



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: _____

产品型号 Par No. : _____ BA7060H24B

类别 Category: ☐ Fan ☒ Blower ☐ Centrifugal

认证 Certification: ☒ CE ☒ ROHS ☐ UL ☐ TUV

编号 SpecNo: _____ BA7060H24B-C2101 版次 Version: _____ 01

样品数 Quantity: _____ 1PCS 日期 Date: _____ 2021-12-24

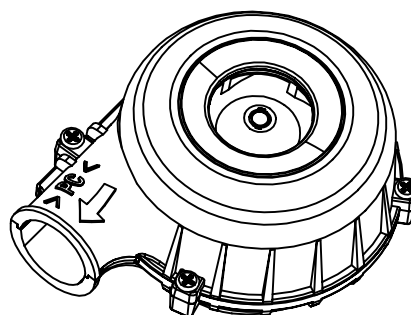
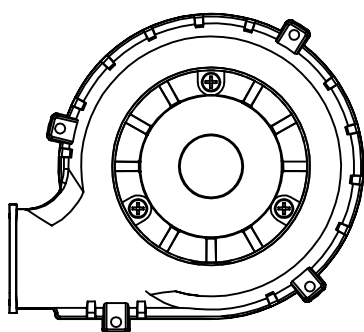
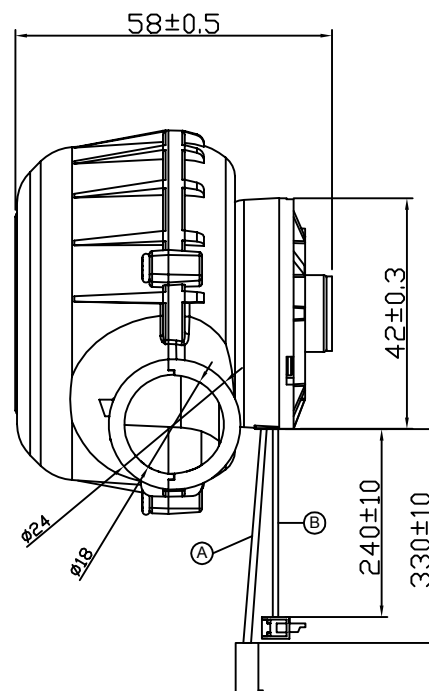
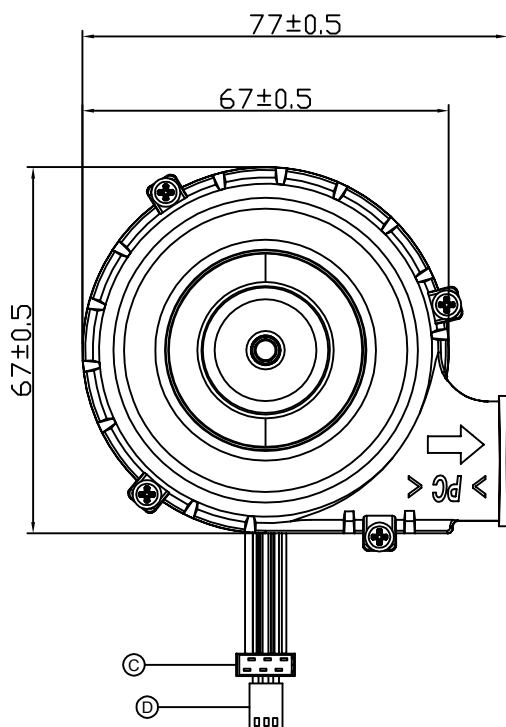
Company Stamp	CUSTOMER APPROVAL Stamp
	
制作: 朱蒸蒸	承认:
复核: 张栋	核准:
核准:	日期:

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



A.LEAD WIRE:
UL3266#22AWG OR EQUIVALENT
PIN1: BLACK WIRE
PIN2: RED WIRE
PIN3: BLUE WIRE



B.LEAD WIRE:
UL2651#28AWG OR EQUIVALENT
PIN1: RED WIRE
PIN2: GRAY WIRE
PIN3: GRAY WIRE
PIN4: GRAY WIRE
PIN5: GRAY WIRE
PIN6: GRAY WIRE



