



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: 2301313039

产品型号 Par No. : BA7050H12B

类别 Category: ☐ Fan ☒ Blower ☐ Centrifugal

认证 Certification: ☒ CE ☒ ROHS ☐ UL ☐ TUV

编号 SpecNo: BA7050H12B-B230419-05 版次 Version: 01

样品数 Quantity: 1PCS 日期 Date: 2026.03.19

Company Stamp	CUSTOMER APPROVAL Stamp
	
制作: 庄月蓉	承认:
复核: 蔡继国	核准:
核准:	日期:

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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	12	----
Operating Voltage Range 操作电压范围	VDC	9~13.5	At 25℃
Start-up Voltage 启动电压	VDC	≤9	At 25℃
Rated Current 额定电流	Amp 安培	5.3±10%	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	69.6	At Rated 在额定电压下
Rated Speed 额定转速	RPM 圈/分钟	35000±10%	AT Rated Voltage 30℃
Air Flow 风量	CFM	17.5	In Free Air 无风阻条件
Static Air Pressure 静压	mmH ₂ O	832.0	When Air Flow=0
Noise Level 噪音	dBA	71.5	At Rated Speed 额定速
Polarity protection 反向保护	--	Reverse protection	---
Other Spec.	Tachometer Output 转速反馈	NO	
	Soft-restart function 软启动	YES	
	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	
	fixedconstant speed Function 恒速功能	NO	
Connection Lead Type 连接方式	Lead Wire 导线型号	300mm2464#22AWG	See Page 2 见图纸
	Connector 端子	TE 282105-1	See Page2 见图纸
Life Expectancy 预期寿命	Hours 小时	10000hrs	At 25℃ 在 25℃条件下
Net Weight 净重	g 克	150g	1PCS
备注 Note	1. 灌导热灌密封胶 2. 以上测试数据由我司驱动测试得出 (BA7050-B-12铝壳防水) 3. 出风口上下蜗壳间不能有缝。 4. 螺丝不能漏打、没打到位、螺帽十字槽不能打花。 5. 下蜗壳不能有开裂。 6. 较多溢出的胶水要及时清除。		

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
定子極數 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

MTBF REPORT

STARTED DATE: 2020.5.16

FINISHED DATE: 2020.10.20

TEST CONDITIONTEST (1) VOLTAGE:12VDC (2) TEMPERATURE: 75℃	ITEM	SPECIFICATION	TEST SAMPLES	20
	OPERATION VOLTAGE	12VDC	TEST HRS/EA	800
	CUPPENT DPAIN	MAX ≤5.3A±10%	TOTAL TEST HRS	16,000
	SPEED	35000RPM±10%	FAILURE Q'TY	0
	ACOUSTICAL NOISE		CONFIDENCE LEVEL	90%
			MTBF	10440hours

FAILURE DEFINITION Over (1) CURRENT:= 10%/-30%of Original value Over (2) RPM: 30%/-15%of Original value (3) NOISE Over±10% of LEVEL: origin	ITEM	CHECK POINT AT THE HOURS							
	TEST DURATION(HRS)	250	500	1k	1.5k	2k	2.2k		
	ACCUMULATED FAILURE Q'TY	0	0	0	0	0	0		
	SURVIVAL Q'TY	20	20	20	20	20	20		
	ACCUMULATED FAILURE RATIO	0%	0%	0%	0%	0%	0%		
	FAILNO.TEST TIME(HRS)SURVIVAL Q'TY ACCUMULATED FAIL RATIO DESCRIPTION								
TEST RESULT:		2. CONFIDENCE LEVEL:							
1. FORMULA OF FIGURING OUT ACCELERATION FACTOR:		ACCORDING TO GEM TABLE90%							
Tu: Required Temp (25℃) Ta: Experiment Temp.(65℃) $AF = 2 \wedge [(Ta - Tu)]$ $= 2 \wedge [(65 - 25) / 10]$ $= 17$ MTBF=[ACTUAL TEST TIME*SAMPLE Q'TY]*AF/TR/SAMPLE Q'TY MTBF=[(800*20)*17]/1.3026/20=10440HOURS		ZERO FAILURE TR=1.3026							

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.

