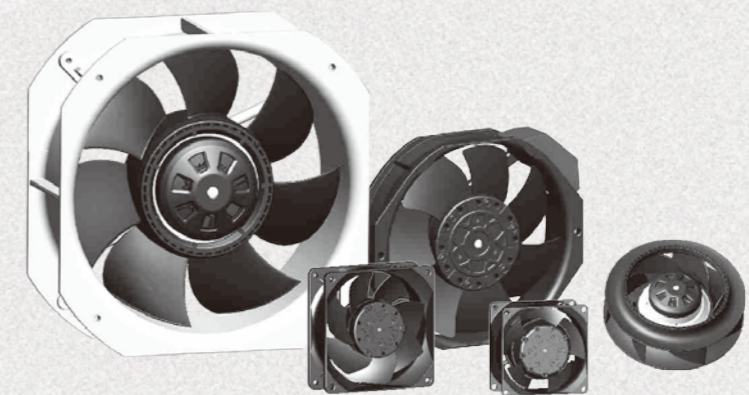


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Centrifugal Fan
离心风机

AC series

C2E-133.41CS
C2E-133.41C

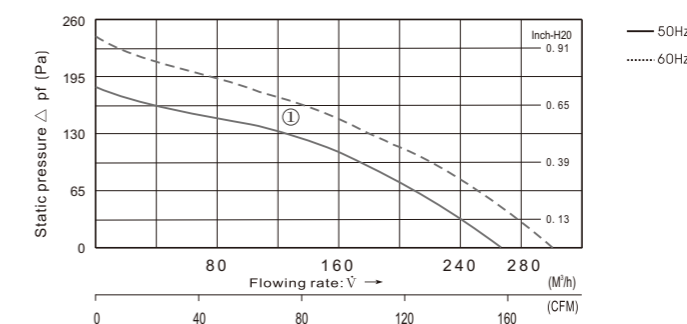
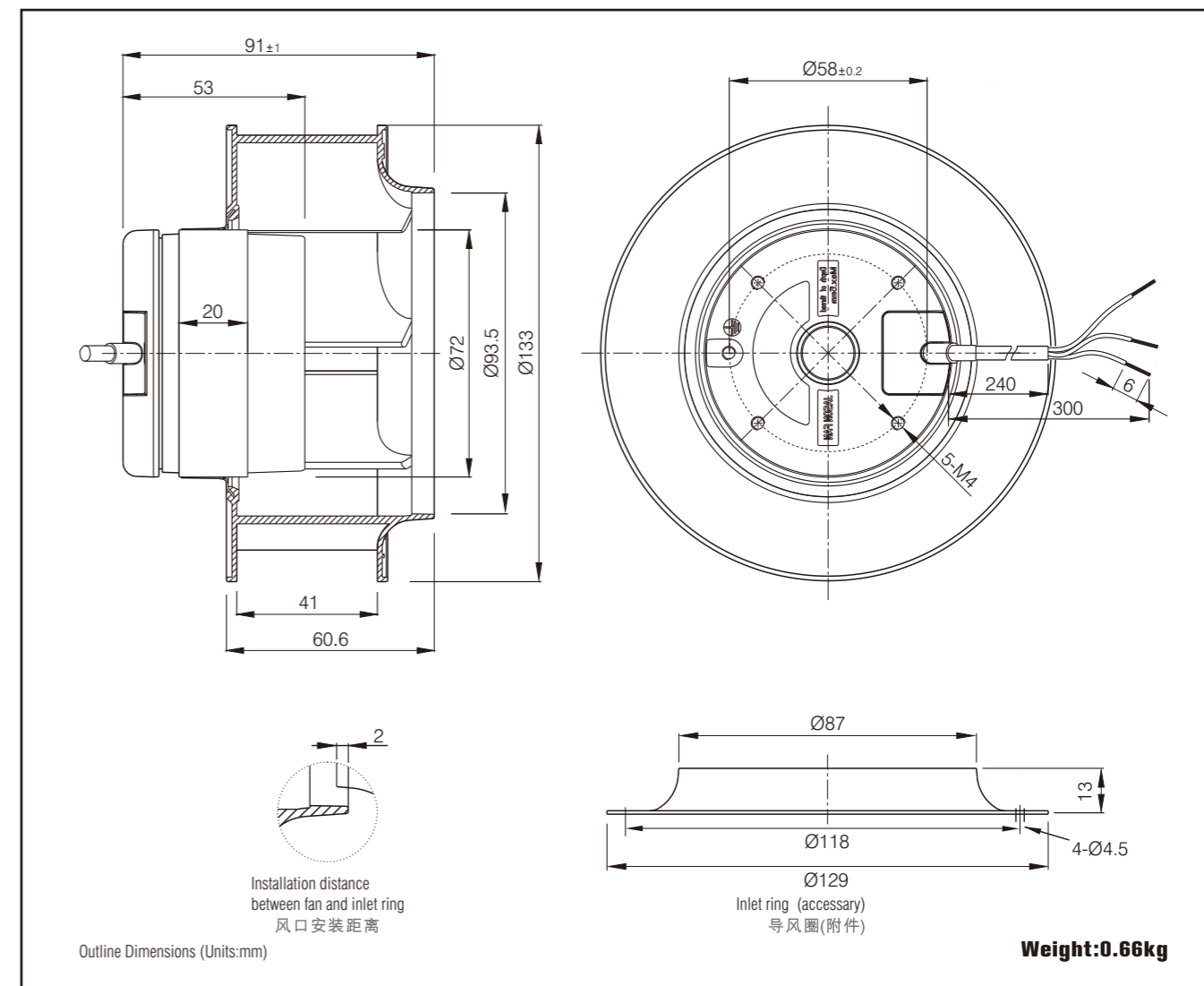


Core Highlights:

- 1 **Powerful Performance:** External rotor centrifugal structure delivers high air pressure, effectively overcoming system resistance.
- 2 **Wide Temperature Resistance:** Designed for a wide temperature range of -30°C to 80°C, adapting to most extreme environments worldwide with stable and reliable operation.
- 3 **Safety Assurance:** Unique dual safety mechanism of "impedance + bimetallic thermal protection" completely eliminates the risk of motor burnout, safeguarding customers' equipment.
- 4 **Long Durability:** Class F insulation system, high-quality PA nylon impellers, and industrial-grade design ensure an extra-long product lifespan, reducing maintenance and replacement costs.
- 5 **Excellent Protection:** IP44 protection rating, resistant to dust and water splashes, meeting the challenges of harsh industrial environments.

This series is by no means an ordinary consumer-grade product. Every design detail reflects a deep understanding of industrial application scenarios, making it a high-quality component with reliability, safety, and long lifespan as its core competitiveness.

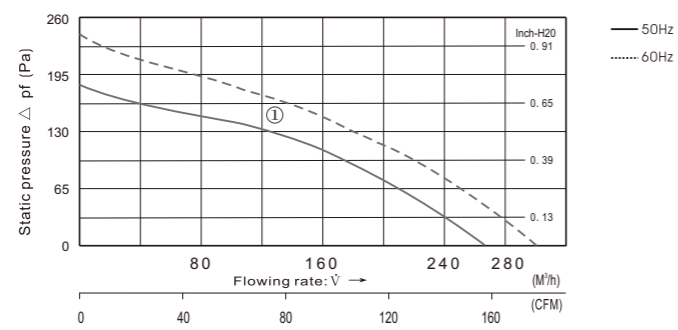
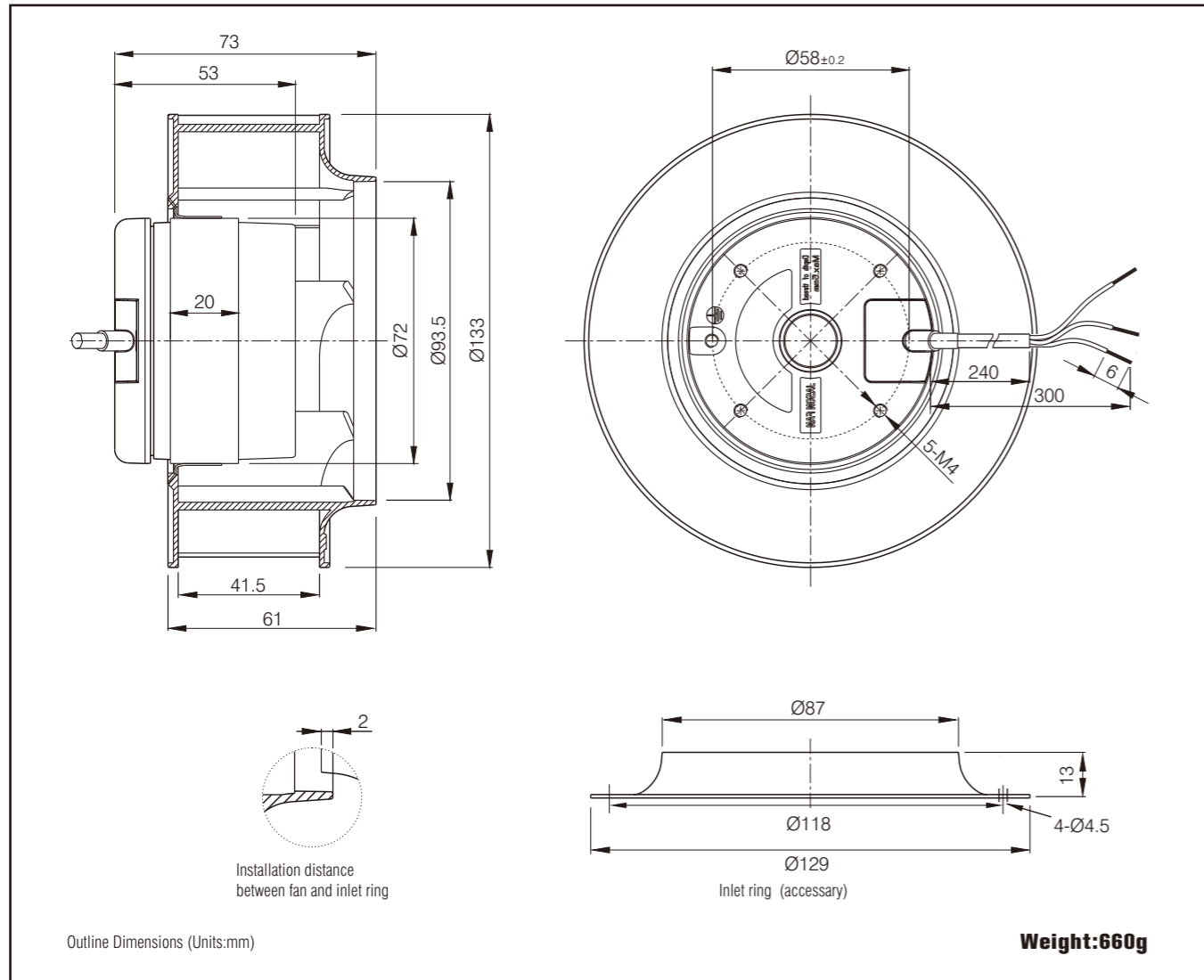
C2E-133.41CS



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{100% 20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| C2S-133.41CS | M2S07201-AB | 115 | 50 | 0.55 | 40 | 2600 | 153 | 260 | 52 | ① | ----- |
| | | | 60 | 0.45 | 37 | 2900 | 173 | 295 | 55 | | |
| C2E-133.41CS | M2E07201-AB | 230 | 50 | 0.25 | 38 | 2500 | 153 | 260 | 52 | | |
| | | | 60 | 0.20 | 35 | 2800 | 173 | 295 | 55 | | |

C2E-133.41C

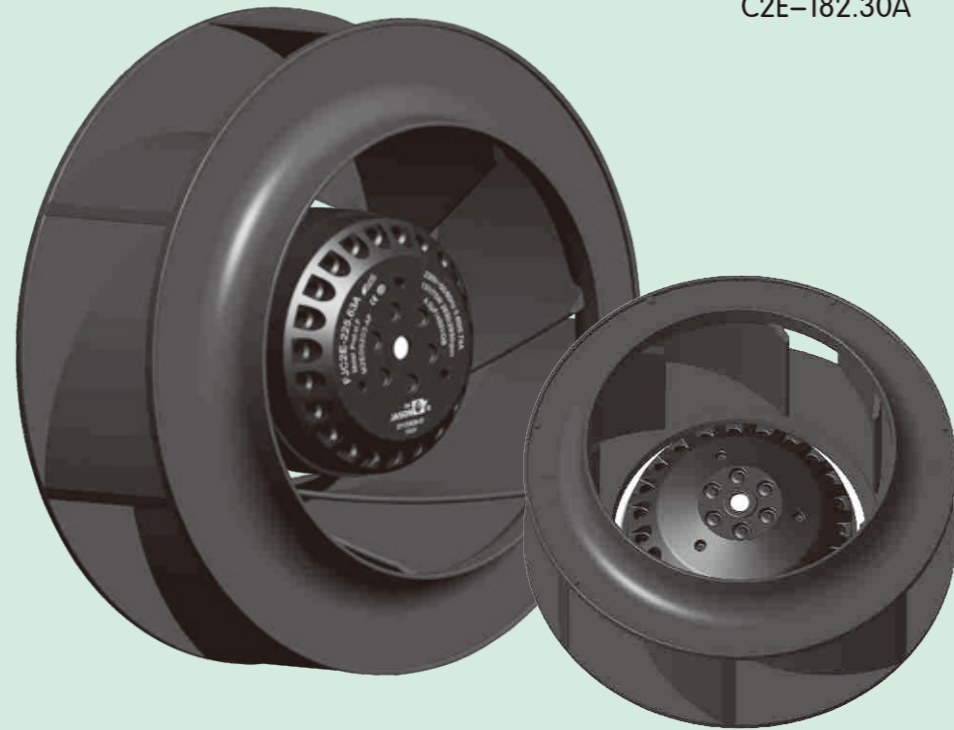


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM / m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| C2S-133.41C | M2S07201-AB | 115 | 50 | 0.51 | 38 | 2600 | 135 230 | 180 | 52 | ① | ----- |
| | | | 60 | 0.42 | 35 | 2800 | 147 250 | 240 | 55 | | |
| C2E-133.41C | M2E07201-AB | 230 | 50 | 0.26 | 39 | 2500 | 135 230 | 180 | 52 | | |
| | | | 60 | 0.23 | 37 | 2700 | 147 250 | 240 | 55 | | |
| C2D-133.41C | M2D07201-AB | 380 | 50 | 0.13 | 35 | 2500 | 135 230 | 180 | 52 | | |
| | | | 60 | 0.11 | 34 | 2700 | 147 250 | 240 | 55 | | |

Total solution

Centrifugal Fan 离心风机 **AC series**

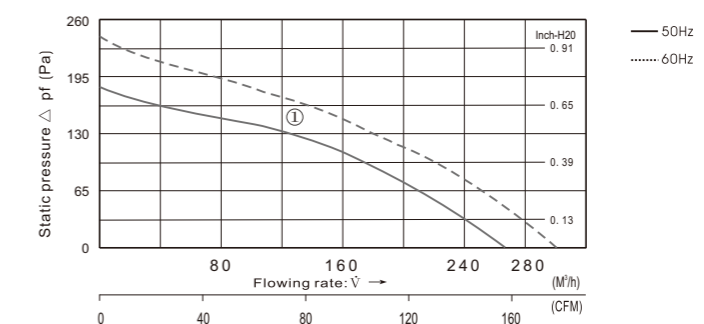
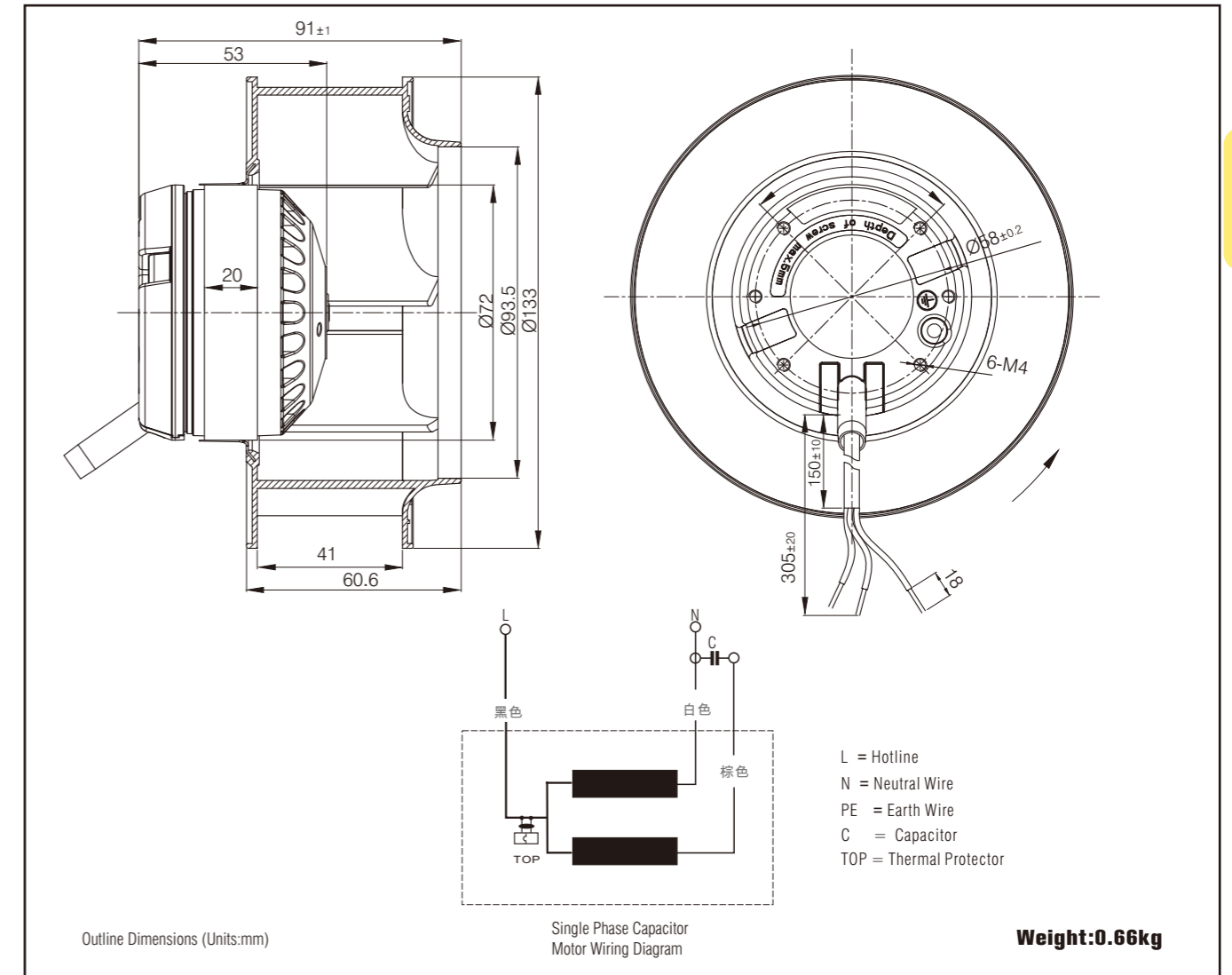


- C2E-133.41PL
- C2E-175.45C
- C2E-175.45TS
- C2E-182.30A
- C2E-190.45A
- C2E-190.45TS
- C2E-220.44B
- C2E-220.44TS
- C2E-220.44DS
- C2E-225.63C
- C2E-225.63DS
- C2E-250.48D

Core Highlights:

- 1 High Efficiency & Energy Saving: Adopts advanced squirrel-cage capacitor external rotor motor, with far higher efficiency than ordinary shaded-pole motors, delivering strong power while saving more electricity.
- 2 Indestructible Durability: V-0 flame-retardant impeller made of glass fiber-reinforced composite material, featuring ultra-high strength, high temperature resistance, and flameproof safety to eliminate fire hazards.
- 3 Extreme Environment Resistance: Capable of working in an ultra-wide temperature range of -40°C to 80°C, withstanding severe cold and extreme heat in any corner of the globe.
- 4 Insulation System: Ultra-high insulation resistance of over 200MΩ plus Class F insulation system, providing ultimate electrical safety and reliability for longer service life.
- 5 Flame-Retardant Safety: V-0 is one of the highest flame-retardant grades in the UL94 standard. It means the material can self-extinguish within an extremely short time (<10 seconds) after contacting an open flame, with no burning droplets.
- 6 Intelligent Self-Protection: Built-in automatic thermal protection; the motor has "overheating self-recovery" capability to ensure continuous operation of equipment without shutdown.
- 7 IP44 Protection: Dust-proof (against solid foreign objects above 1mm) and splash-proof, ensuring the internal core motor of the fan is not affected in harsh industrial environments with heavy dust and slight liquid splashes.

This series is especially suitable for scenarios with extreme requirements for safety, reliability, and environmental adaptability, such as high-end servo drive cabinets, communication base stations, power automation equipment, outdoor control boxes, and any industrial equipment requiring top-level safety certifications

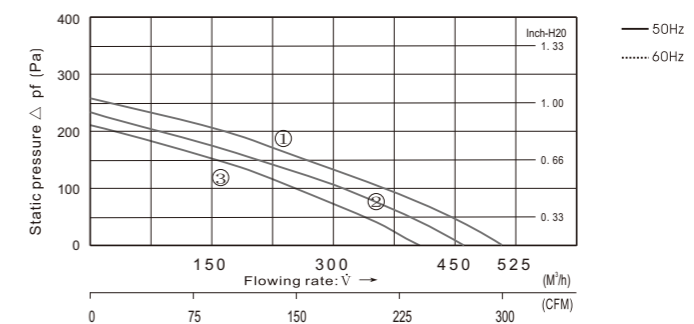
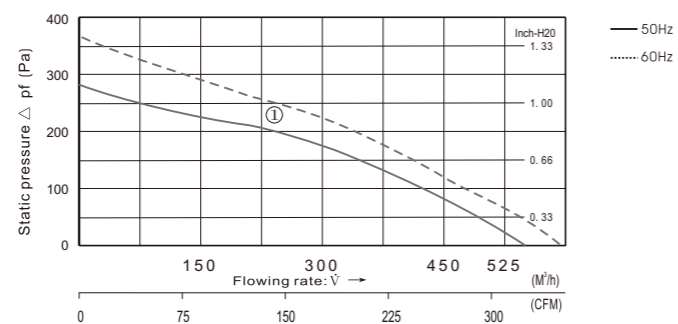
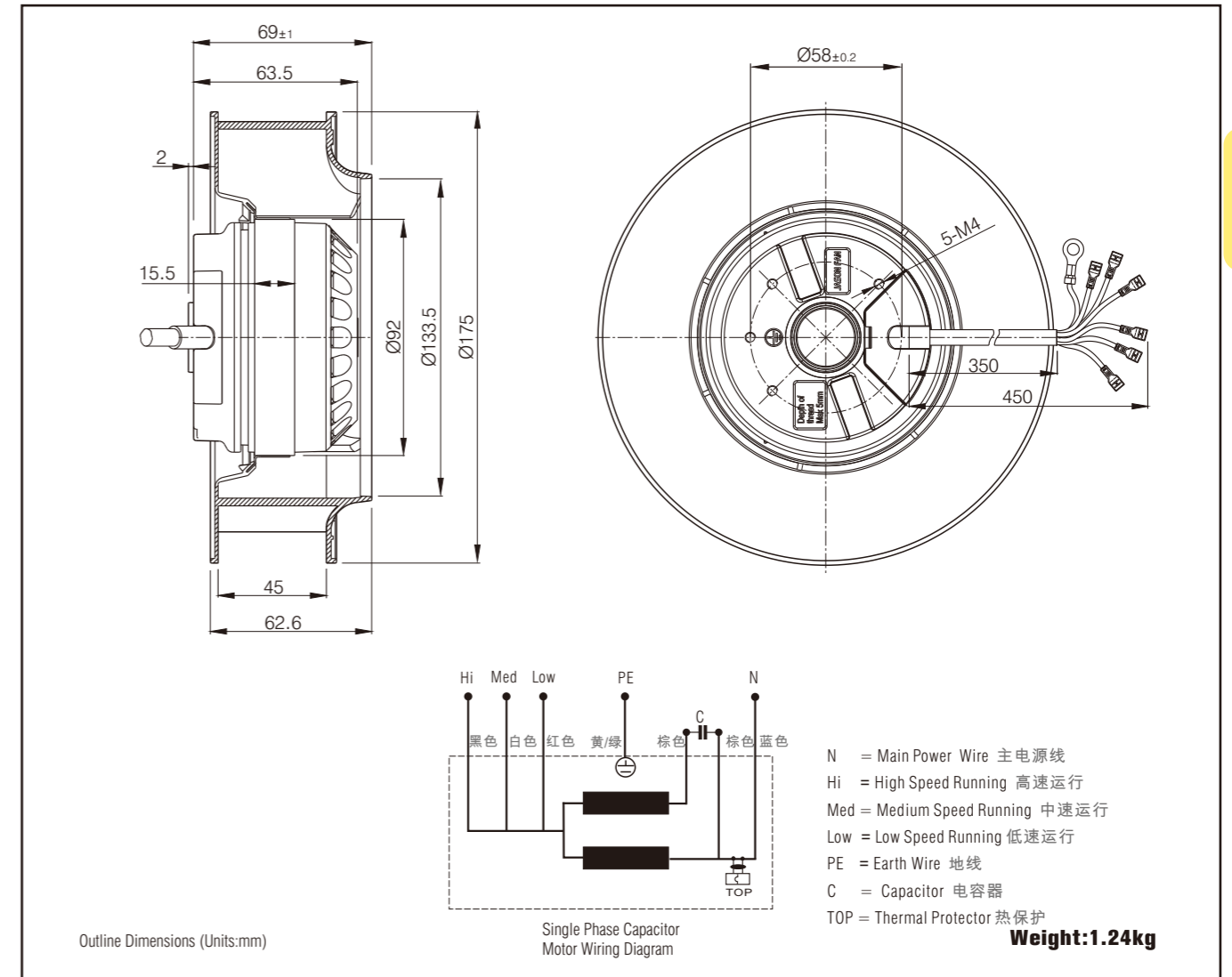
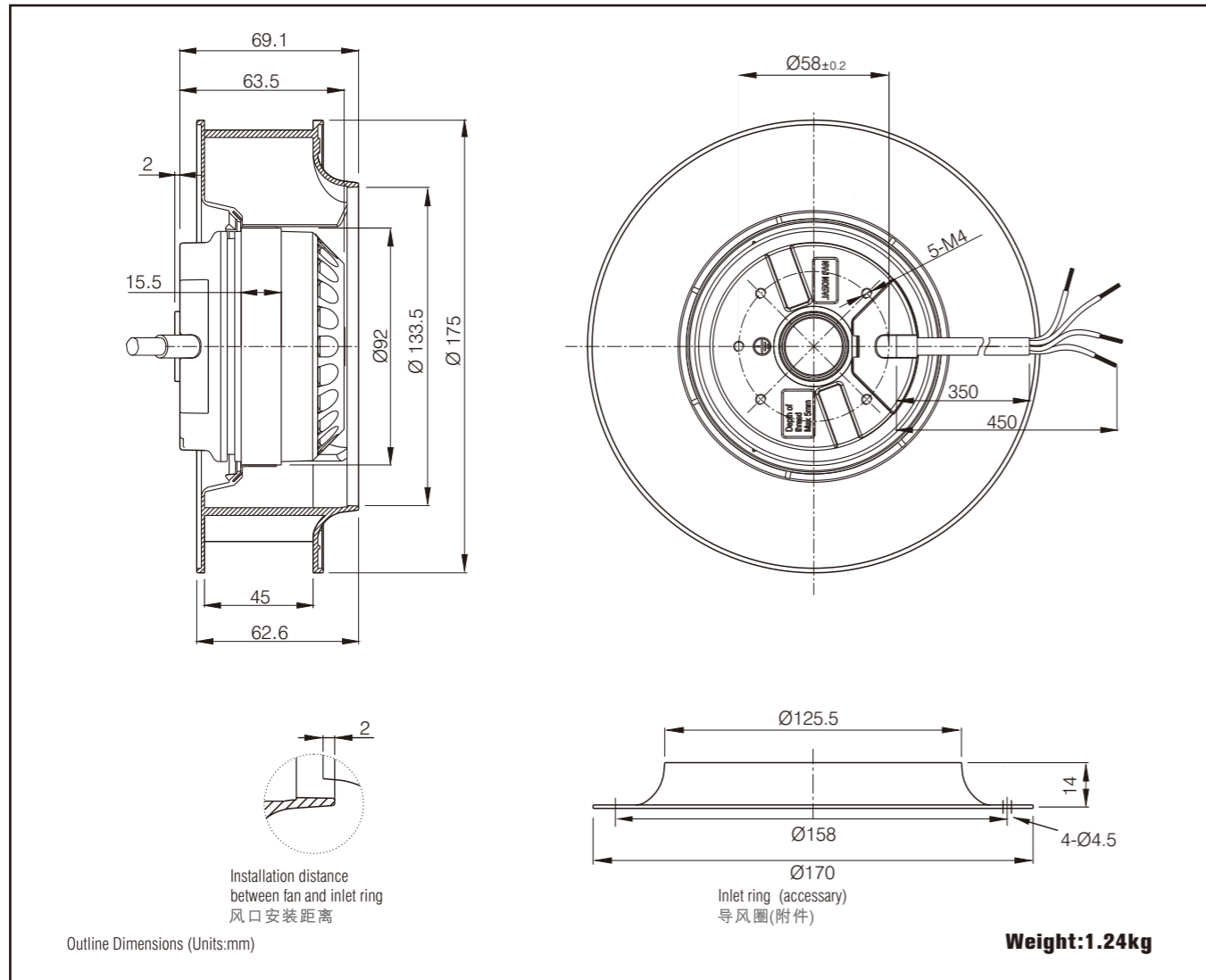


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| C2S-133.41PL | M2S07202-AF | 115 | 50 | 0.135 | 15 | 2600 | 160 | 270 | 55 | ① | 2.0/250V |
| | | | 60 | 0.145 | 17 | 3000 | 185 | 315 | | | 0.5/450V |
| C2E-133.41PL | M2E07202-AF | 230 | 50 | 0.068 | 15 | 2600 | 160 | 270 | 55 | ① | 2.0/250V |
| | | | 60 | 0.072 | 17 | 3000 | 185 | 315 | | | 0.5/450V |

