



Strikefan Electronic Co.,Ltd

APPROVAL SHEET

Customer :

Model No : TRF8038B12SH

Part No : F.4W.C(1)

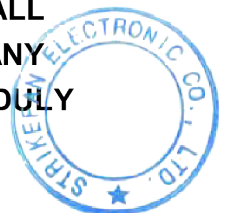
Description : DC Fan (RoHS)

Date : 2024.4.12

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

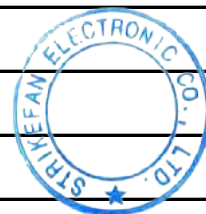




SPECIFICATION

DC Axial Fan

ITEM	DESCRIPTIONS
P/N	TRF8038B12SH-F.4W.C(1)
Dimension 尺寸	80×80×38mm
Bearing Type 軸承	DUAL BALL BEARING
Rated Voltage 額定電壓	12 VDC
Operating Voltage 工作電壓範圍	8 ~13.2 VDC
Startup Voltage 啟動電壓	8 VDC
Rated Current 額定電流	3.40 (Max: 3.74) A
Consuming Power 消耗功率	40.80 (Max: 44.88) W
Rated Speed 額定轉速	15000 RPM± 10%
Air Flow 風量	130.70 (Min: 117.63) CFM
	3.70 (Min: 3.33) m ³ /min
Static Pressure 靜壓	102.00 (Min: 91.80) mm-H ₂ O
	4.02 (Min: 3.62) inch-H ₂ O
Noise Level 噪音	69.5 dBA
Unit Weight 單體重量	190 grams
Safety Certification 安規	CE
SPECIAL FUNCTION TYPE 特殊功能類型	
Auto Restart By IC 自動重啓 (IC版)	YES
Soft Start 緩啟動	YES
Frequency Generation (FG) 速度檢測	YES
Rotation Detection (RD) 警示功能	NO
Pulse Width Modulation (PWM) 脈波控制	YES
Temperature Control 溫度控制	NO
Waterproof Level 防水等級	NO





1. Material:

1-1.FRAME : PBT UL94V-0

1-2.IMPELLER : PBT UL94V-0

1-3.SHAFT HOLDER : PLASTIC

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 85% RH

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

3. Electrical Specification :

3-1.LOCKED ROTOR PROTECTION

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

3-2.INSULATION RESISTANCE

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

3-3.INSULATION STRENGTH

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

4. 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.

