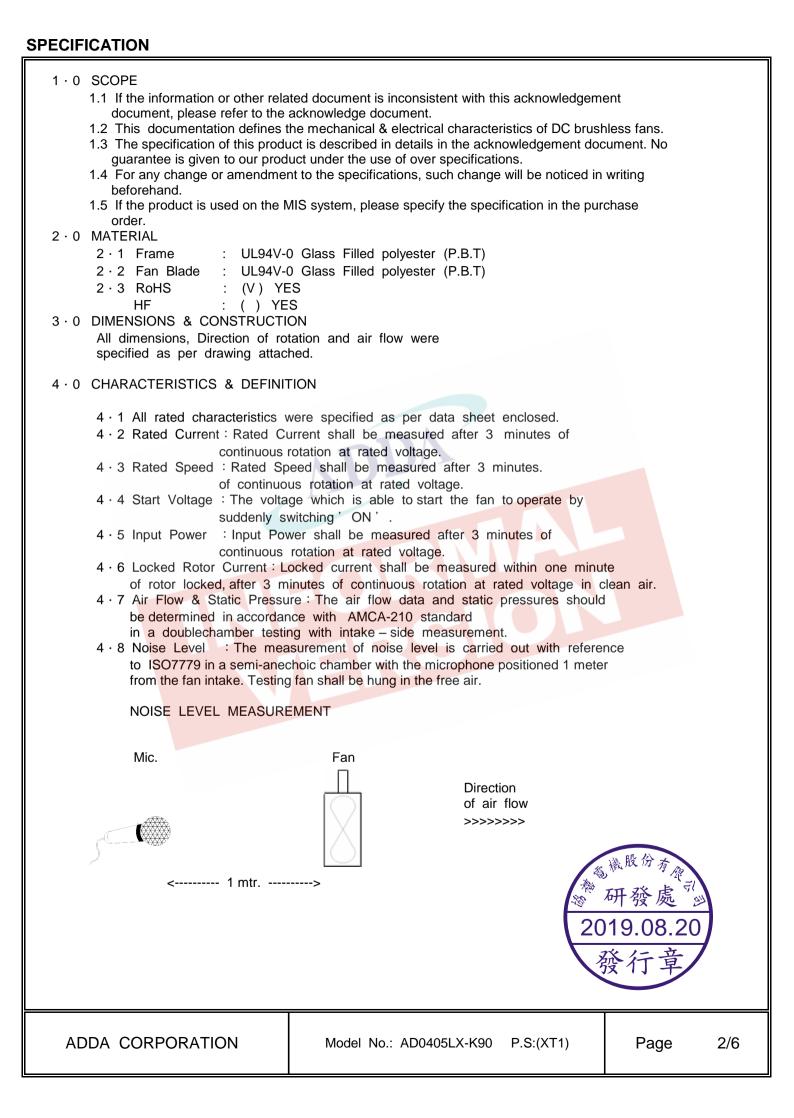
Engineering

Printed On:

19/08/20

BRUSHLESS AXIAL COOLING FANS

BRUSHEESS ANAL COOLING TANK			
Customer	· · · · · · · · · · · · · · · · · · ·	Ref: (RoHS)	
Adda Model No	: AD0405LX-K90 P.S: (XT1)		
Samples attached	: Piece(s),		
Safety Approval	: UL,CUL,TUV,CE TUV:EN 60950-1:2006+A	11+A1+A12+A2	
	UL:UL507 CE:EN 61000-6-1:2007 EN 61000-6-3:2007+A1		
Specifications			
ITEM SF	PECIFICATION / CONDITION		
DIMENSIONS	: 40x40x06 mm		
BEARING TYPE	: HYPRO		
RATED VOLTAGE	: 5.0 VDC		
OPERATING VOLTAGE RANGE	: 4.5 VDC – 5.5 VDC		
START-UP VOLTAGE	: 4.0 VDC , NORMAL		
REAL CURRENT	: 0.04 Amp		
REAL POWER	: 0.20 Watt		
RATED CURRENT	: 0.05 Amp + 10 %MAX		
RATED POWER	: 0.25 Watt		
RATED SPEED	: 4500 RPM ± 20 %		
(IN FREE AIR AT RATED VOLTAGE)			
AIR FLOW	: 3.350 CFM (min.: 2.680 CFM)		
AIR FLOW	: 0.094 CMM (min.: 0.075 CMM)		
	(IN FREE AIR AT RATED VOLTAGE)		
STATIC AIR PRES <mark>SURE</mark>	: 0.041 Inch H <sub>2</sub> O (min.: 0.026 Inch H <sub>2</sub> O)		
STATIC AIR PRESS <mark>URE</mark>	: 1.041 mm $H_2O$ (min.: 0.666 mm $H_2O$ )		
(IN FREE AIR AT RATED VOLTAGE)			
NOISE LEVEL	: 25.7 dB (A) (max.: 29.7 dB(A))	川月間	
MOTOR PROTECTION	: BY IC	發處 🔊	
POLARITY PROTECTION	: NO 2019	9.08.20	
CONNECTION LEAD TYPE	: WIRE, AWG# 28	(行音)	
LIFE EXPECTANCY	: 50000 Hours at $25^{\circ}$ / 65% RH	11 7	
NET WEIGHT	: 9 Gram.		
PACKING	: 480 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.			
ADDA CORPORATION	Model No.: AD0405LX-K90 P.S: (XT1)	Page 1/6	