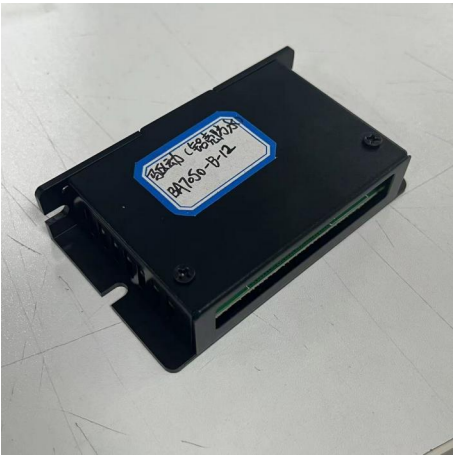
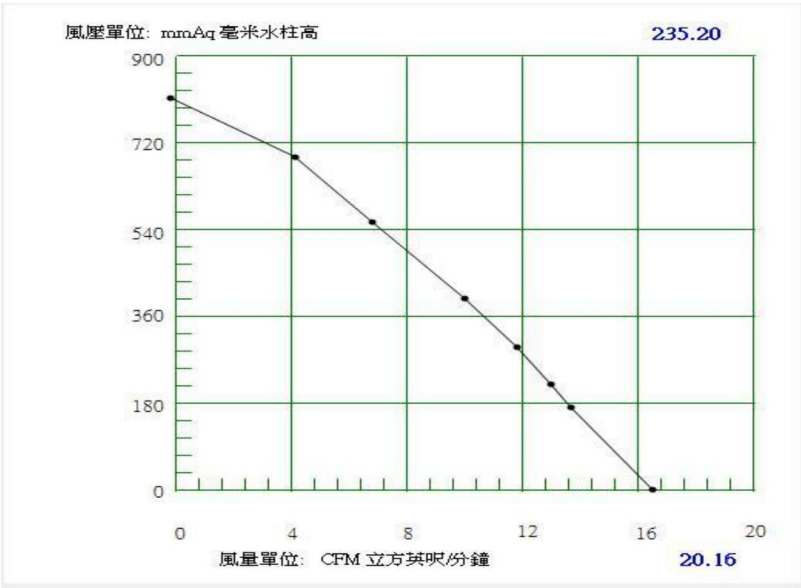
测试编号(No.): 5655 测试日期(Date) : 2026/03/19

2.测试数据:

序号 No.	项目 Item	规格 Specification	单位 Unit
1	测试电压 Test Voltage	12	VDC
2	转速 Speed	35000	RPM
3	大气压力 Barometric Pressure	761.5	mmHg
4	相对湿度 Relative Humidity	47	%
5	最大风量(零静压时)Max.Air Flow(At Zero Static Pressure)	17.5	CFM
6	最大风压（零风量时）Max. Air Pressure(At Zero Air Flow)	832.0	mmH ₂ O