CONNECTOR ASSIFMENT	COLOUR	FUNCTION
1	BLACK	V
2	RED	W
3	BLUE	U

CONNECTOR ASSIFMENT	FUNCTION
1	HALL1
2	GND
3	NTC (E)
4	+UH
5	HALL2
6	HALL3

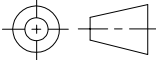
C.HOUSING:AMP MICROMATCH 215083-6

D.HOUSING:MOLEX 22-01-3037

E.NTC 100K CONECTED TO GND P/N:NB12P00104JBB

(REFER APPENDIX FOR THERMISTOR CHARACTERISTIC)

F.THIS PRODUCT IS RoHS COMOLIAINT

Mark 记号	REASON 变更原因	PROJECTION 		单位 UNIT mm	深圳市腾凯特种机电有限公司 SHEN ZHEN TENKAI GROUP LIMITED								
				比例 SCALE 1:1	型号 Model NO.		BA7060H24B		图号 Drawing NO. BA7060H24B				
		公差 TOL	LINEAR .X .XX (0,50] ±0.10 ±0.05 (50,100] ±0.20 ±0.10 (100,+∞] ±0.30 ±0.15		ANGULAR X. ±0.5° X.X ±0.1°	制图 Drawing	朱蒸蒸	日期 Date	2021.12.21	描述 Description DC BRUSHLESS BLOWER			
			It is prohibited to duplicate this document without explicit authorization or to hand it			检查 Check	张栋	日期 Date	2021.12.21	材质 Material		页数 Page	1/1
						批准 Approved		日期 Date		表面 Finish		版次 Rev	A0

規格參數

SPECIFICATION

Item 项目	Value 值	Condition 条件 Based on our driver 基于我们的驱动
Motor Type 电机类型	BLDC 3 phase /6 Pulse/4 Pole 3 相 6 槽 4 极	
Bearing Type 轴承类型	Ball bearing 滚珠轴承	
Rotation Direction 旋转方向	Counterclockwise 逆时针	View from inlet plate side 从进风口看
Operating Voltage Range 操作电压	5~30V	
Rated Voltage 额定电压	24V	
Input current 输入电流	1.3A	Free Air& 10 minutes later 出风口完全放开,持续运行 10 分钟后数值
Input power 输入功率	31.2W	Free Air 出风口敞开
Speed 转速	32000rpm	Free Aire 出风口完全放开
Max Pressure 最大压力	48cmH2O	Air flow is zero 完全堵住出风口
Max airflow 最大流量	533L/min	Pressure is zero 出风口完全敞开
Coil Resistance 线圈阻抗	1.96 Ω	1v@1khz@without rotor@between 2 phase 1v@1khz@不带转子@两相之间
Coil Inductance 线圈感抗	130 μ H	1v@1khz@without rotor@between 2 phase 1v@1khz@不带转子@两相之间
Lead Wire 导线型号	UL3266#22AWG @ UL2651#28AWG	
Connector 端子	AMP MICROMATCH 215083-6 MOLEX 22-01-3037	
Life Expectancy 预期寿命	10000 hrs	
Net Weight 净重	243.3g	
Dimension 尺寸	77x67x57mm	
Sensor supply range 霍尔电压	4.5-24V	