C2E-175.45C

C2E-175.45TS



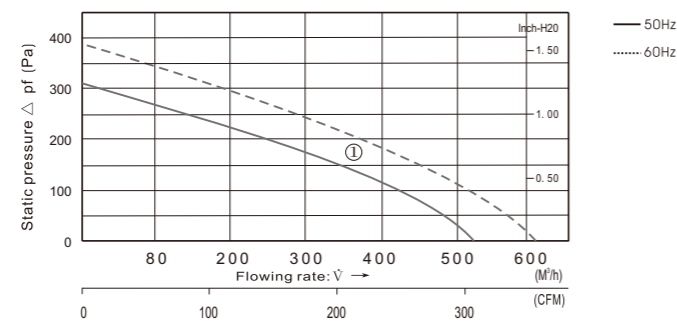
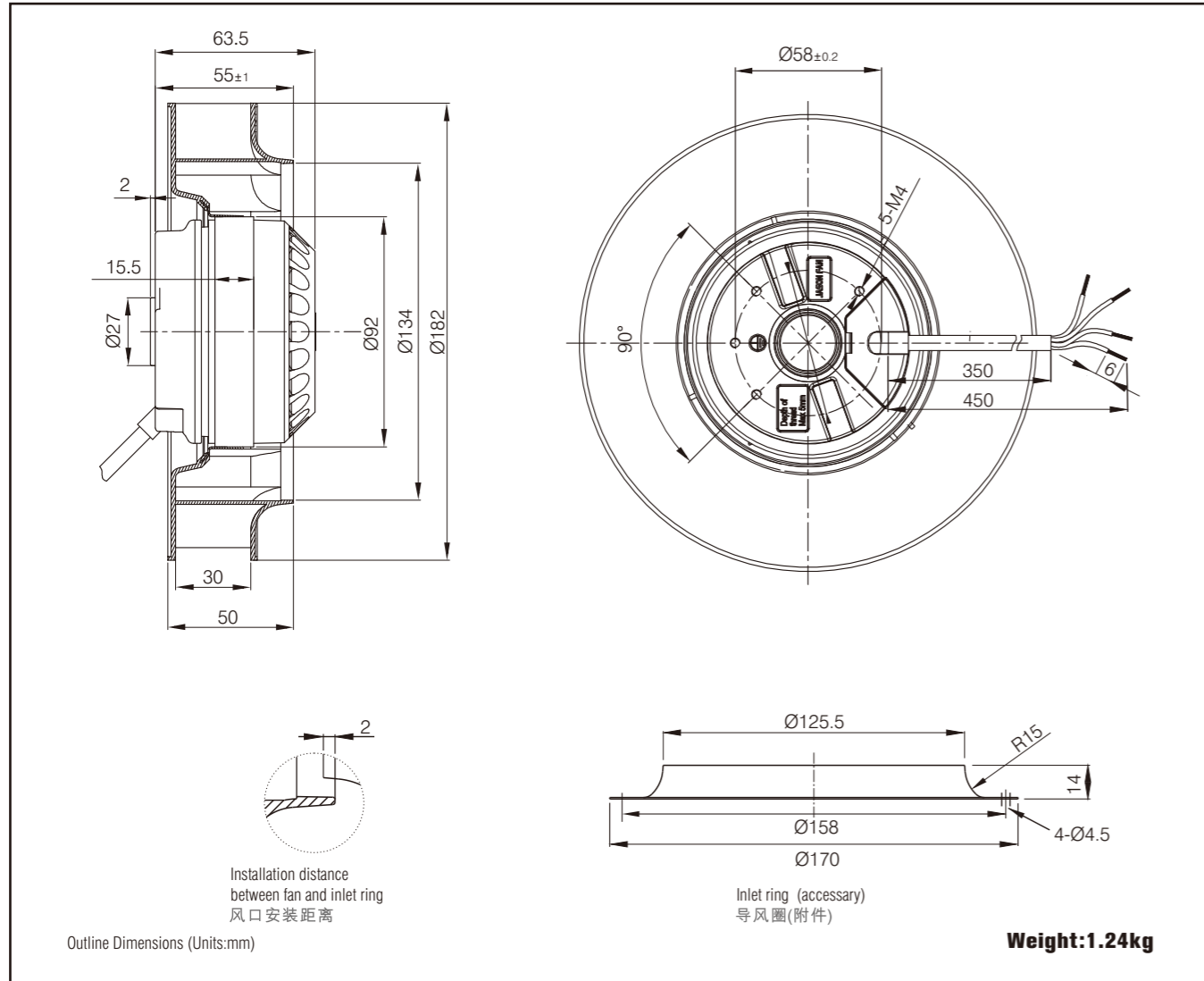
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|----------|
| C2S-175.45C | M2S09201-AF | 115 | 50 | 0.57 | 56 | 2500 | 324 550 | 280 | 58 | ① | 5.0/250V | |
| | | | 60 | 0.53 | 59 | 2850 | 348 590 | 370 | 61 | | | |
| C2E-175.45C | M2E09201-AF | 230 | 50 | 0.29 | 56 | 2500 | 324 550 | 280 | 58 | | | 1.5/450V |
| | | | 60 | 0.27 | 59 | 2850 | 348 590 | 370 | 61 | | | |
| C2D-175.45C | M2D09201-AF | 380 | 50 | 0.16 | 57 | 2550 | 296 500 | 270 | 59 | | | 0.5/630V |
| | | | 60 | 0.17 | 64 | 2900 | 325 550 | 350 | 62 | | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C2E-175.45TS | M2E09201-AF | 240 | 50 | 0.22 | 53 | 2600 | 296 500 | 260 | 62 | ① | 2.0/450V |
| | | | 50 | 0.20 | 44 | 2380 | 270 459 | 240 | 60 | ② | |
| | | | 50 | 0.20 | 41 | 2140 | 242 410 | 210 | 58 | ③ | |

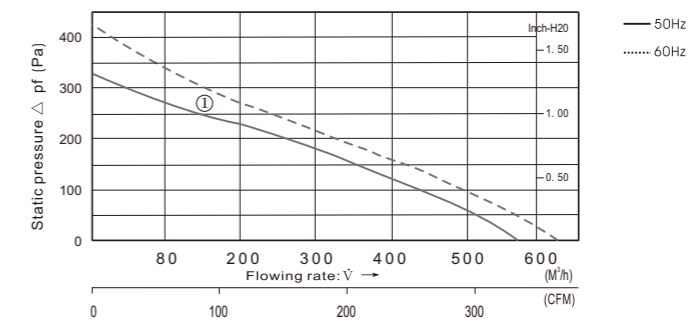
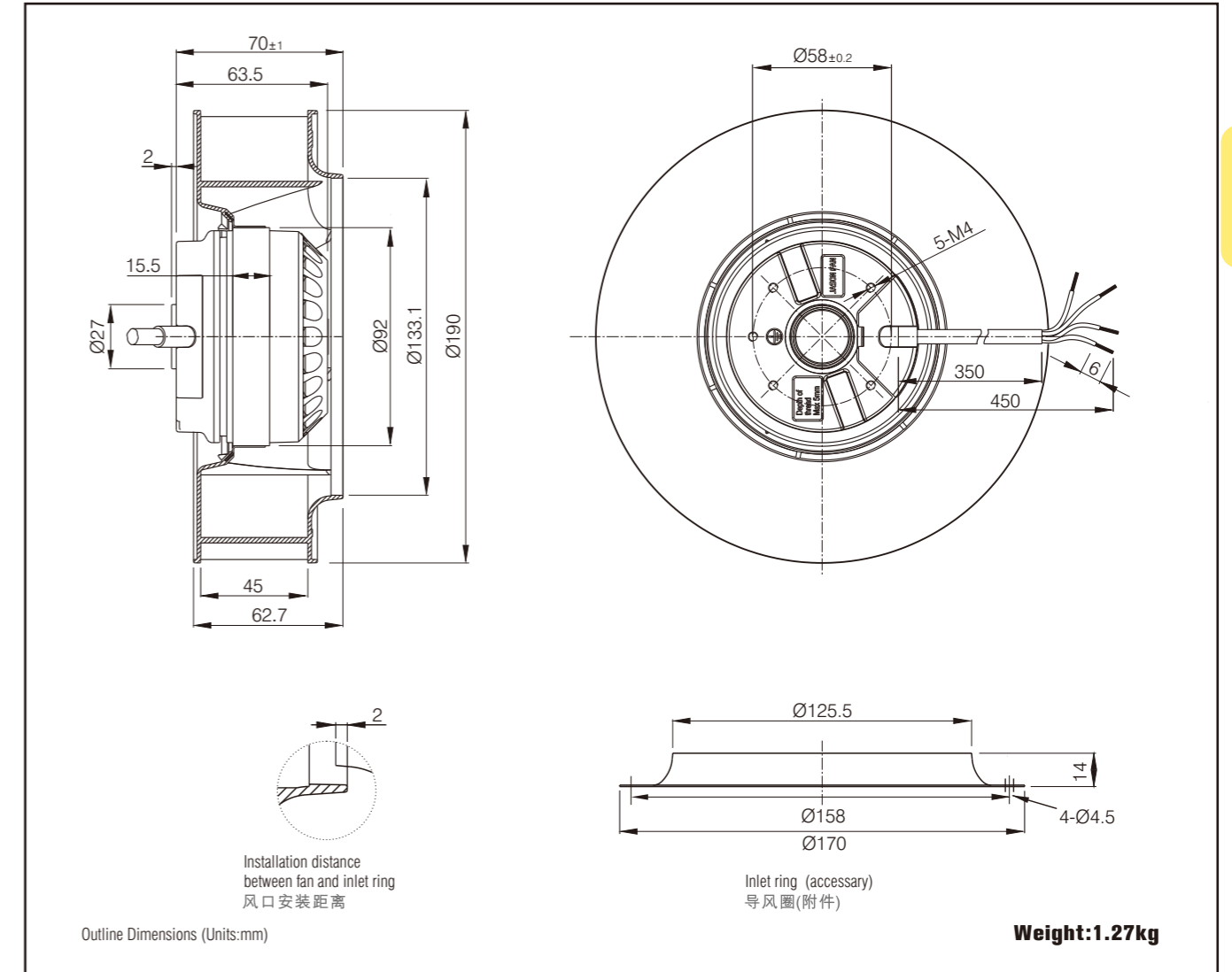
C2E-182.30A



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C2S-182.30A | M2S09201-AF | 115 | 50 | 0.60 | 53 | 2600 | 306 520 | 310 | 57 | ① | 5.0/250V |
| | | | 60 | 0.54 | 59 | 2950 | 360 610 | 380 | 60 | | |
| C2E-182.30A | M2E09201-AF | 230 | 50 | 0.30 | 60 | 2650 | 306 520 | 310 | 57 | | |
| | | | 60 | 0.29 | 65 | 3000 | 360 610 | 380 | 60 | | |

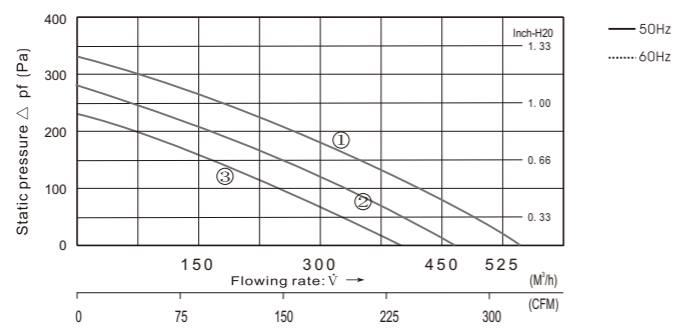
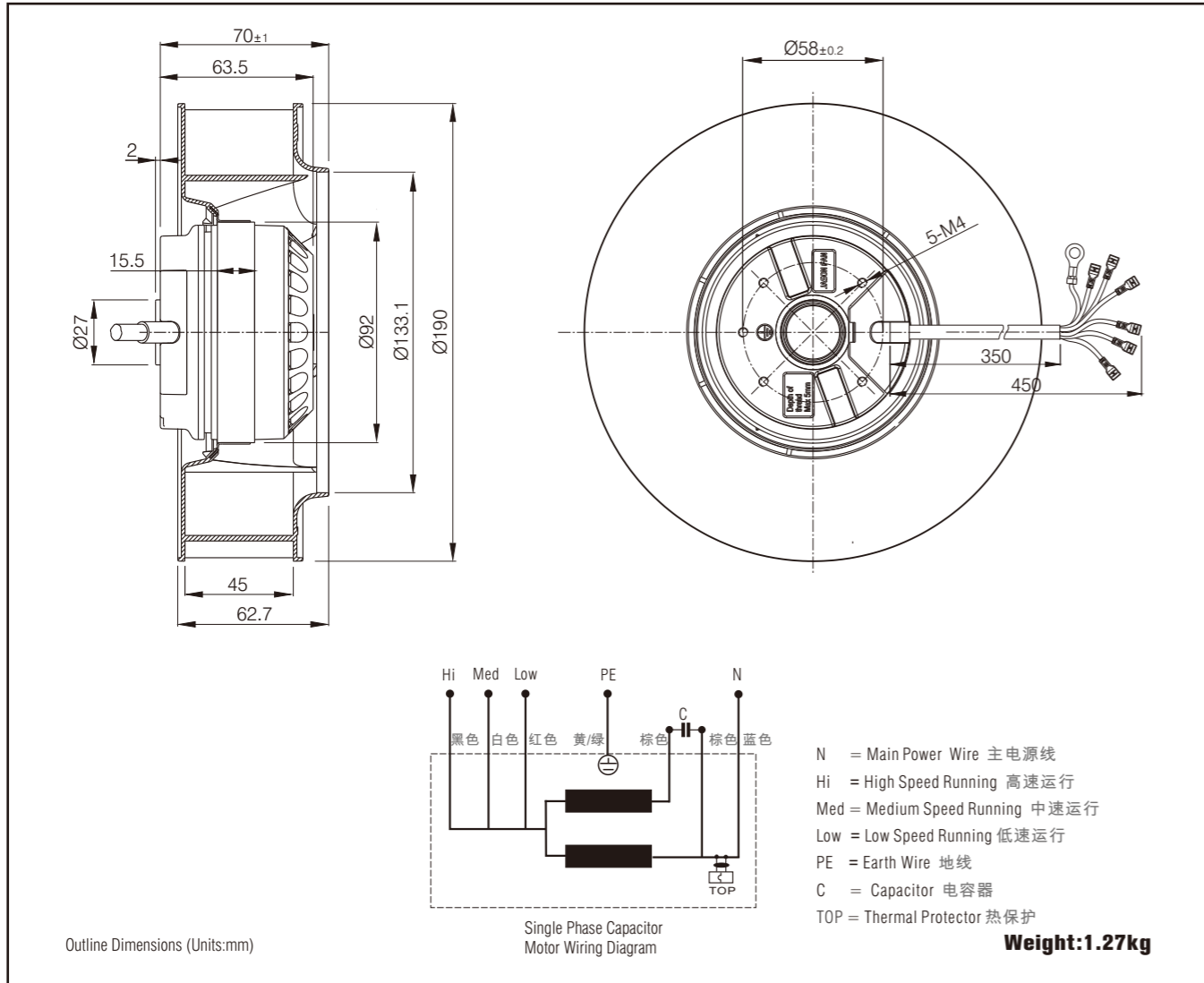
C2E-190.45A



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C2S-190.45A | M2S09201-AF | 115 | 50 | 0.64 | 65 | 2500 | 336 570 | 330 | 59 | ① | 5.0/250V |
| | | | 60 | 0.65 | 71 | 2750 | 365 620 | 420 | 61 | | |
| C2E-190.45A | M2E09201-AF | 230 | 50 | 0.28 | 60 | 2450 | 336 570 | 330 | 59 | | |
| | | | 60 | 0.31 | 71 | 2700 | 365 620 | 420 | 61 | | |
| C2D-190.45A | M2D09201-AF | 380 | 50 | 0.17 | 63 | 2500 | 336 570 | 330 | 59 | | |
| | | | 60 | 0.19 | 73 | 2700 | 365 620 | 420 | 61 | | |

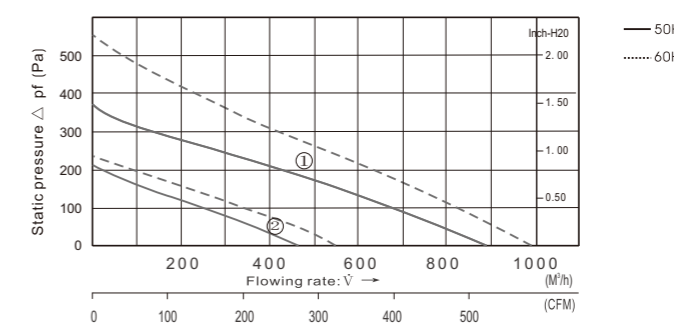
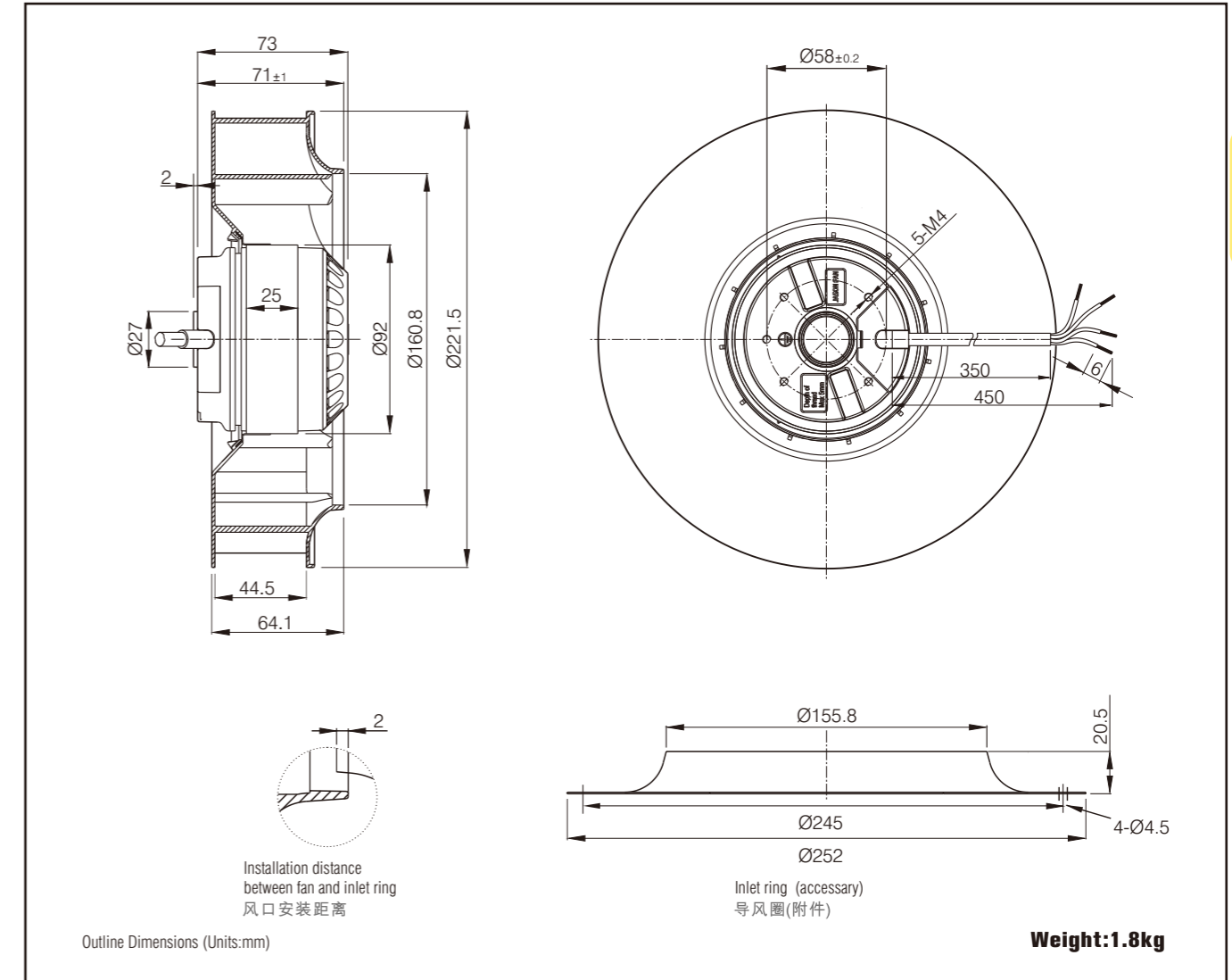
C2E-190.45TS



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| C2E-190.45TS | M2E09201-AF | 230 | 50 | 0.31 | 62 | 2480 | 330 560 | 330 | 62 | ① | 1.5/450V |
| | | | 50 | 0.21 | 47 | 2100 | 282 478 | 280 | 56 | ② | |
| | | | 50 | 0.20 | 44 | 1800 | 236 400 | 230 | 52 | ③ | |
| C2S-190.45TS | M2S09201-AF | 115 | 60 | 0.50 | 56 | 2500 | 330 560 | 330 | 62 | ① | 4.0/250V |
| | | | 60 | 0.46 | 50 | 2140 | 282 478 | 280 | 56 | ② | |
| | | | 60 | 0.43 | 47 | 1850 | 236 400 | 230 | 52 | ③ | |

C2E-220.44B

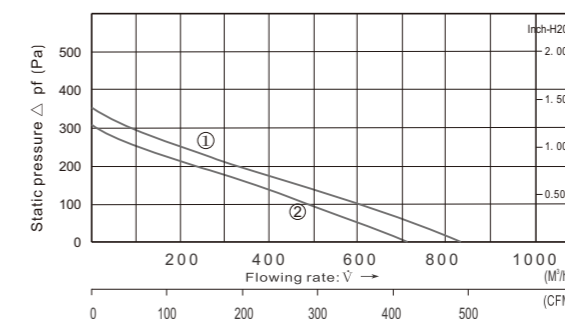
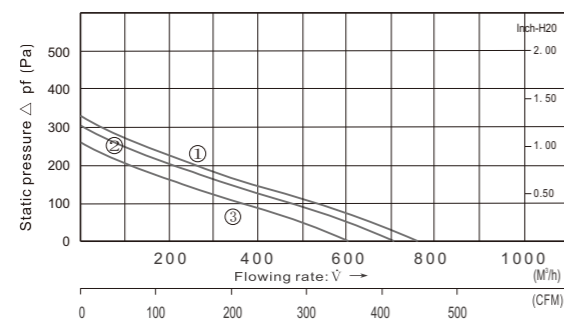
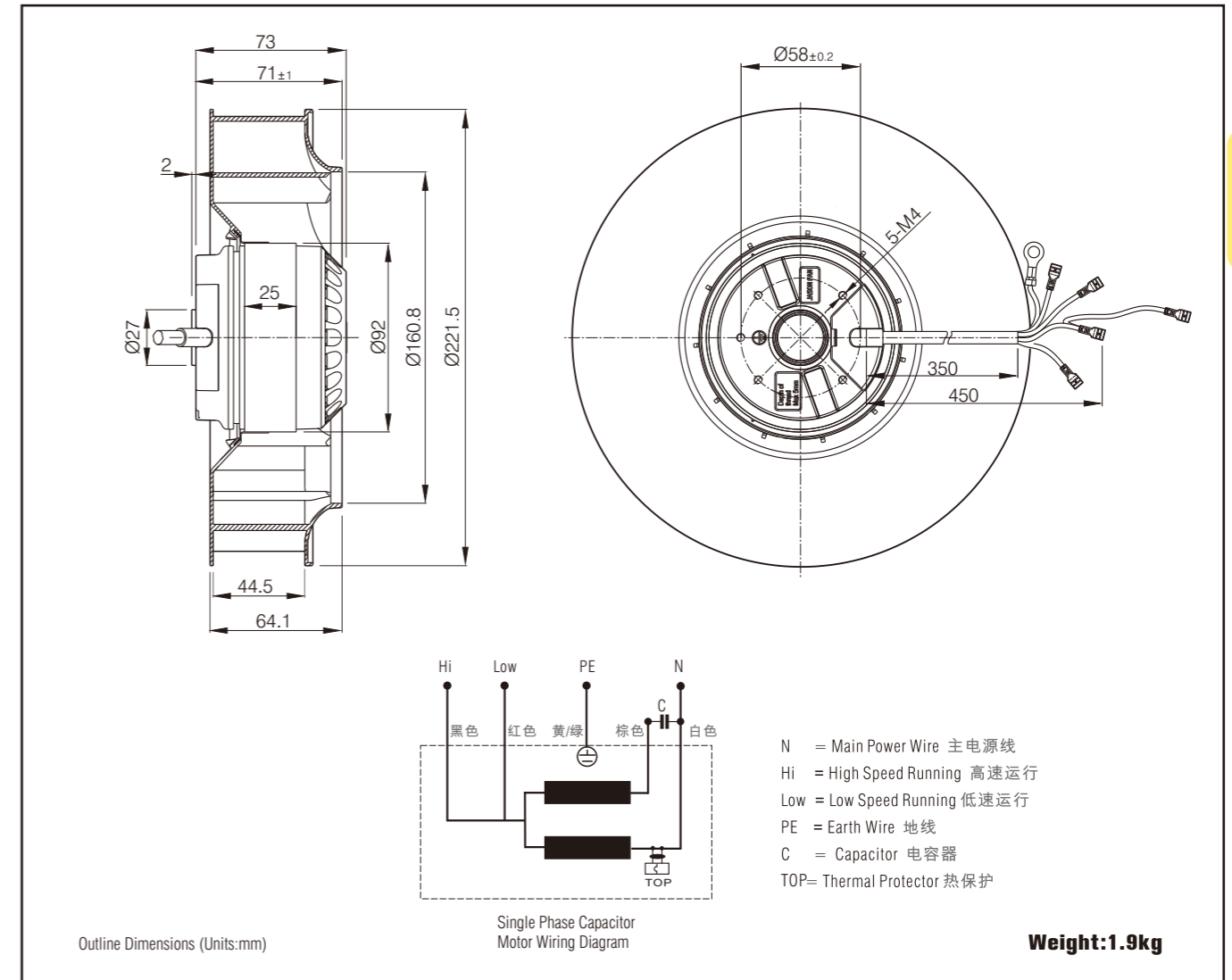
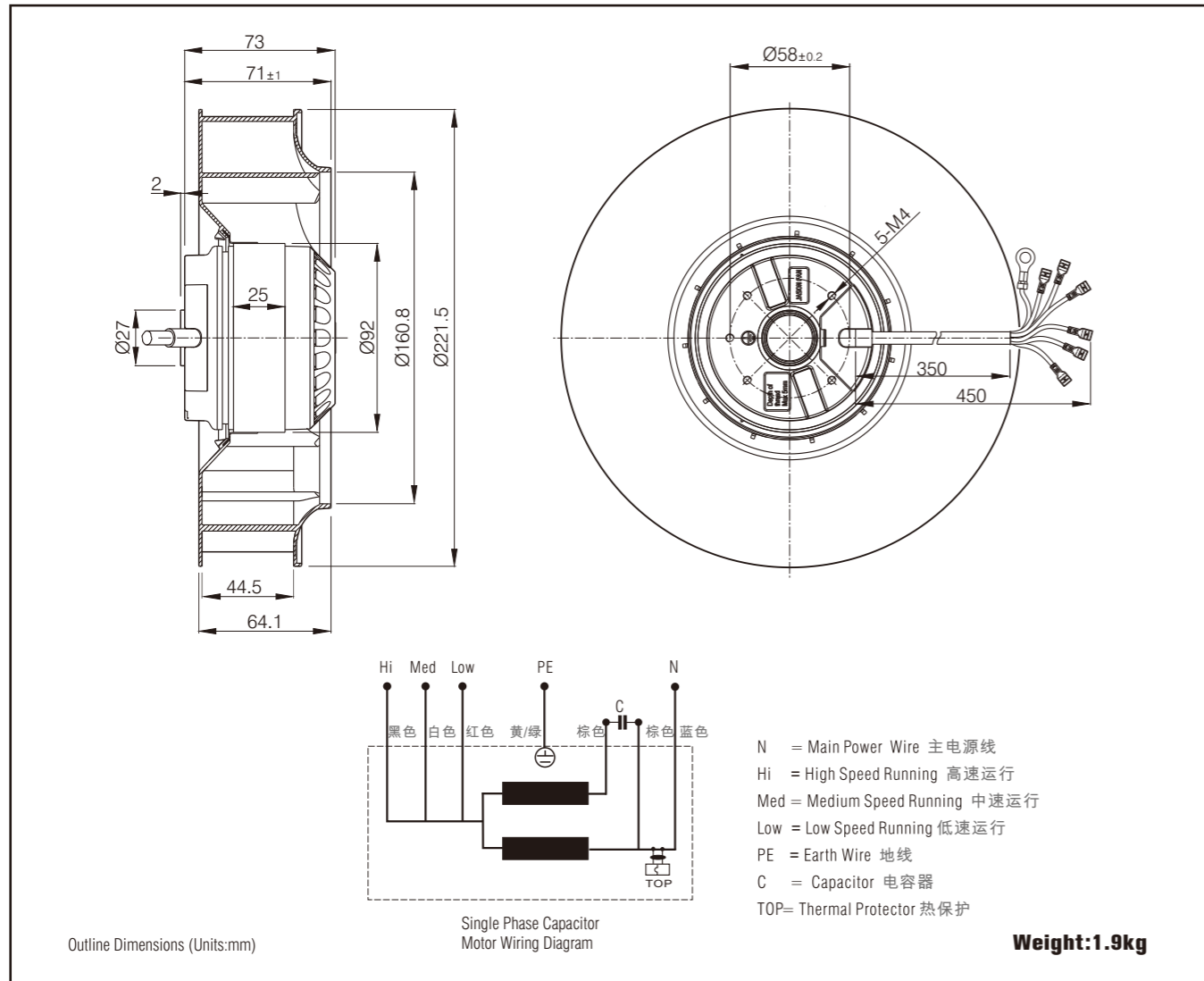


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| C2S-220.44B | M2S09202-AF | 115 | 50 | 1.00 | 98 | 2600 | 507 860 | 380 | 67 | ① | 8.0/250V |
| | | | 60 | 1.07 | 120 | 2900 | 578 980 | 550 | 70 | | |
| C2E-220.44B | M2E09202-AF | 230 | 50 | 0.46 | 98 | 2600 | 507 860 | 380 | 67 | ① | 3.0/450V |
| | | | 60 | 0.51 | 118 | 2900 | 578 980 | 550 | 70 | | |
| C2D-220.44B | M2D09202-AF | 380 | 50 | 0.26 | 93 | 2600 | 507 860 | 380 | 67 | ① | 1.0/630V |
| | | | 60 | 0.32 | 122 | 2900 | 578 980 | 550 | 70 | | |
| C4E-220.44B | M4E09202-AF | 230 | 50 | 0.20 | 38 | 1400 | 273 463 | 210 | 52 | ② | 1.0/450V |
| | | | 60 | 0.17 | 35 | 1670 | 325 552 | 220 | 56 | | |