#### 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.

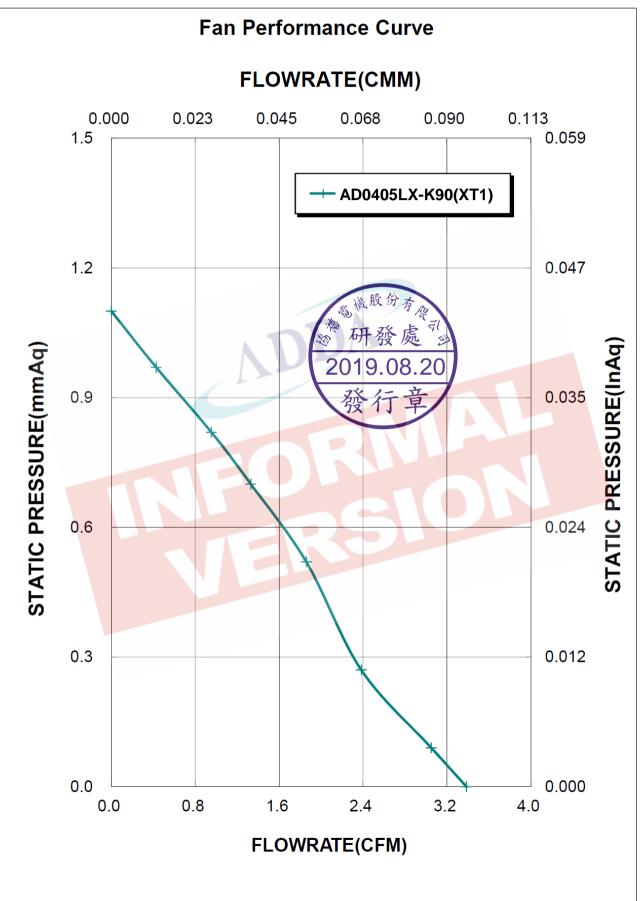


ADDA CORPORATION

## SPECIFICATION





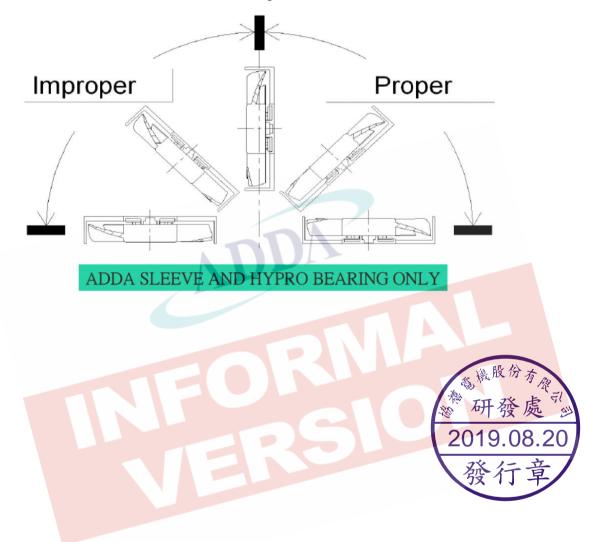


# \* Sleeve 與 Hypro軸承裝置說明:



\*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象產生

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



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