3.P-Q 数据及曲线 P-Q Data and Curve

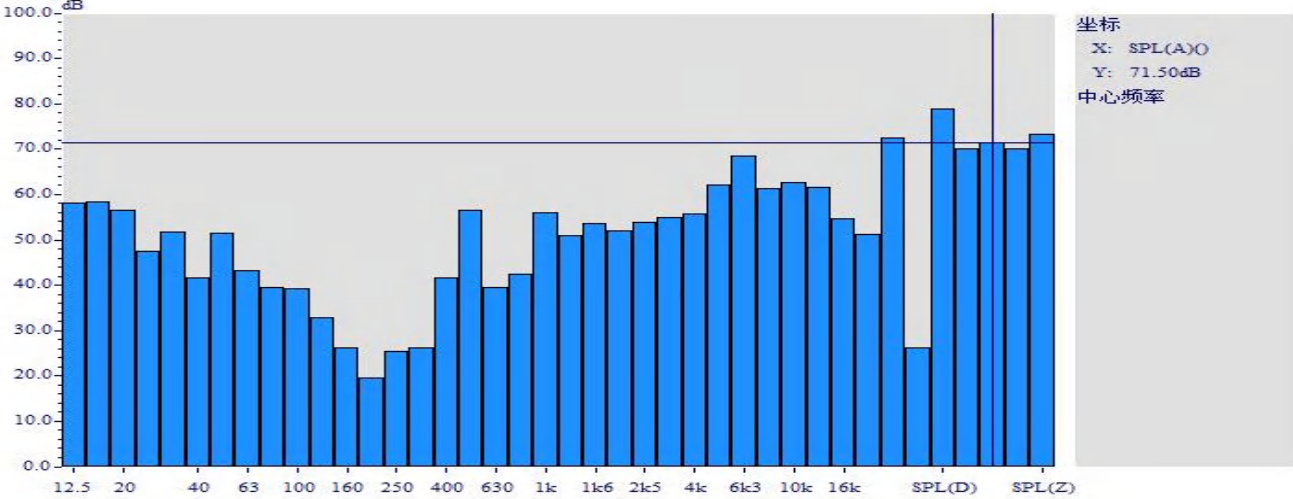
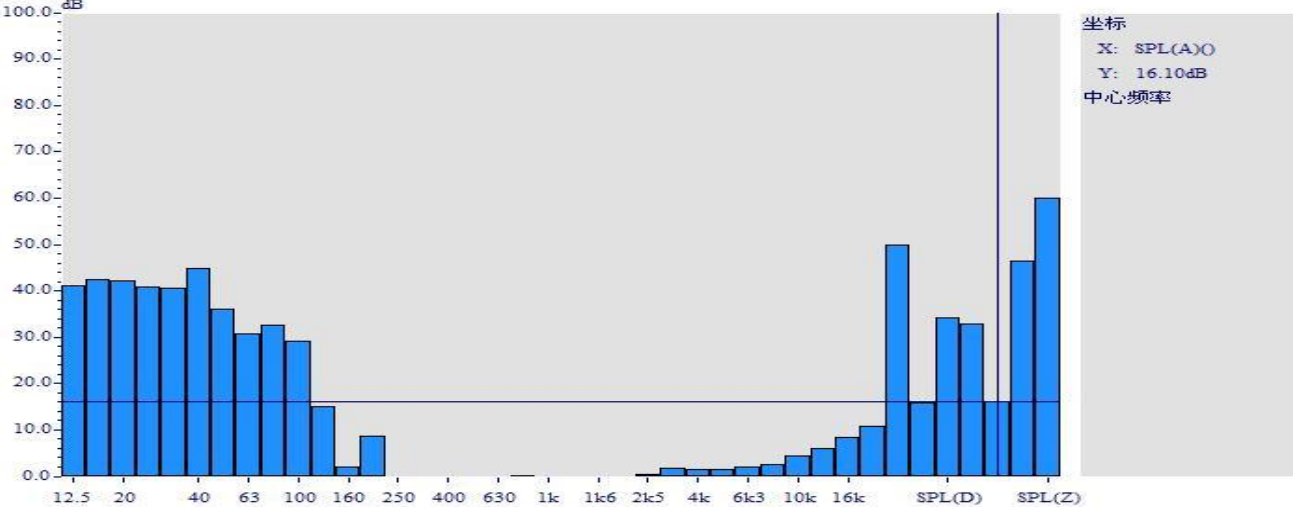
序号	mmAq	CFM	A	Watt	RPM
1	832	0	2.84	34.1	
2	689.25	4.09	4.09	49.1	
3	555.5	6.75	4.73	56.7	
4	395.5	9.96	5.29	63.5	
5	294.5	11.81	5.53	66.4	
6	218.75	12.97	5.5	66	
7	169.5	13.63	5.49	65.9	
8	0	17.48	5.43	65.2	



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: 16.1dB(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:71.50dB(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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实物图
The pictures

