



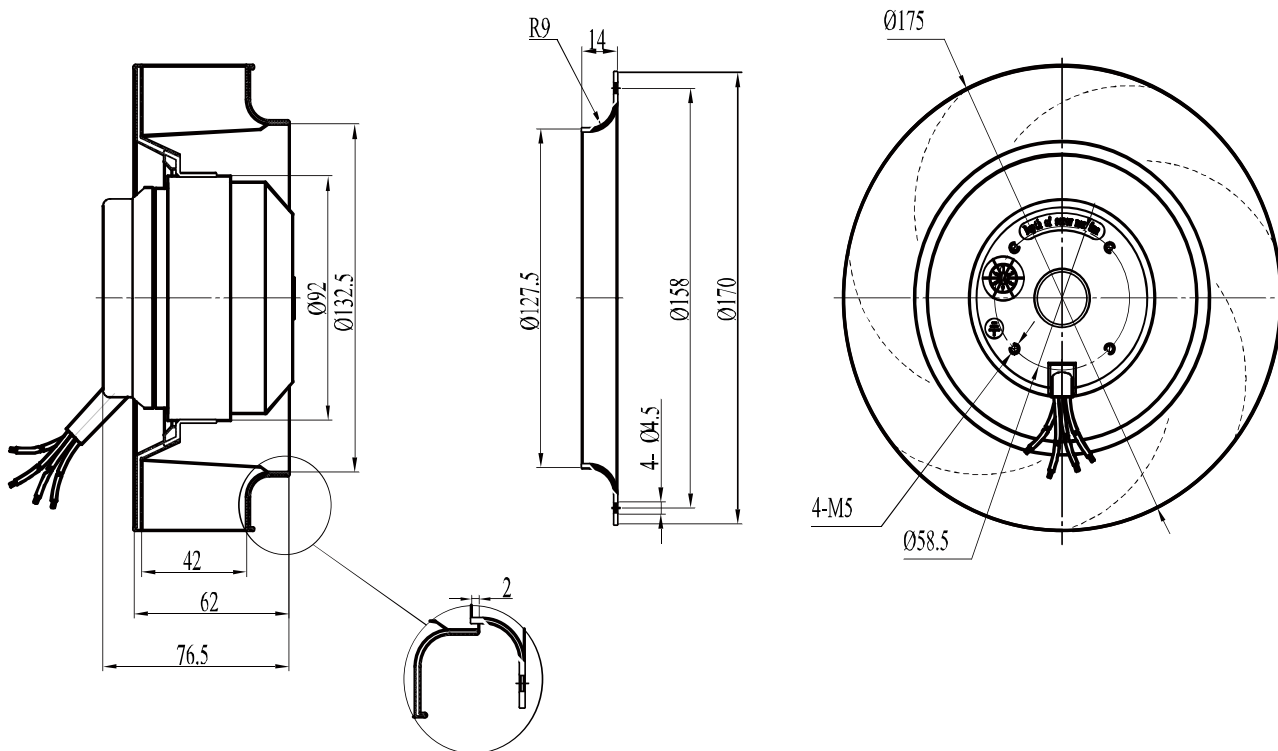
# AC Backward Curved Centrifugal Fan 后倾离心风机

## Specifications of RBA175042 技术参数

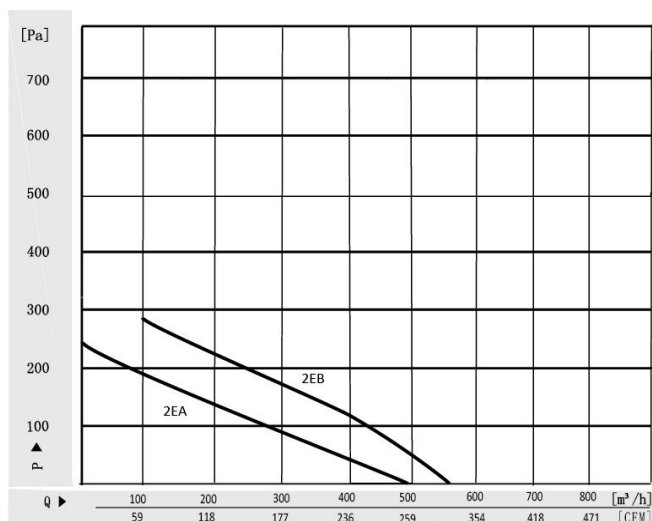


| Model 型号                 |            | RBA175/042-2EA                  | RBA175/042-2EB |
|--------------------------|------------|---------------------------------|----------------|
| Motor type 电机型号          |            | AC92-1-2                        | AC92-1-2       |
| Rated voltage 额定电压       | VAC        | 220                             | 230            |
| Frequency 频率             | Hz         | 50                              | 60             |
| Rated voltage range 工作范围 | VAC        | 209~231                         | 219~241        |
| Power input 输入功率         | W          | 70                              | 84             |
| Rated Speed 额定转速         | RPM        | 2750                            | 3100           |
| Airflow 风量               | M3/H / CFM | 490/288                         | 570/335        |
| Input Current 输入电流       | A          | 0.31                            | 0.36           |
| Max Noise Level 噪音       | dBA        | 65                              | 67             |
| Static Pressure 静压       | Pa         | 230                             | 300            |
| Net Weight 净重            | Kg         | 1.25                            | 1.25           |
| Package 包装               | Carton 纸箱  | 4pcs, 4kg, 370x195x175mm        |                |
|                          | Pallet 托盘  | 468pcs, 460kg, 1130x1190x1150mm |                |

