



### 1.General Specification

项目 Item	描述 Description	测试条件 Condition
1-1. 外形尺寸 Dimension	92x92x38mm	
1-2. 轴承 Bearing Type	双滚珠轴承 Two Ball Bearing	
1-3. 额定电压 Rated Voltage	DC24V	
1-4. 操作电压 Operating Voltage	DC 15V~27V	
1-5. 启动电压 Start-up Voltage	15V	25°C Power ON/OFF
1-6. 额定电流 Rated Current	0.41(Max:0.47)A	A.At Rated Voltage B.25°C
1-7. 额定功率 Rated Power	9.84(Max:11.28)W	C.65%RH D.Measured after 5minutes
1-8. 额定转速 Rated Speed	5000rpm/min ± 10%	
1-9. 最大风量 Max. Air Flow	106.68( Min:96.02)CFM	A.PQ Measurement Apparatus B.Standard: AMCA
	3.02( Min:2.72)m <sup>3</sup> /min	
1-10. 最大静压 Max.Static Pressure	14.95( Min:12.11)mm-H <sub>2</sub> O	C.Rated Voltage D.Rated Current
	0.59(Min:0.48)inch-H <sub>2</sub> O	
1-11. 噪音 Noise level	50.50(Max:53.03)dBA	A.Rated Voltage B.Mute Room C.Distance:1M D.Background Noise: <18dB
1-12. 寿命预估 Life Expectance	70000hrs at 40°C 相对湿度 15%~65%RH	E.L10 Failure Criteria: F.A.Speed:Under15% of original value G.B.Current:Over15% of original value H.C. Fan not run
1-13. 马达极数 Pole	4 Poles	
1-14. 旋转方向 Rating Direction	Anticlockwise	From the blades side/从扇叶面
1-15.其他特点Other Features	Tachometer Output 测速计输出	○
	Lock Rotor Alarm 锁定报警	●
	LD Rotor Alarm 寿命告警	○
	Auto start 自动重启	●
	Soft Start 软启动	○
	Speed Control Mode 速度控制模式	○
	Protection level 防护等级	○

## 2. Electrical Specification

项目 Item	条件 Condition
2-1. 锁定扇叶保护功能 Locked Rotor Protection	○ 安规条件 Safety Condition
	● 额定电压下风扇被锁定 1-3 秒时，自动断电，并在 2 至 6 秒内自动尝试启动，锁住扇叶 72 小时无损坏。Auto power off after locked at rated voltage for 1-3sec. And then circuit attempt to restart in 2 to 6 sec, There is no damage after 72hours locking.
2-2. 极性保护 Polarity Protection	● Vcc 与 GND 反接时，不导通 Open circuit when Vcc&GND are exchanged
	○ Vcc 与 GND 反接时，5 秒内不烧毁 Circuit won't be burned within 5seconds when Vcc&GND are exchanged
2-3. 绝缘阻抗 Insulation Resistance	At least 10MΩ at 500 VDC between housing and both lead wires
2-4. 绝缘耐压 Dielectric strength	Withstand 500 VAC 1 minute 1mA between housing and both lead wires

## 3. Specification of Main Material

3-1. 外框材质 Frame	PBT UL94V-0		
3-2. 扇叶材质 Propeller	PBT UL94V-0		
3-3. 绝缘架 Bobbin	PBT UL94V-0		
3-4. 导线 Lead wires	Red(+), Black(-), White(RD) UL1007#22AWG, 300±5mm		
3-5. 端子 Connector	None		
	3-6 商 标 Label Marki ng	(1) 型号/Model No:	D3615N-05W-B95
		(2) 额定电压 /Rated Voltage:	DC 24V
		(3) 安规电流 /Rated Current:	0.41A
		标签尺寸/Label Size	Φ35
		(4) 安规 /Safety Approvals	CE TUV
		(5) 生产代码 : Production code	N0

## 4. Environmental Specification

项目 Item	条件 Condition
4-1. 运转温度，湿度范围 Operating Temp. Humidity Range	Temperature: -10~+70℃
	Humidity :15%~90%RH
4-2. 保存温度，湿度范围 Storage Temp. Range	Temperature: -40~+85℃
	Humidity :15%~90%RH

## 5. RD (Rotation Detection) 运转状态监测，堵转报警：

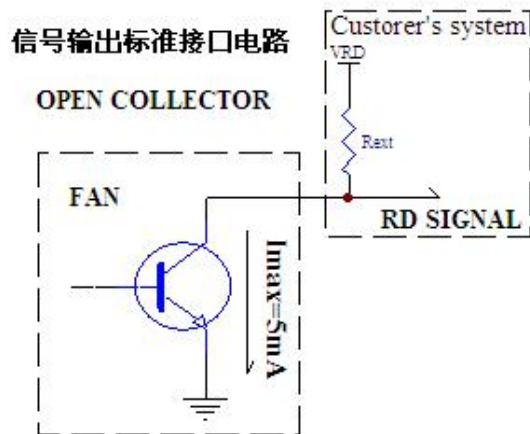
RD: 运转时信号引脚输出低电平，转子堵转时输出高电平，外部设备通过监测高低电平来分辨风扇是否处于运转还是停转。

RD: When running, output low level; when locked, output high level; External equipment will distinguish the fan is working or not through the inspection of high and low level.

