



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: 2205092101

产品型号 Par No. : BA18089H02B

类别 Category: ☐ Fan ☒ Blower ☐ Centrifugal

认证 Certification: ☒ CE ☒ ROHS ☐ UL ☐ TUV

编号 SpecNo: BA18089H02B-A240327 版次 Version: 02

样品数 Quantity: 3PCS 日期 Date: 2025-12-24

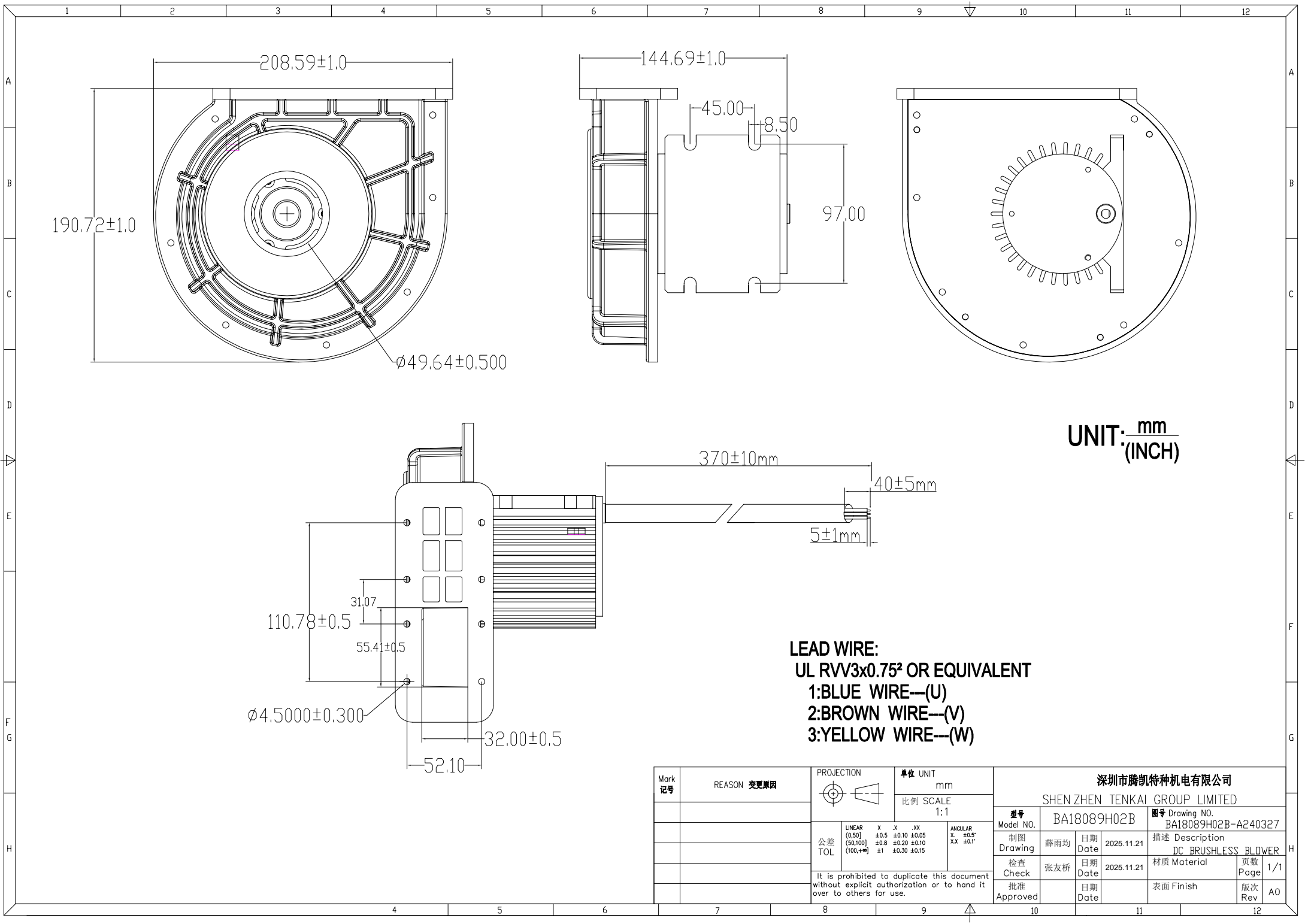
Company Stamp	CUSTOMER APPROVAL Stamp
	
制作: 薛雨均	承认:
复核: 张友桥	核准:
核准:	日期:

电话(TEL): 86-0755-23126453 传真(FAX): 86-0755-23129135

邮箱(MAIL): sales@tenkai-group.com

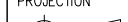
网址(WEB): [Http://www.tkfan.com](http://www.tkfan.com)

地址(ADD): 深圳市龙华区观澜格澜9路金雄达科技园C栋5楼



UNIT: mm
(INCH)

LEAD WIRE:
UL RVV3x0.75² OR EQUIVALENT
1:BLUE WIRE--(U)
2:BROWN WIRE--(V)
3:YELLOW WIRE--(W)

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						
				mm		SHEN ZHEN TENKAI GROUP LIMITED						
			比例 SCALE 1:1		型号 Model NO.		BA18089H02B		图号 Drawing NO. BA18089H02B-A240327			
			公差 TOL		ANGULAR X ±0.5° XX ±0.1°		制图 Drawing		薛雨均	日期 Date	2025.11.21	描述 Description DC BRUSHLESS BLOWER
检查 Check		张友桥					日期 Date	2025.11.21	材质 Material		页数 Page	1/1
批准 Approved							日期 Date		表面 Finish		版次 Rev	A0
		It is prohibited to duplicate this document without explicit authorization or to hand it over to others for use.										

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	209X191X145	LxWxThickness 长 宽 高
Bearing System 轴承类型	----	Two Ball Bearing	----
Rated Voltage 额定电压	VAC	220	50Hz
Operating Voltage Range 操作电压范围	VAC	180~ 240	At 25℃
Start- up Voltage 启动电压	VAC	≤180	At 25℃
Rated Current 额定电流	Amp 安培	7.4±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	1000±10%	At Rated 在额定电压下
Rated Speed 额定转速	RPM 圈/分钟	14000± 10%	AT Rated Voltage 30℃
Air Flow 风量	CFM	240.5	In Free Air 无风阻条件
Static Air Pressure 静压	mmH ₂ O	1121.69	When Air Flow= 0
Noise Level 噪音	dBA	92.2	At Rated Speed 额定转速
Polarity protection 反向保护	--	Reverse protection	
Other Spec.	Tachometer Output 转速反馈		
	Soft- restart function 软启动		
	Lock Protection 锁定保护		
	Lock Rotor Alarm 锁定报警		
	PWM Control 速度控制		
	Thermal Control 过热保护		
	Over voltage protection 过压保护		
	Over current protection 过流保护		
	fixedconstant speed Function恒速功能		
Connection Lead Type 连接方式	Lead Wire 导线型号	370mmRVV3x0.75²	See Page 3 见图纸
	Connector 端子	NO	Not Required
Life Expectancy 预期寿命	Hours 小时	10000hrs	At 25℃ 在 25℃条件下
Net Weight 净重	g 克	6320g	1PCS
备注 Note	1. 马达灌导热灌密封胶 2. 以上数据由直流无刷电机驱动器（ZM-BL2215F）测试得出		

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极 4poles
EMC	
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

SHENZHEN TENKAI GROUP

MODEL NO.

