



深圳腾凯特种机电有限公司  
SHENZHEN TENKAI GROUP LIMITED

# SPECIFICATION FOR APPROVAL

## 规格承认书

To: 2104191544

产品型号 Par No. : BA7050H24B

类别 Category:  Fan  Blower  Centrifugal

认证 Certification:  CE  ROHS  UL  TUV

编号 SpecNo: BA7050H24B-B2101-02X 版次 Version: 01

样品数 Quantity: 1PCS 日期 Date: 2023-06-30

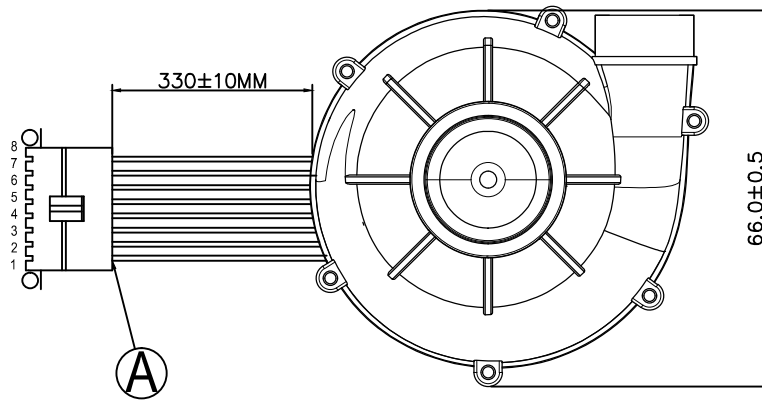
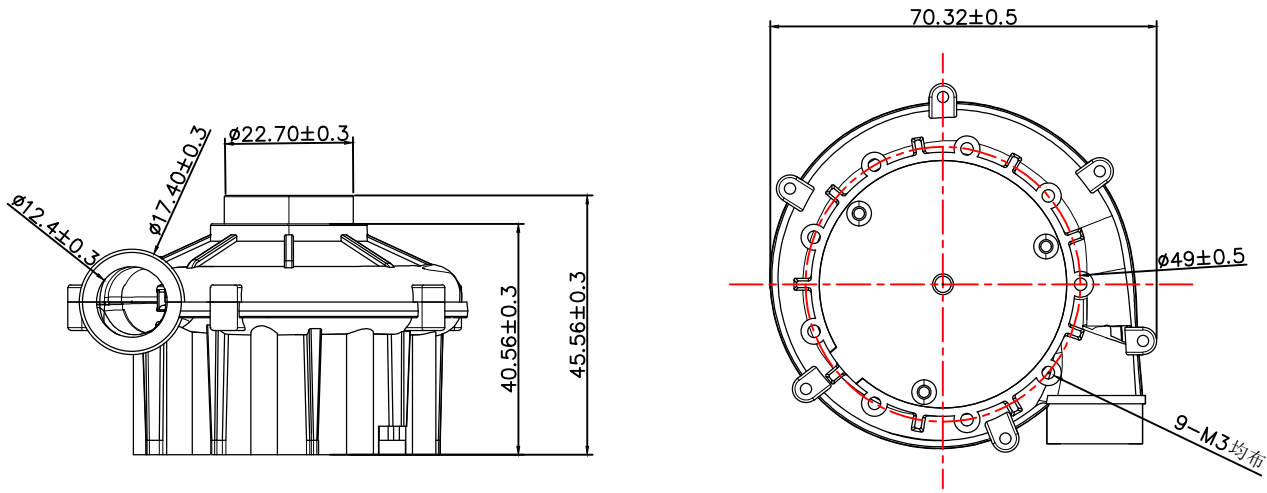
Company Stamp	CUSTOMER APPROVAL Stamp
	
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UNIT:  $\frac{\text{mm}}{\text{(INCH)}}$

A: VH3.96-8P端子

LEAD WIRE UL 1332# 22AWGOR EQUIVALENT

PIN1: RED WIRE---(W)

PIN2: BLACK WIRE---(V)

PIN3: YELLOW WIRE ---(U)

LEAD WIRE UL 1007# 24AWGOR EQUIVALENT

PIN:4 BLACK WIRE ---(-)

PIN:5 WHITE WIRE ---(HW)

PIN:6 BLUE WIRE---(HV)

PIN:7 YELLOW WIRE---(HU)

PIN:8 RED WIRE ---(+)