5. Life Expectancy:

70000 HOURS CONTINUOUS OPERATION AT 40°C / 15~ 75 % RH



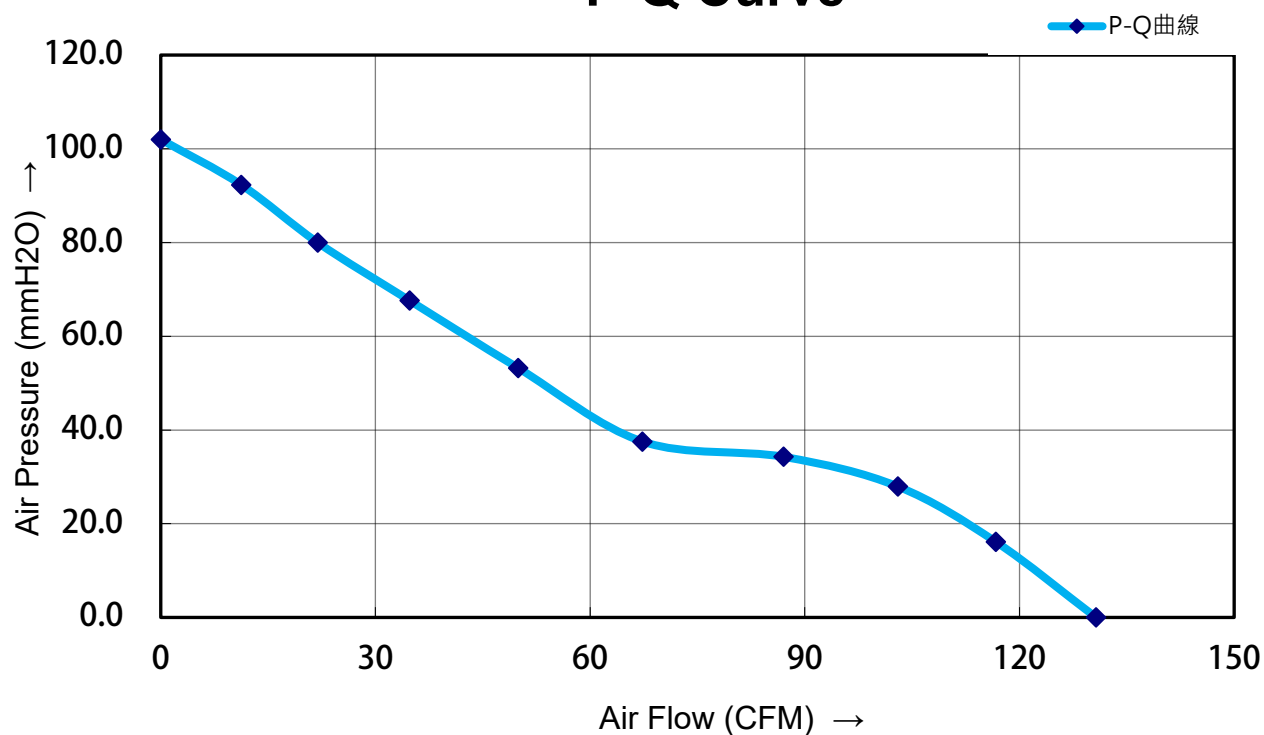


6. Fan Performance Curve Test Report

Test Conditions

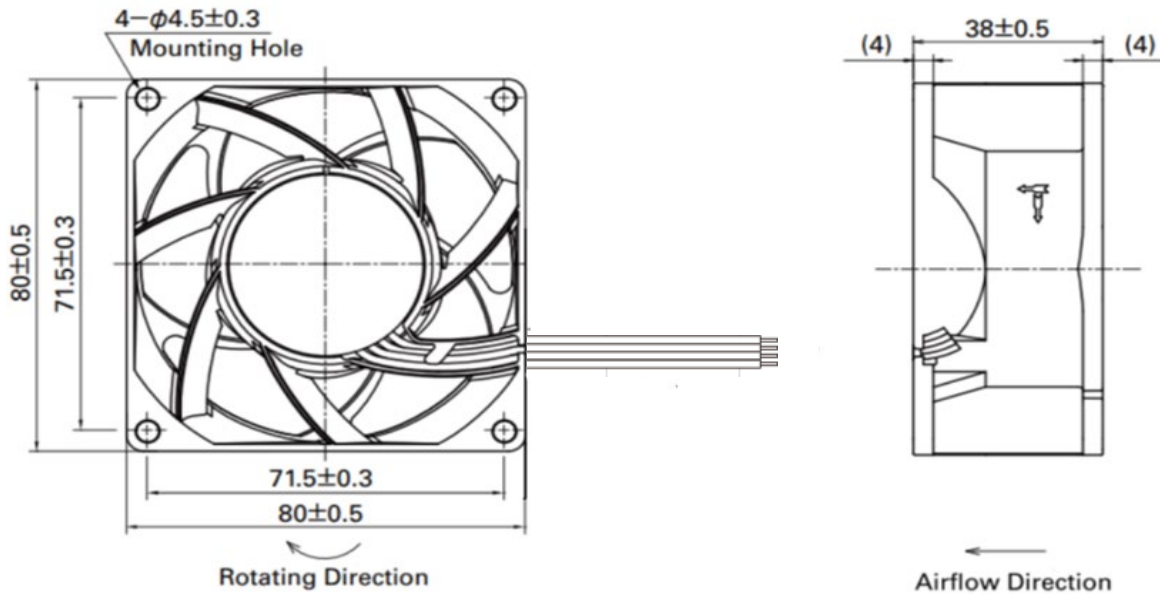
Barometric Pressure:	752.4 mmHg	Test Voltage:	At Rated Voltage
Relative Humidity:	66.82%	Ambient Temp.	25.2 °C

