



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: _____ 2304263304

产品型号 Par No. : _____ BA8060H24B

类别 Category: Fan Blower Centrifugal

认证 Certification: CE ROHS UL TUV

编号 Spec No: BA8060H24B-A231130 版次 Version: 01

样品数 Quantity: 1 PCS 日期 Date: 2024-03-14

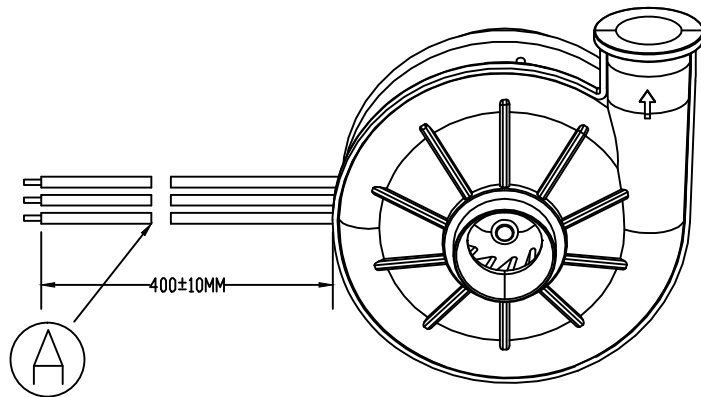
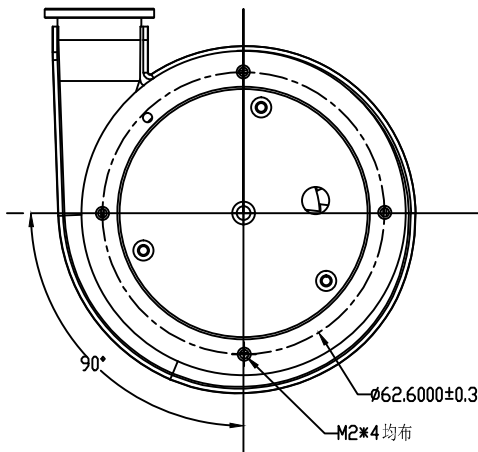
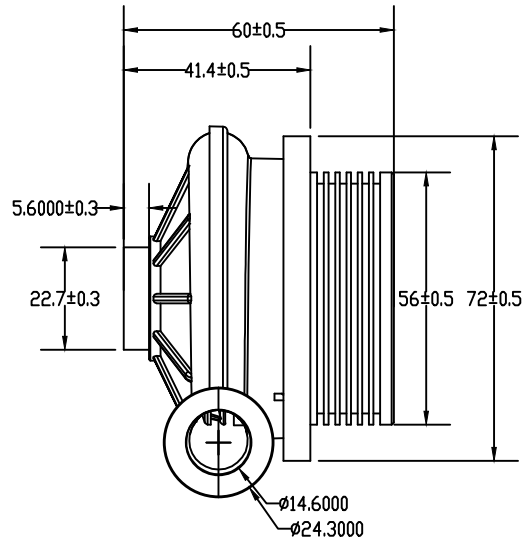
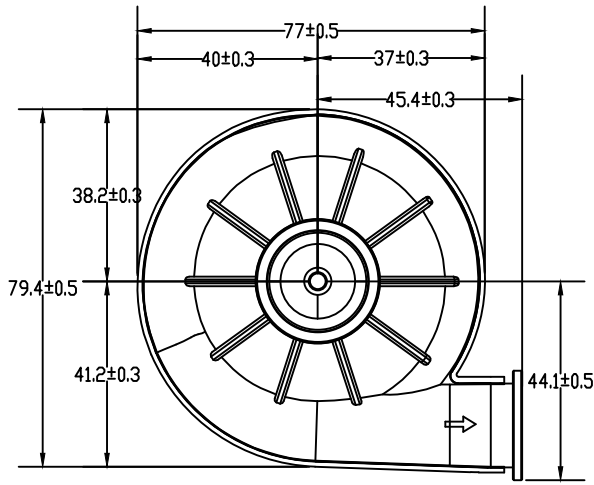
Company Stamp	CUSTOMER APPROVAL Stamp
	
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UNIT: $\frac{\text{mm}}{\text{(INCH)}}$

A: LEAD WIRE UL 1332 20AWGOR EQUIVALENT
 PIN1: WHITE WIRE---(W)
 PIN2: BLACK WIRE---(V)
 PIN3: RED WIRE---(U)

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 ZHEN							
				mm		TENKAI GROUP LIMITED							
				比例 SCALE		型号 Model NO.	BA8060H24B	图号 Drawing NO. BA8060H24B-A231130					
		公差 TOL	LINEAR (0,50] (50,100] (100,+∞)	.X ±0.10 ±0.20 ±0.30	.XX ±0.05 ±0.10 ±0.15	ANGULAR X. X.X	±0.5° ±0.1°	制图 Drawing	朱蒸蒸	日期 Date	2023.05.05	描述 Description	DC BRUSHLESS BLOWER
		It is prohibited to duplicate this document without explicit authorization or to hand it over to others for use.					检查 Check	刘良军	日期 Date	2023.05.05	材质 Material	页数 Page	1/1
							批准 Approved		日期 Date		表面 Finish	版次 Rev	A0
		1	2	3	4	5	6						

