



SPECIFICATION FOR APPROVAL

規格承認書

DATASHEET NO.: DAH12038VH12B-0301

產品 Product: DC FAN, JQ

品號 Model NO.: DAH12038VH12B 数量 2 PCS

核准日期 Issue Date: 2014-1-14

產品圖 Product Picture	確認 Approved by	公司章 Company Seal
		

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深圳市騰凱特種機電有限公司

SHENZHEN TENKAI SPECIAL ELECTROMECHANICAL CO.,LTD.

規格參數

SPECIFICATION

Model:

Item	Unit	Specification	Condition
Dimension	mm	120X120X38	LxWxThickness
Bearing System	----	Two Ball bearing	----
Rated Voltage	VDC	12	----
Operating Voltage Range	VDC	10.2 ~ 13.8	At 25°C
Start-up Voltage	VDC	6	At 25°C
Rated Current	Amp	2.2(Max.)0.55	At Rated Voltage
Lock Rotor Current	Amp	0.01	Max.at Rotor Locked
Rated Power	Watt	26.4	At Rated Voltage
Rated Speed	RPM	5000±10%	AT Rated Voltage
Air Flow	M³/min	9.23	In Free Air
Static Air Pressure	mmH ₂ O	31.2	When Air Flow=0
Noise Level	dBA	75(Max.)76	At Rated Speed
Motor Protection	----	Reversed Polarity	Not Required
Other Features	Tachometer Output	NO	Yes
	Autostart	Soft restart	Yes
	Lock Rotor Alarm	Locking protection	Not Required
	Thermal Control	NO	Not Required
	PWM Control	PWM function+FOO	Yes
	IP Grade	NO	Not Required
	Environmental	--	Not Required
Connection Lead Type	Lead Wire	300mm	See Page 4
	Connector	Not Required	Not Applicable
	Build-in LED	NO	Not Required
Life Expectancy	Hours	50000 hrs.	At 25°C
Net Weight	Gram	320g	----
Packing	Pieces/Carton	--pcs/carton	----

電性規格

Electrical Specifically

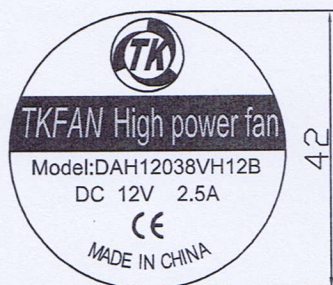
絕緣阻抗 Insulation Resistance	10MΩ /裸線与外框間測量, 500VDC/min 10MΩ/between unshackled wire and frame at 500VDC/min
絕緣耐壓 Dielectric Strength	5Ma Max./導線与外框間測量, 500VAC/min 5Ma Max./Measured between lead wire(+)and frame at 500VAC/min
極數 Number of Pole	4 極 4 Poles
EMC	Pass

使用环境規格 Envirment Specifically

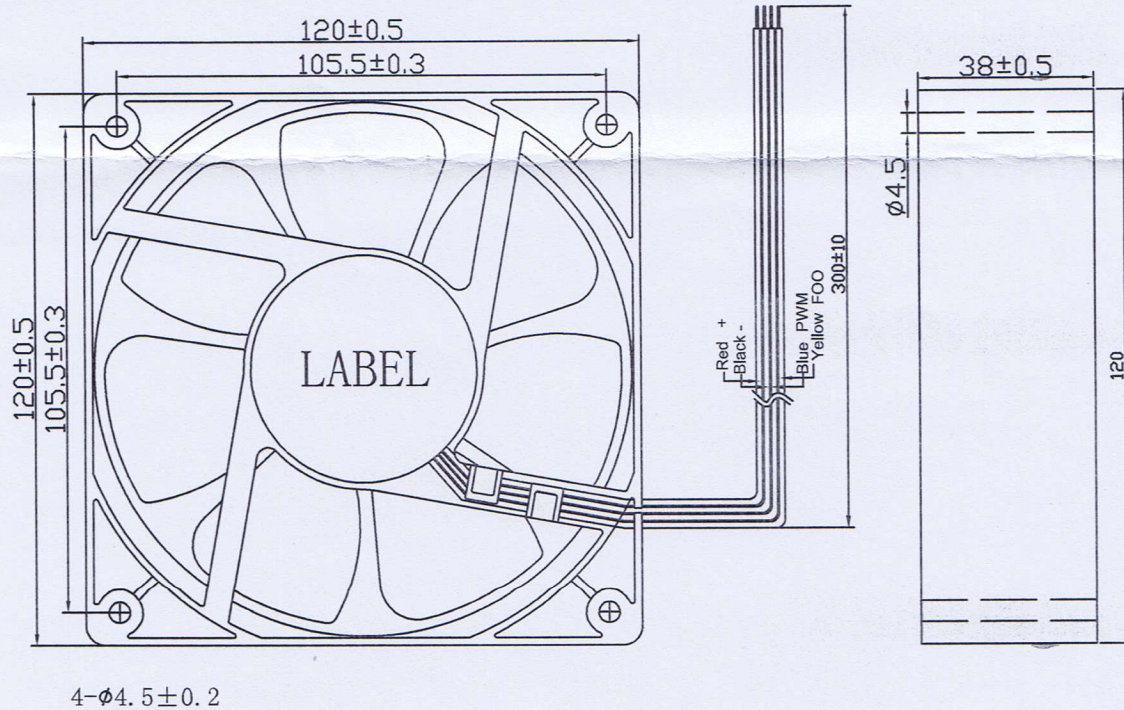
運轉溫/濕度範圍 Operating temp. Range	溫度/ temperature: -10℃~+60℃ 濕度/ Humidity: 35%~85%RH
保存溫/濕度範圍 Storage Temperature	溫度/ Temperature: -40℃~+80℃ 濕度/ Humidity: 35%~85%RH
耐濕性 Humidity	電器規格依據 MIL-STD 202F Method 103B 濕度: 95%RH, 溫度: 40±2℃ According to MIL-STD 202F Method 103B Humidity: 95%RH, Temp.: 40±2℃
熱衝擊 Thermal Shock	電器規格依據 MIL-STD 202F Method 107D According to MIL-STD 202F Method 107D
絕緣階段 Insulation Shock	UL: A 種 UL: Class A
包裝耐振試驗 Packing Vibration Test	包裝后, XYZ 施 1.1KG 測試 30 分鐘無損壞 Load Vibration test for 30min, No serious damage

