



Strikefan Electronic Co.,Ltd

APPROVAL SHEET

Customer : _____
Model No : TRD1225B12SH
Part No : F.4W.C.Q.X(25)
Description : DC Fan (RoHS)
Date : 2021 / 11 / 17
Revision : _____

CUSTOMER APPROVED	CHECKED BY	PREPARED BY
	陳祐仁	洪莉嫻

THIS OFFER IS MADE ACCORDING TO YOUR CURRENT INQUIRY. UNLESS OTHERWISE REVISED, THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION ORDERS FROM YOUR RESPECTED COMPANY. KINDLY STUDY IN DETAILS AND RETURN TO US THE DUPLICATE DULY SIGNED AS YOUR CONFIRMATION OF SAME.





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SPECIFICATION

DC AXIAL FAN

ITEM	SPECIFICATION / CONDITION
P/N	TRD1225B12SH-F.4W.C.Q.X(25)
Dimension 尺寸	120 x 120 x 25 mm
Bearing Type 軸承	Two Ball Bearing
Rated Voltage 額定電壓	12 VDC
Operating Voltage 工作電壓範圍	7~14 VDC
Startup Voltage 啟動電壓	7 V
Rated Current 額定電流	1.01 (Max:1.52) A
Consuming Power 消耗功率	12.12 (Max:18.24) W
Rated Speed 額定轉速	5500 RPM±10%
Air Flow 風量	162.53 (Min:146.28) CFM
	4.60 (Min:4.14) m ³ /min
Static Pressure 靜壓	17.43 (Min:14.12) mm-H ₂ O
	0.69 (Min:0.56) inch-H ₂ O
Noise Level 噪音	59.00 (Max:64.90) dBA
Safety Certification 安規	CE

PROTECTION TYPE 防護類型

Resistance Protected 電阻保護	NO
Auto Restart By IC IC版	YES
Speed Control 速度檢測	YES
Alarm Control 警示功能	NO
Pulse Width Modulation 脈波控制	YES
Temperature Control 溫度控制	NO
Waterproof Level 防水等級	Varnish





1.MATERIAL:

1-1.FRAME : PBT UL94V-0

1-2.IMPELLER : PBT UL94V-0

2.ENVIRONMENTAL

2-1.OPERATING TEMPERATURE : -10 TO +70 DEGREE°C

2-2.STORAGE TEMPERATURE : -40 TO +85 DEGREE°C

2-3.OPERATING HUMIDITY : 15 TO 90% RH

2-4.STORAGE HUMIDITY : 15 TO 90% RH

3.CHARACTERISTICS & DEFINITION :

3-1.DROP TEST

IN MINIMUM PACKAGING CONDITION FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30 CM DISTANCE HEIGHT ONTO 10 MM THICKNESS OF WOODEN BOARD.

3-2.LOCKED ROTOR PROTECTION

IMPEDANCE OF MOTOR WINDING PROTECTS MOTOR FROM FIRE IN 15MINUTE OF LOCKED ROTOR CONDITION AT THE RATED VOLTAGE.

4.ELECTRICAL INSPECTION:

4-1.INSULATION RESISTANCE

10 MEG OHM MIN.AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)

4-2.INSULATION STRENGTH

5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND(+)TERMINAL)

