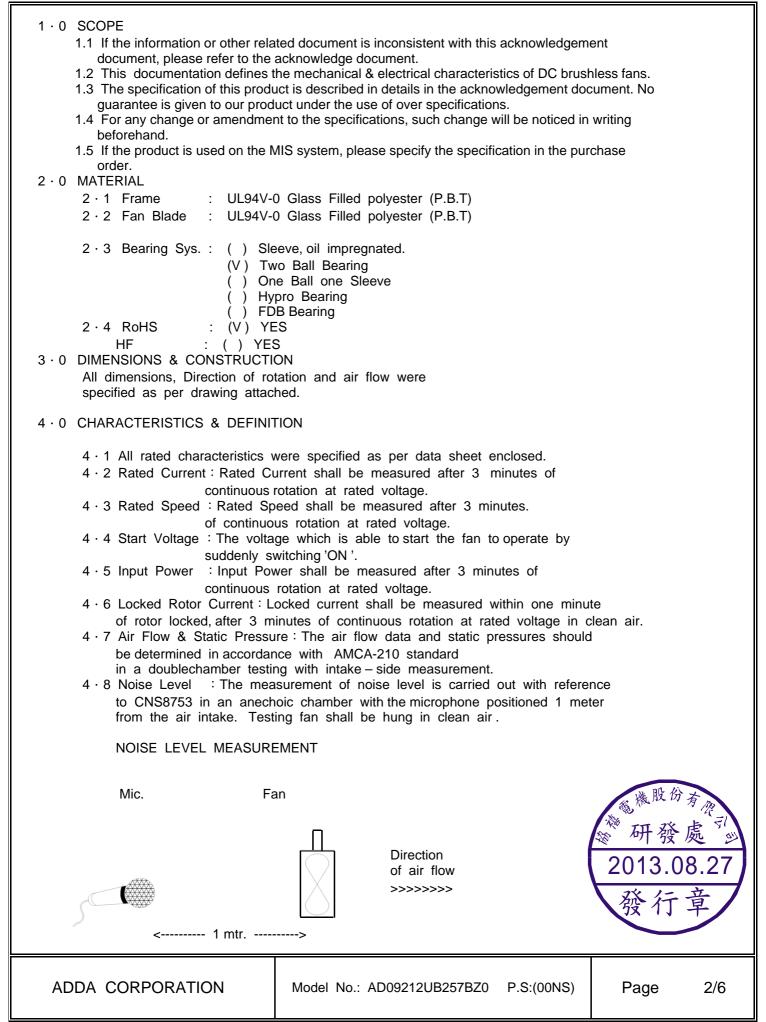
| SPECIFICATION FOR APPROVAL |
|--|
| TO : REF. No |
| APPROVED CHECKED PREPARED DATE 研發處 研發處 研發處 2013.08.27 值文榮 CHECKED PREPARED 局競成 李文琦 PREPARED |
| MODEL No. AD09212UB257BZ0 P.S. (00NS) DESCRIPTION: DC FAN (RoHS) REV. A ID No. |
| THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. UNLESS OTHERWISE 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. |
| ADD ADDA CORPORATION |