Mark 记号	REASON 变更原因	PROJECTION		单位 UNIT	深圳市腾凯特种机电有限公司				SHEN				
				mm	ZHEN TENKAI GROUP LIMITED								
				比例 SCALE	型号 Model NO.	BA7050H24B		图号 Drawing NO.					
				1:1				BA7050H24B-B2101-02					
		公差 TOL	LINEAR	.X	.XX	制图 Drawing	朱蒸蒸	日期 Date	2023.05.31	描述 Description			
			(0,50]	$\pm 0.10$	$\pm 0.05$						ANGULAR	X.	$\pm 0.5'$
		(50,100]	$\pm 0.20$	$\pm 0.10$	X.X	$\pm 0.1'$	检查 Check	刘良军	日期 Date	2023.05.31	材质 Material	页数 Page	1/1
		(100,+∞]	$\pm 0.30$	$\pm 0.15$	It is prohibited to duplicate this document without explicit authorization or to hand it over to others for use.		批准 Approved		日期 Date		表面 Finish	版次 Rev	A0

# 規格參數

## SPECIFICATION

Model 型号:			
Item 项目	Unit 单位	Specification 參數	Condition 條件
Dimension 尺寸	Mm 毫米	70X66X45	LxWxThickness 长宽高
Bearing System 轴承类型	----	Two Ball Bearing	----
Rated Voltage 额定电压	VDC	24	----
Operating Voltage Range 操作电压范围	VDC	18~26.5	At 25°C
Start-up Voltage 启动电压	VDC	≤18	At 25°C
Rated Current 额定电流	Amp 安培	2.9	At Rated 在额定电压下
Lock Rotor Current 锁定电流	Amp 安培	0	Locked 锁死
Rated Power 额定功耗	Watt 瓦特	67.2	At Rated 在额定电压下
Rated Speed 额定转速	RPM 圈/分钟	37000±10%	AT Rated Voltage 30°C
Air Flow 风量	CFM	17.8	In Free Air 无风阻条件
Static Air Pressure 静压	mmH <sub>2</sub> O	804.3	When Air Flow=0
Noise Level 噪音	dBA	70.1	At Rated Speed 额定速
Polarity protection 反向保护	--	Reverse protection	YES
Other Spec.	Tachometer Output 转速反馈		NO
	Soft-restart function 软启动		NO
	Lock Protection 锁定保护		YES
	Lock Rotor Alarm 锁定报警		NO
	PWM Control 速度控制		NO
	Thermal Control 过热保护		NO
	Over voltage protection 过压保护		NO
	Over current protection 过流保护		NO
	fixed constant speed Function 恒速功能		NO
Connection Lead Type 连接方式	Lead Wire 导线型号	330mm1332#22AWG 330mm1007#24AWG	See Page 2 见图纸
	Connector 端子	VH3.96-8P 端子	See Page 2 见图纸
Life Expectancy 预期寿命	Hours 小时	10000hrs	At 25°C 在 25°C条件下
Net Weight 净重	g 克	160g	1PCS
备注 Note	注：引线长度型号详见图纸 以上数据基于我司公版驱动		

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	2 極 2Poles
EMC	
運轉溫/濕度範圍 Operating temp. Range	溫度/temperature: -40℃~+65℃ 濕度/Humidity: 35%~85%RH
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
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

**MTBF REPORT**

STARTED DATE: 2009.5.16

FINISHED DATE: 2009.10.20

<b>TEST CONDITION TEST</b> (1) VOLTAGE:24VDC (2) TEMPERATURE: 65°C	ITEM	SPECIFICATION	TEST SAMPLES	20
	OPERATION VOLTAGE	24VDC±10%	TEST HRS/EA	2,200
	CURRENT DRAIN	MAX ≤2.9A	TOTAL TEST HRS	44,000
	SPEED	37000RPM±10%	FAILURE Q'TY	0
	ACOUSTICAL NOISE		CONFIDENCE LEVEL	90%
			MTBF	10000hours

<b>FAILURE DEFINITION</b>  Over (1) CURRENT:= 10%/-30%of Original value	ITEM	CHECK POINT AT THE HOURS							
	TEST DURATION(HRS)	250	500	1k	1.5k	2k	2.2k		
Over (2) RPM: 30%/-15%of Original value	ACCUMULATED FAILURE Q'TY	0	0	0	0	0	0		
	SURVIVAL Q'TY	20	20	20	20	20	20		
Over (3) NOISE LEVEL: Over±10% of origin	ACCUMULATED FAILURE RATIO	0%	0%	0%	0%	0%	0%		
	FAILNO.TEST TIME(HRS)SURVIVAL Q'TY								
	ACCUMULATED FAIL RATIO								
	DESCRIPTION								
TEST RESULT: 1. FORMULA OF FIGURING OUT ACCELERATION FACTOR: $Tu$ : Required Temp (25°C) $Ta$ : Experiment Temp.(65°C) $AF = 2^{\wedge}[(Ta-Tu)]$ $= 2^{\wedge}[(65-25)/10]$ $= 32$ $MTBF = [ACTUAL TEST TIME * SAMPLE Q'TY] * AF / TR / SAMPLE Q'TY$ $MTBF = [(2200 * 20) * 32] / 1.7 / 20 = 10000 HOURS$						2. CONFIDENCE LEVEL: ACCORDING TO GEM TABLE 90% ZERO FAILURE TR=1.7			

APPROVED BY: BOPING GONG

CHECKED BY: SHU LIN XIE

TESTED BY: JUN ZHANG

## 风扇特性曲线风量风压测试报告

### The Report of Fan Performance P-Q Curve Test

1. 产品特性依照 AMCA-210 标准在双箱里包括风量与风压的测试。

The performance including air flow and air pressure measured in Double Chamber is measured according to AMCA210-92 standard.