BA18089H02B

MTBF REPORT

STARTED DATE: 2020.05.16

FINISHED DATE: 2020.10.20

TEST CONDITIONTEST
(1) VOLTAGE:220VAC
(2) TEMPERATURE:
75℃

ITEM

SPECIFICATION

TEST SAMPLES

20

OPERATION
VOLTAGE

220VAC

TEST HRS/EA

800

CUPPENT
DPAIN

MAX ≤7.4A±10%

TOTAL TEST HRS

16,000

SPEED

14000RPM±10%

FAILURE Q'TY

0

ACOUSTICAL
NOISE

CONFIDENCE
LEVEL

90%

MTBF

10440hours

FAILURE DEFINITION

ITEM

CHECK POINT AT THE HOURS

Over

(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

SURVIVAL Q'TY

20

20

20

20

20

ACCUMULATED FAILURE RATIO

0%

0%

0%

0%

0%

Over

(2) RPM:
30%/-15%of

Original

value

FAILNO.TEST TIME(HRS)SURVIVAL
Q'TY

ACCUMULATED FAIL RATIO
DESCRIPTION

TEST RESULT:

1. FORMULA OF FIGURING OUT ACCELERATION
FACTOR:

Tu: Required Temp (25℃)

Ta: Experiment

AF = $2^{\wedge}[(Ta-Tu)]$

Temp.(75℃)

= $2^{\wedge}[(65-25)/10]$

=17

MTBF=[ACTUAL TEST TIME*SAMPLE

Q'TY]*AF]/TR/SAMPLE Q'TY

MTBF=[(800*20)*17]/1.3026/20=10440HOURS

2. CONFIDENCE LEVEL:

ACCORDING TO GEM
TABLE90%

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.): 6921 测试日期(Date) : 2025/12/24

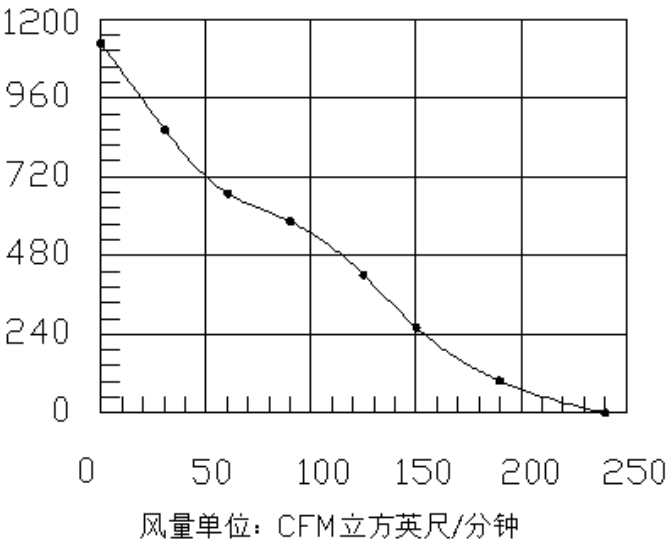
2. 测试数据:

序号 No.	项目 Item	规格 Specification	单位 Unit
1	测试电压 Test Voltage	220	VAC
2	转速 Speed	14000	RPM
3	大气压力 Barometric Pressure	761.5	mmHg
4	相对湿度 Relative Humidity	53	%
5	最大风量(零静压时)Max.Air Flow(At Zero Static Pressure)	240.50	CFM
6	最大风压（零风量时）Max. Air Pressure(At Zero Air Flow)	1121.69	mmH ₂ O

3.P-Q 数据及曲线 P-Q Data and Curve

序号	mmAq	CFM	A	Watt	RPM
1	1121.69	0			
2	865.48	30.11			
3	680.15	58.93			
4	568.27	90.38			
5	410.03	125.26			
6	267.35	149.92			
7	96.60	190.77			
8	0	240.50			

风压单位: mmAq 毫米水柱高



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 : 23.8dB(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:92.2dB(A); 测试距离 Test distance : 1 meter	
倍频段频谱图 Octave-Band(1m)	
坐标 X: SPL(A)(Hz)	
测试结果 Test Result: Leq:23.8dB(A); 背景噪音 Background Noise	
坐标 X: SPL(A)(Hz)	

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实物图
The pictures