C2E-220.44TS

C2E-220.44DS



Parameters

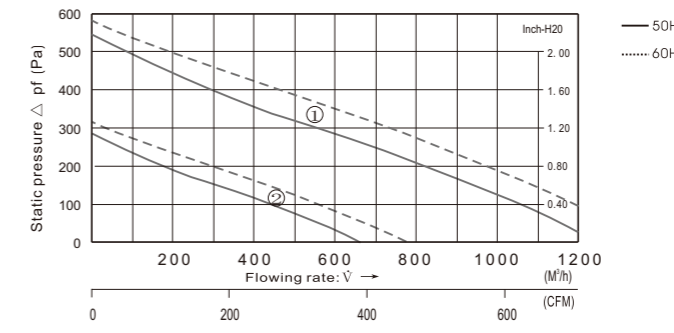
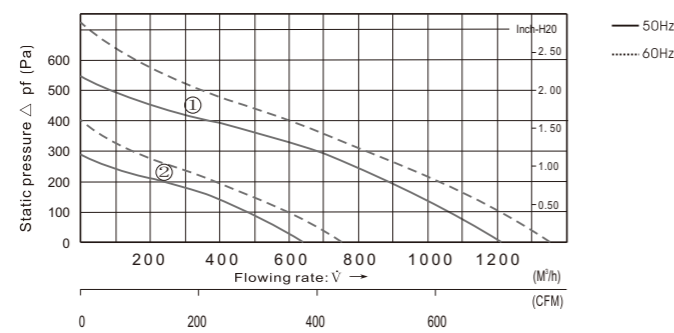
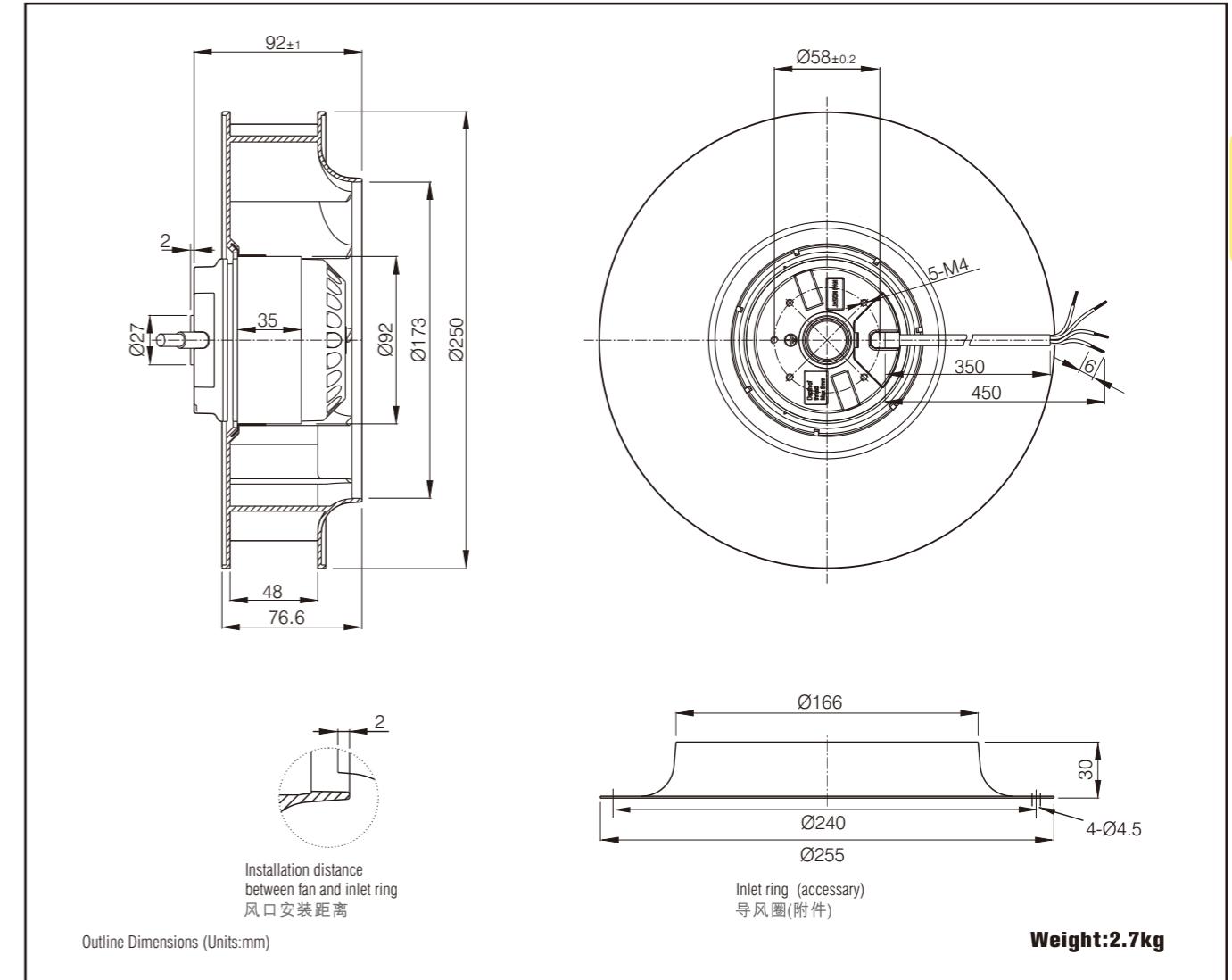
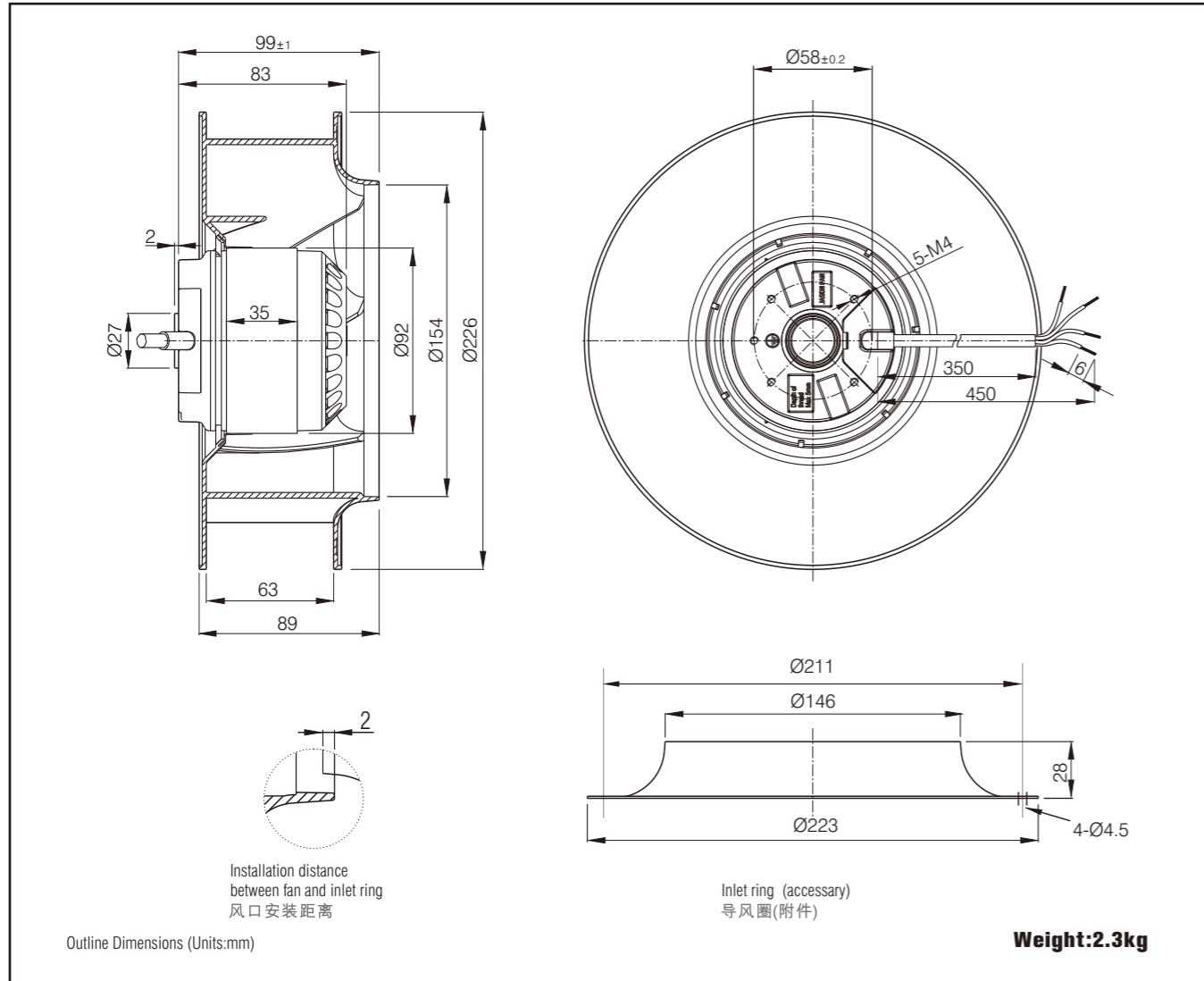
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|--------------------------------------|
| C2E-220.44TS | M2E09202-AF | 240 | 50 | 0.29 | 56 | 2080 | 448 760 | 330 | 64 | ① | 3.0/450V |
| | | | 50 | 0.27 | 47 | 1920 | 418 708 | 310 | 63 | ② | |
| | | | 50 | 0.26 | 41 | 1630 | 355 602 | 260 | 61 | ③ | |
| C2S-220.44TS | MS209202-AF | 115 | 60 | 0.72 | 80 | 2350 | 478 808 | 330 | 64 | ① | 8.0/250V |
| | | | 60 | 0.67 | 74 | 2130 | 434 734 | 310 | 63 | ② | |
| | | | 60 | 0.62 | 68 | 1810 | 375 635 | 260 | 61 | ③ | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|--------------------------------------|
| C2E-220.44DS | M2E09202-AF | 240 | 50 | 0.31 | 73 | 2490 | 436 820 | 360 | 65 | ① | 3.0/450V |
| | | | 50 | 0.30 | 65 | 2160 | 400 710 | 310 | 63 | ② | |

C2E-225.63C

C2E-250.48D



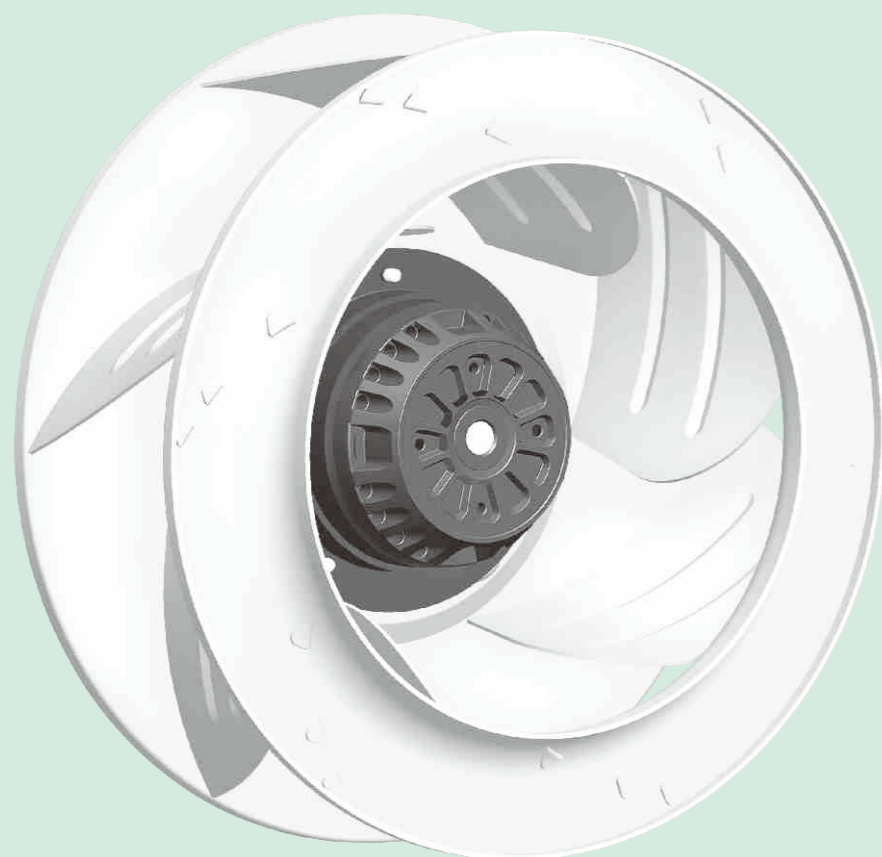
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | | |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|----------|----------|
| C2S-225.63C | M2S9203-AF | 115 | 50 | 1.25 | 119 | 2560 | 708 1200 | 540 | 68 | ① | 10.0/250V | | |
| | | | 60 | 1.37 | 152 | 2800 | 790 1340 | 730 | 71 | | | | |
| C2E-225.63C | M2E9203-AF | 230 | 50 | 0.60 | 131 | 2650 | 708 1200 | 540 | 68 | | ② | 4.0/450V | |
| | | | 60 | 0.74 | 170 | 2950 | 790 1340 | 730 | 71 | | | | |
| C2D-225.63C | M2D9203-AF | 380 | 50 | 0.33 | 125 | 2550 | 708 1200 | 540 | 68 | | | ③ | 1.5/630V |
| | | | 60 | 0.48 | 180 | 2700 | 790 1340 | 730 | 71 | | | | |
| C4E-225.63C | M4E9203-AF | 230 | 50 | 0.28 | 51 | 1380 | 371 629 | 290 | 54 | ④ | | | 1.5/450V |
| | | | 60 | 0.24 | 53 | 1640 | 437 742 | 400 | 60 | | | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | | |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|----------|----------|
| C2S-250.48D | M2S09203-AF | 115 | 50 | 1.24 | 116 | 2600 | 738 1250 | 550 | 69 | ① | 10.0/250V | | |
| | | | 60 | 1.35 | 150 | 2900 | 797 1350 | 580 | 71 | | | | |
| C2E-250.48D | M2E09203-AF | 230 | 50 | 0.59 | 131 | 2650 | 738 1250 | 550 | 69 | | ② | 4.0/450V | |
| | | | 60 | 0.76 | 173 | 2950 | 797 1350 | 580 | 71 | | | | |
| C2D-250.48D | M2D09203-AF | 380 | 50 | 0.32 | 130 | 2600 | 738 1250 | 550 | 69 | | | ③ | 1.5/630V |
| | | | 60 | 0.46 | 172 | 2800 | 797 1350 | 580 | 71 | | | | |
| C4E-250.48D | M4E09203-AF | 230 | 50 | 0.28 | 50 | 1390 | 387 656 | 280 | 52 | ④ | | | 1.5/450V |
| | | | 60 | 0.23 | 51 | 1650 | 459 778 | 310 | 61 | | | | |

Centrifugal Fan 离心风机 **AC series**

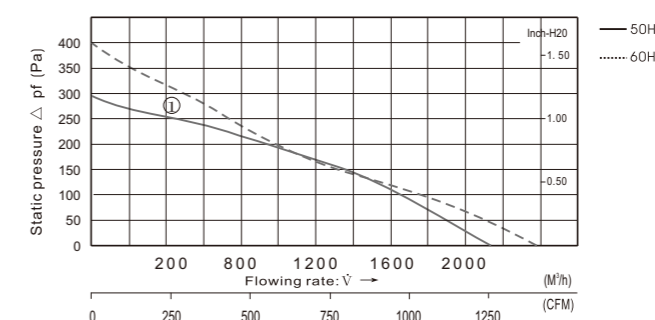
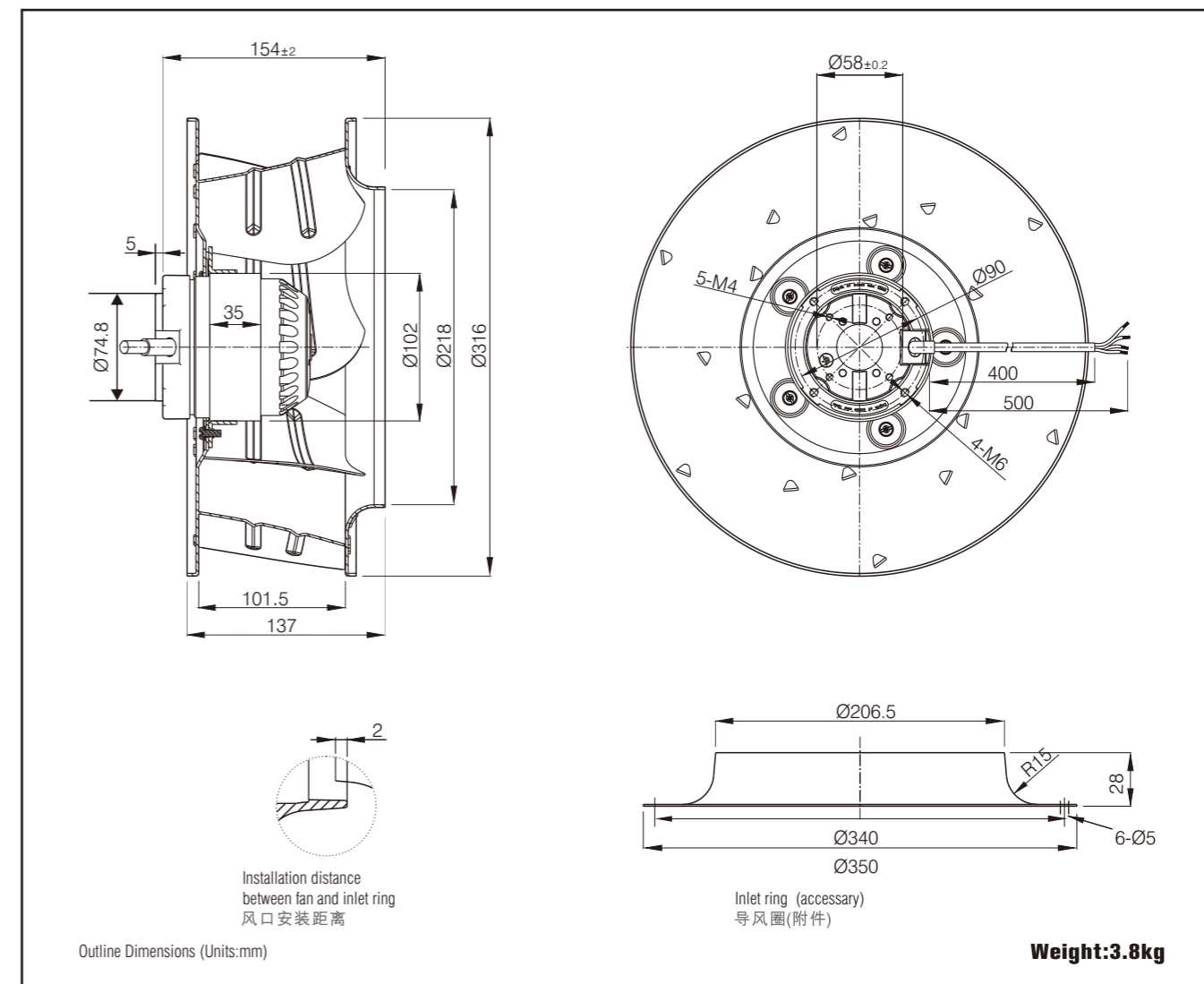


C4E-315.101
C4E-355.95
C4E-355.60

Core Highlights:

- Powerful Torque:** Large-size aluminum stamped impellers paired with high-power capacitor-type external rotor motors deliver much higher starting and running torque than ordinary motors, providing sufficient power for driving large impellers.
- High Temperature Resistance:** Metal impellers can withstand higher ambient and airflow temperatures, completely eliminating the risk of deformation or melting that plastic impellers may face under extreme high temperatures.
- Safety Fortress:** A maximum temperature resistance of 180°C, + V-0 flame retardancy + 200MΩ insulation resistance build a fortress for electrical safety, ensuring no mistakes.
- High Airflow Output:** Large impellers with diameters ranging from 315mm to 355mm directly guarantee massive airflow and air pressure, enabling powerful and effective ventilation and heat dissipation for large enclosed spaces or high-heat-generating equipment.
- Auto-Recovery Thermal Protector:** Built-in overheat protector monitors motor temperature in real time. It automatically cuts off power when abnormal overload causes excessive temperature rise, and restarts automatically when temperature returns to normal—perfectly balancing the convenience of continuous operation and ultimate safety protection.
- IP44 Protection:** Comprehensive protection against solid foreign objects larger than 1mm and splashing water from all directions. It is not affected by harsh industrial environments with heavy dust and humidity, ensuring long-term stable operation of the core motor.

This centrifugal fan is specifically designed for industrial cooling needs under high loads and harsh environments. It abandons traditional plastic impellers, adopts all-metal power components, and combines high-performance motors with top-tier insulation systems to achieve the perfect integration of power, reliability, and safety. It is the ultimate cooling solution for large cabinets and heavy-duty equipment.

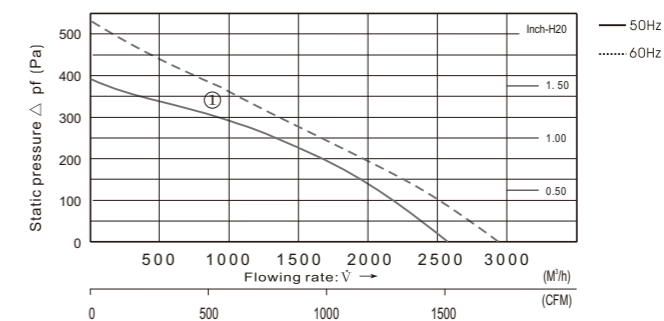
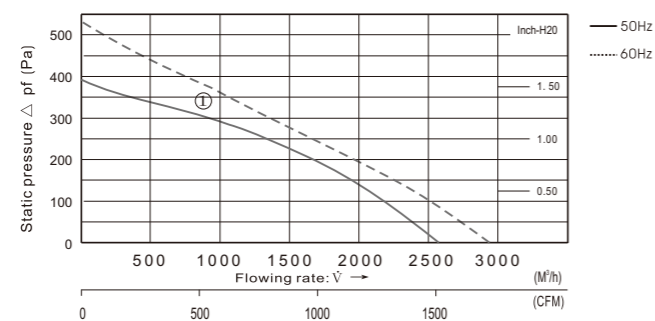
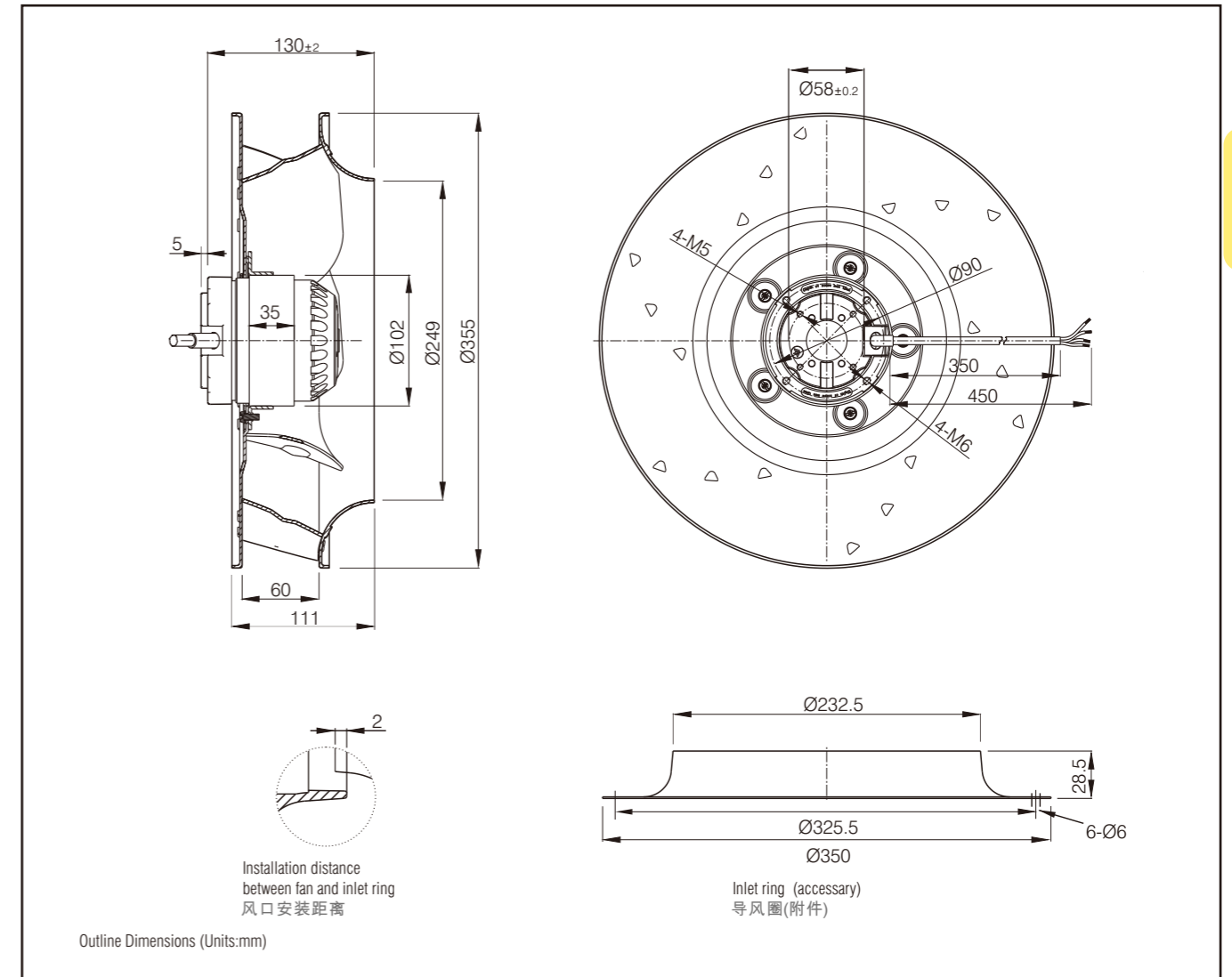
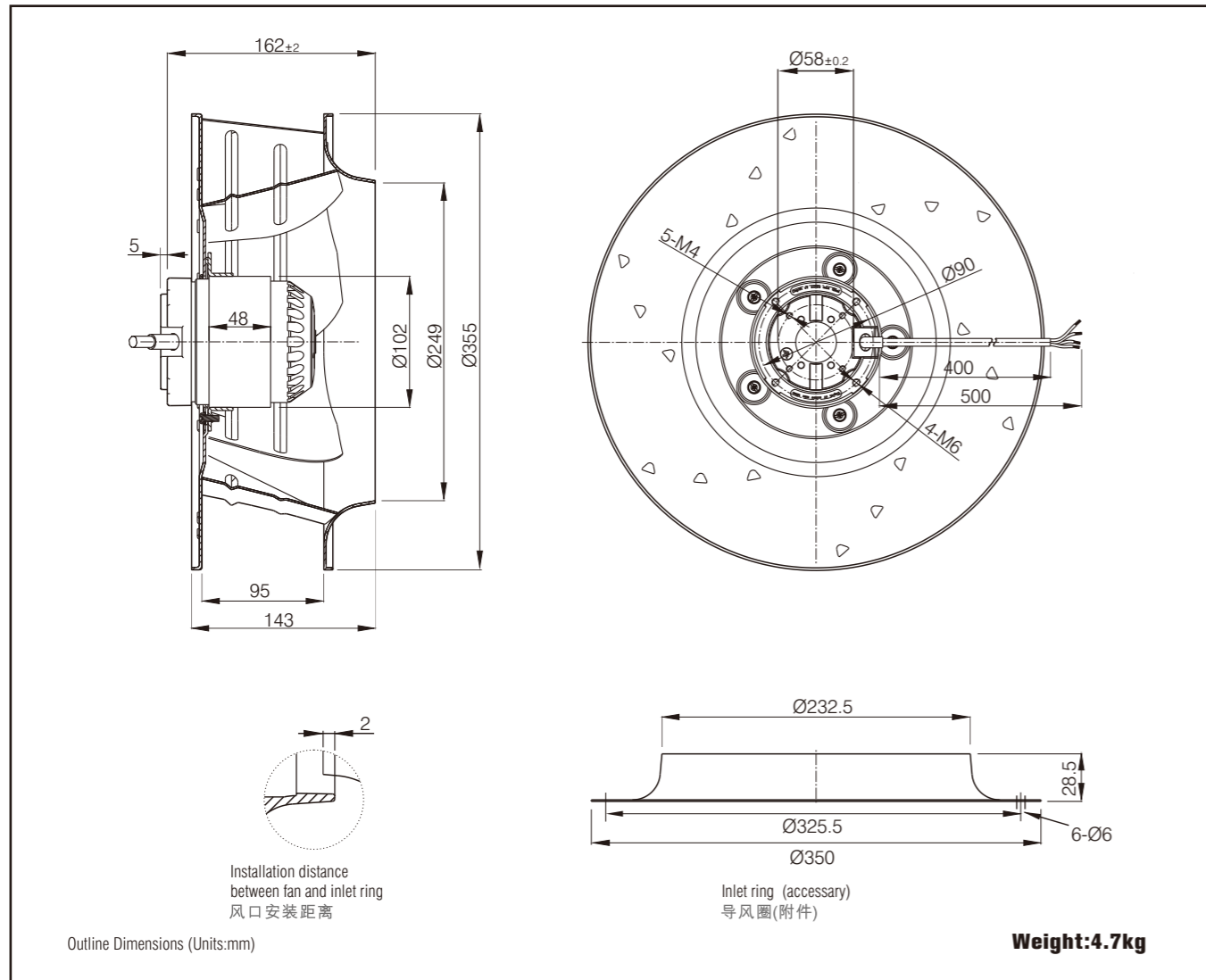


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM, m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| C4S-315.101 | M4S10201-AF | 115 | 50 | 1.16 | 120 | 1380 | 1256 2130 | 290 | 59 | ① | 12.0/250V |
| | | | 60 | 1.45 | 165 | 1560 | 1404 2380 | 400 | 62 | | |
| C4E-315.101 | M4E10201-AF | 230 | 50 | 0.46 | 101 | 1380 | 1256 2130 | 290 | 59 | | |
| | | | 60 | 0.62 | 143 | 1500 | 1404 2380 | 400 | 62 | | |
| C4D-315.101 | M4D10201-AF | 380 | 50 | 0.40 | 128 | 1380 | 1256 2130 | 290 | 59 | | |
| | | | 60 | 0.47 | 170 | 1540 | 1404 2380 | 400 | 62 | | |

C4E-355.95

C4E-355.60



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C4S-355.95 | M4S10202-AF | 115 | 50 | 1.8 | 180 | 1380 | 1505 2550 | 390 | 66 | ① | 20.0/250V |
| | | | 60 | 2.18 | 250 | 1550 | 1711 2900 | 530 | 69 | | |
| C4E-355.95 | M4E10202-AF | 230 | 50 | 0.78 | 170 | 1380 | 1505 2550 | 390 | 66 | | |
| | | | 60 | 1.00 | 230 | 1550 | 1711 2900 | 530 | 69 | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C4E-355.60 | M4E10201-AF | 230 | 50 | 0.55 | 110 | 1350 | 1505 2550 | 390 | 66 | ① | 3.0/450V |
| | | | 60 | 0.67 | 150 | 1550 | 1711 2900 | 530 | 69 | | |

Centrifugal Fan 离心风机 **AC series**

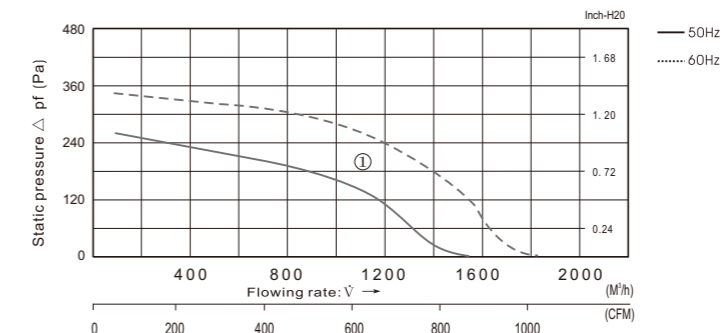
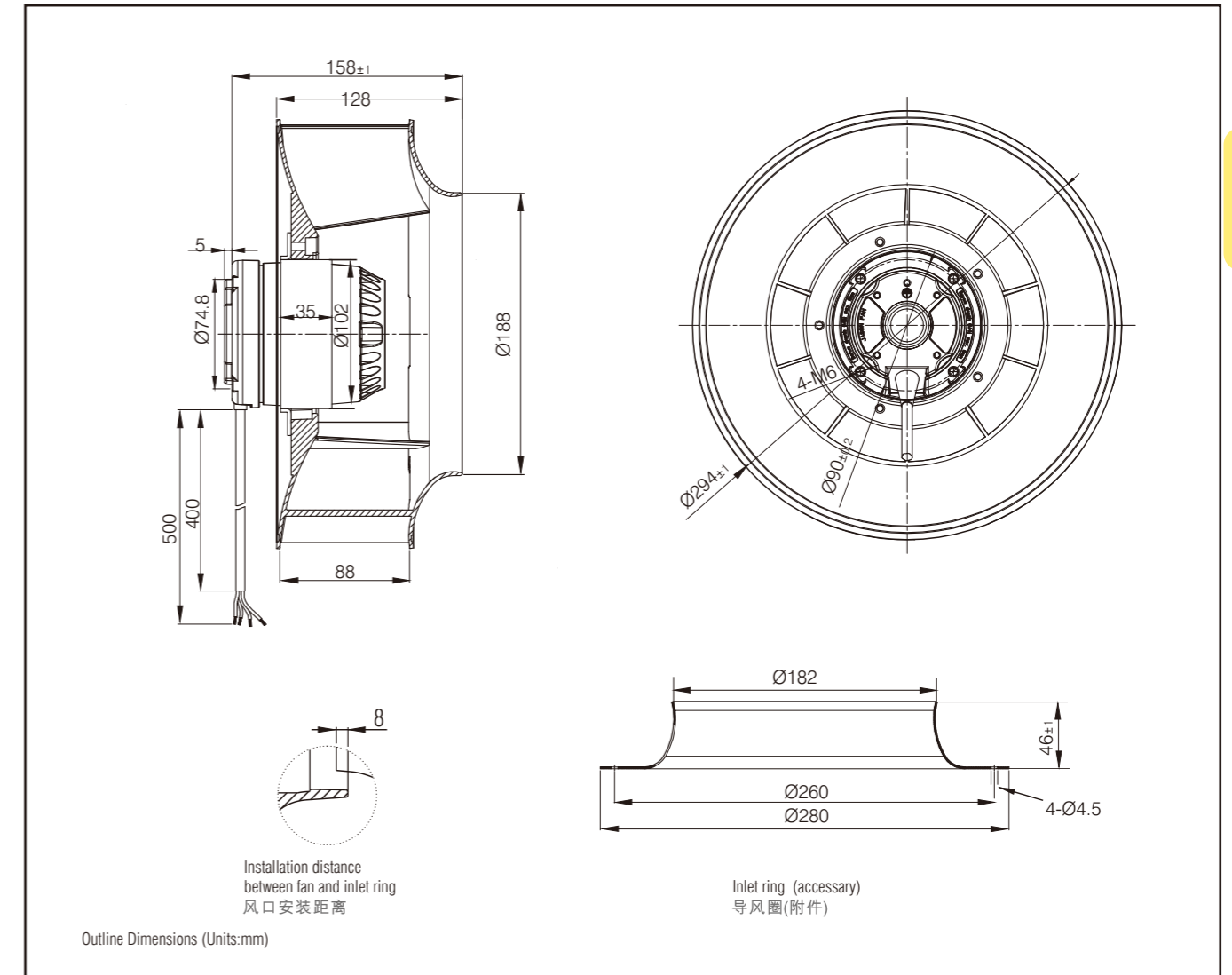


C4E-294.88PL
C4E-325.88PL
C4E-372.102PL-2
C4E-372.102PL-3

Core Highlights:

- 1 High Efficiency & Energy Saving: High-torque capacitor external rotor motor paired with aerodynamically optimized impeller delivers large airflow while maintaining high energy efficiency.
- 2 Lightweight & Strong Model: Exclusive PP + 40% GF composite material and split welding process create a high-performance impeller that matches metal strength while offering lightweight advantages.
- 3 High Airflow Output: Large impellers with diameters ranging from 290mm to 380mm directly guarantee massive airflow and air pressure, providing powerful and effective ventilation and heat dissipation for large enclosed spaces or high-heat-generating equipment.
- 4 Wide-Range Tough Performer: Capable of working in an ultra-wide temperature range of -40°C to 80°C, withstanding severe cold and extreme heat in any corner of the globe.
- 5 Ultimate Insulation: Ultra-high insulation resistance of over 200MΩ plus Class F (180°C) insulation system provides ultimate electrical safety and reliability.
- 6 Intelligent Safety Protection: Built-in automatic thermal protection + V-0 flame retardancy create a dual safety firewall from inside to outside.
- 7 High Humidity Resistance: Operates normally in 0%-95% humidity environments (non-condensing), adapting to rainy and humid climates.
- 8 IP44 Protection: Dust-proof (against solid foreign objects above 1mm) and splash-proof, ensuring the internal core motor of the fan is not affected in harsh industrial environments with heavy dust and slight liquid splashes.