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	79X77X60	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	At 25°C
Start-up Voltage 启动电压	VDC	≤18	At 25°C
Rated Current 额定电流	Amp 安培	8.5	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	204	At Rated 在额定电压下
Rated Speed 额定转速	RPM 圈/分钟	44000±10%	AT Rated Voltage 30°C
Air Flow 风量	CFM	33.8	In Free Air 无风阻条件
Static Air Pressure 静压	mmH ₂ O	1681.3	When Air Flow=0
Noise Level 噪音	dBA	84.3	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		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
	fixed constant speed Function 恒速功能		NO
Connection Lead Type 连接方式	Lead Wire 导线型号	400mm1332#20AWG	See Page 2 见图纸
	Connector 端子	NO	Not Required
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	304g	1PCS
备注 Note			

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	6 極 6 Poles
EMC	Pass
運轉溫/濕度範圍 Operating temp. Range	溫度/temperature: -40℃~+80℃ 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 REPOPT

STARTED DATE: 2021.5.16			FINISHED DATE: 2021.7.27							
TEST CONDITIONTEST (1) VOLTAGE:24VDC (2) TEMPERATURE: 65°C	ITEM	SPECIFICATION	TEST SAMPLES				20			
	OPERATION VOLTAGE	24VDC±10%	TEST HRS/EA				800			
	CUPPENT DPAIN	MAX ≤8.5A	TOTAL TEST HRS				16000			
	SPEED	44000RPM±10%	FAILURE Q'TY				0			
	ACOUSTICAL NOISE		CONFIDENCE LEVEL				90%			
			MTBF				10440hours			
FAILURE DEFINITION	ITEM		CHECK POINT AT THE HOURS							
(1) CURRENT:= 10%/-30%of Original value	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%		
(2) RPM: 30%/-15%of Original value	FAILNO.TEST TIME(HRS)SURVIVAL Q'TY									
	ACCUMULATED FAIL RATIO									
	DESCRIPTION									
(3) NOISE Over±10% of LEVEL: origin	TEST RESULT: 1. FORMULA OF FIGURING OUT ACCELERATION FACTOR: Tu: Required Temp (25°C) Ta: Experiment Temp.(65°C) $AF = 2^{\wedge}[(Ta-Tu)]$ $= 2^{\wedge}[(65-25)/10]$ $= 16$ MTBF=[ACTUAL TEST TIME*SAMPLE Q'TY]*AF/TR/SAMPLE Q'TY MTBF=[(800*20)*16]/1.2260/20=10440HOURS					2. CONFIDENCE LEVEL: ACCORDING TO GEM TABLE90% ZERO FAILURE TR=1.2260				
	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.): 4668

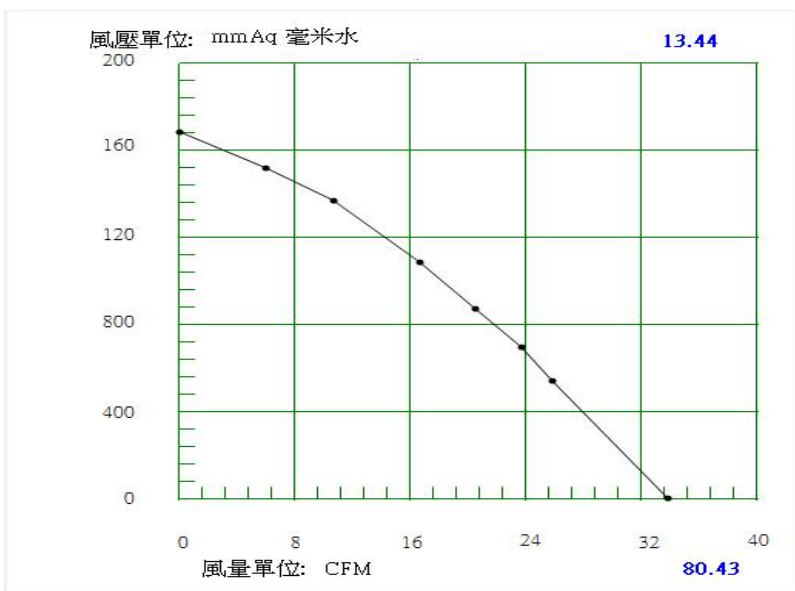
测试日期(Date) : 2021/04/06

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	44000	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)	33.8	CFM
6	最大风压 (零风量时) Max. Air Pressure(At Zero Air Flow)	1681.3	mmH ₂ O

3.P-Q 数据及曲线 P-Q Data and Curve

序号	mmAq	CFM	A	Watt	RPM
1	1681.25	0			
2	1514.25	6.02			
3	1366.5	10.72			
4	1083.25	16.66			
5	867.5	20.5			
6	692.25	23.7			
7	541	25.82			
8	0	33.79			



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:84.3dB(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