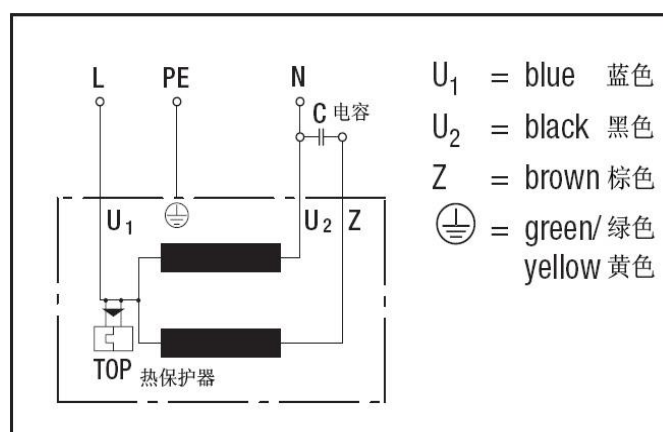
### Dimensions 外形尺寸



### Curves 曲线



### Wire Diagram 接线图





# AC Backward Curved Centrifugal Fan 后倾离心风机

## Specifications of RBA175042 技术参数

### Electrical parameters 电气参数

|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| ▶ Motor 电机                  | AC external rotor motor 交流外转子电机                                               |
| ▶ Insulation Class 绝缘等级     | Class "B" ("F" optional 可选)                                                   |
| ▶ Motor Protection 电机保护     | Thermal overload protector wired internally 热保护<br>Motor current limited 电流保护 |
| ▶ Speed Control 调速方式        | Series resistance / Transformer / Frequency Inverter 可变电阻/变压器/变频器             |
| ▶ Protection Class          | I                                                                             |
| ▶ 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  | All round 水平面出风                                                               |
| ▶ 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                       | EN60335-1                                                                     |

### Mechanical Parameters 机械参数

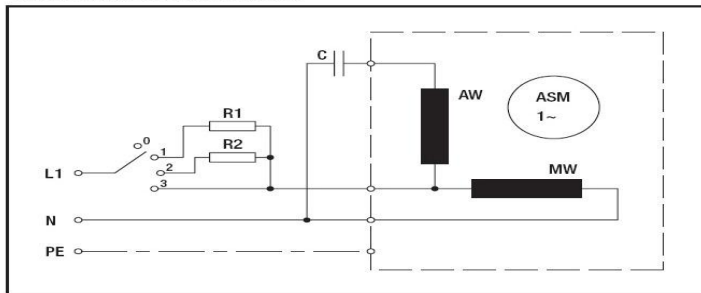
|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| ▶ Dimension 风轮尺寸                      | Φ175x42mm                                                  |
| ▶ Material of Impeller 风轮材质           | PA66 Propylene with Fibreglass reinforce 增强塑料PA66          |
| ▶ Number of Blades 风叶数                | 7/11                                                       |
| ▶ Material of Motor back cover 电机后盖材料 | 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              | Any 任何方式                                                   |
| ▶ 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                        | 30000 hours 小时 (L10) at 40°C room 室温, humidity 湿度15%~65%RH |
| ▶ Lead Wire 引线                        | AWG#18 UL1007                                              |

### Environmental 环境参数

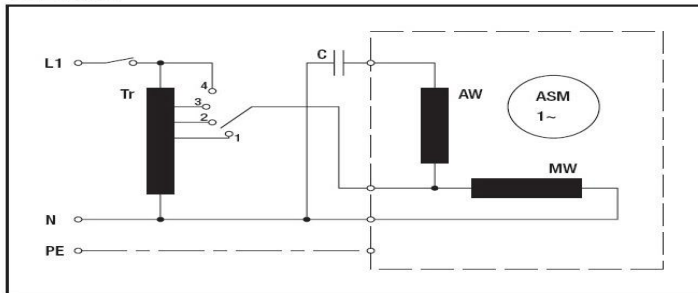
|                                        |                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| ▶ 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.<br>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                          | 12 months after delivery 交付后12个月                                                                                            |

### Speed setting with AC Motors 调速方式

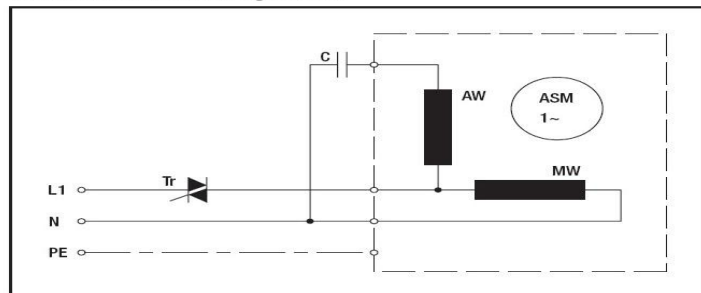
可变电阻调速 Series resistance



变压器调速 Transformer



相位角控制调速 Phase-angle control



正弦滤波变频器调速 Frequency Inverter with sine filter