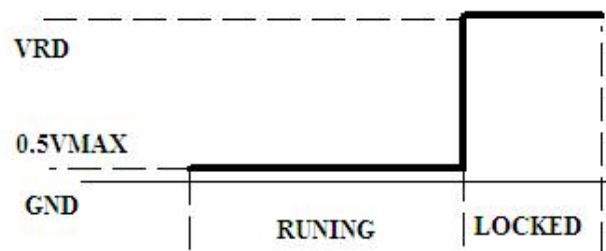
### 5-1. RD 输出电路为集电极开路模式 (RD OUTPUT CIRCUIT---OPEN COLLECT MODE)

### 5-2. 规格条件 (SPECIFICATION) :

$$VRD = 14V_{max} \quad R_{ext} (\min) = VRD / I_{max} \quad I_{max} = 5mA \quad V_{ce} = 0.5V_{max}$$



RD波形示意图：



Note:

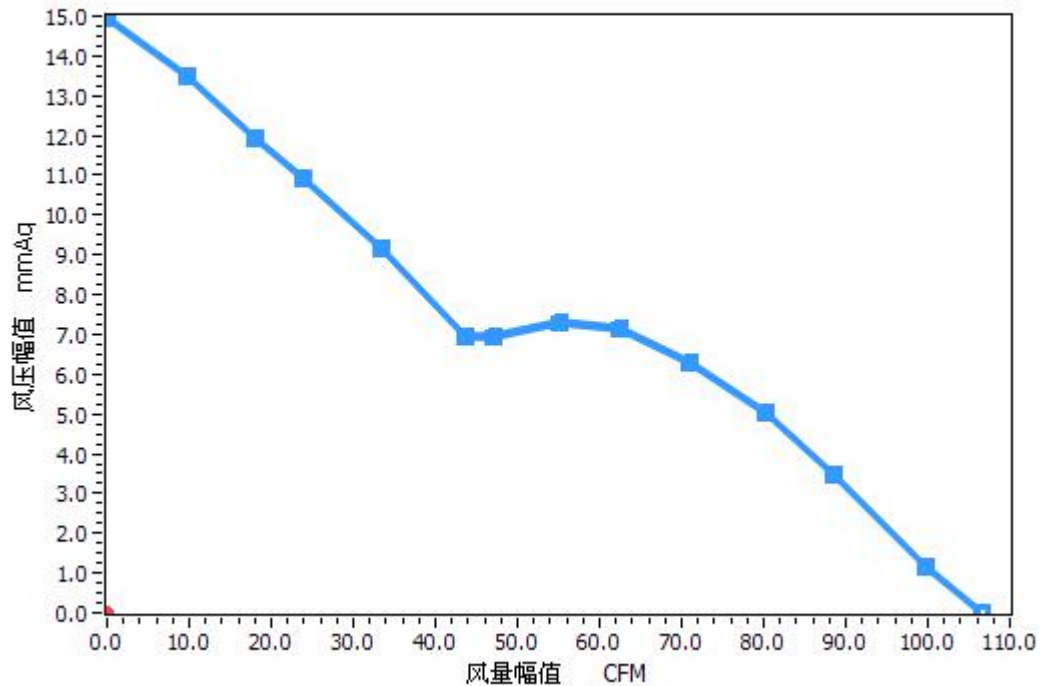
5-2-1. RD 信号导线不能接触“+”和“-”引线

RD signal wire can not contact with the "+" and "-" lead wire

### 6.P-Q特性曲线测试(P-Q Characteristic curve test):

测试条件及方法 ( Test conditions and methods)	
测试方法 (Testing Method ) : 恒定电压测试 Constant Voltage	
大气压力 (Barometric Pressure) : 752.4 mmHg	额定电压 At Rated Voltage
相对湿度 (Relative Humidity) : 66.825%	测试温度 (Temperature) : 25°
测试数据 (test data ) : Max Ps :14.95 mmAq Max Flow Rate :106.68CFM	

### P-Q Curve (PQ曲线图)



### 7. Noise Test (噪音测试)

测试条件 Test Condition	测试方法 Test Method
1. 温度 Temperature: 26 °C	1. 测试位置 Test Position: 180°
2. 湿度 Humidity: 62 %RH	2. 测试距离 Test Distance: 1.0M From the fan intake
3. 额定电压 At Rated Voltage:24V DC	3. 背景噪音 Background Noise: 14.56dB(A)
4. 额定转速 At Rated Speed: 5000 RPM	4. 测试依照标准 IS03745执行 This test executes to IS03745 standard
测试设备 Test Equipment: AW6269双通道噪音频谱分析仪 AW6269 double channels noise Spectrum Analyzer	
测试结果 Test Result: 噪音:50.50分贝; Leq:50.50dB(A)	



毀。

Please do not touch the impeller with the pressure and never bring the fan with lead wire. The bearing and lead wire may be damaged.

9-4. 本产品不保证因粉尘、水滴、小虫进入，而影响寿命与不良品产生。

No guarantee on the products against the safety problem or failure caused by powder dust, drop of water or insect.

9-5. 如有任何资料及文件与此份资料不同，将以此份资料为主要参考。

If there is any data or related documentation different from this data sheet. This data sheet is the principle reference.

9-6. 请勿在可燃性气体与任何有害环境中使用。

Please do not use the fan in the environment of corrosive gas or liquid or any detrimental gas.

9-7. 组装风扇时，请特别注意，因共振或振动产生的噪音。

During the installation of the fan, please pay substantial attention to possible noise caused by resonance vibration and shock.

9-8. 当搬运或作业中，风扇如从 60cm 的高度落下，将会对叶片的平衡产生若干影响，特别是滚珠轴承避免掉落。

It is very important to notify that avoid to drop from 60cm height when in any movement or operation, it will impact the balance of blade. Especially ball bearing structure is avoided to drop down.

9-9. 锁外壳之螺丝扭力不得超 4Kgf。

The torque of the screw which locked the frame should not exceed 4 Kgf.

9-10. 当风扇在运转时，请不要触摸叶片，这样非常危险，容易伤害到您的手指。

Please don't touch the blade when the fan at full speed running, be careful your fingers!