This NIETZ centrifugal fan is a technology driven product, whose core advantage lies in innovative composite material applications and manufacturing processes. It is very suitable for applications that require high air volume, high reliability, lightweight, and corrosion resistance, such as large communication cabinets, high-end CNC machine tools, testing equipment, medical instruments, and rail transit vehicles with lightweight requirements. It represents the trend of industrial fans developing towards high performance, lightweight, and high safety.

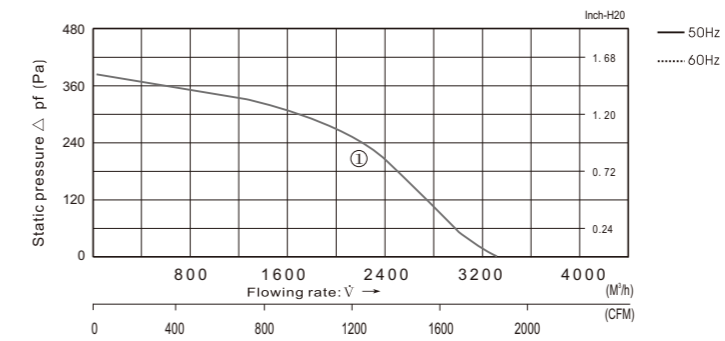
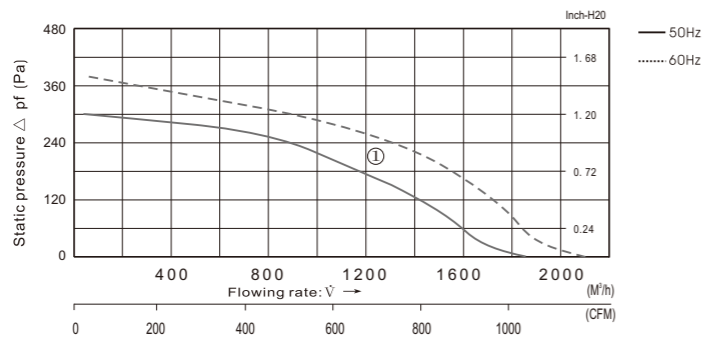
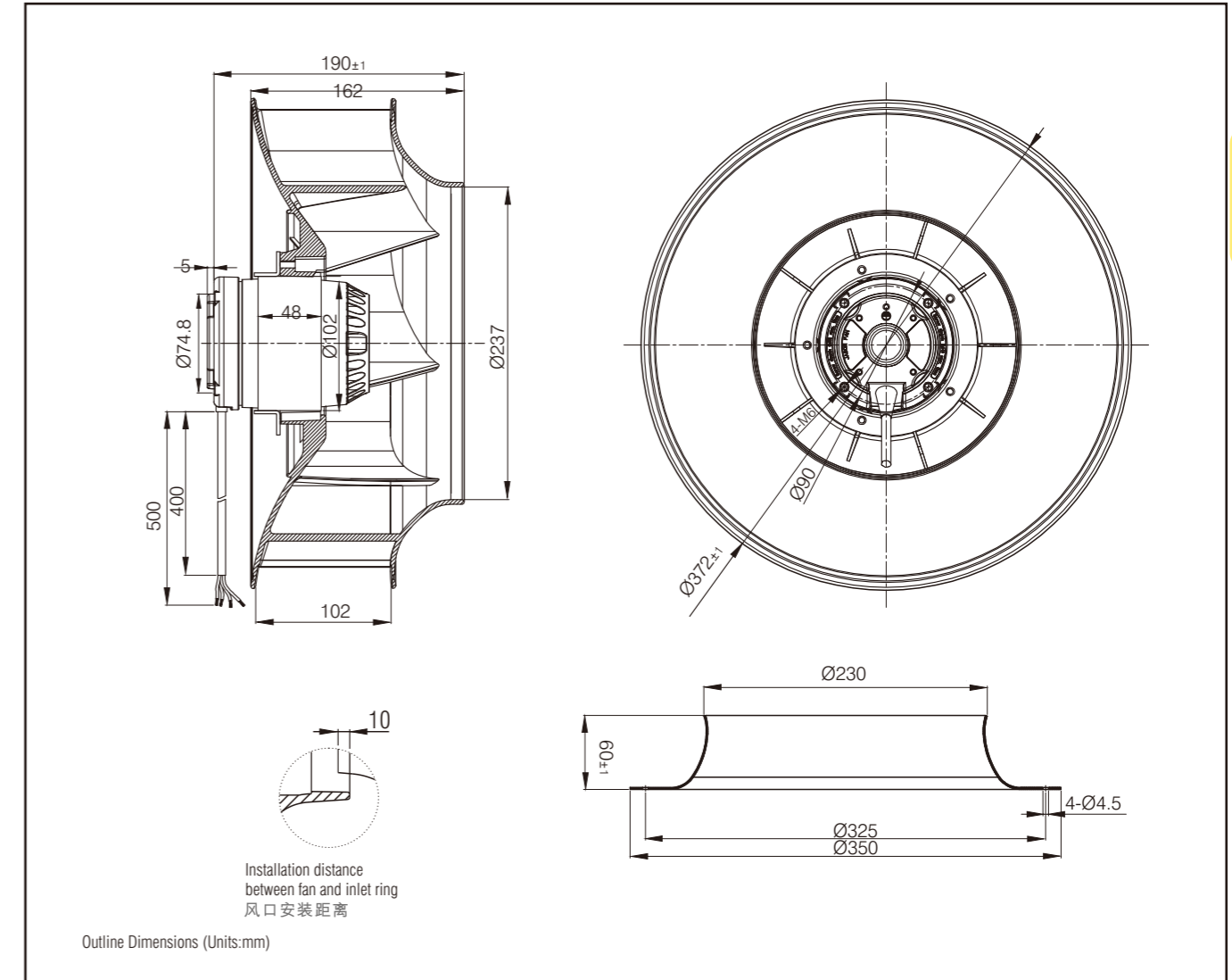
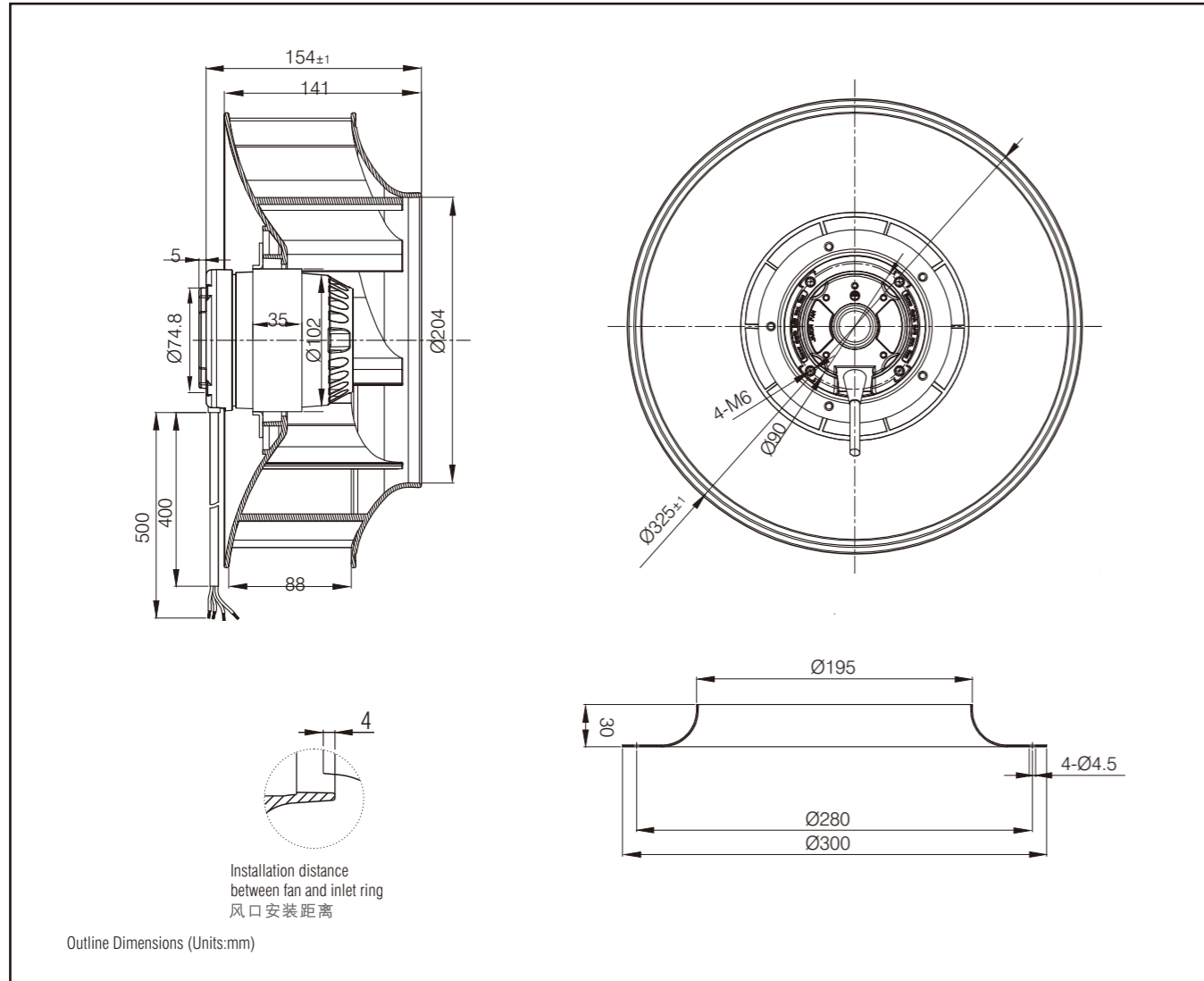


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) -10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM / m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C4S-294.88PL | M4S10201-AF | 115 | 50 | 0.84 | 90 | 1415 | 896 / 1520 | 306 | 66 | ① | 12.0/250V |
| | | | 60 | 1.00 | 118 | 1640 | 1079 / 1830 | 408 | 69 | | |
| C4E-294.88PL | M4E10201-AF | 230 | 50 | 0.42 | 90 | 1415 | 896 / 1520 | 306 | 66 | | |
| | | | 60 | 0.51 | 118 | 1640 | 1079 / 1830 | 408 | 69 | | |
| C4D-294.88PL | M4D10201-AF | 380 | 50 | 0.25 | 90 | 1415 | 896 / 1520 | 306 | 66 | | |
| | | | 60 | 0.30 | 118 | 1640 | 1079 / 1830 | 408 | 69 | | |

C4E-325.88PL

C4E-372.102PL-2



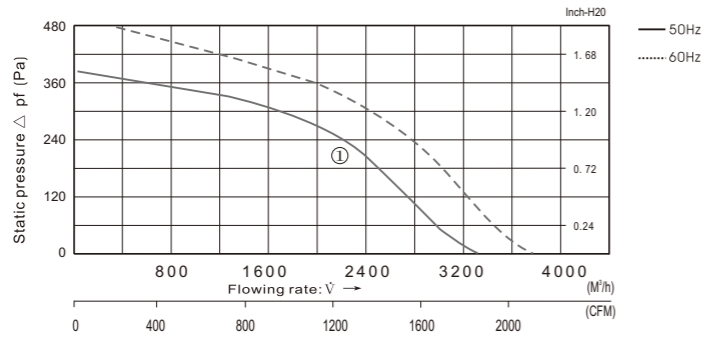
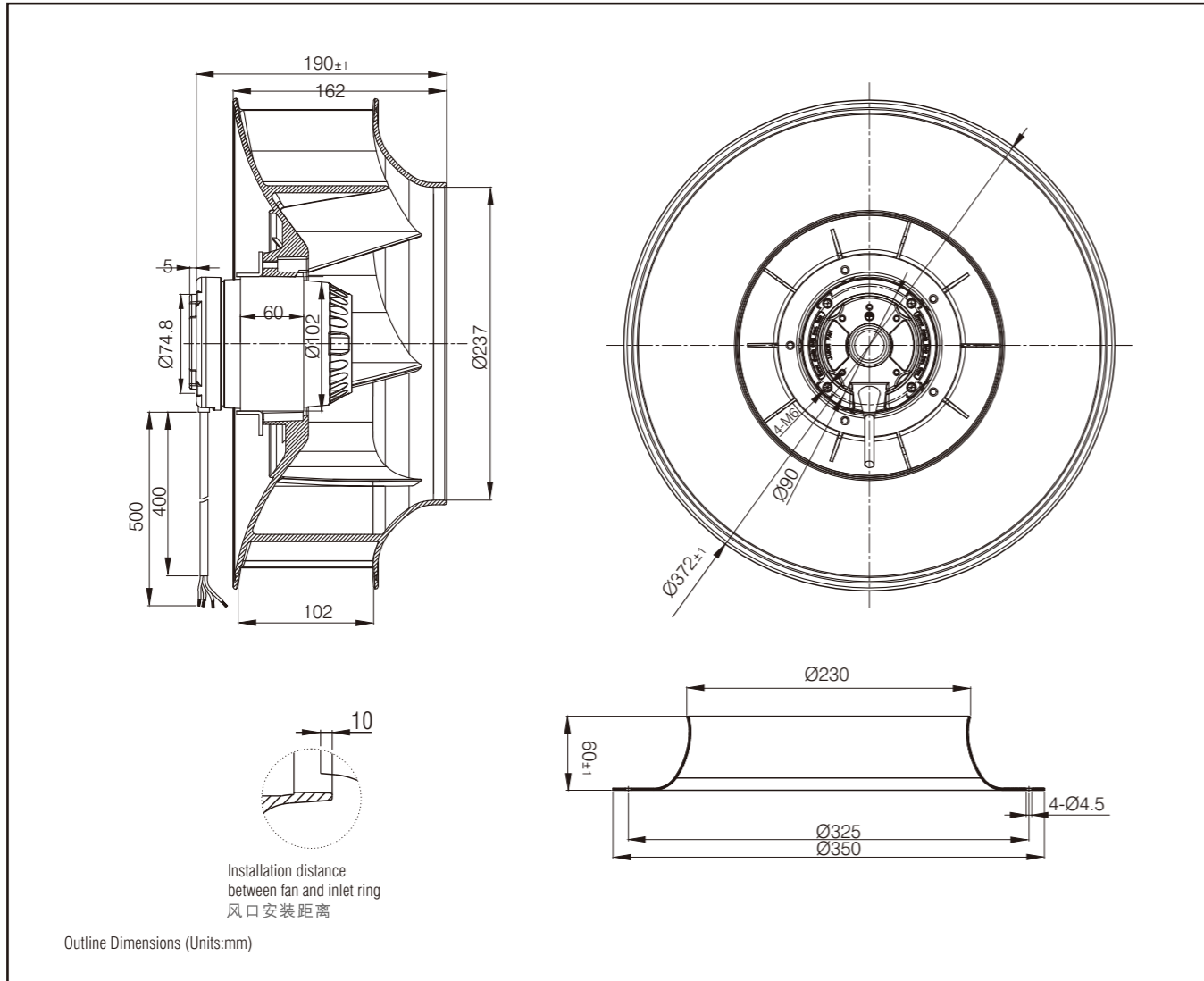
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|----------|
| C4S-325.88PL | M4S10201-AF | 115 | 50 | 1.10 | 123 | 1380 | 1103 1870 | 352 | 66 | ① | 12/250V | |
| | | | 60 | 1.55 | 178 | 1550 | 1233 2090 | 441 | 69 | | | |
| C4E-325.88PL | M4E10201-AF | 230 | 50 | 0.54 | 123 | 1380 | 1103 1870 | 352 | 66 | | | 4.0/450V |
| | | | 60 | 0.78 | 178 | 1550 | 1233 2090 | 441 | 69 | | | |
| C4D-325.88PL | M4D10201-AF | 400 | 50 | 0.34 | 115 | 1400 | 1103 1870 | 352 | 66 | | -- | |
| | | | 60 | 0.32 | 150 | 1600 | 1233 2090 | 441 | 69 | | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|-----------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| C4S-372.102PL-2 | M4S10202-AF | 115 | 50 | 1.81 | 196 | 1360 | 1981 3300 | 450 | 72 | ① | 20/250V |
| C4E-372.102PL-2 | M4E10202-AF | | 230 | 50 | 0.91 | 196 | 1360 | 1981 3300 | 450 | | 72 |

C4E-372.102PL-3

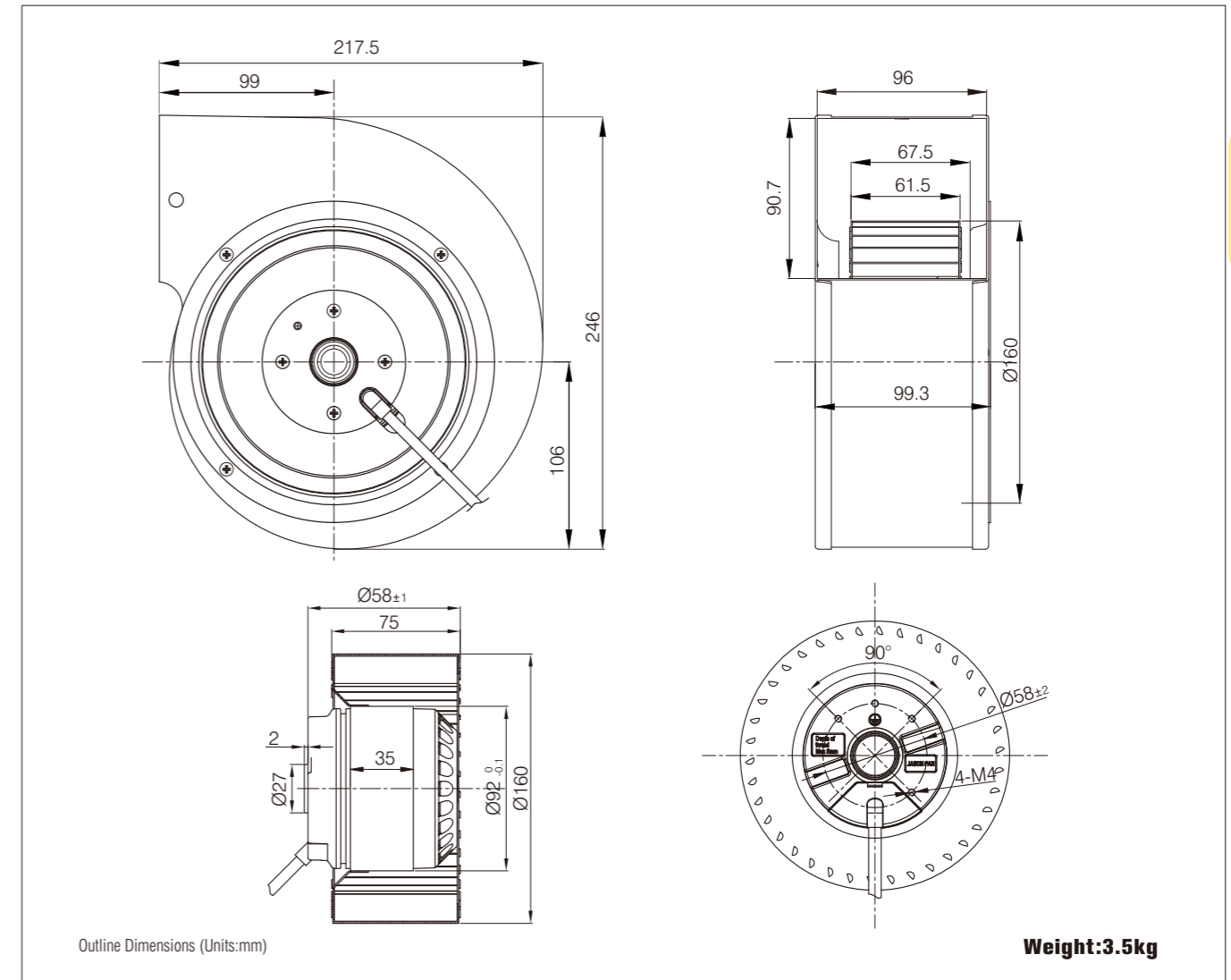
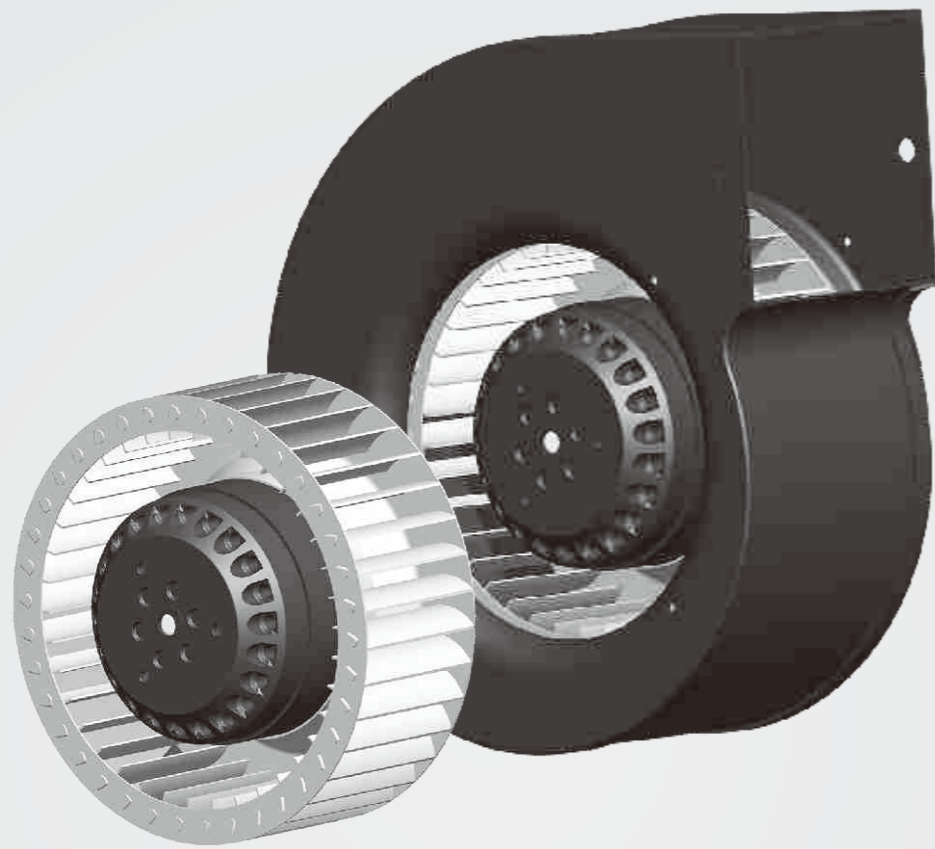


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|-----------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|
| C4S-372.102PL-3 | M4D10203-AF | 115 | 50 | 2.00 | 206 | 1380 | 1981 3360 | 450 | 72 | ① | 20/250V |
| | | | 60 | 1.50 | 284 | 1560 | 2247 3810 | 580 | 75 | | |
| C4E-372.102PL-3 | M4E10203-AF | 230 | 50 | 0.98 | 206 | 1380 | 1981 3360 | 450 | 72 | | |
| | | | 60 | 1.24 | 284 | 1560 | 2247 3810 | 580 | 75 | | |

Total solution
总解决方案

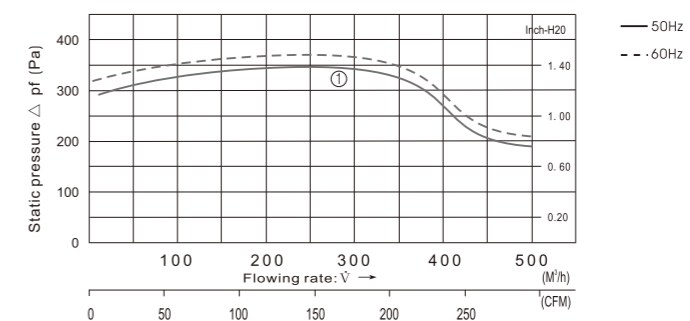
Radial Blower 径向鼓风机 *AC series*



Core Highlights:

- 1 Casing: Made of galvanized steel, formed by stamping and treated with surface electrophoresis. It has excellent resistance to salt spray and acid-base corrosion, keeping the product in like-new condition for a long time.
- 2 Squirrel-Cage Capacitor External Rotor Motor: Delivers high starting torque, high operating efficiency, and excellent load characteristics, ensuring strong and stable power output.
- 3 Designed to IEC 60085 Class F (155°C): The insulation system has a high heat resistance rating, providing sufficient safety margin for the motor's continuous operation in high-temperature environments.
- 4 Dynamic Balance: Vibration value is precisely controlled below 1.27mm/s, bringing a smooth and low-noise operation experience.
- 5 Intelligent Safety Protection: Automatic thermal protection function safeguards equipment safety.

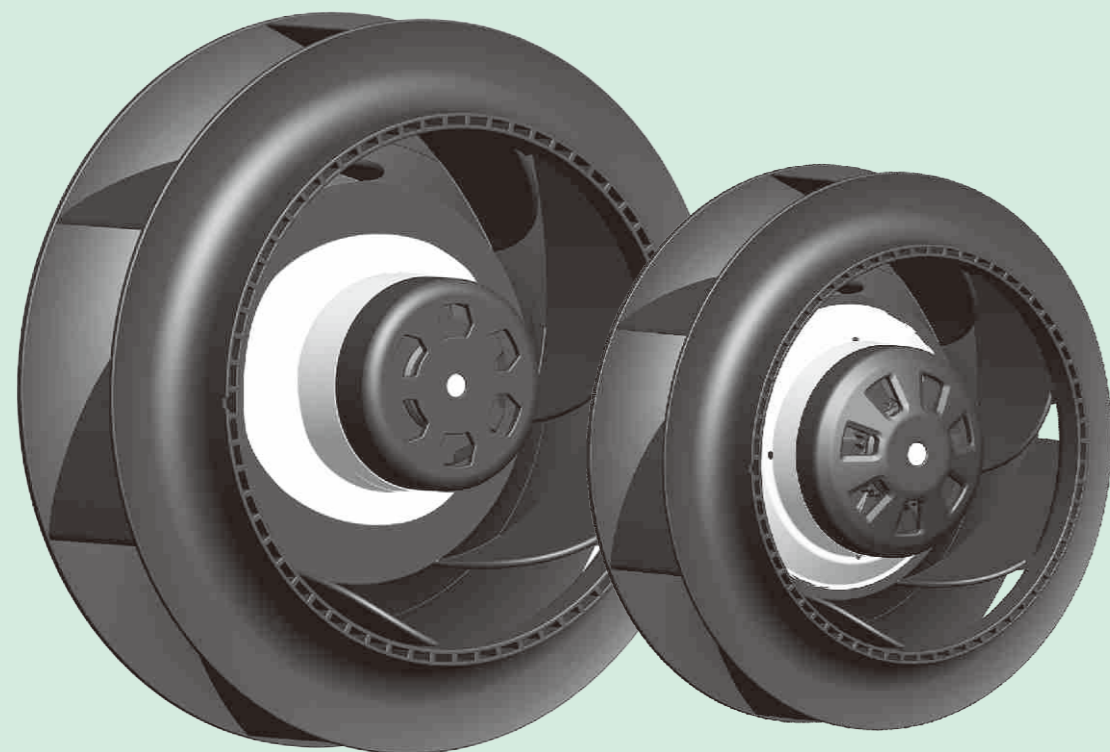
This radial blower is an industrial-grade product with leading performance. Its "ultra-low vibration" highlight makes it suitable not only for general industrial fields but also an ideal choice for vibration-sensitive scenarios such as precision manufacturing, high-end equipment, and laboratory equipment.



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) _{100% 30%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|---------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FB2S-160.60ML | M2S09204-AF | 115 | 50 | 2.0 | 230 | 2200 | 325 550 | 380 | 70 | ① | 25.0/250V |
| | | | 60 | 2.5 | 290 | 2120 | 312 530 | 400 | 70 | | |
| FB2E-160.60ML | M2E09204-AF | 230 | 50 | 0.84 | 192 | 2000 | 300 510 | 380 | 70 | ① | 6.0/450V |
| | | | 60 | 1.02 | 232 | 1920 | 294 500 | 400 | 70 | | |

Centrifugal Fan 离心风机 **EC series**



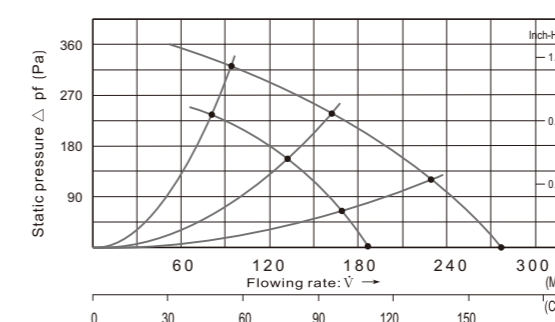
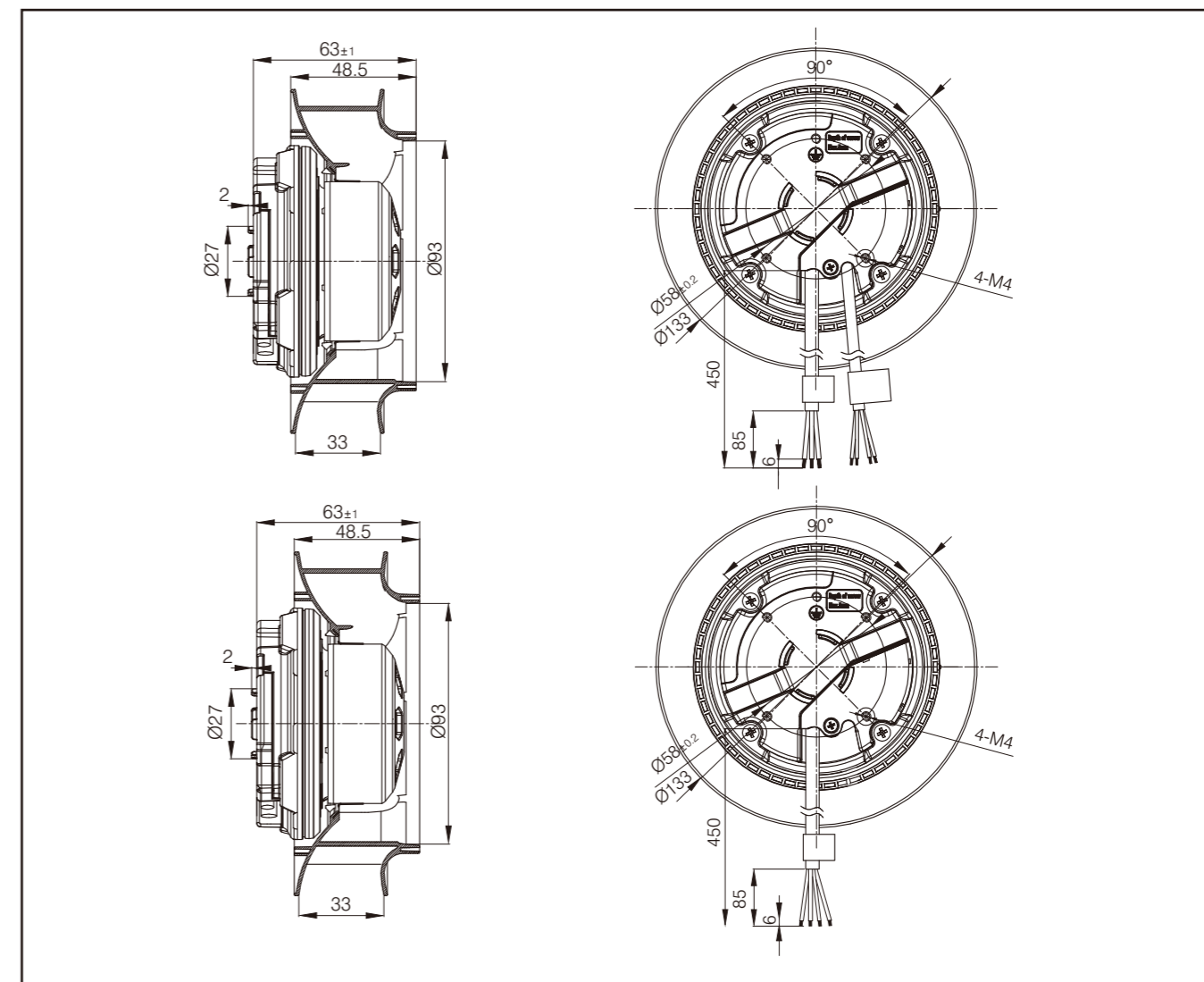
Core Highlights:

- 1 Ultimate Energy Efficiency:** Adopts advanced EC motor technology to significantly improve operating efficiency, greatly reduce energy consumption, and save long-term usage costs.
- 2 Improved Air Technology:** Uses centrifugal impellers optimized by Computational Fluid Dynamics (CFD) to overcome system resistance, achieve large airflow, and provide a quiet and comfortable user experience.
- 3 Perfect Coordination of Control/Motor/Impeller:** The electronic driver is accurately matched with motor parameters and impeller moment of inertia, ensuring the entire system always operates in the highest efficiency range.
- 4 Precise Intelligent Speed Regulation:** Supports two-speed/stepless speed regulation; users can flexibly adjust the speed according to actual cooling or ventilation needs. It automatically reduces speed when demand is low, achieving the dual advantages of energy saving and noise reduction.
- 5 IP55 Protection Rating:** Provides protection against dust and water splashes from all directions, enabling it to cope with harsh industrial environments that are humid and dusty.

