

## 产品承认书 (Specification for approval)

客户名称 (Customer Name): \_\_\_\_\_

产品型号 (Product Model): MDA4020H12S

客户料号 (Customer part number): \_\_\_\_\_

样品编号(Sample ID): \_\_\_\_\_

送样日期(Issue date): 2022-04-22

版本号码(Issue Number): T1

确认栏					
品保部(QA)			研发部(R&D)		
测试 (Test by)	审核 (check by)	核准 (Approval by)	制作 (Edit by)	审核 (Check by)	核准 (Approval by)

客户承认栏(Customer Approved)			
承认章 (Admitted that chapter)	测试 (Test by)	审核 (Check by)	核准 (Approval by)

## 2. 规格说明 (Specifications) :

项目 (Item)	技术参数 (Specification/Description)
额定电压 (Rated Voltage)	DC 12 V
工作电压 (Operation Voltage)	DC 7-13.5 V
启动电压 (Start-Up Voltage)	DC 7 V (Power ON/OFF)
转速 (Rated Rotate Speed)	6000±10% RPM (Rated Voltage, at25°C, To record speed after fan running normal, This time about 3~5 minutes)
脉宽调速 ( Pulse Width Modulation) (Rated Voltage)	NO (Rated Voltage, 25°C PWM test method from 0% to 100% duty cycle,)
运转电流 (Rated Current)	0.15A
功率 (Rated Power)	3 W
标签电流 (Label current)	0.25 A
风量 (Air Flow)	2.75 CFM,
风压 (Air Pressure)	5.22 mmH <sub>2</sub> O
噪音 (Noise Level)	35.7 dB(A),
轴承 (Bearing)	ONE SLEEVE Bearing
平均寿命 (Life Expectancy)	10000Hrs (1. Rated Voltage, 40°C, 15%~65%RH) (2. Speed Fast 15%, Noise Add 3 dB(A))
锁死保护: (Locked protection)	NO
信号输出 (Output Signal)	NO
极性保护: (Polarity Protection)	YES
环保类型 ( GP Type)	NO
外框 (Housing)	PBT
扇叶 (Impeller)	PBT
工作温度 / 湿度 Operating Temperature And Relative Humidity )	-10°C ~70°C, 5%~90% RH
贮存温度 / 湿度 ( Storage Temperature And Relative Humidity )	-40°C ~75°C, 5%~95% RH (If the fans stored for more than 6 months, please testing before using)
绝缘电阻 (Insulation Resistance)	Min 10M ohm between internai stator and lead wire(+) at 500V DC
绝缘强度 (Dielectric Strength)	5mA max at 600V DC 50Hz 1 minute between frame and terminal (+).
端子线	2.54 正端框外长: 150mm

### 3.标准说明(Application Notice)

#### 1. 范围 (SCOPE)

此文件说明交流无刷风扇在机械和电气的特性 (This document defines mechanical & electrical characteristics of DC Brushless Fan)。

#### 2. 尺寸与结构 (DIMENSIONS & STRUCTURE)

所有尺寸、旋转方向和气流按照所附图纸上说明 (All dimensions, direction of rotation and air flow were specified as per drawing attached.)

#### 3. 特性和说明 (CHARACTERISTIC & DEFINITION)

- 3.1 所有比率特性均按随附数据单上说明 (All rated、 characteristic were specified as per data sheet attached)。
- 3.2 电流: 电流在室温(+25℃)下持续旋转 3 分钟后测量 (Rated Current: Current at room temperature (+25 °C) under continuous rotation is measured after 3 minutes)
- 3.2 转速: 速率在室温(+25℃)下持续旋转 3 分钟后测量 (Rated Speed: Rate at room temperature (+25 °C) under continuous rotation is measured after 3 minutes。)
- 3.4 起动电压: 打开开关“ON”后, 能够起动风扇运作的电压 (Start-up Voltage: The voltage which is able to start the fan operates by switch “ON”)。
- 3.5 输入功率: 输入功率在持续旋转 3 分钟后测量 (Input Power: Input Power shall be measured after 3 minutes of continues rotation at rated voltage。)
- 3.6 锁定电流: 可以锁机的风扇, 锁定电流在清新空气中锁机 3 分钟后测定 (Locked rotor current: The fan can be locked, The lock current locked in the fresh air after three minutes will be tested)。
- 3.7 空气流量数据及压力数据测定根据“AMCA210 标准”或者 DIN24163 规则, 该数据测定在双压力仓进行, 并需测定压力仓各边所承受的压力数据 (Air Flow & Static Pressure: The air flow and static pressure should be determined in accordance with AMCA210 standard or DIN24163 specification in a double chamber testing with intake side measurement)。
- 3.8 噪音标准: 噪音标准测试参照 ISO7779 标准, 测量在隔音室内进行, 将麦克风置于风扇进风口面 1 米处 (Noise Level: The measurement of noise level is carried to the reference of ISO7779 in an anechoic chamber with the microphone positioned 1 meter from the air intake. Testing fan shall be hung in clean air。)

#### 4. 电气机械测试 (Electrical & Mechanical Test)

##### 4.1 转体锁定保护 (Locked Rotor Protection)

- 4.1.1 小电流或者带 Auto-start 功能的风扇, 在通电旋转状态将风扇扇叶锁定, 持续 72 小时之后, 松开被锁定扇叶, 风扇立即自动重转, 证明风扇无异常。(To low current fan or auto-start fan, No damage shall be found after 72 hours at condition of rotor locked, The fan automatic rerun as soon as constraint has been released)。
- 4.1.2 大电流或不带 Auto-start 功能的风扇, 不可长时间锁定, 否则风扇会过热损坏。(To high current fan or no auto-start fan ,It can't be locked or the fan will overheat and be damaged)

##### 4.2 极性保护 (Polarity Protection)

能够承受导线正接与反接 (be capable of withstanding if reverse connection for postive and negative leads。)

##### 4.3 自由跌落 (Free Drop Test)

单体由 600mm 高空跌到 30mm 厚的木板上,风扇 6 个表面中的任何一面和三个角均经得起一次跌落试验,并确认无损伤。(The product drops from the high of 600mm to the wood board of 30mm. Any one of the 6 faces and any three of the corners could withstand once drop test, and also no damage will be found.)

#### 5.0 平均寿命 (Life Expectancy)

在指定温度下持续工作后, 90%能正常运转即可估算其平均使用寿命 (The continuous duty life at given temperature after which,90% of testing units shall still be running)。

#### 6.0 正确取风扇 (Holding fan)

6.1 提拿风扇时, 拿住框的边缘, 请不要提导线, 可能造成导线断裂 (Please take the frame of fan, not allow to take lead wire in order to prevent it break off.)

6.2 不要用力过猛握住风扇框的边缘, 可能造成扇框破裂(Don't hold frame violently or it will be broken.)

6.3 不要撞击扇叶,按扇叶, 或拉拔扇叶, 可能造成风扇损坏, 抖动及异音(Don't shock, press or pull the impeller and it may cause noise and shake)

6.4 避免风扇掉地及敲击, 如果这样, 请勿使用(Don't use the fan which was dropped and shocked)

### 尺寸与结构 (Dimensions & Structure):

