

产 品 规 格 书

PRODUCT SPECIFICATION

客户名称Customer:

产品名称 Name : 后向离心风机

产品型号Model: EC102/35E3G01-B310/70A1-01

产品版本 Version: V0

编制 Edit: 王少宇 2022.05.14

审核Auditing: 冯厚攀 2022.05.14

批准Approval: 李 博 2022.05.14

一.总则 General

本规格书主要描述EC后向离心风机的技术数据、机械性能、电气性能、环境与试验、特性曲线、外形图、接线示意图和使用注意事项等。

执行标准:

GB 12350--2009 《小功率电动机的安全要求》

GB/T 21418-2008 《永磁无刷电动机系统通用技术条件》

JB/T 10563-2006 《一般用途离心通风机技术条件》

This specification defines the general data, mechanical, electrical characteristics, environment and experiment, performance curve, Outline Drawing and precautions of the EC brushless external rotor motorized backward curved centrifugal fan and so on.

Standard:

GB 12350-2009 《Safety requirements of small power motors》

GB/T 21418-2008 《General specification for permanent magnet brushless motor system》

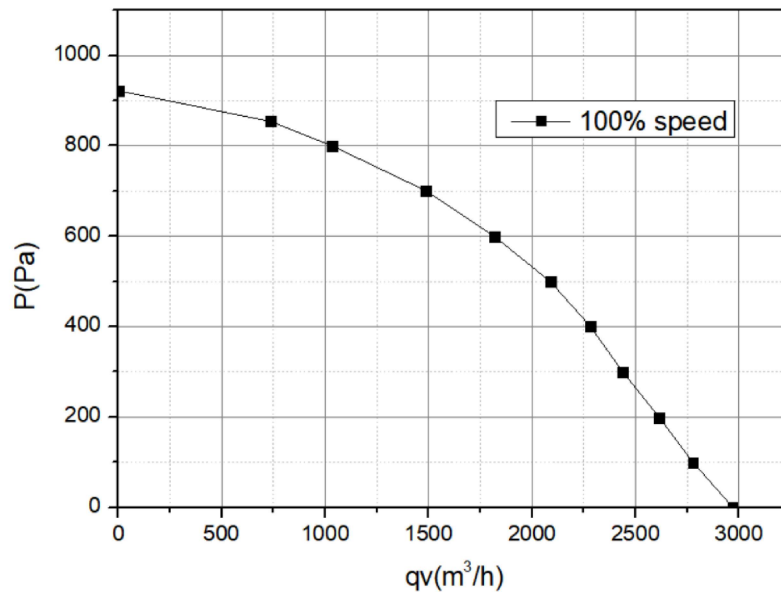
JB/T 10563-2006 《General technical requirement for general centrifugal fan》

二、技术数据 General Data

No.	名称 Name	参数 Parameter
2.1	最大风量 Max Air Flow	2970 m ³ /h
2.2	额定转速 Rated Speed	2600 r/min
2.3	输入功率 Input Power	450W
2.4	额定电压 Rated Voltage	230V
2.5	工作电压 Operating Voltage	200-277 VAC
2.6	启动电压 Start Voltage	≤199VAC
2.7	额定电流 Rated Current	≤2.7A
2.8	噪 音 Noise Level	≤83dB(A)
2.9	转 向 Direction	CW(seen on rotor of motor)
2.10	绝缘等级 Insulation Class	F
2.11	调速功能 Speed Control	0~10VDC & PWM
2.12	接地电阻 Grounding Resistance	≤0.1 Ω

No.	名称 Name	参数 Parameter
2.13	耐电压 Withstand voltage	试验电压: 1500VAC 50Hz 跳闸电流: 10mA 持续时间: 60 s Voltage:1500VAC 50Hz Tripping current:10mA Time: 60 s
2.14	绝缘电阻 Insulation Resistance	试验电压: 500VDC 电阻: $\geq 50M\Omega$ Voltage:500VDC Resistance: $\geq 50M\Omega$
2.15	保护功能 Electrical Protection	欠压保护 Undervoltage protection 过压保护 Overvoltage protection 过流保护 Overcurrent protection 堵转保护 Locked rotor protection 自动重启 Automatic restart capability 软启动 Soft start
2.16	防护等级 IP Class	IP44
2.17	反馈信号 Signal Feedback	FG信号: 开漏输出, 1个波形/转 FG sign:open-drain output, 1 pulses/R
2.18	电压输出	+10VDC
2.19	RoHS	所有原材料符合 RoHS 要求. All the material meets RoHS standard.
2.20	叶片颜色 Impeller Color	银白色 Silver
2.21	轴承 Bearing	深沟球轴承 Deep groove ball bearings
2.22	净重 Weight	6.5Kg
2.23	包装方式 Package	纸箱+木制托盘 Carton+ pallet
2.24	使用环境温度 Operating Temperature	-25℃ to 60℃
2.25	使用环境湿度 Operating Humidity	5% to 90% RH