5.LIFE EXPECTANC

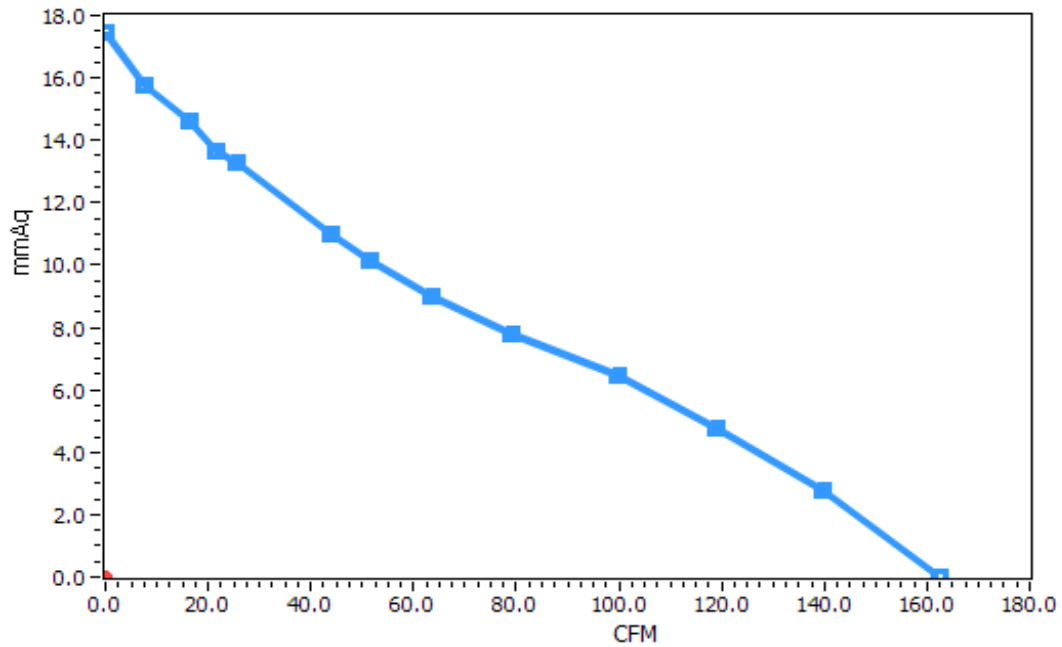
70000 HOURS CONTINUOUS OPERATION

AT 40°C WITH 15~65 %RH.1,YEAR WARRANTY.



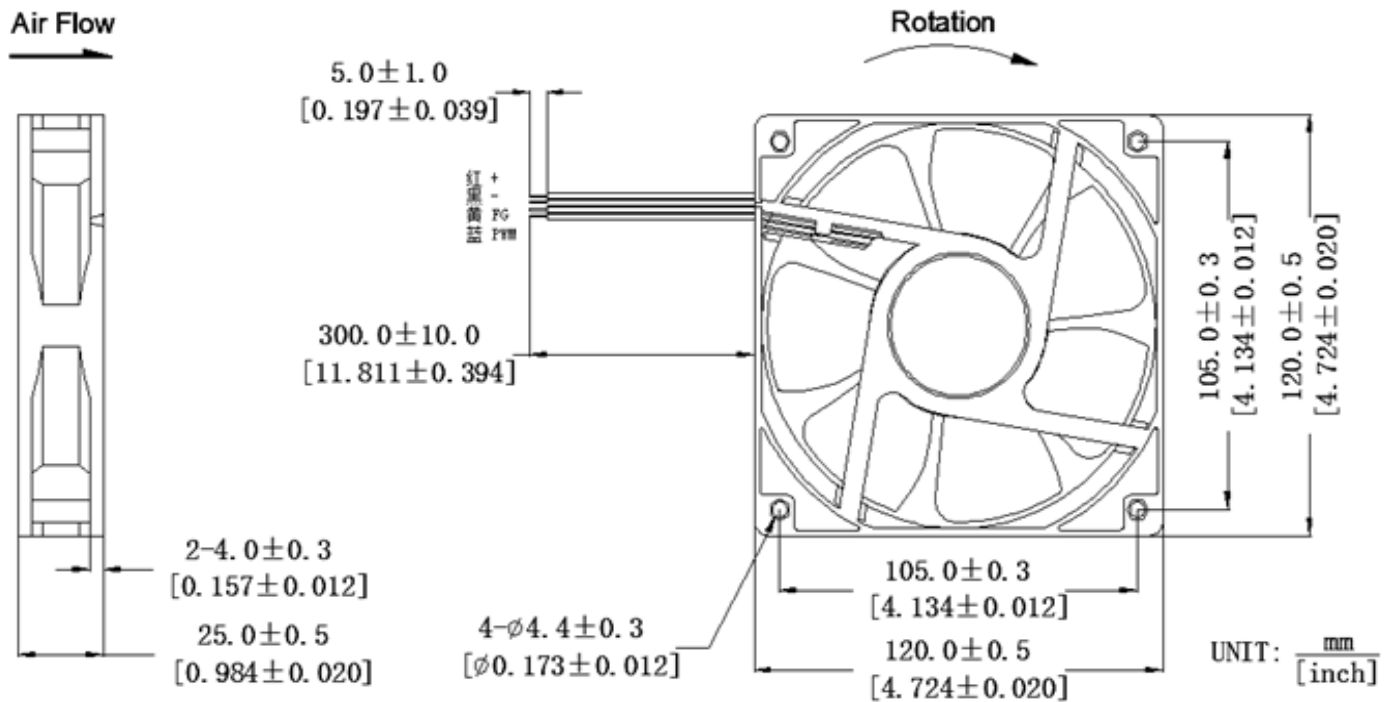


6.Fan Performance Curve Test Report





7.OUTLINE STYLING & DIMENSIONS :



NOTE:

LEAD WIRES: UL 1332 #24 AWG

Red-----(+)

Black-----(-)

Yellow----- (FG)

Blue----- (PWM)



8.ROTATION DETECTION (FG) SIGNAL :

FG : When fan is running, the switch of rotor N, S can make exchange of high and low level.

