



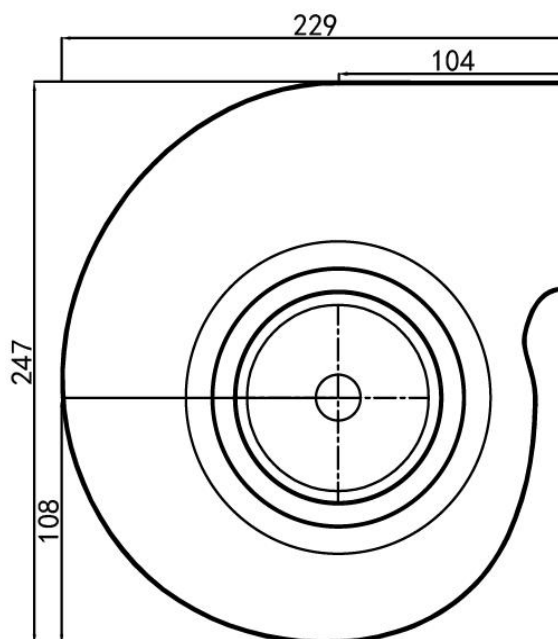
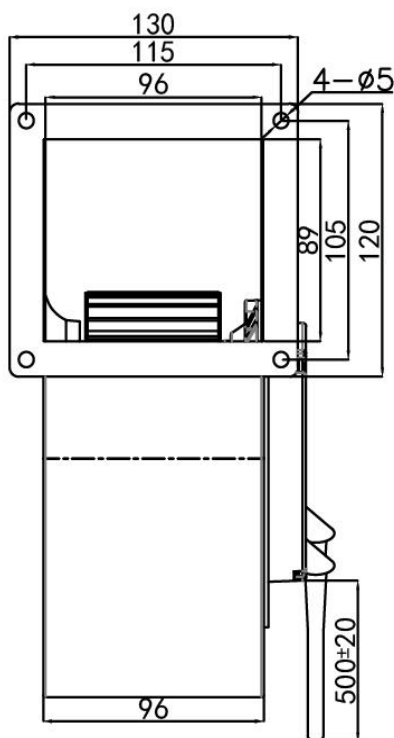
EC Single Inlet Centrifugal Blower 单进风鼓风机

Specifications of GRF3E140A 技术参数

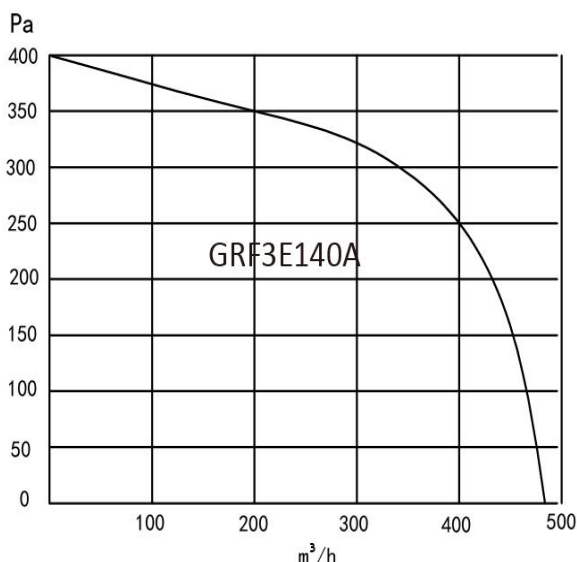


Model 型号	GRF3E140A2	
Motor type 电机型号	EC072-3-2	
Rated voltage 额定电压	VAC	230
Frequency 频率	Hz	50/60
Rated voltage range 工作范围	VAC	184-264
Power input 输入功率	W	110
Rated Speed 额定转速	RPM	2150
Airflow 风量	M3/H / CFM	480/282
Input Current 输入电流	A	0.9
Max Noise Level 噪音	dBA	65
Static Pressure 静压	Pa	400
Net Weight 净重	Kg	2.3
Package 包装	Carton 纸箱	4pcs, 10.5kg, 447x265x273mm
	Pallet 托盘	160pcs, 424kg, 1100x1040x1060mm