三、特性曲线和铭牌 Performance curve and Rating plate



WEIGUANG® EC102/35E3G01-B310/70A1-01

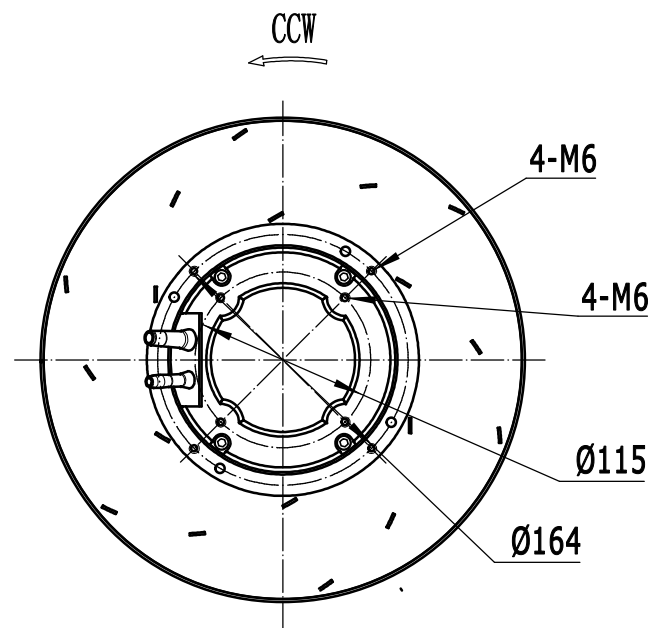
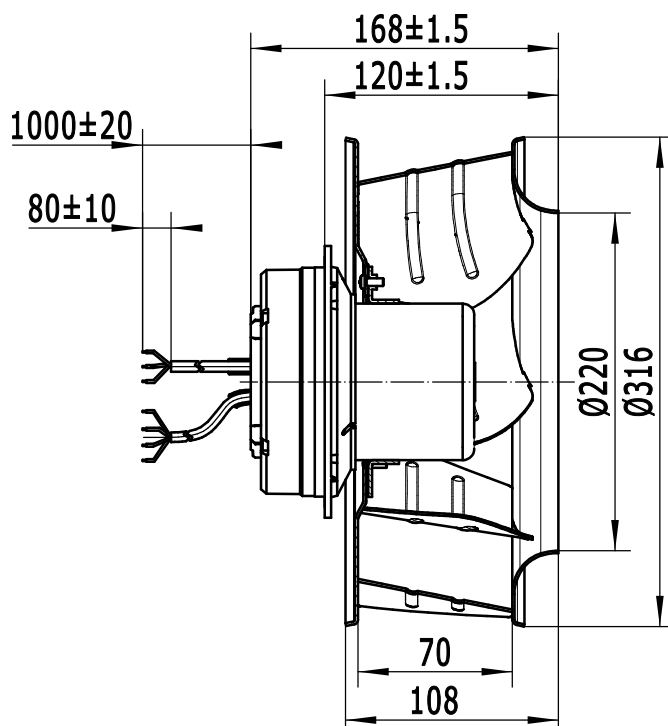
230V 50/60Hz 357/450W 2600r/min CL.F IP44

Bro:L Blu:N Yel-Gre:PE

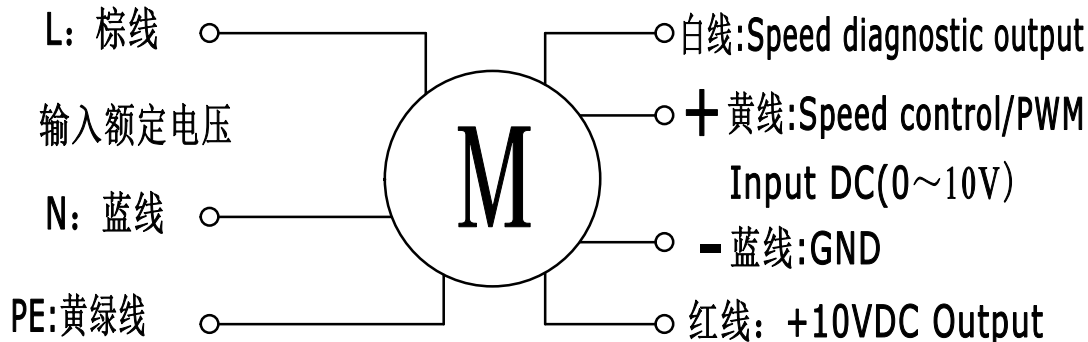
Red:+10V Blu:GND Whi:Tach output Yel:0~10VDC/PWM



四、外形图Outline Drawing



五、接线示意图 Connection Diagram



六、使用注意事项 Precautions

- 1、风机黄绿双色线必须有效接地才能通电运行，高压危险，防止未接地而导致触电或影响运行。
 - 2、风机的红色、黄色、蓝色和白色线不允许接入高压交流电源，防止烧坏风机。
 - 3、白色信号线禁止直接连接红色+10VDC电压输出线或外部直流电源，需要获取方波转速信号输出时需要外接上拉电阻，详细说明见接线示意图。
 - 4、风机通电后可能需要等待几秒才能启动运行，禁止通电后立即触摸风轮或在低速下触摸风轮，防止人身伤害。使用产品前请仔细阅读本《技术规格书》。
- 1、The fan can be operate after the yellow and green wire of the fan connecting the ground effective, High risk, to prevent grounding caused by electric shock or not affected operation.
 - 2、The red, yellow, blue and white lines of the fan are not allowed to access the high voltage ac power supply, to prevent burn out the fan.
 - 3、White line prohibits direct connection red + 10 VDC or external dc power supply voltage output line.You need to connect an external resistor wen you what the Square wave speed signal output.Details see the connecting screen.
 - 4、Fan may need to wait for a few seconds after the power supply to start running, ban after electrify immediately touch wind turbines or touch under low speed wind turbines, to prevent personal injury.
 - 5、Please read carefully the "technical specification before use the product ".