It is highly suitable for applications in:

- 1 Communications and network infrastructure**
- 2 Inverters, servo drives, PLC control cabinets, industrial laser equipment**
- 3 Medical and laboratory equipment**
- 4 Commercial and professional equipment**
- 5 High-end commercial air conditioning/fresh air systems**
- 6 Self-service terminals: Adapt to outdoor or semi-outdoor environments, requiring long service life and high reliability**

This Fan EC centrifugal fan is a comprehensive solution for the high-end market. By combining an intelligent EC motor with an efficient centrifugal aerodynamic design, it delivers strong heat dissipation capabilities (especially air pressure) while achieving the perfect balance of energy saving, quiet operation, intelligent control, and environmental adaptability—making it an ideal choice for the above demanding fields.

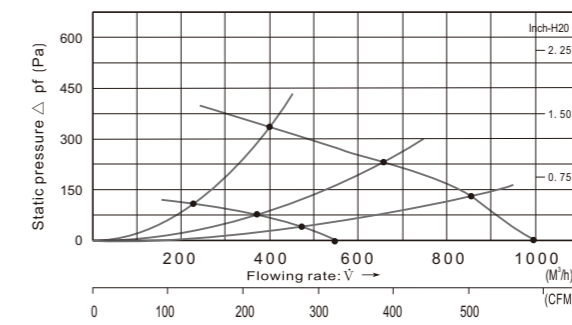
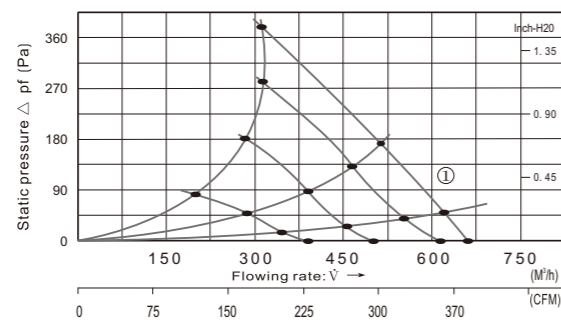
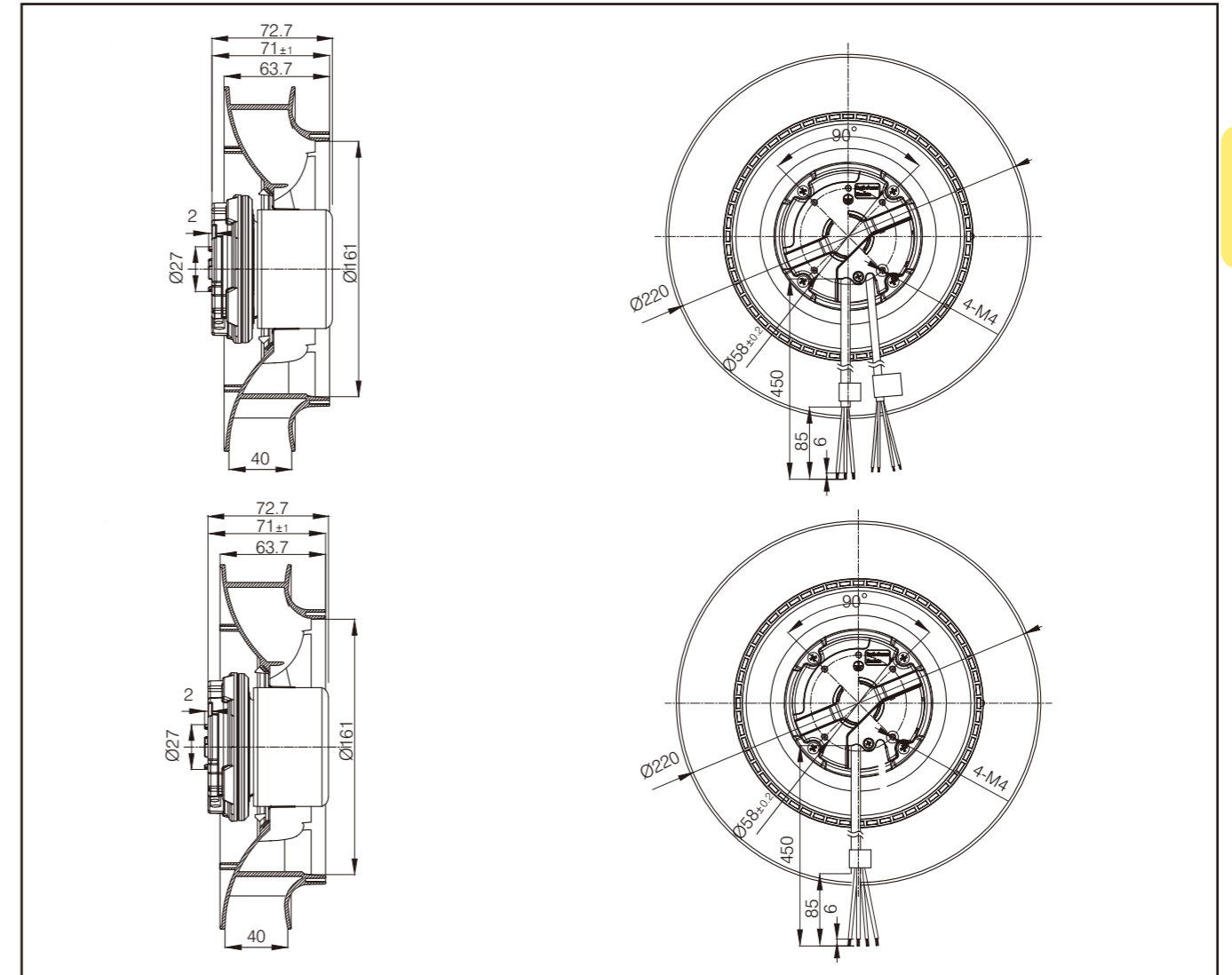
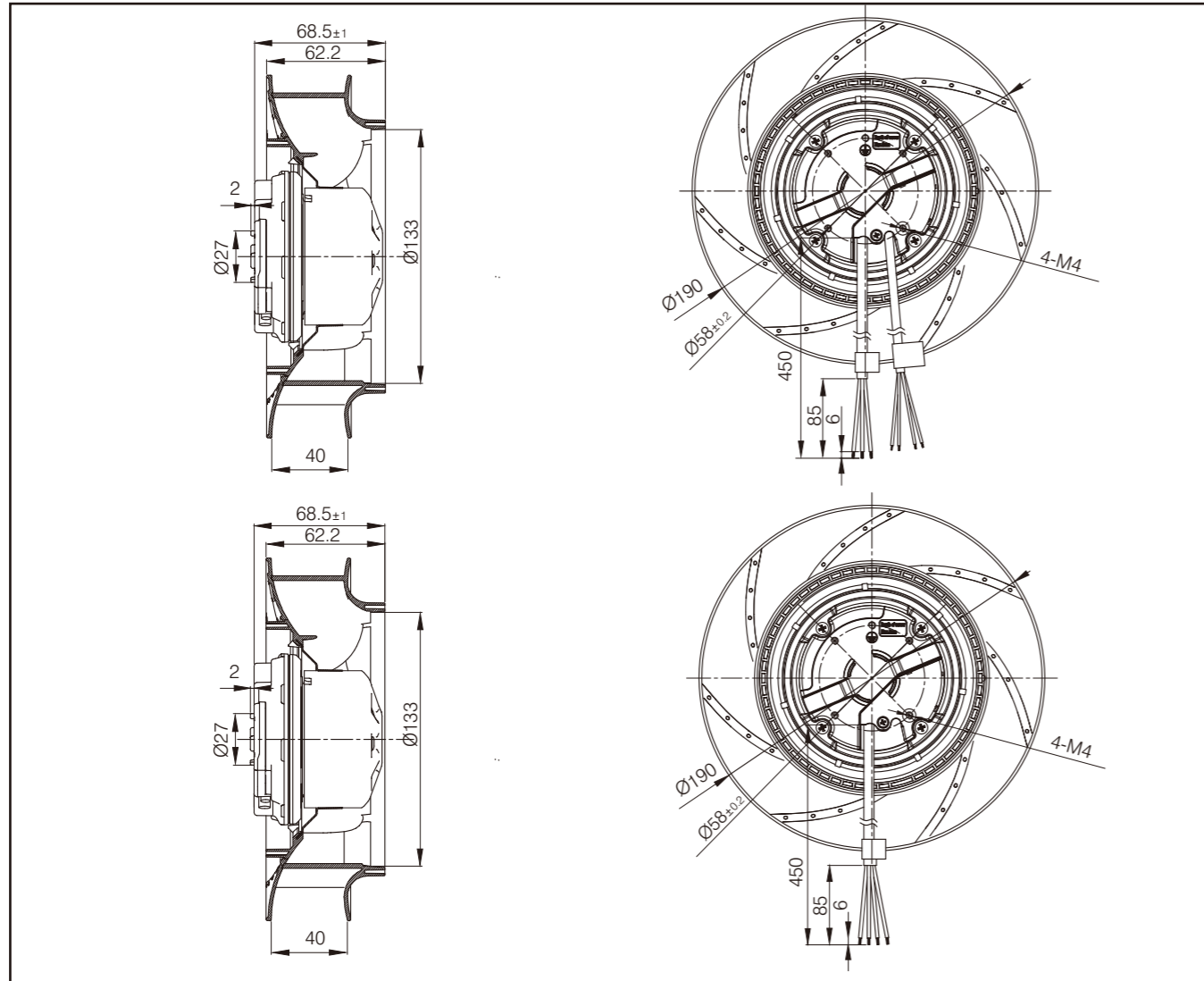


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Type 调速类型 (V) | Speed 回转速 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------|--------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| EC133.33PL | M3G04520-EA | 220 | 50 60 | 0.27 | 27 | 1~10 | 3600 | 148 250 | 490 | -10~70 | 63 | 41/H1 |
| EC133.33PLA | M3G04520-EA | 220 | 50 60 | 0.27 | 27 | 2档转速 | 3600 | 148 250 | 490 | -10~70 | 63 | 41/H2 |

EC190.40PL

EC220.40PL



Parameters

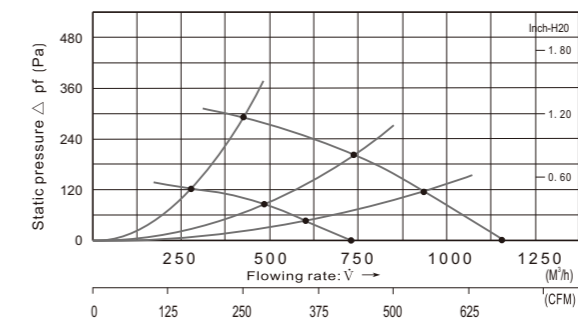
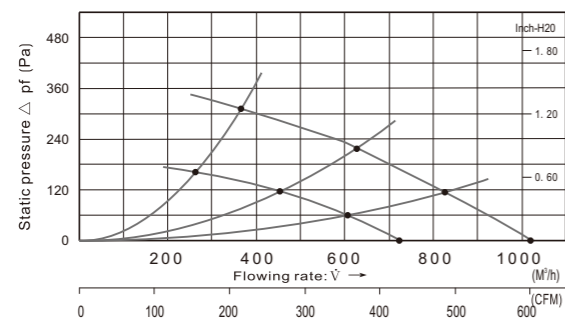
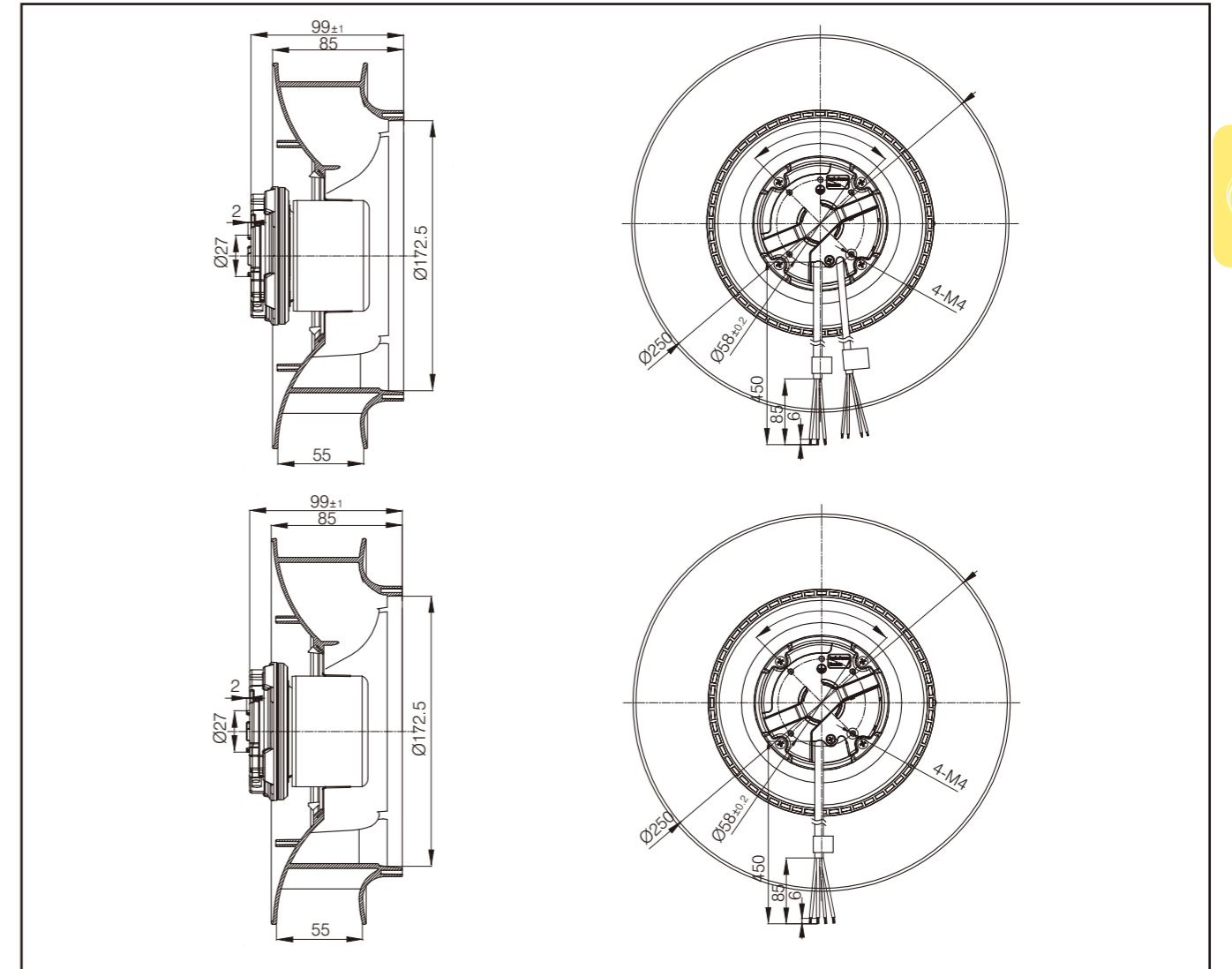
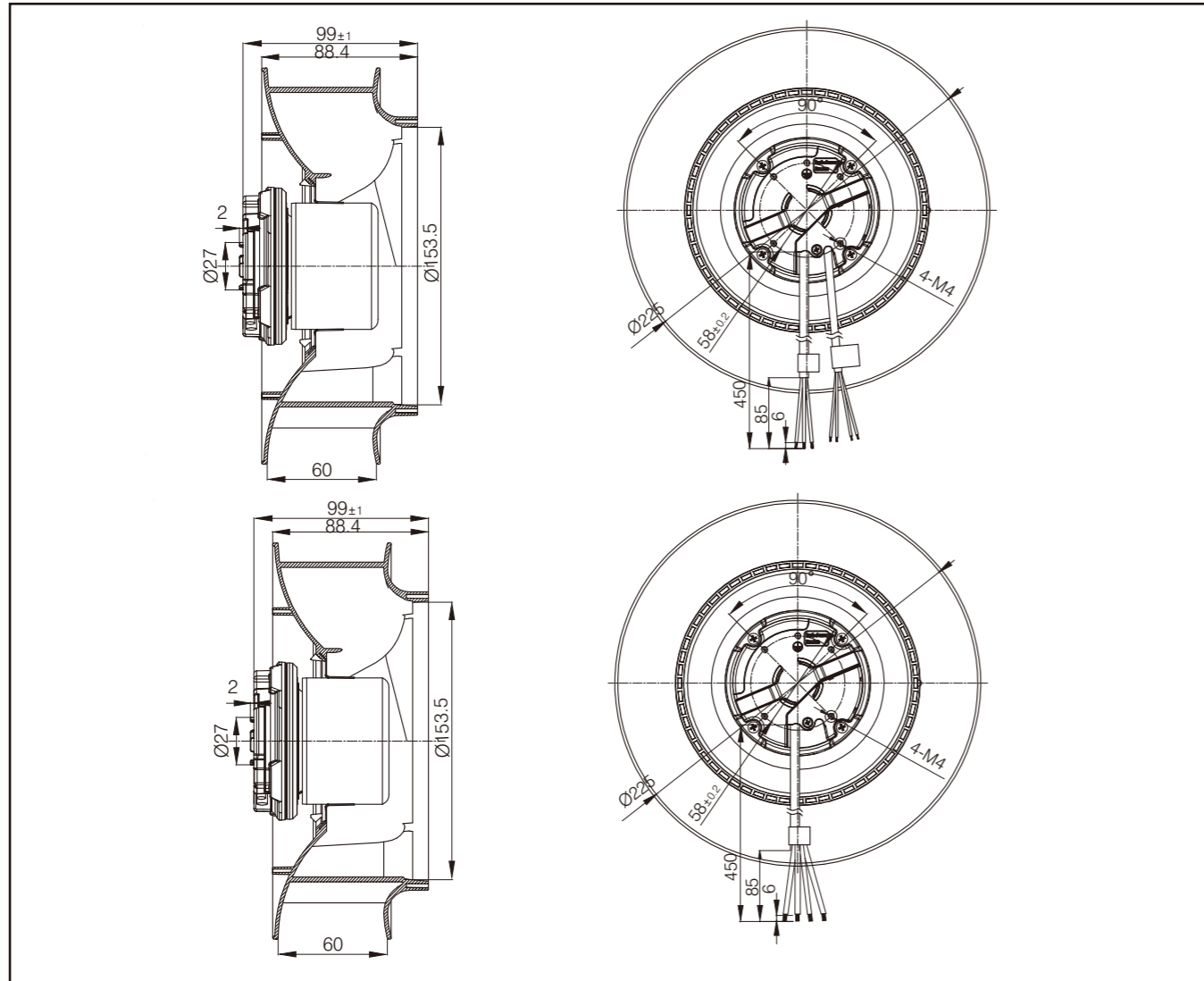
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| EC190.40PL | M3G05526-EA | 220 | 50 60 | 0.33 | 45 | 1~10 | 2800 | 400 678 | 490 | -10~70 | 65 | 41/H1 |
| EC190.40PLA | M3G05526-EA | 220 | 50 60 | 0.33 | 45 | 2档转速 | 2800 | 400 678 | 490 | -10~70 | 65 | 41/H2 |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| EC220.40PL | M3G05535-EA | 220 | 50 60 | 0.70 | 85 | 1~10 | 2550 | 578 980 | 530 | -10~70 | 70 | 41/H1 |
| EC220.40PLA | M3G05535-EA | 220 | 50 60 | 0.70 | 85 | 2档转速 | 2550 | 578 980 | 530 | -10~70 | 70 | 41/H2 |

EC225.60PL

EC250.55PL



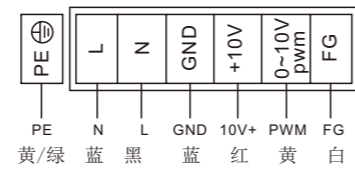
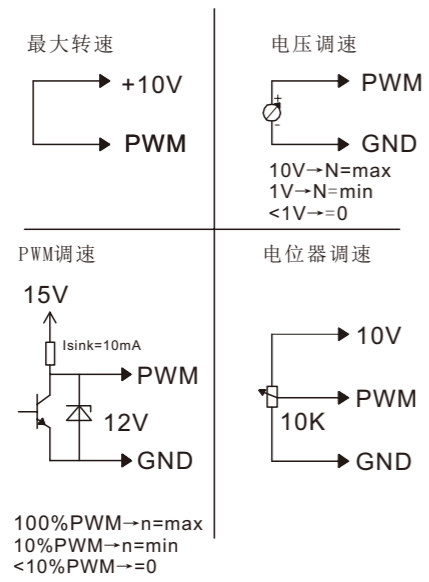
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| EC225.60PL | M3G05543-EA | 220 | 50 60 | 0.70 | 80 | 1~10 | 2200 | 600 1015 | 460 | -10~70 | 69 | 41/H1 |
| EC225.60PLA | M3G05543-EA | 220 | 50 60 | 0.70 | 80 | 2档转速 | 2200 | 600 1015 | 460 | -10~70 | 69 | 41/H2 |

Parameters

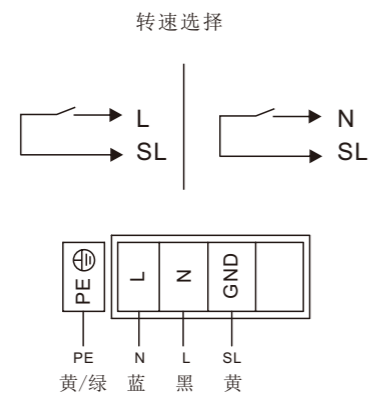
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| EC250.55PL | M3G05543-EA | 220 | 50 60 | 0.70 | 80 | 1~10 | 2000 | 680 1150 | 187 | -10~70 | 69 | 41/H1 |
| EC250.55PLA | M3G05543-EA | 220 | 50 60 | 0.70 | 80 | 2档转速 | 2000 | 680 1150 | 187 | -10~70 | 69 | 41/H2 |

H1:

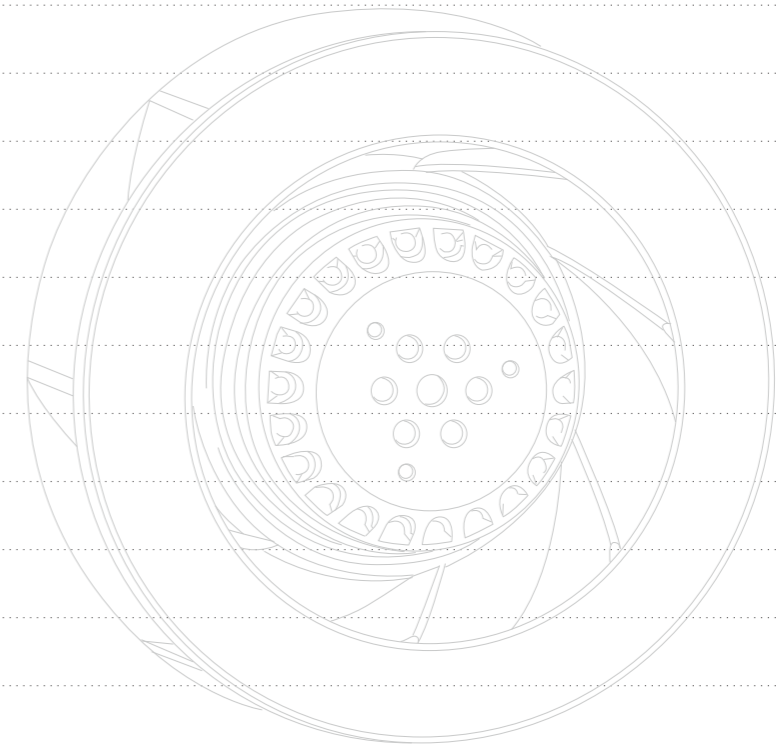


| | |
|-------|----------------------|
| 白色线 | Fg转速信号输出(示波器) |
| 黄色线 | PWM转速控制(输入0~10V PWM) |
| 红色线 | 电源正极 +10V |
| 蓝色线 | 电源负极 GND |
| N 蓝色线 | 电源主进线 |
| L 黑色线 | 电源零进线 |
| 黄/绿色线 | 接地线 |

H2:



| | |
|-------|-------|
| S1黄色线 | 转速选择 |
| N蓝色线 | 电源主进线 |
| L黑色线 | 电源零进线 |
| 黄/绿色线 | 接地线 |

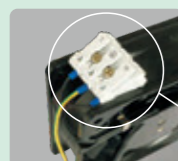
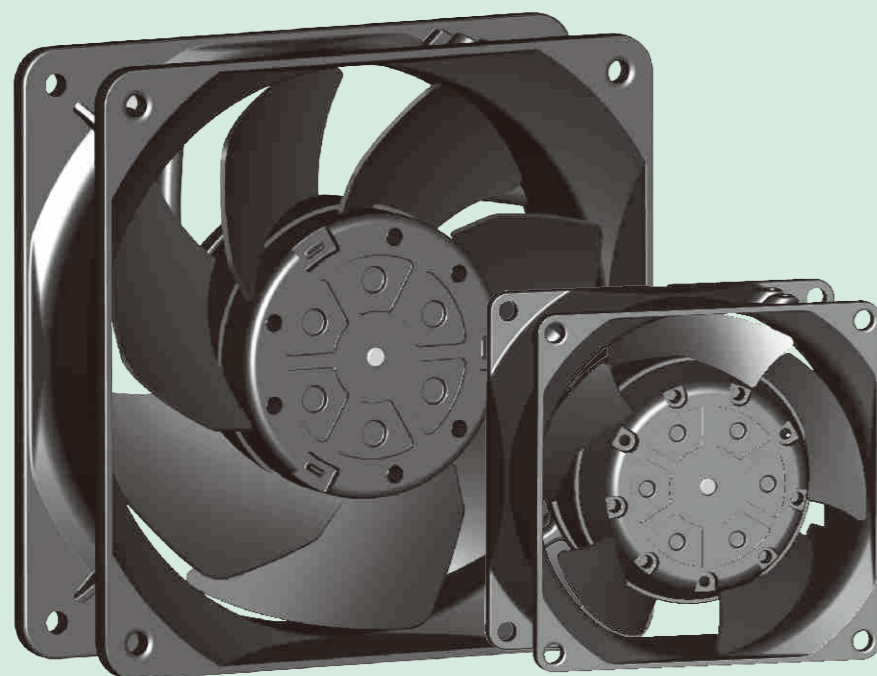


Total solution
总解决方案

Metal Axial Fan
金属轴流风扇

AC series

FJ8032MABL
FJ9032MABL
FJ12032MABL



① Connection mode:
接线方式: 端子
FJ12032MABD

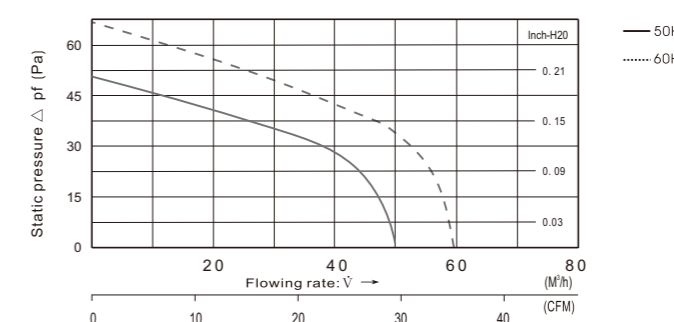
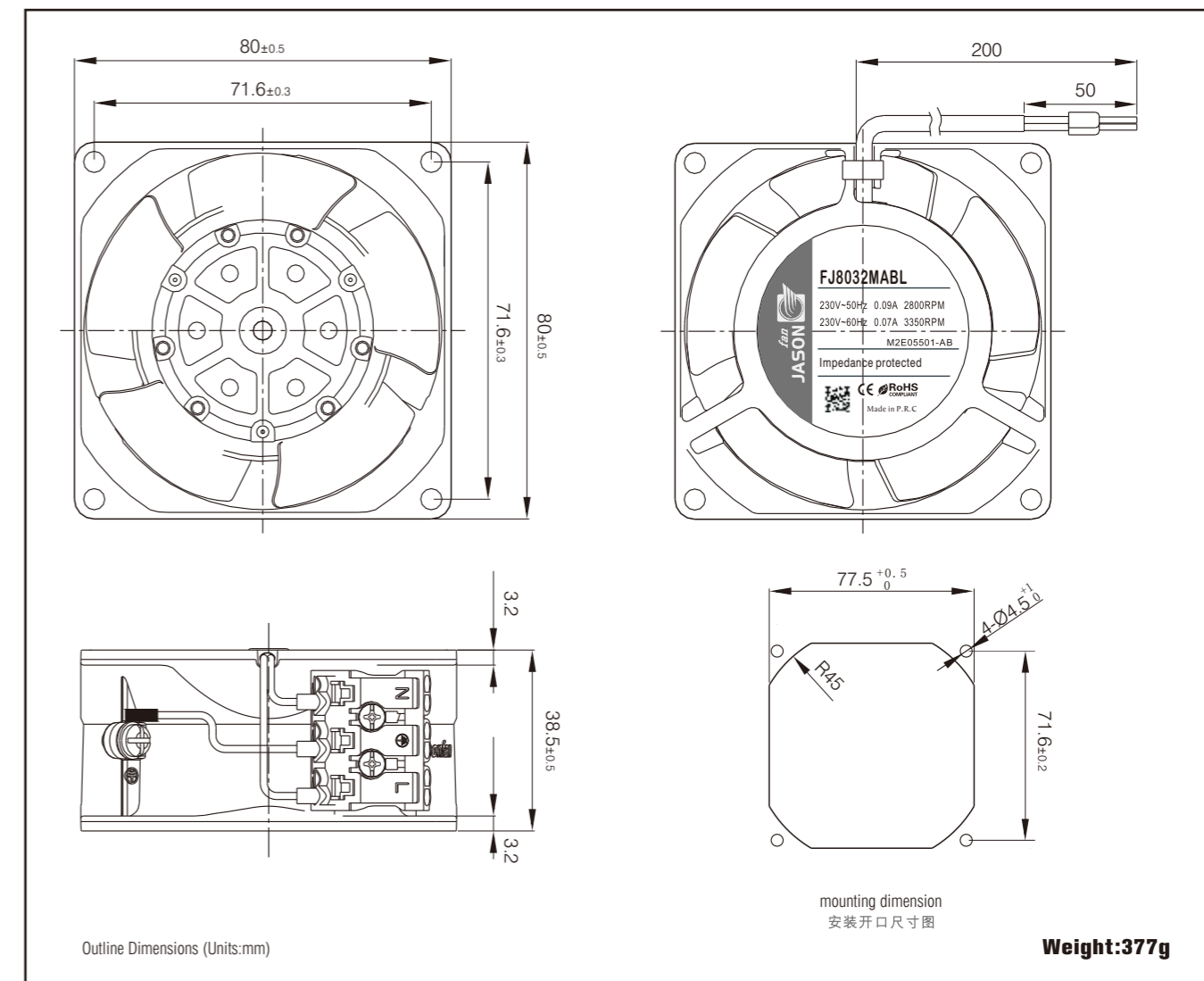


② Connection mode:
接线方式: 引线
FJ12032MABL

Core Highlights:

- 1 Compact yet Powerful: With a compact design, its airflow is increased by up to 30% compared to similar products, delivering stronger cooling in a smaller size.
- 2 All-Metal High-Temperature Resistance: Aluminum alloy die-cast frame and metal fan blades can withstand 100°C high-temperature environments, ensuring stability and durability.
- 3 Wide-Range Application: Ultra-wide operating temperature range of -40°C to +100°C, easily coping with extreme global climates and high-temperature working conditions.
- 4 Safe Insulation: AC 1800V super voltage resistance + Class F insulation system, providing ultimate electrical safety guarantee.
- 5 Industrial Protection: IP44 protection rating, resistant to dust and water splashes, adapting to harsh industrial environments.