主要配件規格 Main Materials/Parts Specification

Item	Specification	supplier	Approval certificate
Frame	Plastic PBT	吉利	SGS, CE
Impeller	Plastic PBT	吉利	SGS, CE
Bearing System	Two Ball bearing	NMB	CE
Copper Wire	Au.	正一	SGS, UL
Steel Casing	Steel	捷威	CE
Flexible Magnetic Rubber		福磁	SGS
Axis	Steel	华亿	SGS, CE
Silicon Steel	Silicon	三丰	SGS
PCB	FR-4	盛捷	UL
Drive IC	-	BCD	UL, SGS, CE, ROHS
Cable	UL1007 22Awg	鑫达旺	UL
Lable	PVC	富豪	UL
Carton	K=K	宏成	SGS
Skin packing		庆超	SQS



OQC检验标准	
样品单号	DAH12038VH12B-0301
电压	12V
电流	202A
转速	5000RPM
数量	2 PCS
导线	UI1007 22Awg
备注	
日期	2013年 月 日

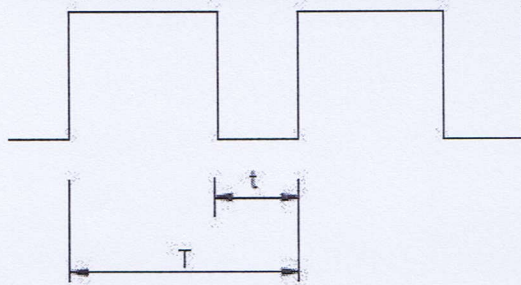


UNIT: $\frac{\text{mm}}{(\text{INCH})}$

COMPANY	SHENZHEN TENKAI GROUP		
PARTS NO.	12038	MADE BY	刘良军
SERIERs	DC FAN	CHECKED	
UNIT	mm	DATE	14-1-14

一. PWM CONTROL SIGNAL:

SIGNAL VOLTAGE RANGE: -0.5~+4.0VDC



HIGH SIGNAL: 4.0 VDC MAX.
2.0 VDC MIN.

LOW SIGNAL: 0.8 VDC MAX.
-0.5 VDC MIN.

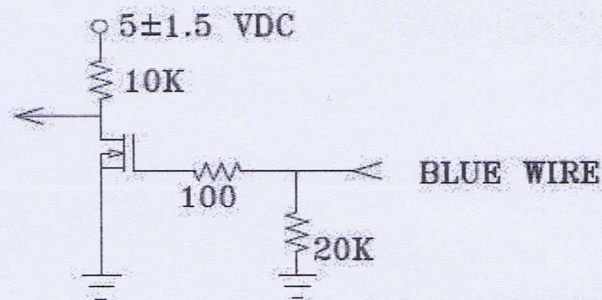
$$\text{DUTY CYCLE} = \frac{t}{T} * 100(\%)$$

- THE FREQUENCY FOR CONTROL SIGNAL OF THE FAN SHALL BE ABLE TO ACCEPT 16K~32 KHZ.
- THE PREFERRED OPERATING POINT FOR THE FAN IS 25K HZ.
- AT 100% DUTY CYCLE,THE ROTOR WILL SPIN AT MAXIMUM SPEED.
- AT 0% DUTY CYCLE,THE ROTOR WILL STOP.
- WHEN CONTROL SIGNAL LEAD DISCONNECTED,THE FAN WILL MAXIMUM SPEED.
- AT 25K HZ 3%~5% DUTY CYCLE ,THE FAN WILL BE ABLE TO START FROM A DEAD STOP .
- THE FAN SPEED CONTROL IS CLOSED-LOOP .

二. SPEED VS PWM CONTROL SIGNAL: (AT RATED VOLTAGE & PWM FREQUENCY=25KHZ)

DUTY CYCLE(%)	SPERD R.P.M.(REF)	CURRENT(A)TYP
100	5000	2.2
50	3500	1.5
0	0	0

三. PWM CONTROL LEAD WIRE INPUT IMPEDANCE:

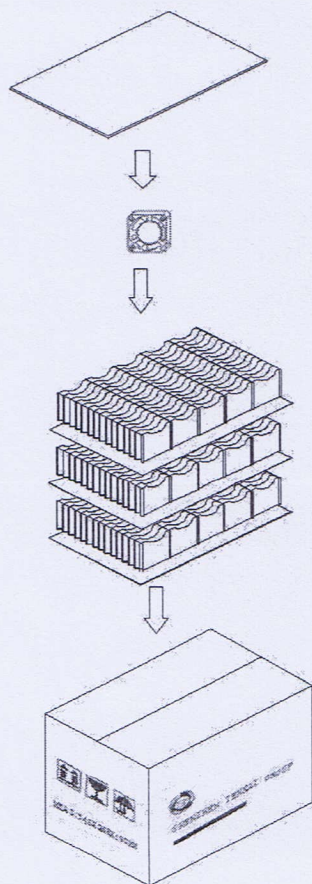


- 三.1 THE FAN SPEED WILL DEFAULT TO MAXIMUM WHEN THE SPEED CONTROL INPUT IS LEFT UNCONNECTED.
- 三.2 ABSOLUTELY NO INTERNAL PULL-UP.

SAMPLING PLAN:GB/T2828.1-2008(ANSI/ASQ Z1.4-2008) LEVEL II				
正常检验一次抽样方案				
样本量字码	批量	样本量	接受质量限AQL	
			0.65	
			AC	RE
A	2-8	2		
B	9-15	3		
C	16-25	5		
D	26-50	8		
E	51-90	13		
F	91-150	20	0	1
G	151-280	32		
H	281-500	50		
J	501-1200	80	1	2
K	1201-3200	125	2	3
L	3201-10000	200	3	4
M	10001-35000	315	5	6
N	35001-150000	500	7	8
P	150001-500000	800	10	11
Q	500000以上	1250	14	15

. AC=ACCEPTANCE NUMBER
 . RE=REJECTION NUMBER
 . ↑=USE THE FIRST SAMPLING PLAN ABOVE NARROW
 . ↓=USE THE FIRST SAMPLING PLAN BELOW NARROW
 (If sampling SIZE EQUALS, OR EXCEED LOTS, OR BARTH SIZE, DO 100% INSPECTION)

纸箱材质



1 出口包装纸箱检验规程 SN/T 0262-1993

2 外观 GB/T 6543-2008

3 尺寸 GB/T 6543-2008

4 摇盖耐折 GB/T 6543-2008

5 厚度 GB/T 6547-1998

6 耐破强度 GB/T 6545-1998

7 戳穿强度 GB/T 2679.7-2005

8 边压强度 GB/T 6546-1998

9 粘合强度 GB/T 6548-2011

10 空箱抗压 GB/T 4857.4-2008

11 含水率 GB/T 462-2008

12 防潮性能 GJB 1109A - 2000

13 分层定量 ISO 3039: 1975

14 平压强度 GB/T 6980 - 1995

注意事项 (NOTES)

- 1 Before use, make sure the supply voltage to meet the use of the product range, line-powered load exceeds the maximum power consumption of this product 120%. And the voltage is stable without clutter.

(使用前, 确认供电电压能满足本产品的使用范围, 供电电路负载超过本产品的最大功耗的 120%。且电压是稳定不含杂波干扰)

- 2 Please when ventilator circular telegram normal work do not use the hand to bump touches fan blade border

(请在风扇通电正常运转时不要用手碰触扇叶边沿)

- 3 Please do not touch the impeller and never carry the fan the lead wires. The bearings and the lead wires may be damaged. Additionally, static electricity may damage the internal circuits of the fan

(请不要碰触扇叶和拉扯线材, 以免损坏轴承及导线。此外, 静电可能损坏内部的风扇元件)

- 4 Please do not use the fan in the environment of corrosive gas or liquid.

(请不要将风扇置于腐蚀的气体 and 液体内部)

- 5 Please do not store the fan in the environment of high humidity. Please avoid storage of the fan over 6 months. For long term storage, please connect power to the fan shortly every 6 months even though the fan is stored in room temperature.

(请不要将风扇储存在高湿度的环境中, 请尽量避免将风扇储存期超过 6 个月。如果要长期储存, 请将其在室温的环境下。且每隔 6 个月须上电源让风扇短时间运转。)