Dimensions 外形尺寸



Curves 曲线



Wire Diagram 接线图

Cable Color 电缆颜色	Function 功能
Brown 棕色	L
Blue 蓝色	N
Yellow/Green 黄色/绿色	PE
Red 红色	+10V output 输出
Yellow 黄色	0-10VDC / PWM
Blue 蓝色	GND
White 白色	Tach output 转速输出 2 pulse/rev 脉冲/转



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Electrical parameters 电气参数

▶ Motor 电机	EC brushless external rotor motor 变频无刷直流外转子电机
▶ Insulation Class 绝缘等级	Class B 级
▶ Motor Protection 电机保护	Locked rotor protection & Reverse Polarity protection 堵转保护和极性保护 Soft start & Automatic restart capability 软启动和自动启动
▶ Speed Control 调速方式	0~10VDC / PWM Input 输入
▶ Signal Output 信号输出	FG (Frequency Generator) 频率发生器
▶ Type of protection 防护等级	IP44
▶ Operation Mode 运行模式	S1 连续运转
▶ Direction of Air Flow 风向	Outlet 出风口出风
▶ Direction of Rotation 转向	Clockwise, seen on rotor 顺时针, 从转子方向看
▶ Dielectric Strength 耐高压测试	5mA max. at 1500VAC 50Hz/s between frame and (+)terminal 机壳和端子间每秒
▶ EMC	EMC EN61000-6-3; EN 61000-6-1; EN61000-6-2/3

Mechanical Parameters 机械参数

▶ Dimension 风轮尺寸	Φ140x59mm
▶ Material of Impeller 风轮材质	hot-dip galvanised sheet steel 镀锌钢板
▶ Material of Housing 蜗壳材质	hot-dip galvanised sheet steel 镀锌钢板
▶ Material of Electronics Housing 电路板盖材料	Die-cast aluminium 压铸铝
▶ Material of Impeller Plate 风轮底座材料	Injection-moulded round sheet-metal plate 注塑金属镀锌钢板
▶ Mounting Position 安装方式	Shaft horizontal or rotor on top 轴水平或转子朝上安装
▶ Surface of Rotor 转子表面喷涂	Coated in black 黑色
▶ Bearing System 轴承系统	NMB maintenance-free ball bearing 免维护滚珠轴承
▶ Life time 寿命	50000 hours 小时 (L10) at 40°C room 室温, humidity 湿度15%~65%RH
▶ Lead Wire 引线	AWG#22 UL1007 (Controls 控制端), AWG#18 UL1007 (Mains 电源端)

Environmental 环境参数

▶ Operating / Storing temp. 运行/储藏温度	-25°C to + 60°C / -40°C to + 60°C
▶ Operating / Storing humidity 运行/储藏湿度	5% to 90% RH
▶ Approval 认证	CE, CCC, ErP2015 and RoHS compliance 符合RoSh和ErP2015能效标准
▶ Shock Test 冲击试验	Apply peak acceleration 50g and keep duration for 11ms /峰值加速度50克保持11ms无影响
▶ Vibration Test 震动试验	Displacement amplitude 0.75mm Equivalent 10G. Freq.range 10Hz~55Hz/30s. 位移幅值0.75mm, 频率范围10Hz~55Hz/30s
▶ Drop Test 跌落试验	In min packaging, three faces from 30cm distance height onto 10mm thickness of wooden board 最小包装情况下从30cm高度跌落到厚10mm木板连续三次无损坏
▶ Dustproof Test 防尘试验	IEC60529 IPX4 (1mm dia.metal wire can't go through the gas /1mm直径金属无法进入
▶ Waterproof Test 防水试验	IEC60529 IPX4 (10 min. to spray water from all direction / 360度喷水十分钟无影响
▶ Warrant 质保期	18 months after delivery 交付后18个月

Electrical connection 电气接线图

EC风机控制方式及应用 Notes on various control possibilities and their applications for EC fans