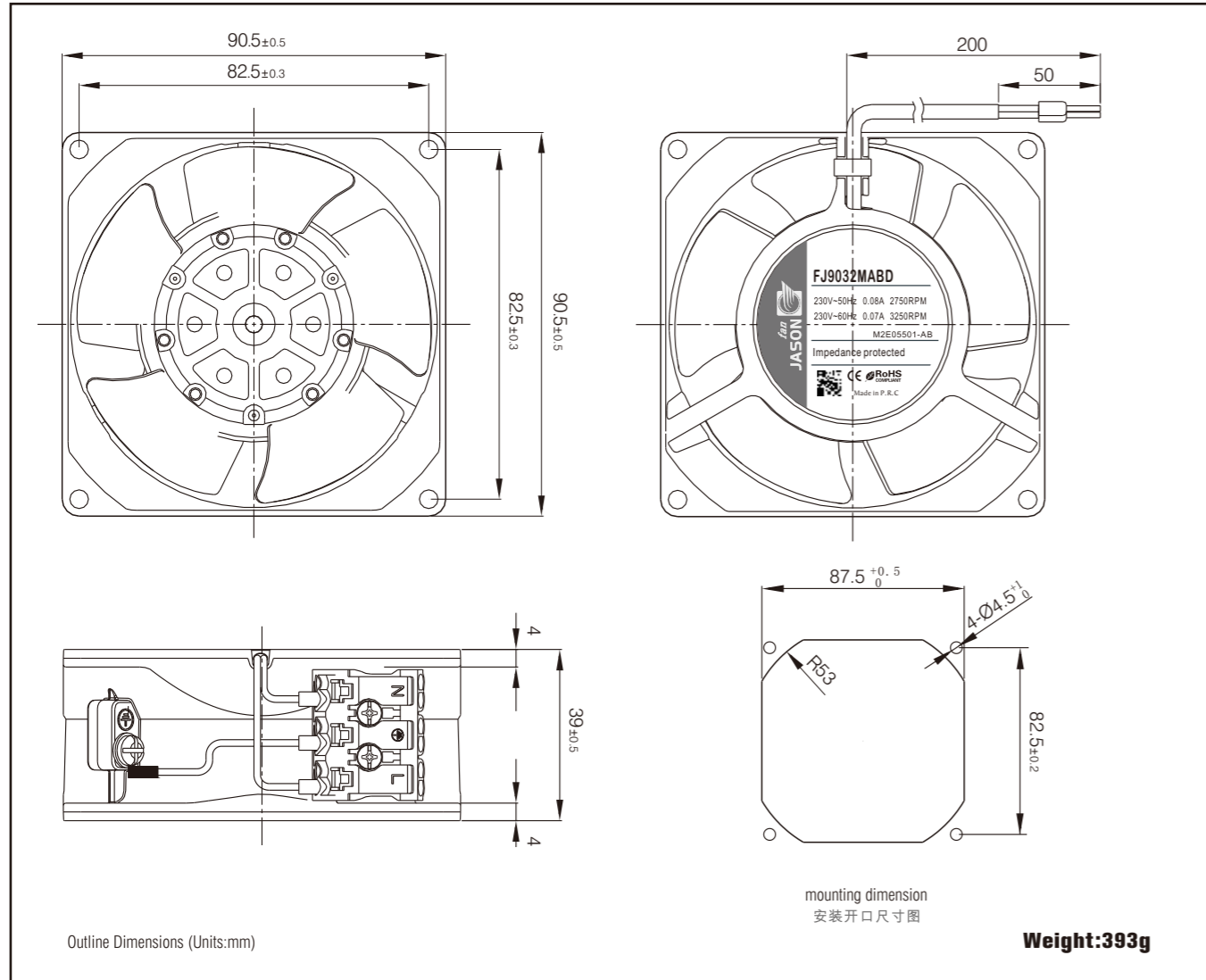
This AC axial fan is a product with "high performance, small size, and high temperature resistance" as its core competitiveness. It is ideal for application scenarios with compact space and high heat generation, such as high-end servo drives, inverter interiors, laser equipment, and auxiliary cooling for high-temperature industrial equipment (e.g., drying ovens, baking ovens). It perfectly resolves the contradiction between the miniaturization trend of equipment and the growing demand for heat dissipation, making it a preferred heat dissipation component for engineers when designing high-density and high-reliability equipment.



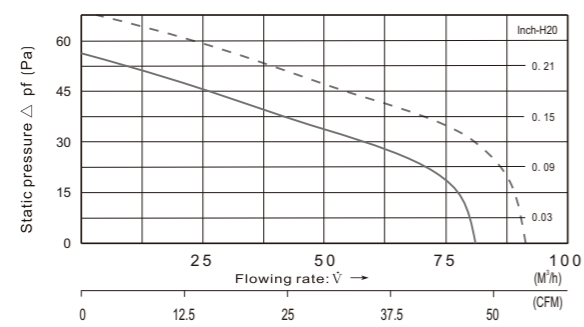
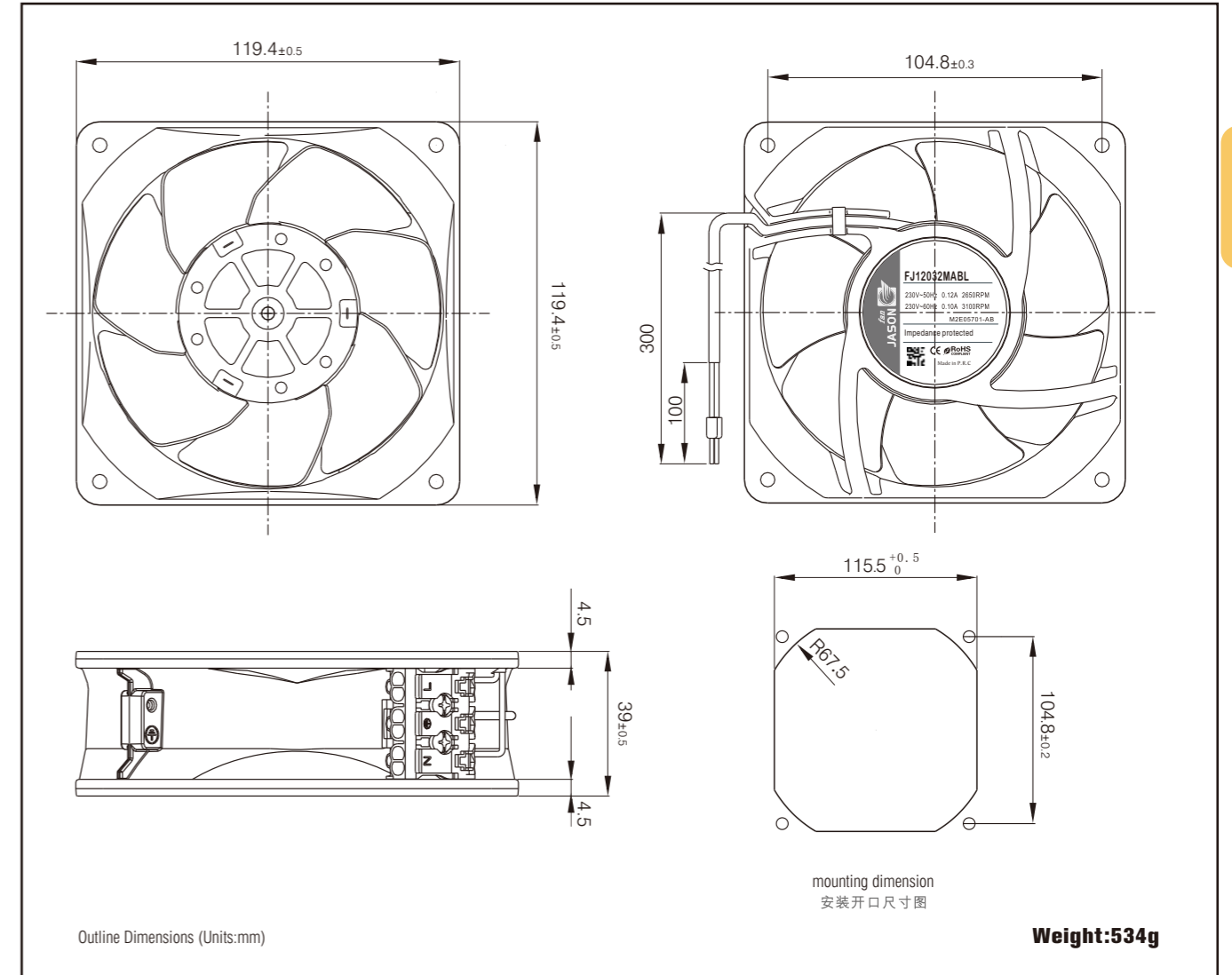
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) | |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|-------|
| FJ8031MAB | M2S05501-AB | 115 | 50 | 0.17 | 12.6 | 2800 | 29 | 49 | 51 | 31 | ① | ----- |
| | | | 60 | 0.13 | 10 | 3350 | 35 | 59 | 68 | 35 | ② | |
| FJ8032MAB | M2E05501-AB | 230 | 50 | 0.09 | 12 | 2800 | 29 | 49 | 51 | 31 | ① | |
| | | | 60 | 0.07 | 10 | 3350 | 35 | 59 | 68 | 35 | ② | |

FJ9032MABL

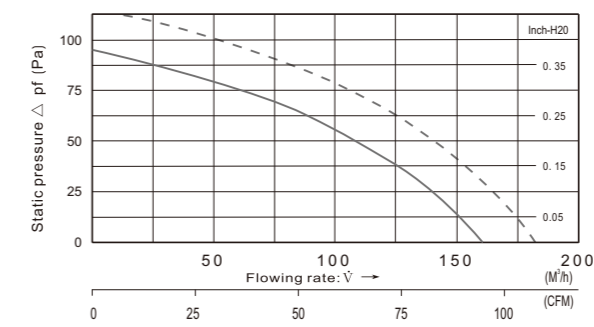


FJ12032MABL



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|
| FJ9031MAB | M2S05501-AB | 115 | 50 | 0.17 | 13 | 2750 | 48 81 | 56 | 34 | ① | ----- |
| | | | 60 | 0.14 | 11 | 3250 | 53 90 | 75 | 36 | ② | |
| FJ9032MAB | M2E05501-AB | 230 | 50 | 0.08 | 13 | 2750 | 48 81 | 56 | 34 | ① | |
| | | | 60 | 0.07 | 10 | 3250 | 53 90 | 75 | 36 | ② | |



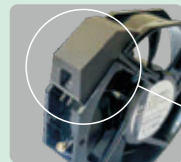
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|
| FJ12031MAB | M2S05701-AB | 115 | 50 | 0.27 | 19 | 2650 | 94 160 | 94 | 36 | ① | ----- |
| | | | 60 | 0.23 | 16 | 3100 | 106 180 | 130 | 38 | ② | |
| FJ12032MAB | M2E05701-AB | 230 | 50 | 0.12 | 18 | 2650 | 94 160 | 94 | 36 | ① | |
| | | | 60 | 0.10 | 16 | 3100 | 106 180 | 130 | 38 | ② | |

Metal Axial Fan
金属轴流风扇

AC series

FJ14532MABT
FJ14552MABT



① Connection mode:
接线方式: 插片
FJ14532MABT

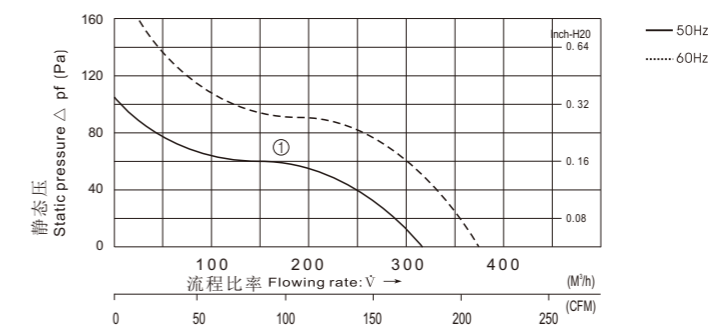
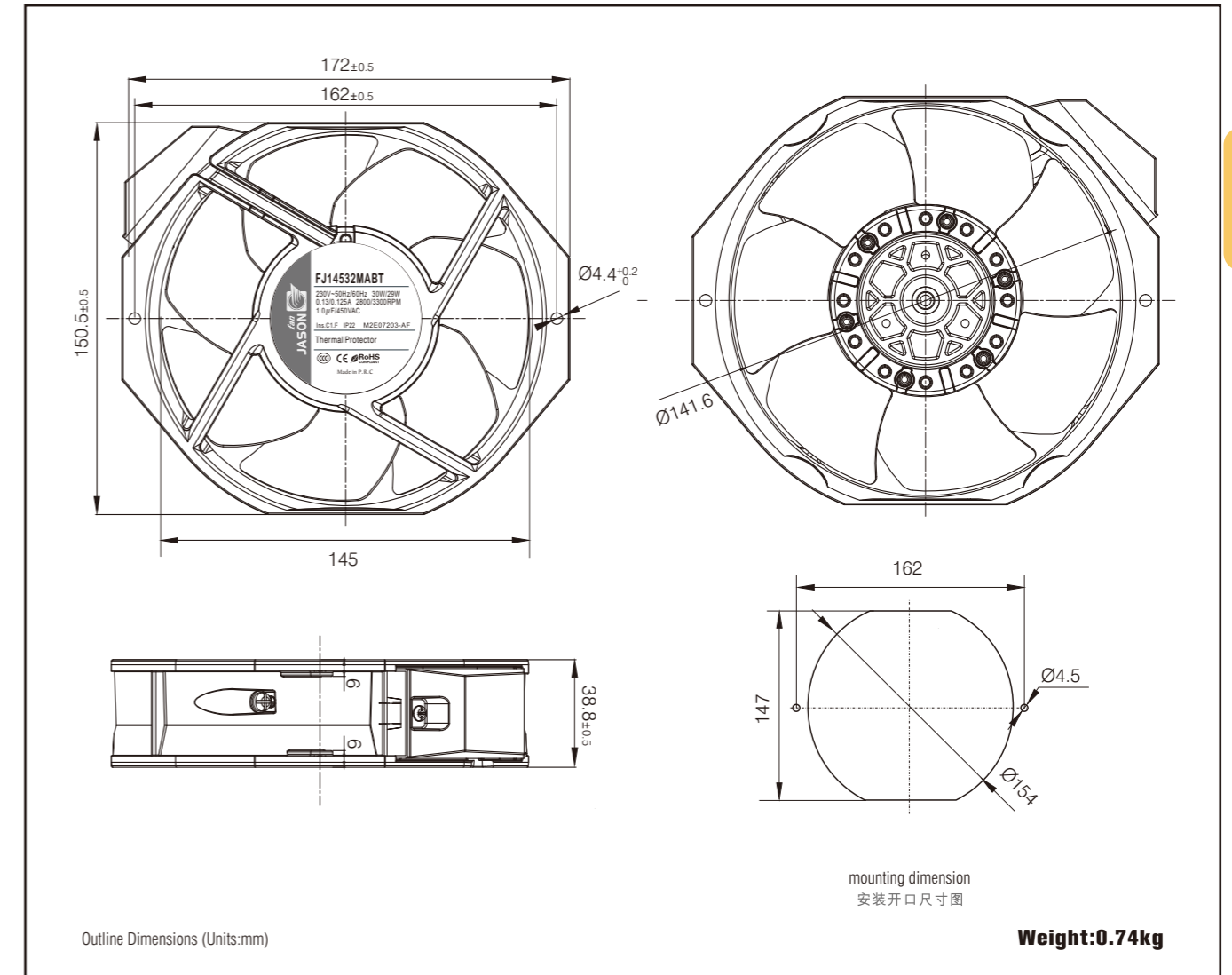


② Connection mode:
接线方式: 引线
FJ14532MAB

Core Highlights:

- ① High Efficiency & Energy Saving: Driven by a squirrel-cage capacitor motor, its efficiency is far higher than ordinary shaded-pole motors. It increases airflow by 15% while saving energy and electricity.
- ② Dual-Safety Protection: Original "auto-recovery + one-time fuse" dual temperature protection provides an ultimate safety solution with zero risks.
- ③ All-Metal High-Temperature Resistance: Aluminum alloy die-cast frame and metal fan blades can withstand 90°C high-temperature environments, ensuring stability and durability.
- ④ Wide-Range Application: Ultra-wide operating temperature range of -40°C to +90°C, easily coping with extreme global climates and high-temperature working conditions.
- ⑤ Safe Insulation: AC 1800V super voltage resistance + Class H insulation system, providing top-tier electrical safety guarantee.

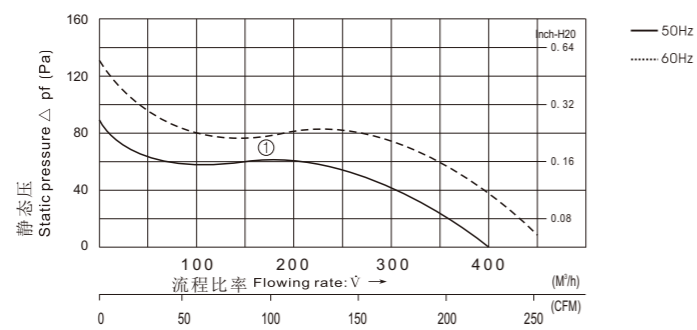
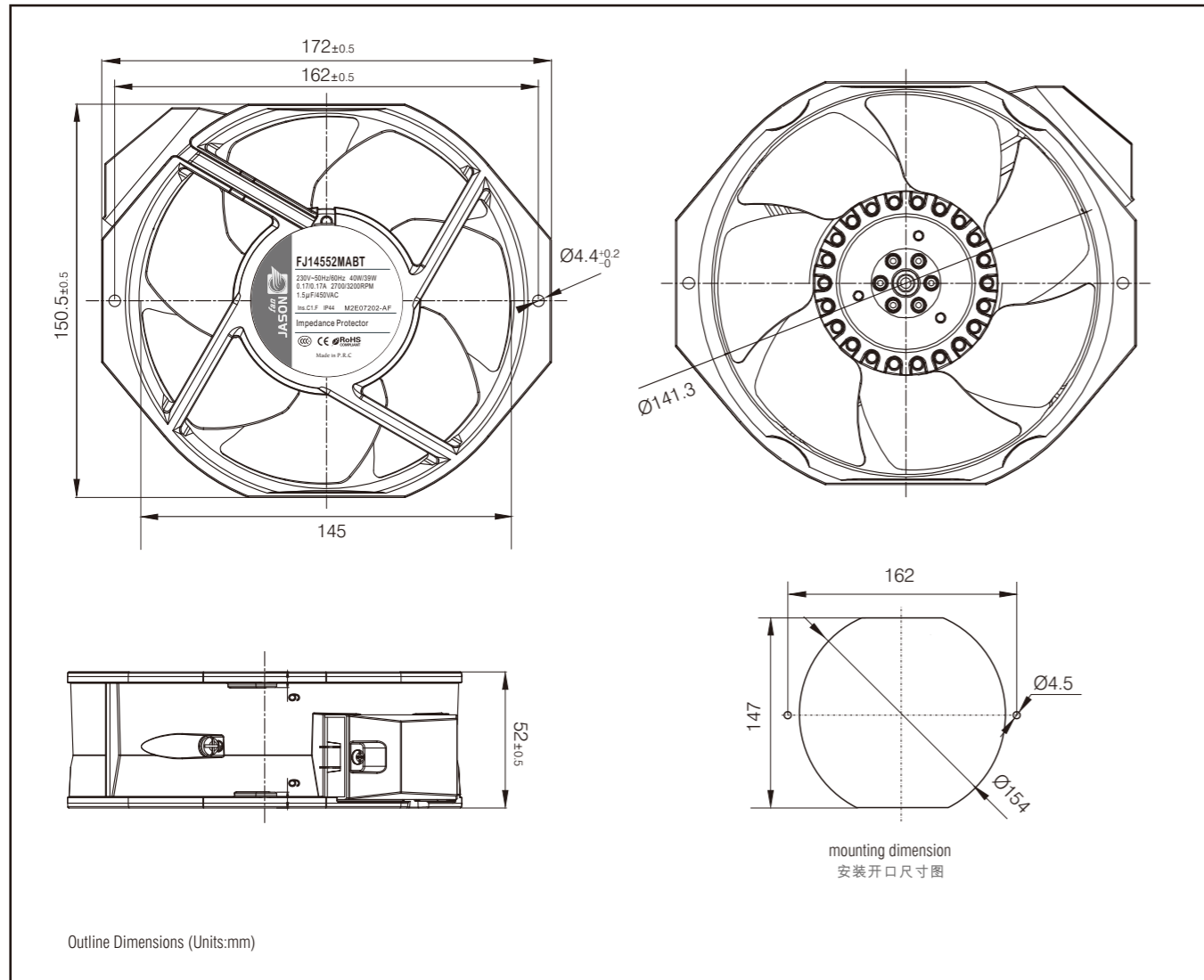
This fan is designed for customers pursuing the highest safety standards and performance efficiency. Its dual temperature protection and high-efficiency capacitor motor are its core competitive advantages. It is ideal for applications such as: high-end servers, precision medical equipment, high-end CNC machine tools and laser equipment, power electronic systems (e.g., UPS, inverters), and automation equipment with extremely high safety requirements. For any scenario requiring reliable, efficient, and safe cooling, this product embodies the design concept of "safeguarding customers' core equipment through technological innovation."



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) -10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) | |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|----------|
| FJ14531MABT | M2S7203-AF | 115 | 50 | 0.18 | 20.5 | 2800 | 184 | 314 | 110 | 51 | ① | 3.0/250V |
| | | | 60 | 0.18 | 20.7 | 3300 | 225 | 382 | 180 | 55 | | |
| FJ14532MABT | M2E7203-AF | 230 | 50 | 0.13 | 30 | 2800 | 184 | 314 | 110 | 51 | ① | 1.0/450V |
| | | | 60 | 0.125 | 29 | 3300 | 225 | 382 | 180 | 55 | | |

FJ14552MABT



Parameters

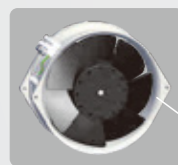
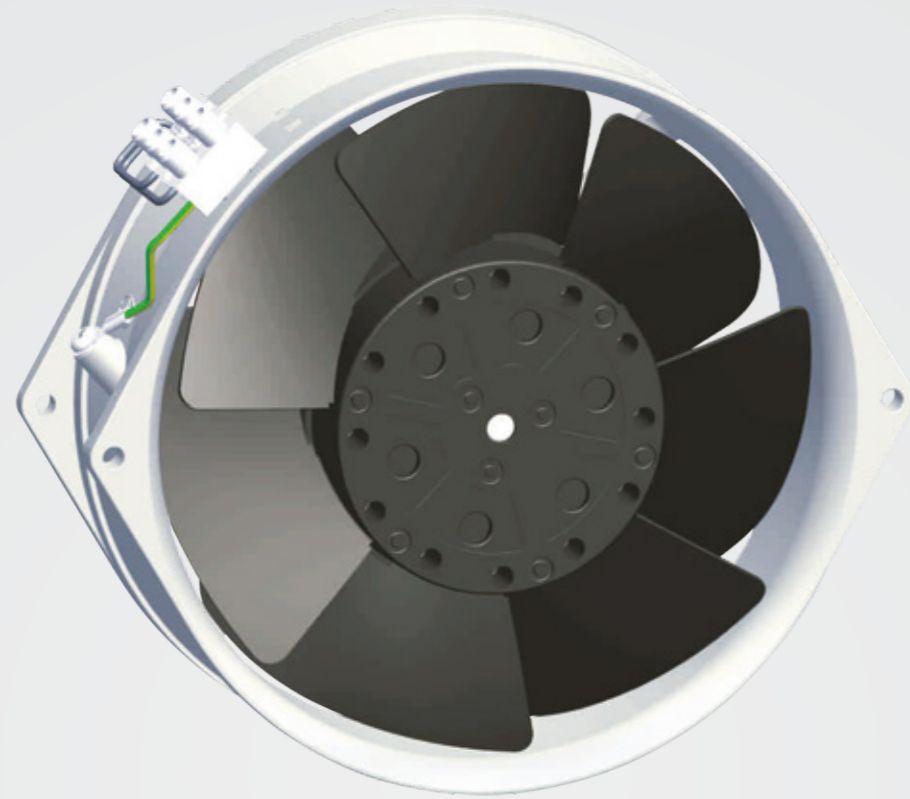
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (µF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ14551MABT | M2S7202-AF | 115 | 50 | 0.29 | 33 | 2700 | 233 398 | 90 | 53 | ① | 5.0/250V |
| | | | 60 | 0.3 | 34.5 | 3180 | 279 478 | 130 | 57 | | |
| FJ14552MABT | M2E7202-AF | 230 | 50 | 0.17 | 39 | 2700 | 233 398 | 90 | 53 | ① | 1.5/450V |
| | | | 60 | 0.17 | 40 | 3200 | 279 478 | 130 | 57 | | |

Total solution
总解决方案

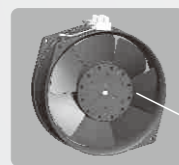


Metal Axial Fan
金属轴流风扇

AC series



White Shell
白色款

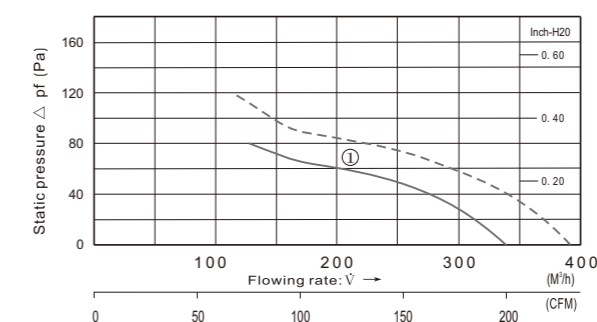
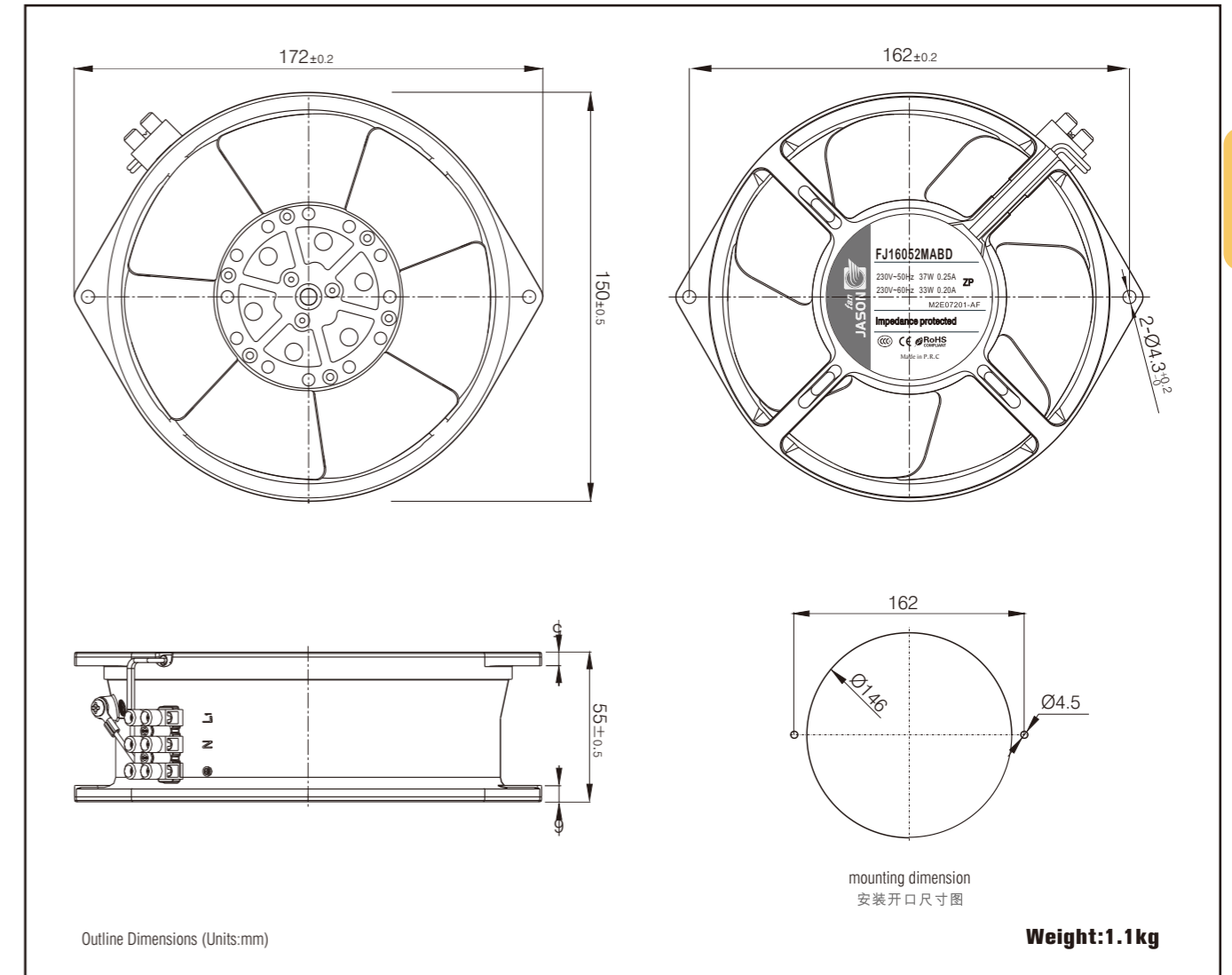


Black Shell
黑色款

Core Highlights:

- 1 Mature & Reliable: Adopts a market-proven mature technical solution to ensure long-term product reliability.
- 2 Dual Protection: Dual safety mechanism of impedance protection + temperature protector provides comprehensive protection.
- 3 Sturdy & Durable: All-metal structure combined with electrophoresis treatment, adapting to harsh industrial environments.
- 4 Wide Applicability: Capable of working in a wide temperature range of -40°C~+80°C, meeting most application needs.
- 5 Cost-Effective: Delivers optimal cost-performance ratio while ensuring performance.
- 6 Appearance Options: Available with black or silver-aluminum electrophoresis treatment. It not only meets anti-corrosion needs but also matches the appearance of different equipment.