Operating Point 1**工作点一**

Input Voltage 输入电压	24V	
Input Current 输入电流	0.07A	With 4mm air valve,@ 4cmH2O 带 4mm 气阻, 内压 4cmH2O
Speed 转速	10500rpm	With 4mm air valve,@ 4cmH2O 带 4mm 气阻, 内压 4cmH2O
Pressure 压力	4cmH2O	With 4mm air valve 带 4mm 气阻
Airflow 流量	12L/min	With 4mm air valve 带 4mm 气阻
Airflow 流量	84L/min	Air free 无气阻
Noise 噪音	31dB	BLOWER PLACE ON 1mm THICK RUBBER PLATE AND 10cm THICK FOAM MATERIAL. THE INLET AND OUTLET OF BLOWER ARE BLOCKED. MICROFONE IN 0.5M DISTANCE ABOVE THE CENTER ON THE PLUG SIDE AT NOMINAL SPEED OF ABOUT 10500RPM. 转速调至 10500rpm, 堵住风机进风口和出风口,在风机进风口垂直距离 50cm 处拾音。环境噪音小于 26dB。

Operating Point 2**工作点二**

Input Voltage 输入电压	24V	
Input Current 输入电流	0.16A	With 4mm air valve,@ 10cmH2O 带 4mm 气阻, 内压 10cmH2O
Speed 转速	17000rpm	With 4mm air valve,@ 10cmH2O 带 4mm 气阻, 内压 10cmH2O
Pressure 压力	10cmH2O	With 4mm air valve 带 4mm 气阻
Airflow 流量	20.4L/min	With 4mm air valve 带 4mm 气阻
Airflow 流量	152L/min	Air free 无气阻
Noise 噪音	38dB	BLOWER PLACE ON 1mm THICK RUBBER PLATE AND 10cm THICK FOAM MATERIAL. THE INLET AND OUTLET OF BLOWER ARE BLOCKED. MICROFONE IN 0.5M DISTANCE ABOVE THE CENTER ON THE PLUG SIDE AT NOMINAL SPEED OF ABOUT 17000RPM. 转速调至 17000rpm, 堵住风机进风口和出风口,在风机进风口垂直距离 50cm 处拾音。环境噪音小于 26dB。