P-Q Curve





7. Outline Styles and Dimensions:



UNIT:mm

(1)型號/Model No
(2)軸承/Bearing Type
(3)額定電壓/Rated Voltage
(4)安規電流/Rated Current
(5)產品編號/Part No
(6)安規/Safety Approvals
(7)製造日期/Date Code



NOTE: Lead Wire:UL1430 #22AWG, 300±10mm

Red----- (+)

Black----- (-)

Blue----- FG

Yellow----- PWM



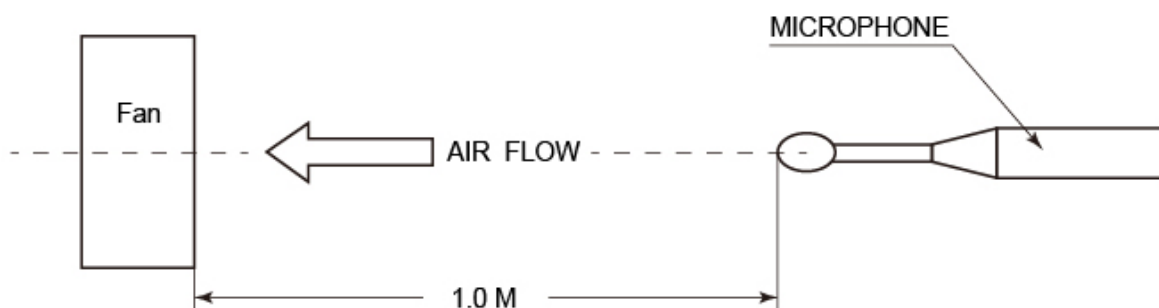


8. Operation Notice:

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).

9. Fan Noise Test:

1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 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 ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE





Frequency Generation (FG) Signal:

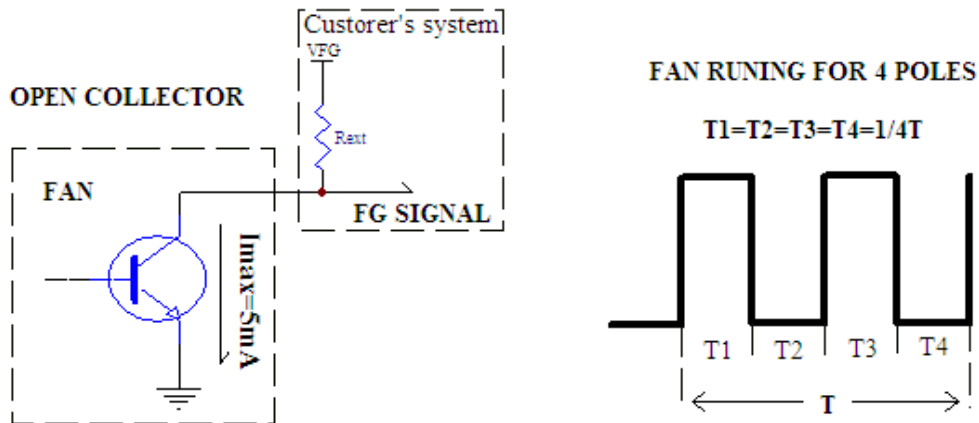
FG : When fan is running, the switch of rotor N, S can make exchange of high and low level.

And speed faster, the frequency of level exchange faster.