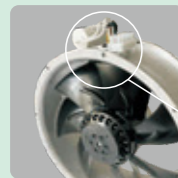
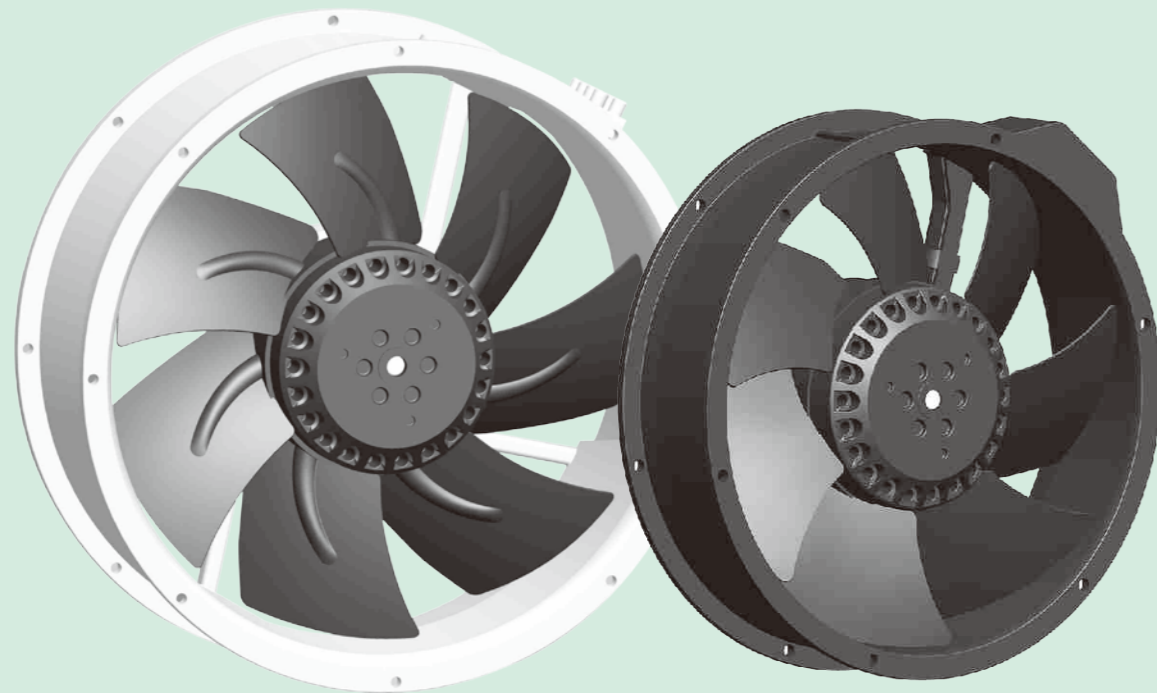
This AC axial fan is an industrial-grade product focusing on practicality and reliability. Its Class F insulation system combined with a dual protection mechanism provides cost-effective heat dissipation solutions for various industrial equipment. It is particularly suitable for: conventional industrial control cabinets, power distribution equipment, communication equipment enclosures, automation equipment control boxes, and heat dissipation needs in general industrial environments. This product embodies NIETZ's product design concept of "reliability, durability, economy and practicality," making it a stable choice in the industrial heat dissipation field.



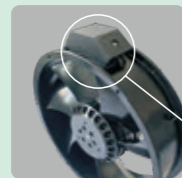
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) -10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve | Capacitor 电容 (μ F) | |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------|-------------------------------|-------|
| FJ16051MABD | M2S7201-AF | 115 | 50 | 0.49 | 37 | 2650 | 189 | 320 | 80 | 49 | ① | ----- |
| | | | 60 | 0.41 | 34 | 3000 | 224 | 380 | 120 | 53 | | |
| FJ16052MABD | M2E7201-AF | 230 | 50 | 0.25 | 37 | 2650 | 189 | 320 | 80 | 49 | | |
| | | | 60 | 0.20 | 33 | 2950 | 224 | 380 | 120 | 53 | | |
| FJ16053MABD | M2D7201-AF | 380 | 50 | 0.14 | 37 | 2600 | 189 | 320 | 80 | 49 | | |
| | | | 60 | 0.12 | 34 | 2900 | 224 | 380 | 120 | 53 | | |

Metal Axial Fan 金属轴流风扇 **AC series**



接线方式：端子
Connection mode
FJ25491MAB



接线方式：插片
Connection mode
FJ22062MABT

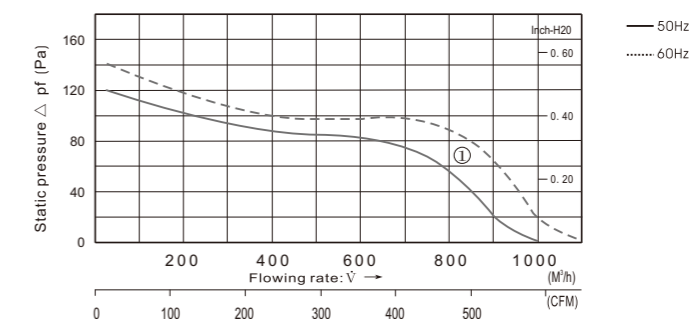
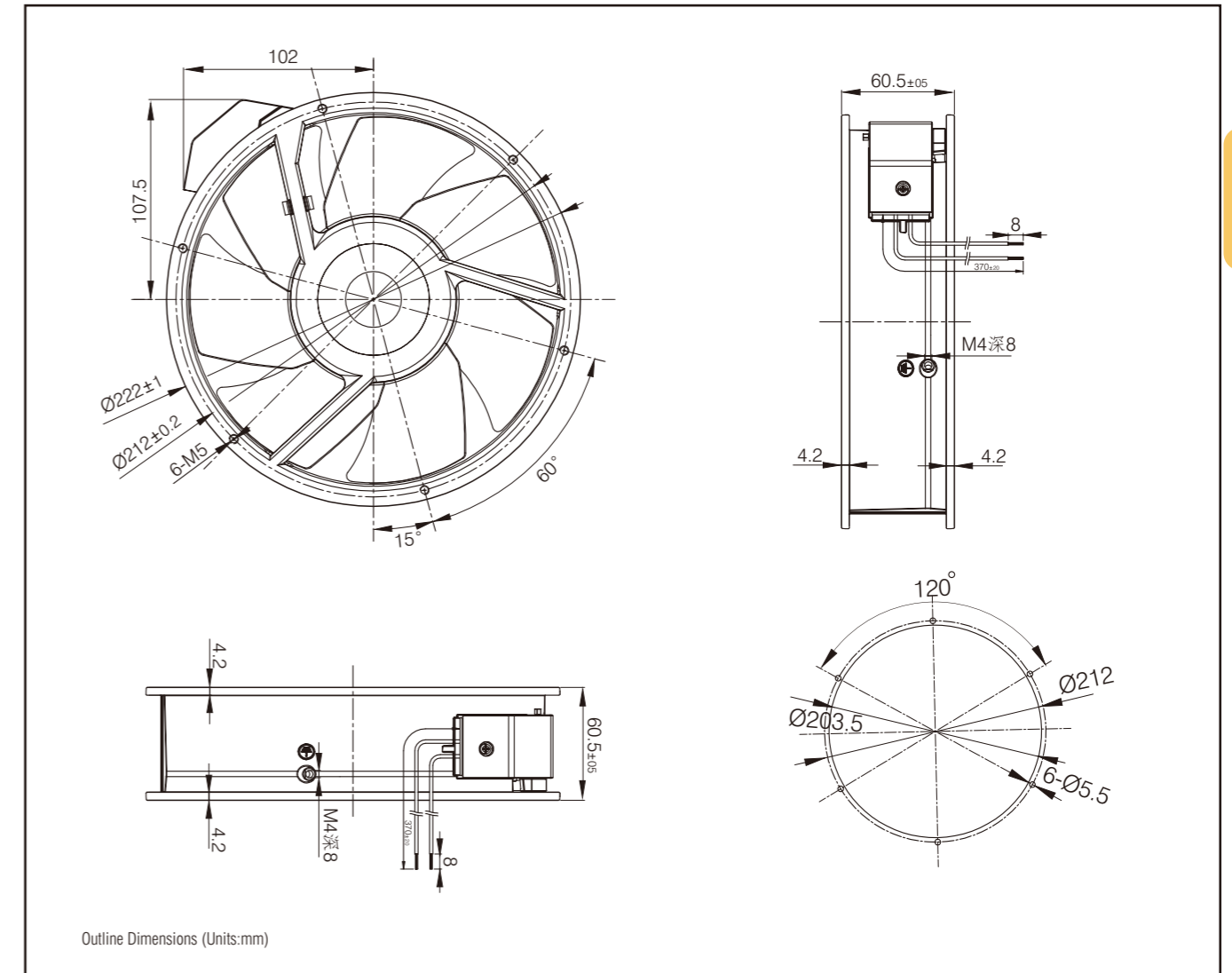


接线方式：引线
Connection mode
FJ22062MAB

Core Highlights:

- 1 Professional Duct Design: Circular structure optimizes airflow in ducts, enabling easy installation and excellent sealing performance.
- 2 Quiet & Low Vibration: Vibration value <1.27mm/s, ensuring stable operation with low noise.
- 3 High Efficiency & Energy Saving: Squirrel-cage capacitor motor features high efficiency and low energy consumption.
- 4 High Airflow Output: Optimized blade design delivers remarkable ventilation performance.
- 5 Durable & Reliable: All-metal structure adapts to harsh environments.
- 6 Safety Protection: Built-in overheat protection device automatically cuts off power in abnormal situations for protection.

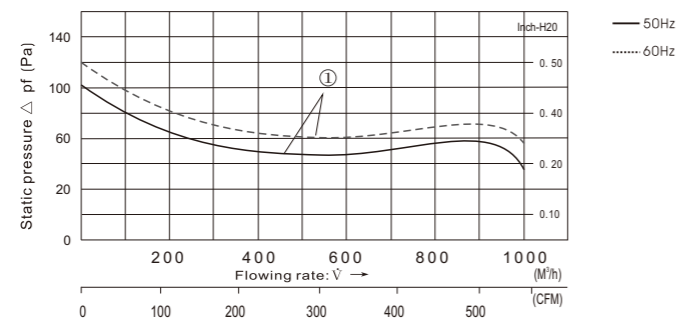
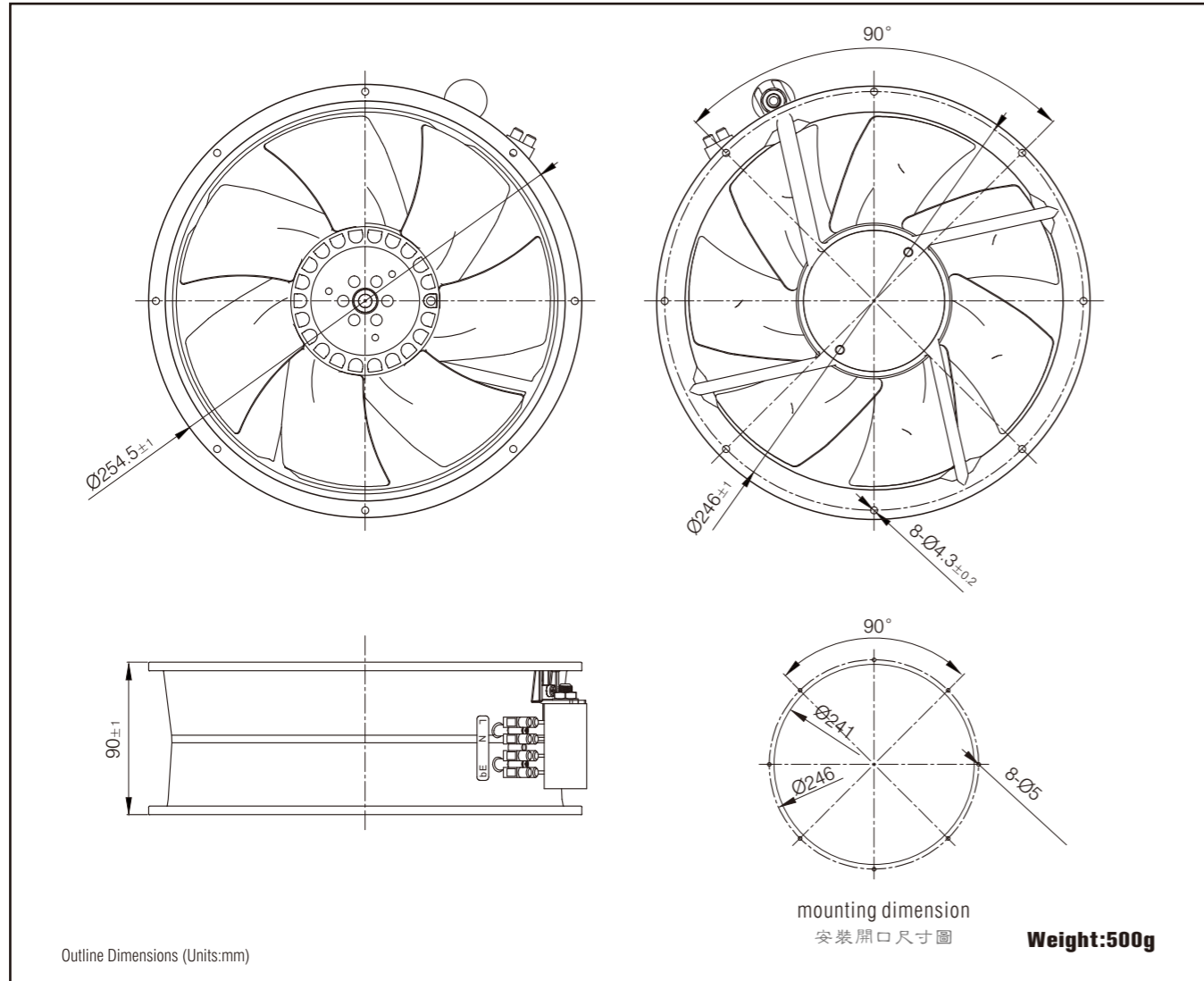
This duct-specific AC axial fan integrates advanced squirrel-cage capacitor motor technology, precise dynamic balance processes, and professional duct optimization design. While maintaining high airflow output, it achieves excellent low-noise and low-vibration performance. The product combines advantages such as high efficiency, energy saving, stable operation, and easy installation, which can meet the strict requirements of various high-end duct ventilation applications. It is a professional choice in the industrial ventilation field.



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|-------------------------------------|---------------------------------|---------------------|-------------|-------------------------|----------|
| FJ22061MABT | M2S09201-AF | 115 | 50 | 0.56 | 61 | 2550 | 590 | 1000 | 125 | 63 | ① | 4/250V |
| | | | 60 | 0.66 | 77 | 2780 | 649 | 1100 | 148 | 66 | | |
| FJ22062MABT | M2E09201-AF | 230 | 50 | 0.28 | 61 | 2550 | 590 | 1000 | 125 | 63 | | 1.5/450V |
| | | | 60 | 0.33 | 77 | 2780 | 649 | 1100 | 148 | 66 | | |

FJ25491MAB



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|
| FJ25491MAB | M2S09202-AF | 115 | 50 | 0.98 | 92 | 2650 | 880 1500 | - | 68 | ① | 8.0/250V |
| FJ25492MAB | M2E09202-AF | 230 | 50 | 0.48 | 92 | 2600 | 880 1500 | | 68 | ① | 2.0/450V |
| FJ25493MAB | M2D09202-AF | 380 | 50 | 0.26 | 92 | 2650 | 880 1500 | | 68 | ① | 1.0/630V |
| | | | 60 | 0.32 | 122 | 3000 | 1000 1700 | | 70 | | |

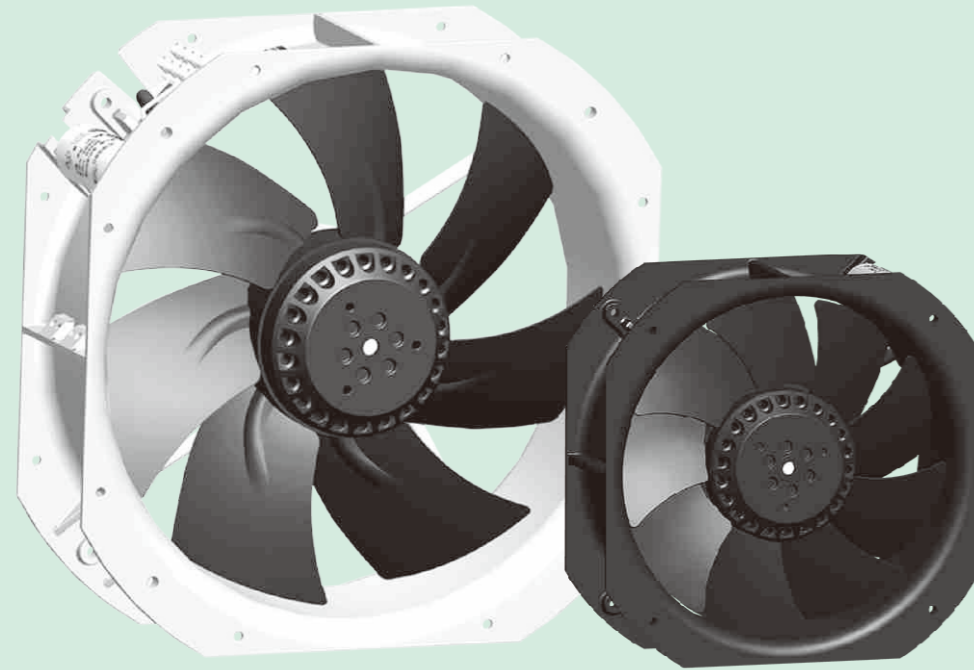
Total solution
总解决方案



Metal Axial Fan
金属轴流风扇

AC series

FJ22082MAB
FJ28082MAB



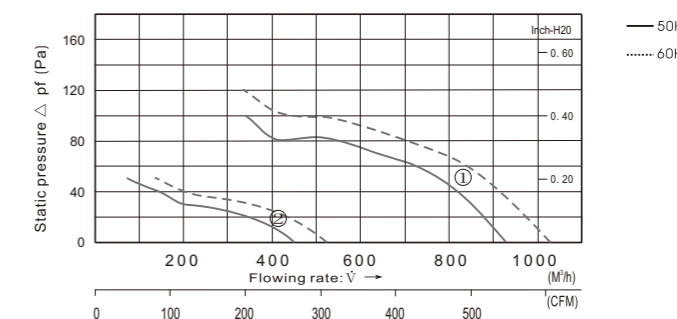
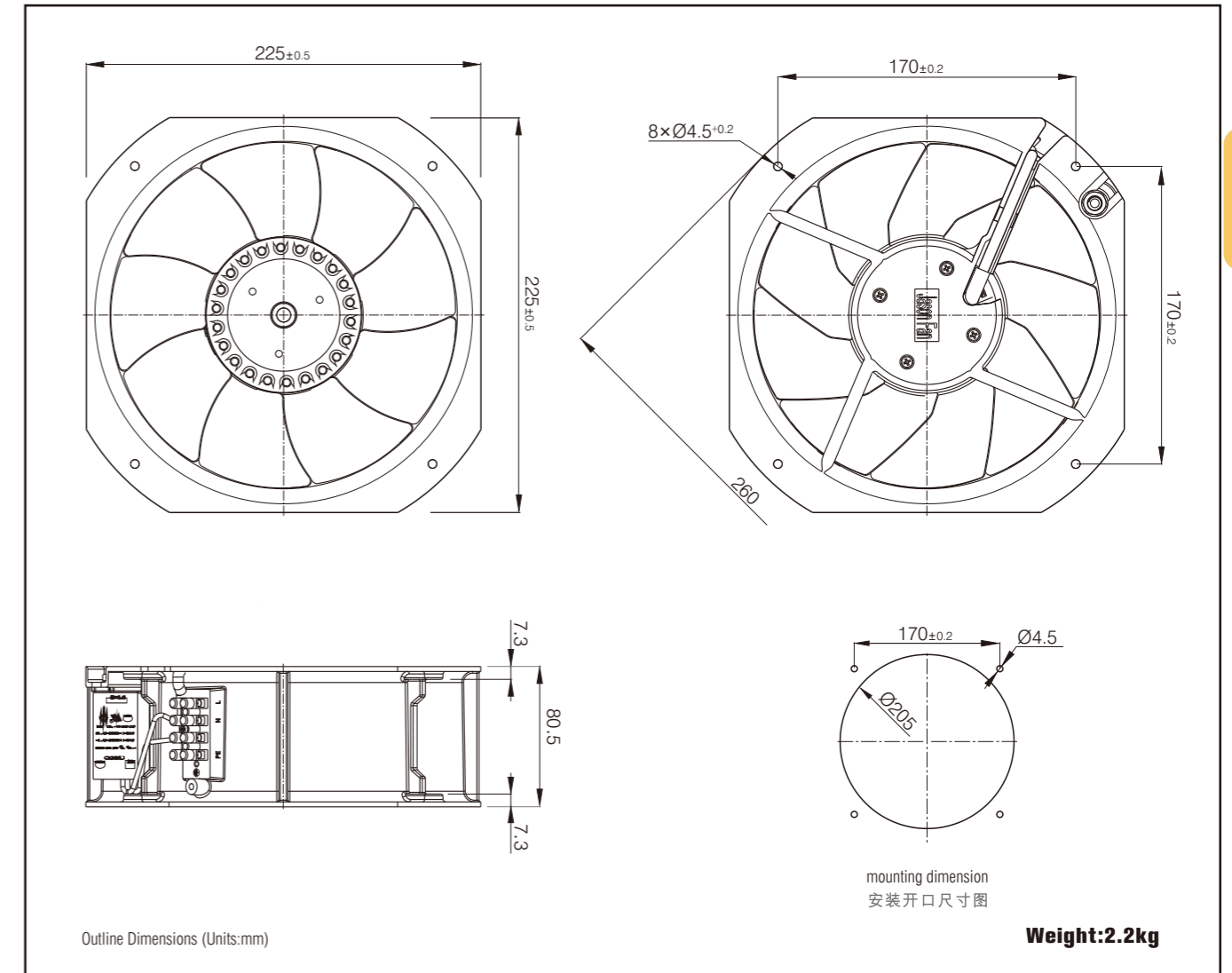
Core Highlights:

- 1 **Anti-Corrosion Performance:** The whole product meets ISO 12944 C4 anti-corrosion grade, capable of withstanding highly corrosive industrial environments.
- 2 **All-Metal Structure:** Aluminum alloy die-cast frame paired with metal blades ensures structural durability.
- 3 **Ultra-Low Vibration:** Vibration value is strictly controlled below 1.27mm/s to ensure stable operation.
- 4 **Squirrel-Cage Capacitor Start Motor:** Features strong load capacity, high operating efficiency, significant energy-saving effect, and good power grid adaptability.
- 5 **Dual Protection System:** Automatic overheat protection + circuit break protection, which completely cuts off power in abnormal situations.
- 6 **Class F Insulation System:** Designed in accordance with IEC 60085 Class F standard, with a heat resistance grade of 155°C.
- 7 **High Insulation Strength:** Withstands AC 1800V voltage test for 1 minute, ensuring safety and reliability.
- 8 **Protection Rating:** IP44 protection rating, providing dust and splash water resistance.

This AC axial fan can provide industrial users with excellent anti-corrosion performance, precise dynamic balance control, and a multi-layer safety protection system, delivering a reliable heat dissipation solution. The product has the ability to operate stably for a long time in harsh industrial environments, making it an ideal choice for high-end industrial applications.

Application Fields:

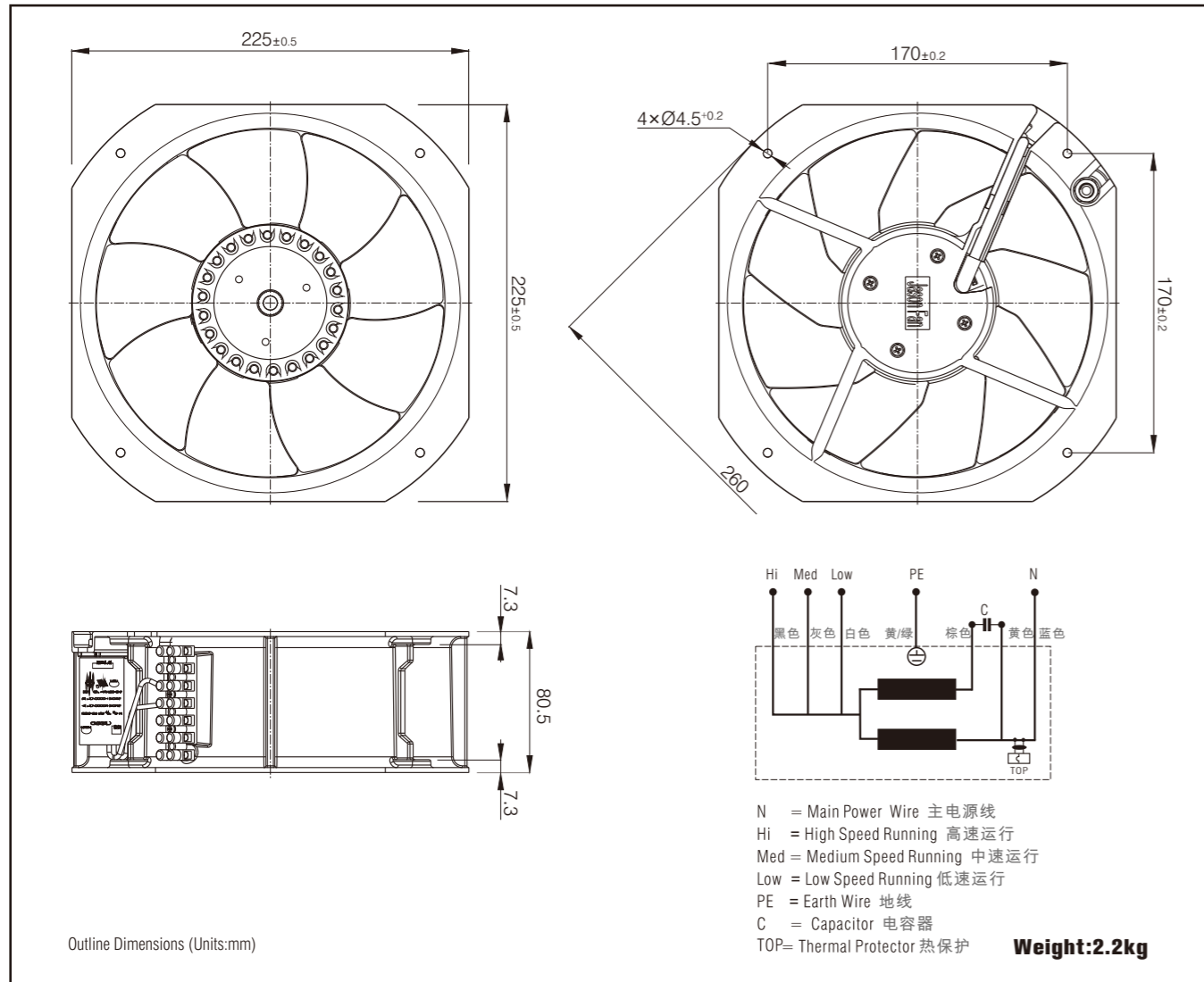
- 1 Corrosive environments such as chemical industry and metallurgy
- 2 Cooling of outdoor heavy-duty equipment
- 3 Marine and offshore platform equipment
- 4 High-temperature industrial environments
- 5 Industrial occasions requiring long-term reliable operation



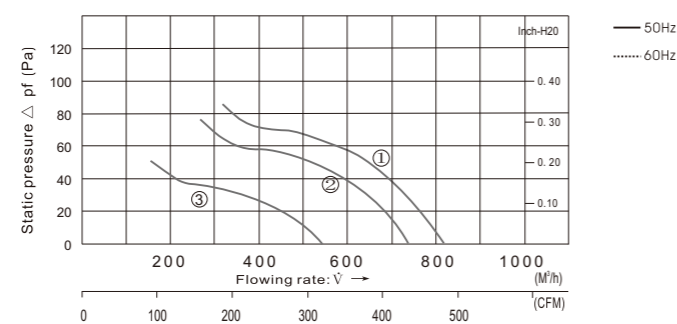
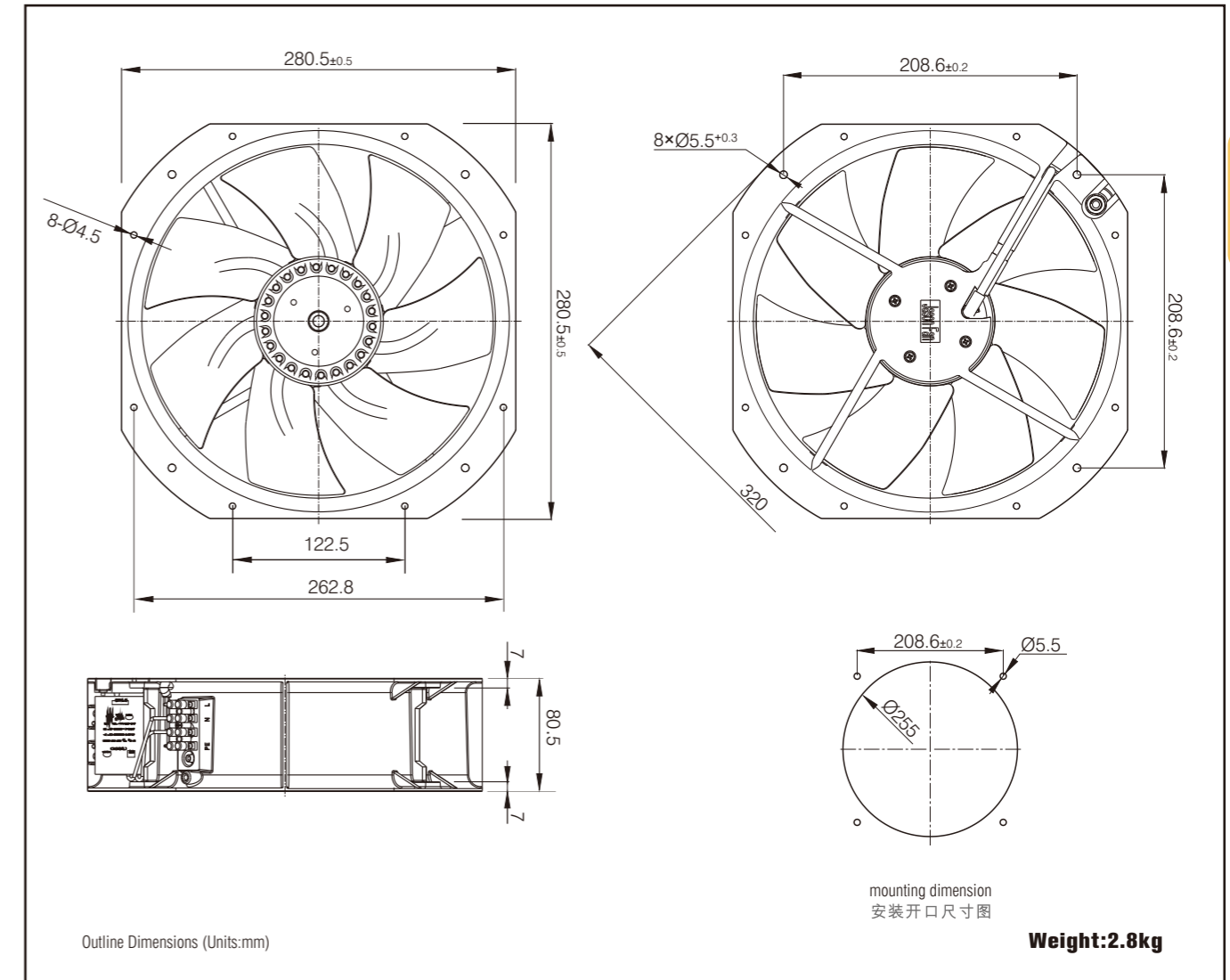
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>-10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|---------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ22081MAB | M2S09201-AF | 115 | 50 | 0.64 | 60 | 2470 | 546 | 925 | 100 | ① | 4.0/250V |
| | | | 60 | 0.62 | 70 | 2650 | 596 | 1010 | 120 | | |
| FJ22082MAB | M2E09201-AF | 230 | 50 | 0.30 | 65 | 2550 | 546 | 925 | 100 | ① | 1.5/450V |
| | | | 60 | 0.34 | 75 | 2800 | 596 | 1010 | 120 | | |
| FJ22083MAB | M2D09201-AF | 380 | 50 | 0.17 | 60 | 2550 | 546 | 925 | 100 | ① | 0.5/630V |
| | | | 60 | 0.19 | 70 | 2800 | 596 | 1010 | 120 | | |
| FJ22082MAB-4E | M4E09201-AF | 230 | 50 | 0.13 | 27 | 1350 | 254 | 430 | 50 | ② | 0.68/450V |
| | | | 60 | 0.12 | 27 | 1600 | 313 | 530 | 50 | | |
| FJ22081MAB-4S | M4S09201-AF | 115 | 50 | 0.28 | 30 | 1350 | 254 | 430 | 50 | ② | 3.0/250V |
| | | | 60 | 0.28 | 31 | 1600 | 313 | 530 | 50 | | |