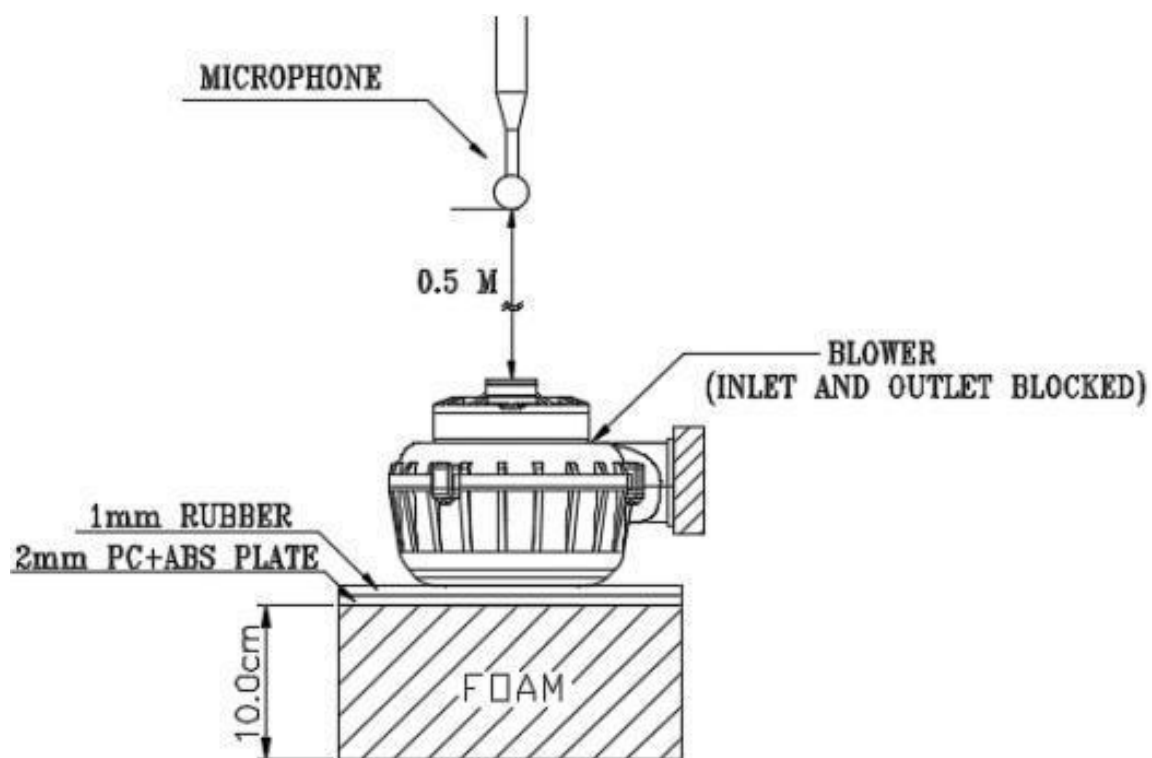
Operating Point 3**工作点三**

Input Voltage 输入电压	24V	
Input Current 输入电流	0.25	With 4mm air valve,@ 15cmH2O 带 4mm 气阻, 内压 15cmH2O
Speed 转速	21000rpm	With 4mm air valve,@ 15cmH2O 带 4mm 气阻, 内压 15cmH2O
Pressure 压力	15cmH2O	With 4mm air valve 带 4mm 气阻
Airflow	26.3L/min	With 4mm air valve

流量			带 4mm 气阻
Airflow 流量	192L/min		Air free 无气阻
Noise 噪音	42dB	BLOWER PLACE ON 1mm THICK RUBBER PLATE AND 10cm THICK FOAM MATERIAL. THE INLET AND OUTLET OF BLOWER ARE BLOCKED. MICROFONE IN 0.5M DISTANCE ABOVE THE CENTER ON THE PLUG SIDE AT NOMINAL SPEED OF ABOUT 21000RPM. 转速调至 21000rpm, 堵住风机进风口和出风口,在风机进风口垂直距离 50cm 处拾音。环境噪音小于 26dB。	
Operating Point 4 工作点四			
Input Voltage 输入电压	24V		
Input Current 输入电流	0.35A		With 4mm air valve,@ 20cmH2O 带 4mm 气阻, 内压 20cmH2O
Speed 转速	23000rpm		With 4mm air valve,@ 20cmH2O 带 4mm 气阻, 内压 20cmH2O
Pressure 压力	20cmH2O		With 4mm air valve 带 4mm 气阻
Airflow 流量	30.5L/min		With 4mm air valve 带 4mm 气阻
Noise 噪音	45dB	BLOWER PLACE ON 1mm THICK RUBBER PLATE AND 10cm THICK FOAM MATERIAL. THE INLET AND OUTLET OF BLOWER ARE BLOCKED. MICROFONE IN 0.5M DISTANCE ABOVE THE CENTER ON THE PLUG SIDE AT NOMINAL SPEED OF ABOUT 23000RPM. 转速调至 23000rpm, 堵住风机进风口和出风口,在风机进风口垂直距离 50cm 处拾音。环境噪音小于 26dB。	
Operating Point 5 工作点五			
Input Voltage 输入电压	24V		
Input Current 输入电流	0.46A		With 4mm air valve,@ 25cmH2O 带 4mm 气阻, 内压 25cmH2O
Speed 转速	27500rpm		With 4mm air valve,@ 25cmH2O 带 4mm 气阻, 内压 25cmH2O
Pressure 压力	25cmH2O		With 4mm air valve 带 4mm 气阻
Airflow 流量	35.2L/min		With 4mm air valve 带 4mm 气阻
Noise 噪音	49dB	BLOWER PLACE ON 1mm THICK RUBBER PLATE AND 10cm THICK FOAM MATERIAL. THE INLET AND OUTLET OF BLOWER ARE BLOCKED. MICROFONE IN 0.5M DISTANCE ABOVE THE CENTER ON THE PLUG SIDE AT NOMINAL SPEED OF ABOUT 27500RPM. 转速调至 27500rpm, 堵住风机进风口和出风口,在风机进风口垂直距离 50cm 处拾音。环境噪音小于 26dB。	