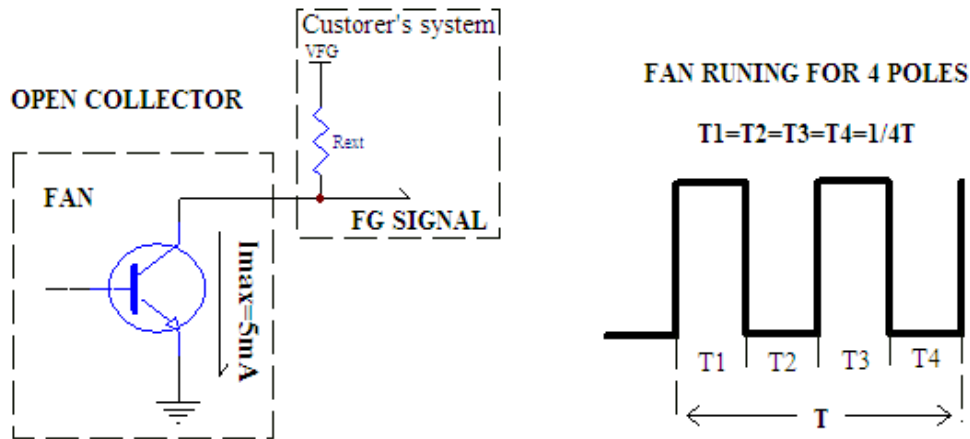
And speed faster,the frequency of level exchange faster.

So we can sense fan's rotation speed via the signal of variational frequency.

8-1.FG OUTPUT CIRCUIT---OPEN COLLECT MODE :

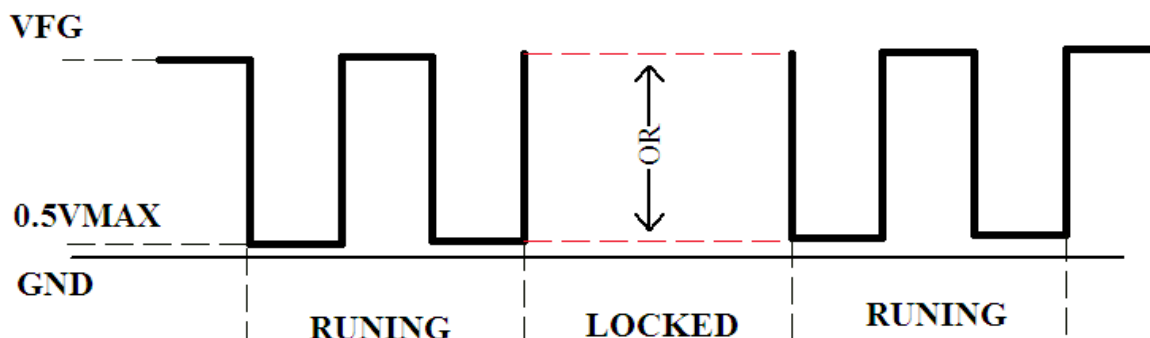
8-2.SPECIFICATION :

VFG= 14 Vmax Rext (min) =VFG/Imax Imax=5mA Vce=0.5Vmax



8-3.RPM=F* 120/4=30F

8-4.FREQUENCY GENERATOR WAVEFORM



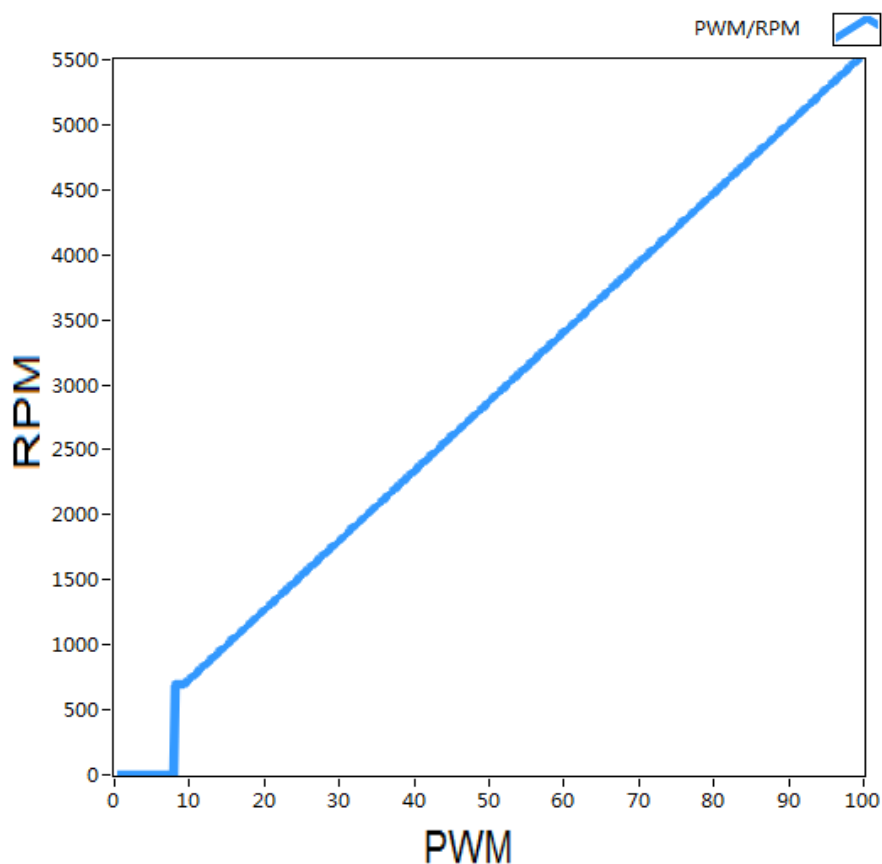
Note:

FG signal wire can not contact with the "+" and "-" lead wire

When Fan is locking , the FG signal output voltage may be VFG or 0V (0.5Vmax)



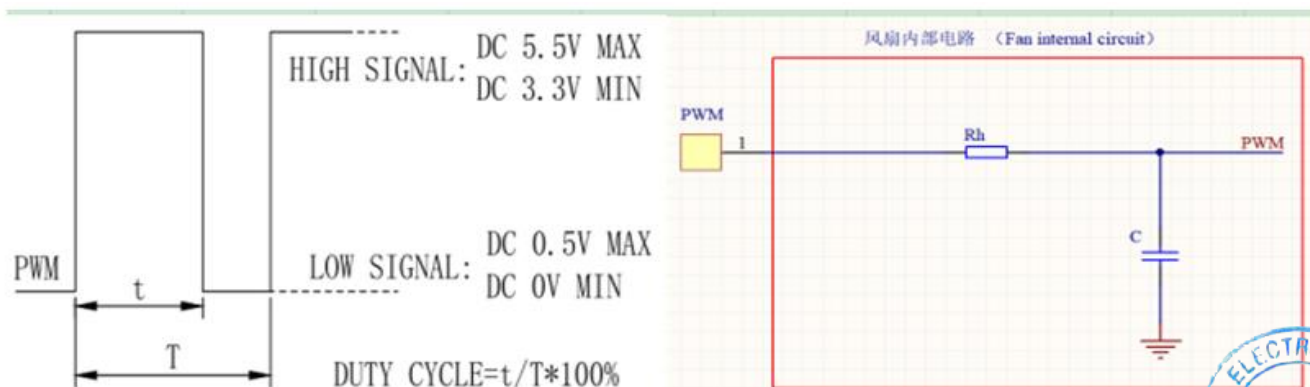
9.PWM Vs RPM Curve :



9-1.Curves Instructions:

0%-8%= 0RPM ,9%=700RPM ,9%~99% 轉速按斜率線上升 ,99%-100% =5500RPM

9-2.PWM CONTROLR SIGNAL:



9-3.Input PWM: 1Khz-30Khz (The Input PWM frequency range: 1Khz-30Khz)



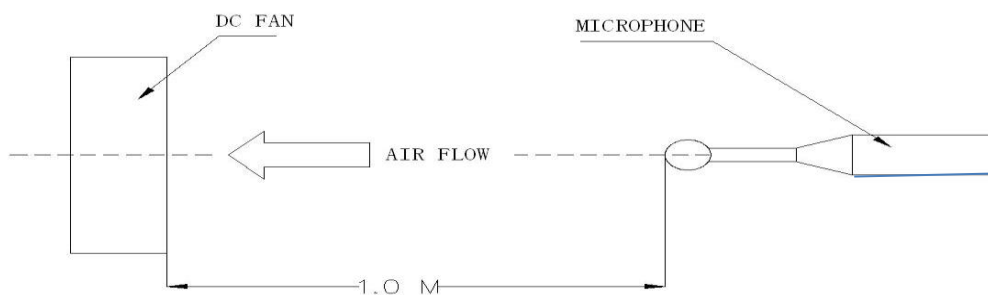


NOTES(一):

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.
2. DO NOT CARRY THE FAN BY ITS LEAD WIRES.
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.
4. FOR THE MODELS WITHOUT REVERSE CONNECTION OF POLARITY PROTECTION, PLEASE DO NOT CONNECT THE LEAD WIRE IN REVERSE.
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.
6. THE PERIOD OF PRODUCT WARRANTY,UNLESS OTHERWISE AGREED BY STK IN WRITTEN, SHALL BE 12 MONTHS STARTING FROM THE DATE OF PRODUCTION.
7. 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).

NOTES(二):

1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UPTHROUGH 10 MINUTES.
2. THE VALUES WRITTEN IN PARENS, ARE LIMITED SPEC.
3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ANECHOICCHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE