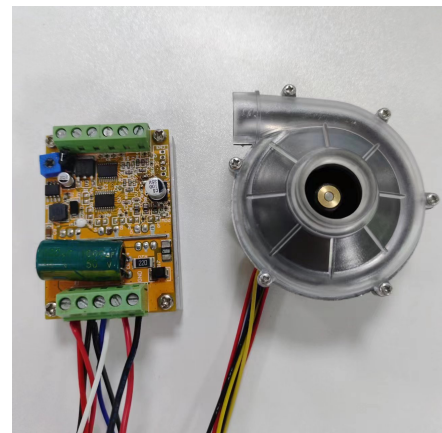
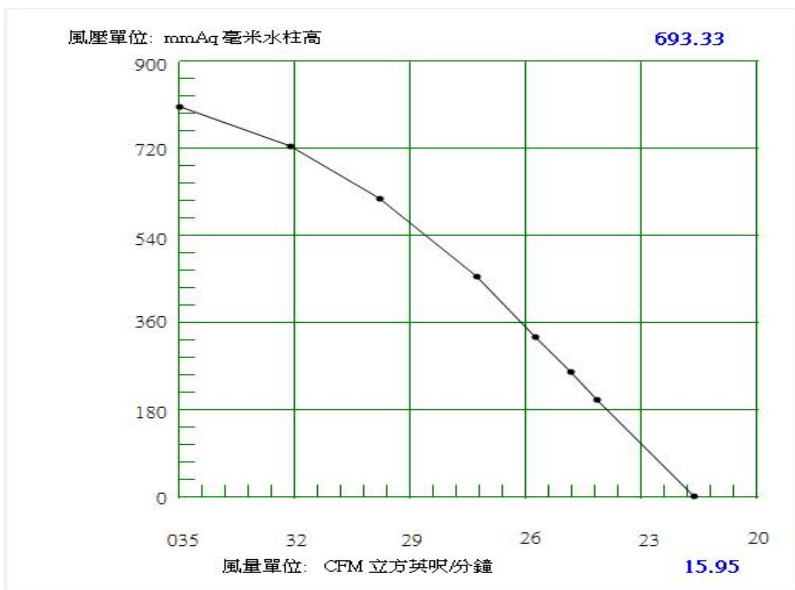
测试编号(No.): 5821      测试日期(Date) : 2023/06/30

2.测试数据:

序号 No.	项目 Item	规格 Specification	单位 Unit
1	测试电压 Test Voltage	24	VDC
2	转速 Speed	37000	RPM
3	大气压力 Barometric Pressure	761.5	mmHg
4	相对湿度 Relative Humidity	49	%
5	最大风量(零静压时)Max.Air Flow(At Zero Static Pressure)	17.8	CFM
6	最大风压（零风量时）Max. Air Pressure(At Zero Air Flow)	804.3	mmH <sub>2</sub> O

### 3.P-Q 数据及曲线 P-Q Data and Curve

序号	mmAq	CFM	A	Watt	RPM
1	804.25	-0.01	1.36	32.5	
2	722	3.84	1.82	43.7	
3	614.5	6.95	2.15	51.7	
4	452.5	10.31	2.44	58.6	
5	329	12.3	2.57	61.8	
6	257	13.57	2.63	63.2	
7	198.5	14.46	2.66	63.9	
8	0	17.84	2.76	66.3	



# 噪音测试报告

## The Report of Acoustic Noise Test

报告编号 Report No.TN1511309

样品名称 Sample Name	Brushless Fan / Blower
测试条件 Test Condition	测试方法 Test Method
1.温度 Temperature: 31 °C 2.湿度 Humidity: 75 %RH	1.测试位置 Test Position : 180° 2.测试距离 Test Distance:1.0M From the fan intake 3.背景噪音 Background Noise: 19.1dB(A) 4.测试依照标准 ISO3745 执行 This test executes according to ISO3745 standard
测试设备 Test Equipment: 声望 VA-Lab2 二通道噪声频谱分析仪 BSWA VA-Lab2 double channels noise Spectrum Analyzer	
测试结果 Test Result: Leq:70.10dB(A); 测试距离 Test distance: 1 meter	
倍频段频谱图 Octave-Band(1m)	
测试结果 Test Result: Leq:16.1dB(A); 背景噪音 Background Noise	

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 ※报告无主检、审核人签字无效 The test report is invalid without the signatures of Author and Reviewer.

实物图

The pictures