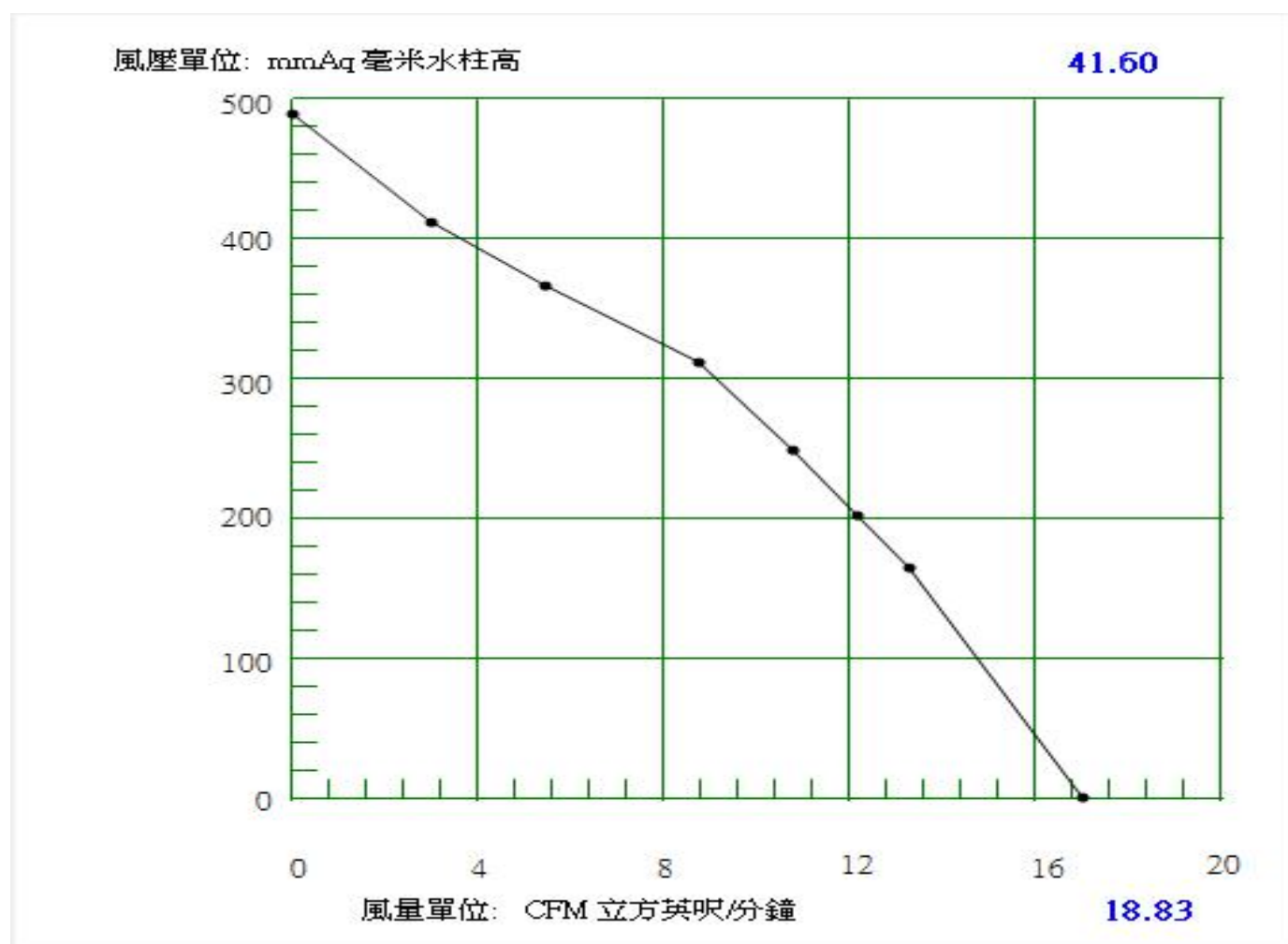
噪音测试方法图

Noise Test Pattern

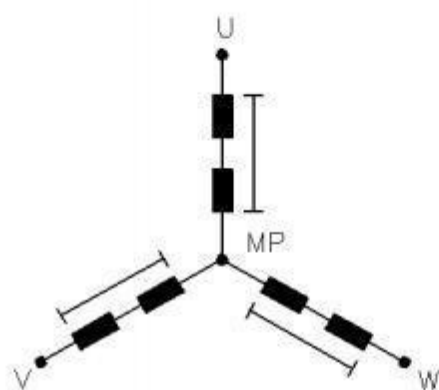
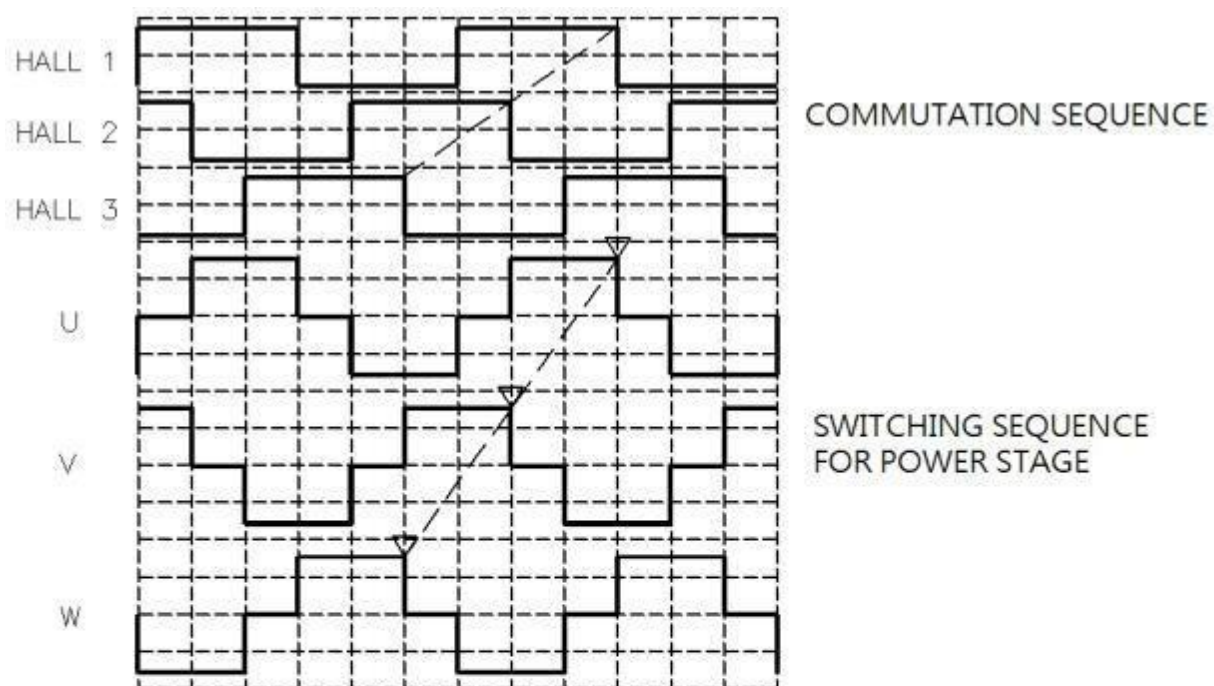


最大 PQ 图

P & Q CURVE



霍尔图



热敏温度图

THERMISTOR CHARACTERISTIC

T℃	R Nom(Ω)	Tol. (±%)	T℃	R Nom(Ω)	Tol. (±%)
-40			55		
-35			60		
-30			65		
-25			70		
-20			75		
-15			80		
-10			85		
-5			90		
0			95		
5			100		
10			105		
15			110		
20			115		
25			120		
30			125		
35					
40					
45					
50					

实物图

The pictures