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

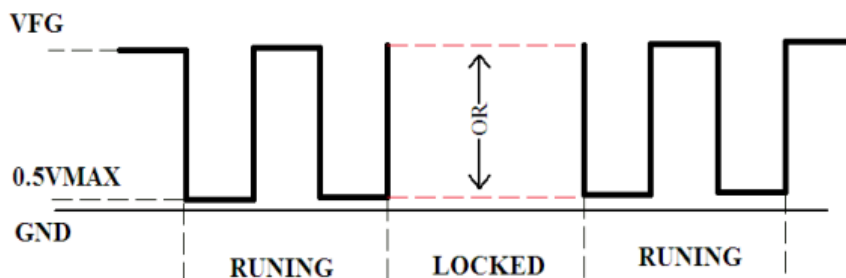
1.FG OUTPUT CIRCUIT---OPEN COLLECT MODE :

2.SPECIFICATION :



$$3.RPM=F* 120/4=30F$$

4.FREQUENCY GENERATOR WAVEFORM



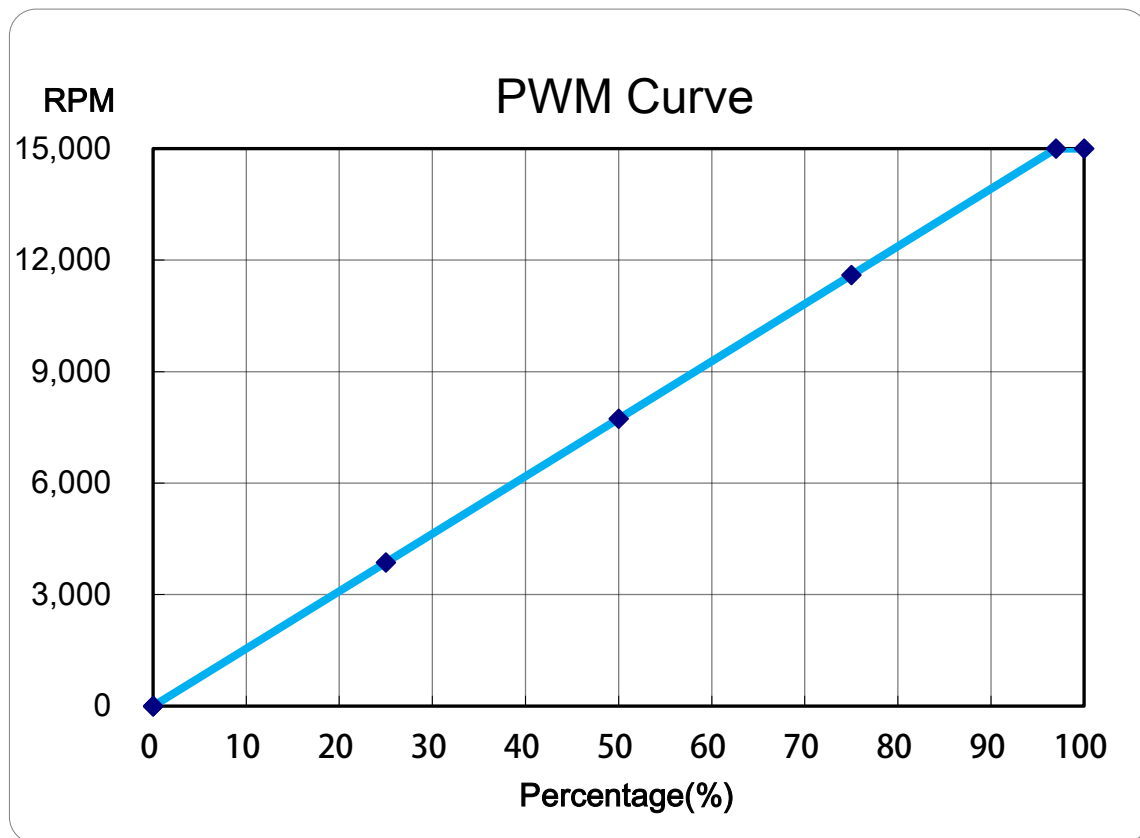
NOTE:

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





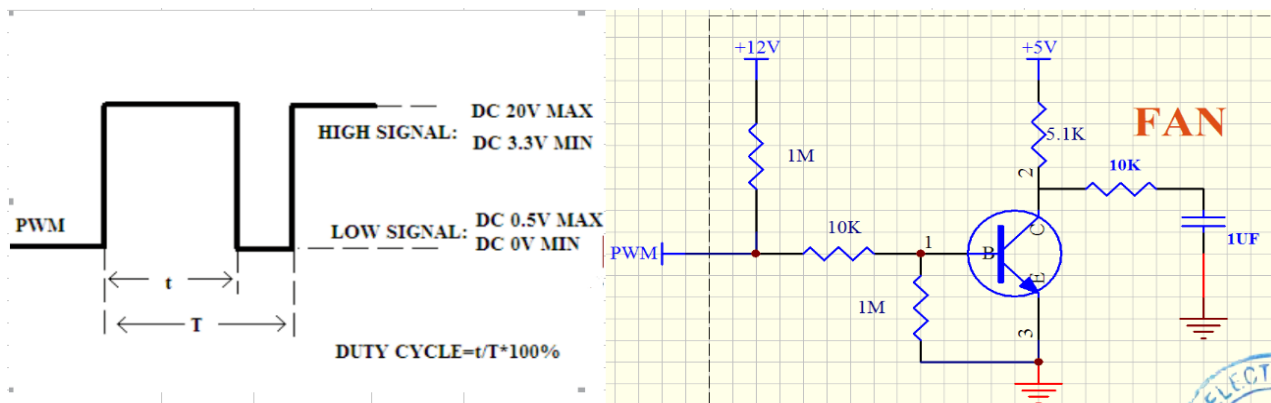
PWM VS RPM Curve :



1. Curves Instructions :

0%-97% rotational speed increases according to the slope, 97%-100% rotational = 15000 RPM

2. PWM Control Signal :



3. Input PWM : 300hz-30Khz (The Input PWM frequency range: 300hz-30Khz





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EC-Certification of Conformity

EMC Directive 2014/30/EU

Registration No.: ATL202112071171

Applicant: STRIKEFAN ELECTRONIC CO.,LTD.

Applicant Address: 4F,NO.100,CHUNG HSIN RD.,HSICHIH DIST,NEW TAIPEI CITY,22158,TAIWAN

Manufacturer: STRIKEFAN ELECTRONIC CO.,LTD.

Manufacturer Address: 4F,NO.100,CHUNG HSIN RD.,HSICHIH DIST,NEW TAIPEI CITY,22158,TAIWAN

Product Designation: DC Fan

Brand Name: STK

Model / Series Models: 1238,1305,1504,1708,1804,2004,2008,2507,2512,3004,3008,4505,2010,2510,
3007,3010,3510,4010,4015,4510,4020,4028,5010,5015,5020,6010,6015,6020,
6025,6038,7010,7015,7025,7020,7032,7038,8010,8015,8020,8025,8032,8038,
9015,9225,9232,9238,1225,1232,1238,1338,1425,1438,14050,1551,16050,17225,
17238,17251,20053,20060,20070,2230,25489,3517,7530,9733,17569,12030,
10025,5013,15040,13840,8030,8018,3006,3015,17255,22580,28080,5025,13380,
17065,19067,19072,22076,22599,225101,25099,25094,200,220,250,300,2589,
1751

Requirement	Applied Standards	Document Evidence	Result
EMC Directive	EN IEC 61000-6-1:2019; EN 61000-6-3:2007/A1:2011/AC:2012.	Test Report: ATL202112071171E01	Conform



Kent Zhang

Signed by Quality Manager
Issue Date: Dec. 15, 2021

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Note: This certificate is part of the full test report(s) and should be used in conjunction with it.