DATA-SHEET

Engineering

| BRUSHLESS AXIAL COOLING FA | |) | | | | ۲I | inted On: | 13/08/27 Ref: (RoHS) |
|--|----|------------|---------------------|----------|--------------|--------|------------------------|-------------------------|
| Customer | : | 100040 | | D 0. | (0010) | | | Rel: (ROHS) |
| Adda Model No | : | AD09212l | | | (00NS) | | | |
| Samples attached | : | 05 | Piece(s | 5), | | | | |
| Safety Approval | : | CE | | | | - | EN 61000-6-1:2 | |
| | | | | | | EN 6 | 1000-6-3:2007 | , , |
| Specifications | | | | | | - | | |
| ITEM | SF | PECIFICATI | ON / CC | | N | | | |
| DIMENSIONS | : | | mm | | <u></u> | | | |
| BEARING TYPE | : | | | | | | | |
| RATED VOLTAGE | : | | VDC | | | | | |
| OPERATING VOLTAGE RANGE | : | | VDC | _ | 12.6 | VDC | | |
| | : | | | | | | | |
| START-UP DUTY CYCLE | : | | | TED VO | LTAGE) | | | |
| REAL CURRENT | : | | Amp | - | , | | | |
| REAL POWER | : | | Watt | | | | | |
| RATED CURRENT | : | | Amp | + | 10 | %MAX | (Duty cycle 10 | 00%) |
| RATED POWER | : | 5.04 | Watt | | | | (Duty cycle 10 | |
| RATED SPEED | : | 4000 | RPM | ± | 10 | % | (Duty cycle 10 | |
| | : | 0 | RPM | | | | (Duty cycle 0 | |
| | | | (IN FREE | AIR A | T RATED | VOLTA | | , |
| AIR FLOW | : | 69.368 | CFM | (min.: | 62.431 | CFM) | , | |
| AIR FLOW | : | 1.963 | CMM | (min.: | 1.766 | CMM) | | |
| | | | (IN FREE | AIR A | T RATED | VOLTA | GE) | |
| STATIC AIR PRESSURE | : | 0.311 | Inch H ₂ | 0 | (min.: | 0.251 | Inch H ₂ O) | |
| STATIC AIR PRESSURE | : | 7.899 | mm H ₂ C | C | (min.: | 6.398 | mm H ₂ O) | |
| | | | (IN FREE | AIR A | T RATED | VOLTA | GE) | |
| NOISE LEVEL | : | 47.0 | dB (A) | (max.: | 51.0 | dB(A)) | | |
| MOTOR PROTECTION | : | BY | IC | | | | | |
| POLARITY PROTECTION | : | YES | | | | | | |
| CONNECTION LEAD TYPE | : | WIRE, AV | VG# | 26 | | | | |
| LIFE EXPECTANCY | : | 70000 | Hours | at | 40 °C | / 65% | RH | |
| NET WEIGHT | : | 100 | Gram. | | | | | |
| PACKING | : | 180 | pcs. Pe | er Expoi | rt Carton. | | | 機股份本 |
| * If no PWM signal is present (no connection to the PWM drive signal), | | | | | | | | |
| the fan should be run at rated speed RPM. | | | | | | | | |
| * The fan should be run, at Max of start -up duty cycle. 2013.08.27 | | | | | | | | |
| Unless otherwise stated, the relative humidity is 65%, and the temperature is 25° | | | | | | | | |
| for the standard testing. 發行草 | | | | | | | | |
| Should you have any doubt, please refer to the environmental conditions specified in the | | | | | | | | |
| acknowledgement document. | | | | | | | | |
| ADDA CORPORATION | Ν | lodel No.: | AD0921 | 2UB257 | 7BZ0 | P.S: | (00NS) | Page 1/6 |

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. 2 Dielectric Strength

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° 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. Do not store the fan for over 6 months; even if the fan is stored in room temperature for over 6 months, the fan may have the electric current leakage.



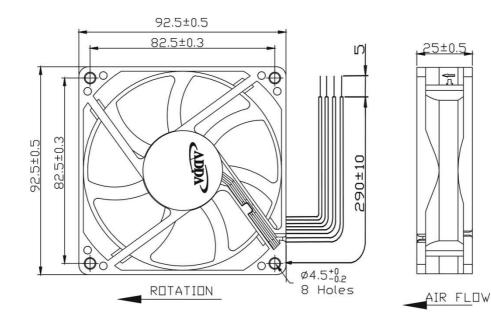
ADDA CORPORATION

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 , L = 290 ± 10 mm Red = positive ; Black = negative. White = FG ; Blue = PWM

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 defect10.2 Do not carry the fan by its lead wires.

- 10.3 If the fan does not have the polarity protection function, the connection of t 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 written, shall be 12 months staring from the date of production.

ADDA CORPORATION

Model No.: AD09212UB257BZ0 P.S:(00NS)

Page

PWM-BA

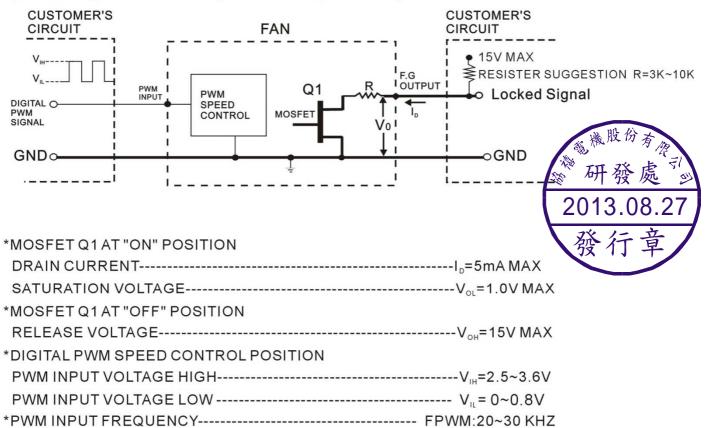
ADDA

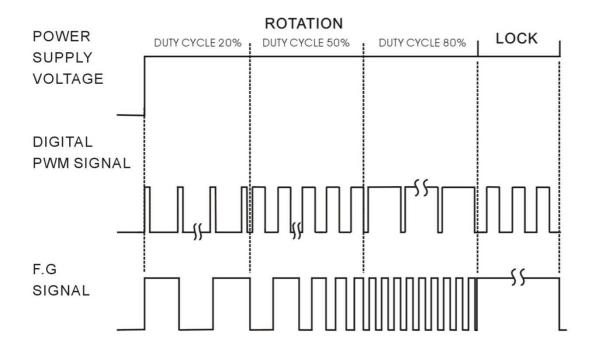
PROVISION OF DIGITAL PWM SPEED CONTROL & LOCKED SIGNAL(F.G)

• OUTPUT OF LOCKED SIGNAL -----OPEN DRAIN TYPE

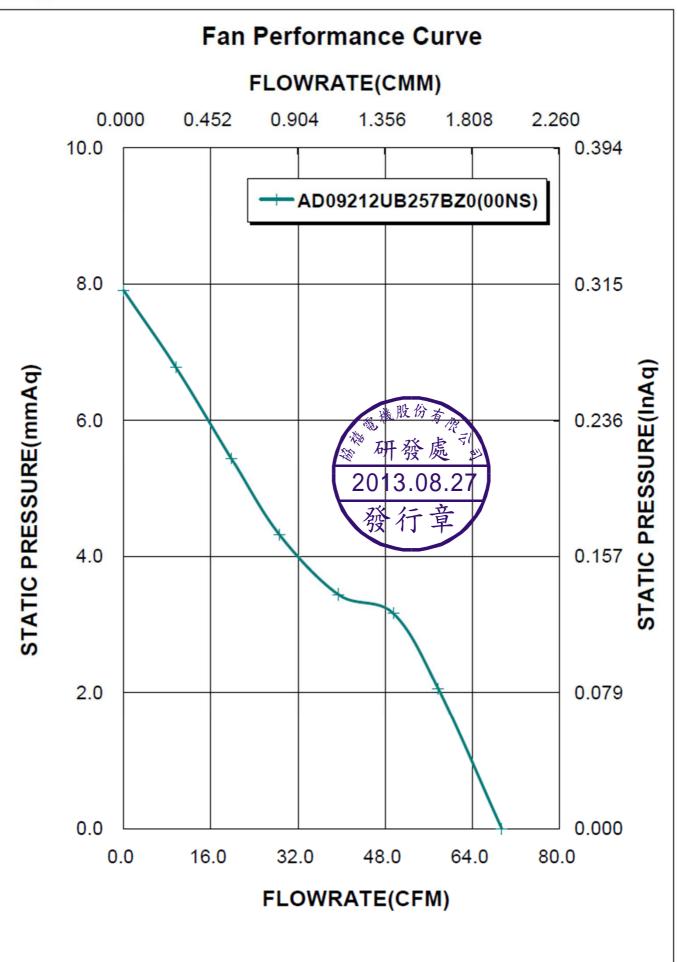
*Electrical design suggestion:R=3K~10K

(External signal function design is decided by customer)









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