FJ22082MABTS

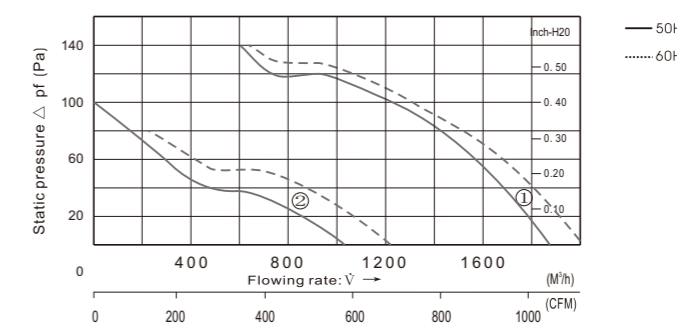


FJ28082MAB



Parameters

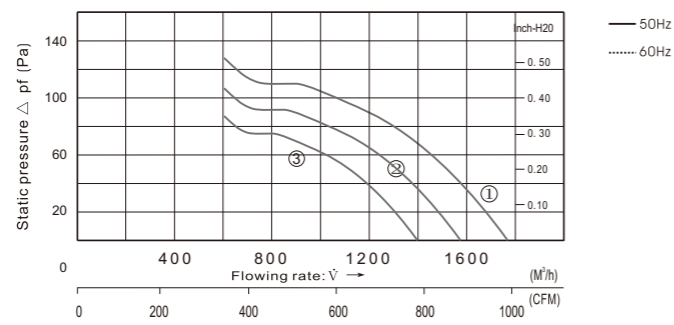
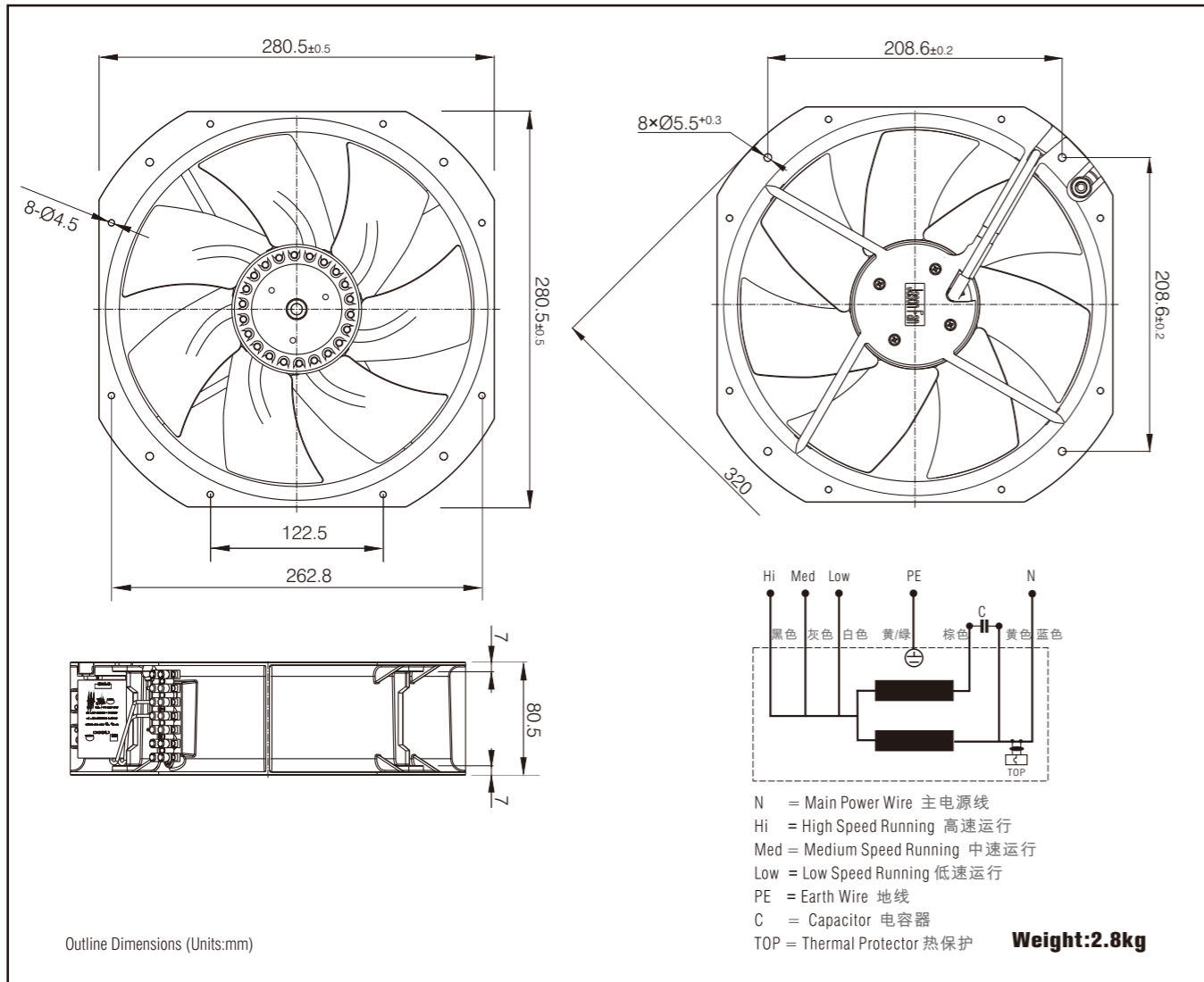
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ22082MABTS | M2E09201-AF | 230 | 50 | 0.20 | 43 | 2250 | 482 816 | 85 | 57 | ① | 2.0/450V |
| | | | 50 | 0.19 | 38 | 2050 | 438 743 | 75 | 53 | ② | |
| | | | 50 | 0.18 | 36 | 1500 | 321 544 | 50 | 49 | ③ | |



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{+10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | |
|---------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|----------|
| FJ28081MAB | M2S9202-AF | 115 | 50 | 1.06 | 110 | 2550 | 1097 1860 | 140 | 69 | ① | 8.0/250V | |
| FJ28082MAB | M2E9202-AF | | 60 | 1.24 | 140 | 2800 | 1204 2040 | 140 | 70 | | 3.0/450V | |
| FJ28082MAB | M2E9202-AF | 230 | 50 | 0.49 | 107 | 2550 | 1097 1860 | 140 | 69 | | 1.0/630V | |
| | | | 60 | 0.58 | 134 | 2800 | 1204 2040 | 140 | 70 | | | |
| FJ28083MAB | M2D9202-AF | 380 | 50 | 0.29 | 110 | 2550 | 1097 1860 | 140 | 69 | | ② | 1.5/450V |
| | | | 60 | 0.39 | 150 | 2800 | 1204 2040 | 140 | 70 | | | |
| FJ28082MAB-4E | M4E9202-AF | 230 | 50 | 0.24 | 50 | 1400 | 596 1010 | 80 | 54 | | | |
| | | | 60 | 0.25 | 57 | 1650 | 714 1210 | 100 | 58 | | | |

FJ28082MABTS



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ^{-10% -20%} | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| FJ28082MABTS | M2E09202-AF | 230 | 50 | 0.43 | 105 | 2440 | 1050 1780 | 130 | 65 | ① | 3.0/450V |
| | | | 50 | 0.42 | 97 | 2170 | 932 1580 | 110 | 63 | ② | |
| | | | 50 | 0.41 | 92 | 1790 | 767 1300 | 90 | 61 | ③ | |

Total solution
总解决方案



Metal Axial Fan 金属轴流风扇 **EC series**



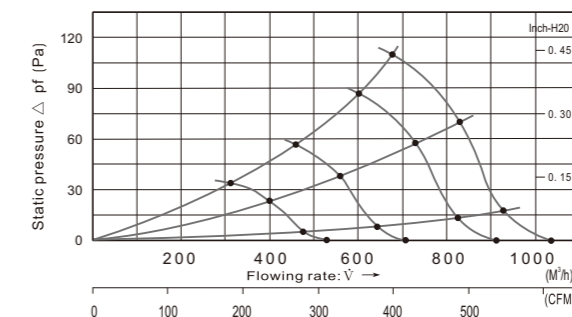
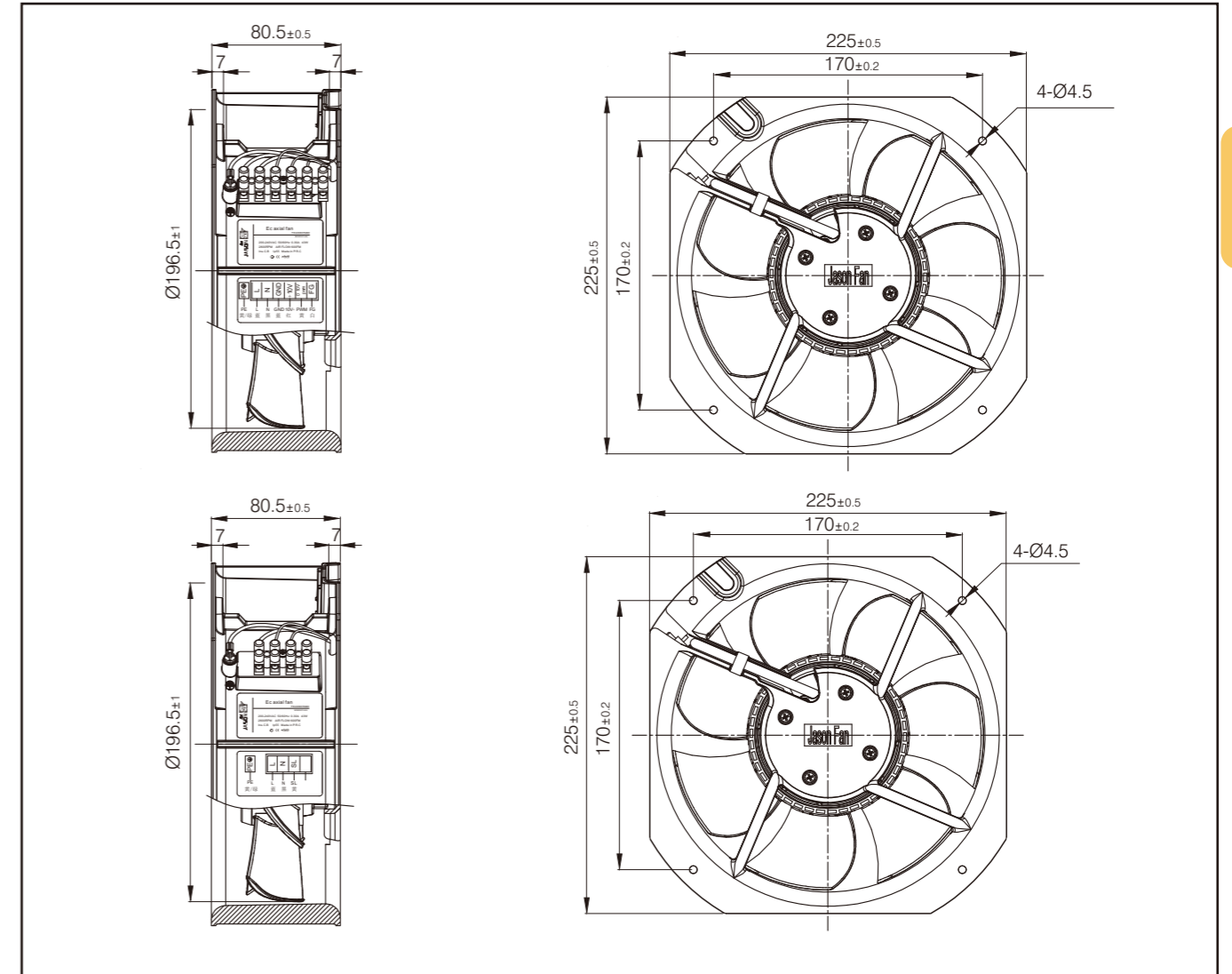
接线方式：端子
Connection mode
FE22080PABD

Especially suitable for industrial occasions with high requirements for energy consumption, noise, control accuracy, and equipment lifespan, it is a truly high-end and highly reliable intelligent fan product.

Core Highlights:

- 1 Ultimate Energy Efficiency: Adopts advanced EC motor technology to significantly improve operating efficiency, greatly reduce energy consumption, and save long-term usage costs.
- 2 Precise Intelligent Speed Regulation: Supports two-speed/stepless speed regulation; users can flexibly adjust the speed according to actual cooling or ventilation needs. It automatically reduces speed when demand is low, achieving the dual advantages of energy saving and noise reduction.
- 3 Quiet & Stable Operation: Optimized fan blade design and brushless motor technology reduce vibration and noise, making it suitable for noise-sensitive application environments.
- 4 Durable & Sturdy Material: The frame is made of aluminum alloy via die-casting and undergoes surface anti-corrosion treatment, featuring strong corrosion resistance and weather resistance to easily cope with harsh working conditions such as humidity and dust.
- 5 High Protection & Long Lifespan: IP55 protection rating effectively prevents dust and water splashes from entering; the maintenance-free ball bearing structure provides higher speed tolerance and longer service life.

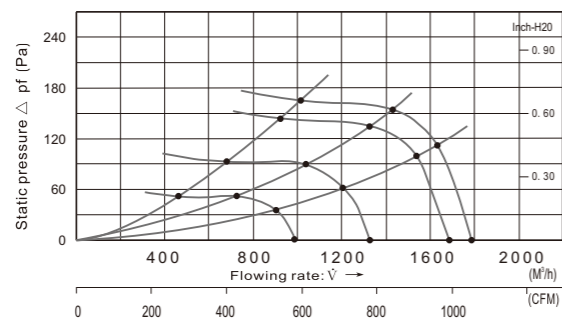
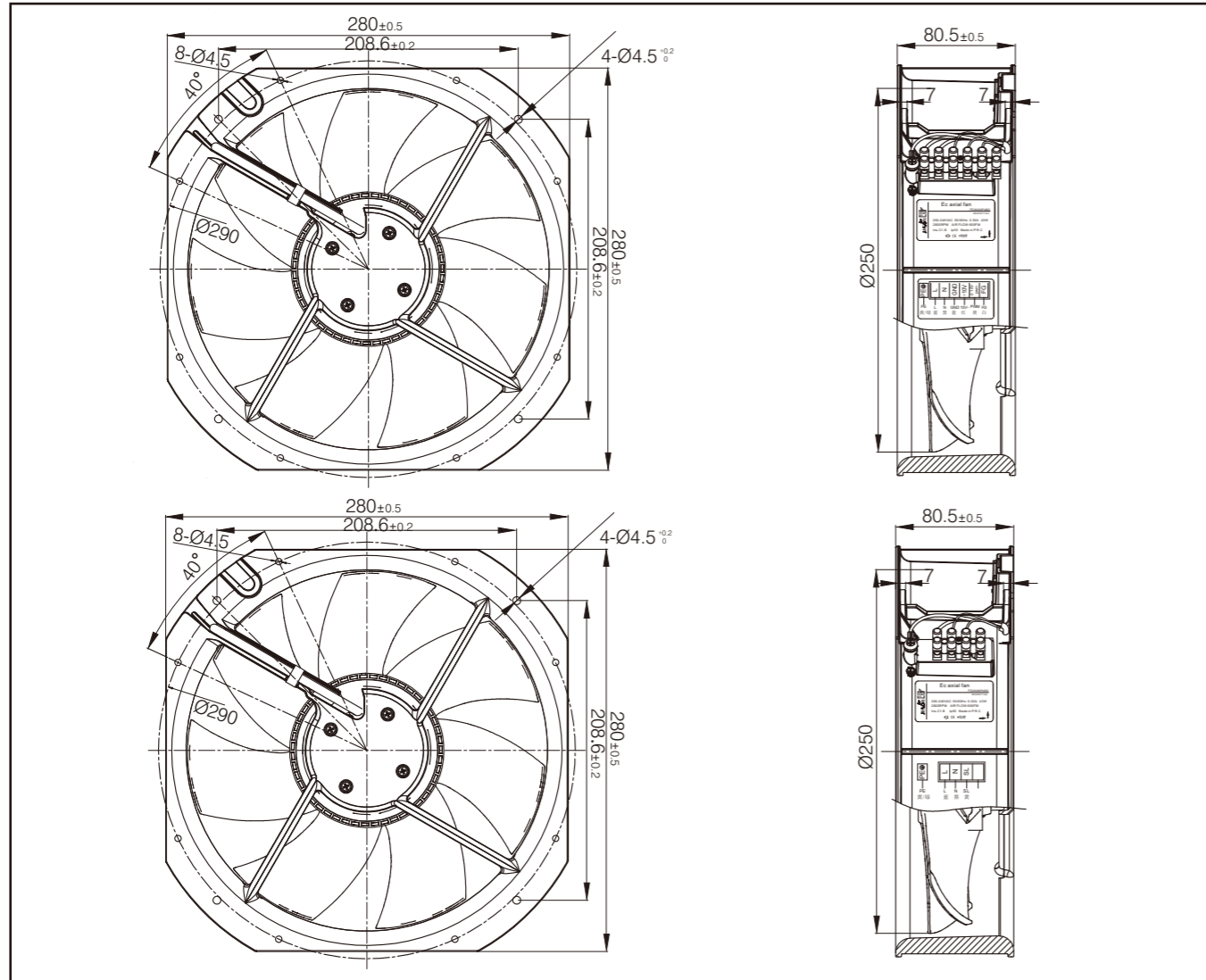
This NIETZ FAN series EC axial fan integrates the efficient intelligent control of EC motors, the sturdiness and aerodynamic performance brought by aluminum alloy frames and PP material fan blades, and the reliability and environmental adaptability provided by IP55 protection and ball bearings. It has become an ideal solution for cooling and ventilation in harsh industrial environments.



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| FE22080PABD | M3G05526-EA | 220 | 50 60 | 0.30 | 43 | 1~10 | 2800 | 603 1020 | 187 | -10~70 | 61 | 66/H1 |
| FE22080PABDA | M3G05526-EA | 220 | 50 60 | 0.30 | 43 | 2档转速 | 2800 | 603 1020 | 187 | -10~70 | 61 | 66/H2 |

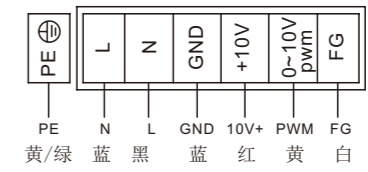
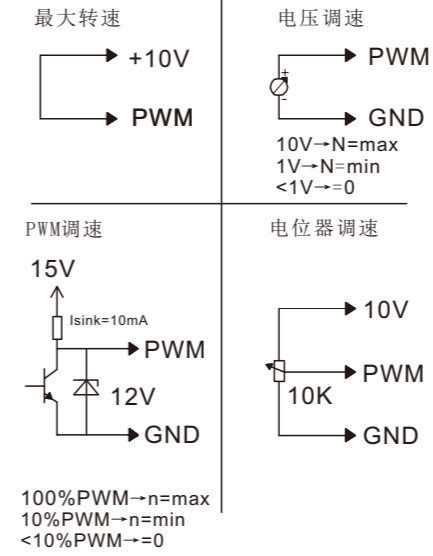
FE28080PABD



Parameters

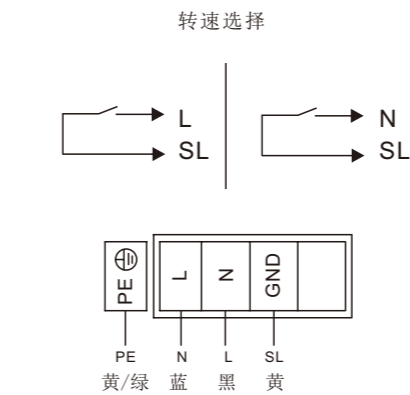
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) -10% -20% | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| FE28080PABD | M3G05535-EA | 220 | 50 60 | 0.56 | 77 | 0~10 | 2700 | 1056 1790 | 215 | -10~70 | 66 | 66/H1 |
| FE28080PABDA | M3G05535-EA | 220 | 50 60 | 0.56 | 77 | 2档转速 | 2700 | 1056 1790 | 215 | -10~70 | 66 | 66/H2 |

H1:



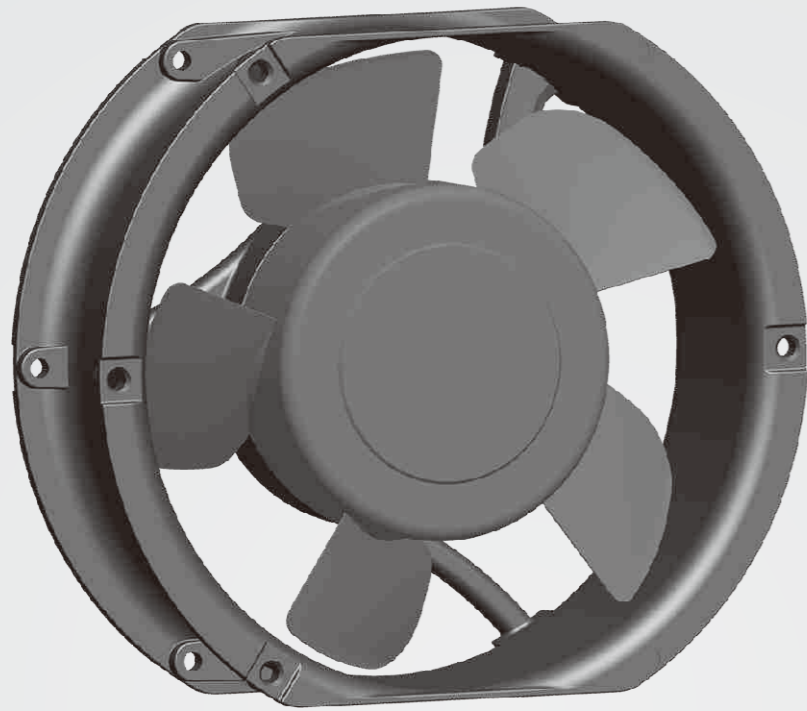
| | |
|-------|----------------------|
| 白色线 | Fg转速信号输出(示波器) |
| 黄色线 | PWM转速控制(输入0~10V PWM) |
| 红色线 | 电源正极 +10V |
| 蓝色线 | 电源负极 GND |
| N 蓝色线 | 电源主进线 |
| L 黑色线 | 电源零进线 |
| 黄/绿色线 | 接地线 |

H2:



| | |
|-------|-------|
| S1黄色线 | 转速选择 |
| N蓝色线 | 电源主进线 |
| L黑色线 | 电源零进线 |
| 黄/绿色线 | 接地线 |

Metal Axial Fan 金属轴流风扇 **DC series**

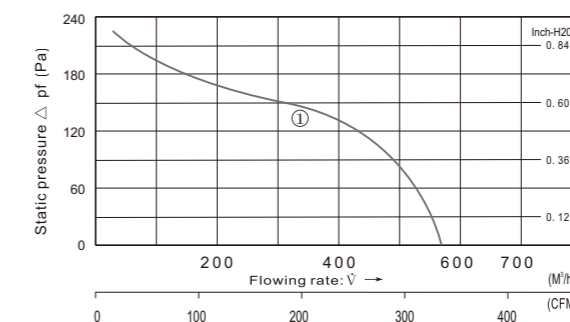
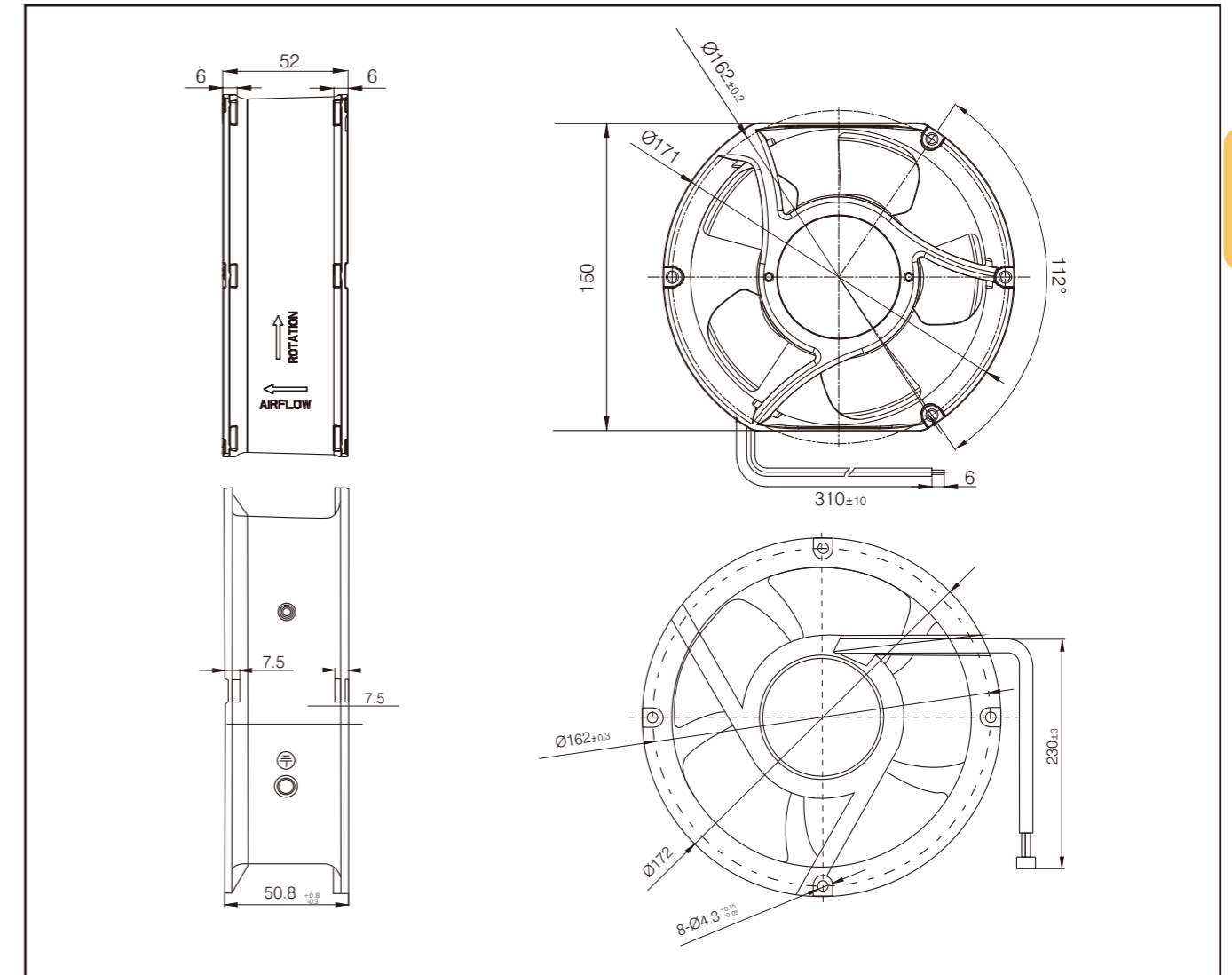


Core Highlights:

This series of DC axial fans integrates high-efficiency, intelligence, and high-reliability design, specifically built for demanding heat dissipation needs.

- 1 Voltage Supply: Supports two DC voltage specifications (24V and 48V), adapting to different industrial power environments. It combines compact structure with strong power.
- 2 Motor Design: Adopts a brushless DC motor design, ensuring stable operation and low vibration, achieving a balance between high driving efficiency and low noise.
- 3 Standard Rotation Direction: Defined as counterclockwise (when viewed from the axial direction toward the rotor).
- 4 Bearing System: Equipped with ball bearings, optimized for continuous operation mode (S1 duty cycle) to ensure durability and stability under long-term high loads.
- 5 Protection Rating: The standard protection rating is IP20, with an optional protection level up to IP54. It effectively resists dust intrusion and water splashes, expanding application scope in harsh industrial environments.
- 6 Reliable Electrical Connection: The main power cable is available in AWG18/20/22 specifications; speed signal and control cables use AWG22 wires. The housing integrates an M4×8 screw grounding terminal to ensure safe and convenient wiring.
- 7 Intelligent Monitoring Function: Integrates speed feedback to monitor the fan's operating status in real time, facilitating system preventive maintenance.
- 8 External Sensor Expansion: Supports connection to external temperature sensors, enabling intelligent speed control based on actual temperature to further improve system energy efficiency and safety.
- 9 Fan Blades: Two types of fan blades (metal and plastic) are available for customers to choose from.

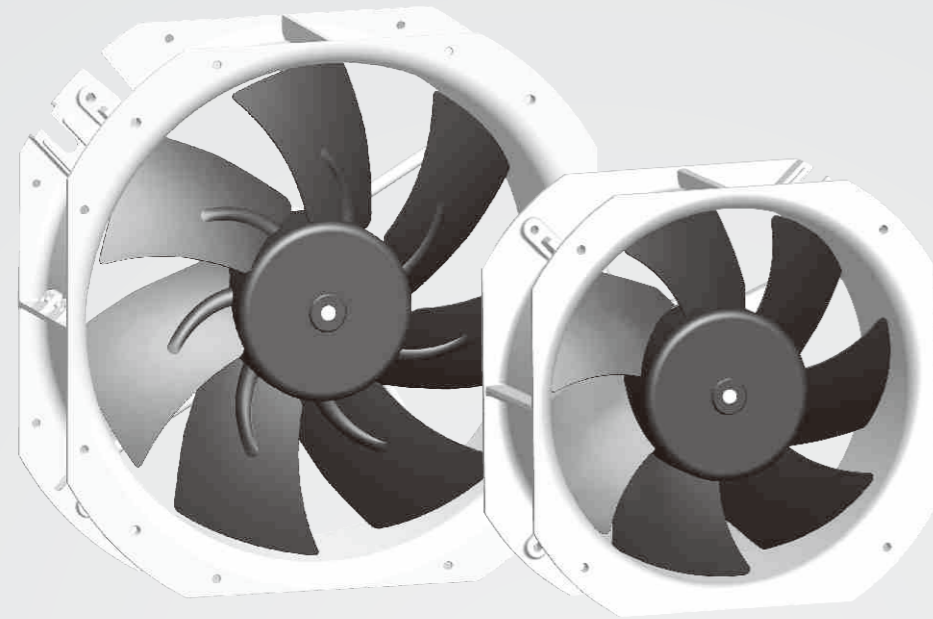
This series of DC fans achieves in-depth integration of efficient drive, sturdy structure, and intelligent control. While delivering strong airflow, it significantly optimizes noise performance and operating efficiency. It is particularly suitable for various ventilation and heat dissipation scenarios with strict requirements on reliability, quietness, and intelligent management of heat dissipation solutions—such as data centers, communication equipment, industrial automation, and medical instruments.



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Rated Current 额定电流 (A) | Lock Current 锁定电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 |
|-----------------|--------------------|----------------------------|------------------------------|-----------------------------|--|---------------------------------------|-------------------------------------|---------------------------------|---------------------|-------------|
| FD150(72)52PB12 | DC Brushless Motor | 12 | 3.2 | 0.01 | 38.4 | 4300 | 331 561 | 230 | 61.7 | ① |
| Fd150(72)52PB24 | DC Brushless Motor | 24 | 1.6 | 0.01 | 38.4 | 4300 | 331 561 | 230 | 61.7 | |
| Fd150(72)52PB48 | DC Brushless Motor | 48 | 0.8 | 0.01 | 38.4 | 4300 | 331 561 | 230 | 61.7 | |

Metal Axial Fan **DC series** 金属轴流风扇

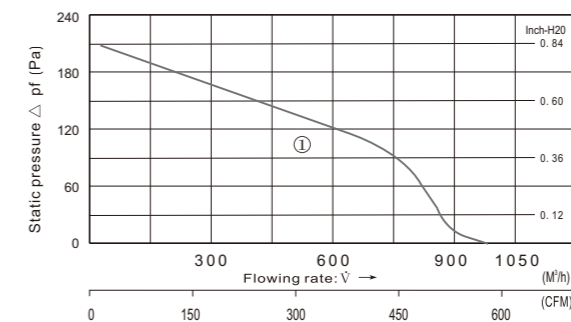
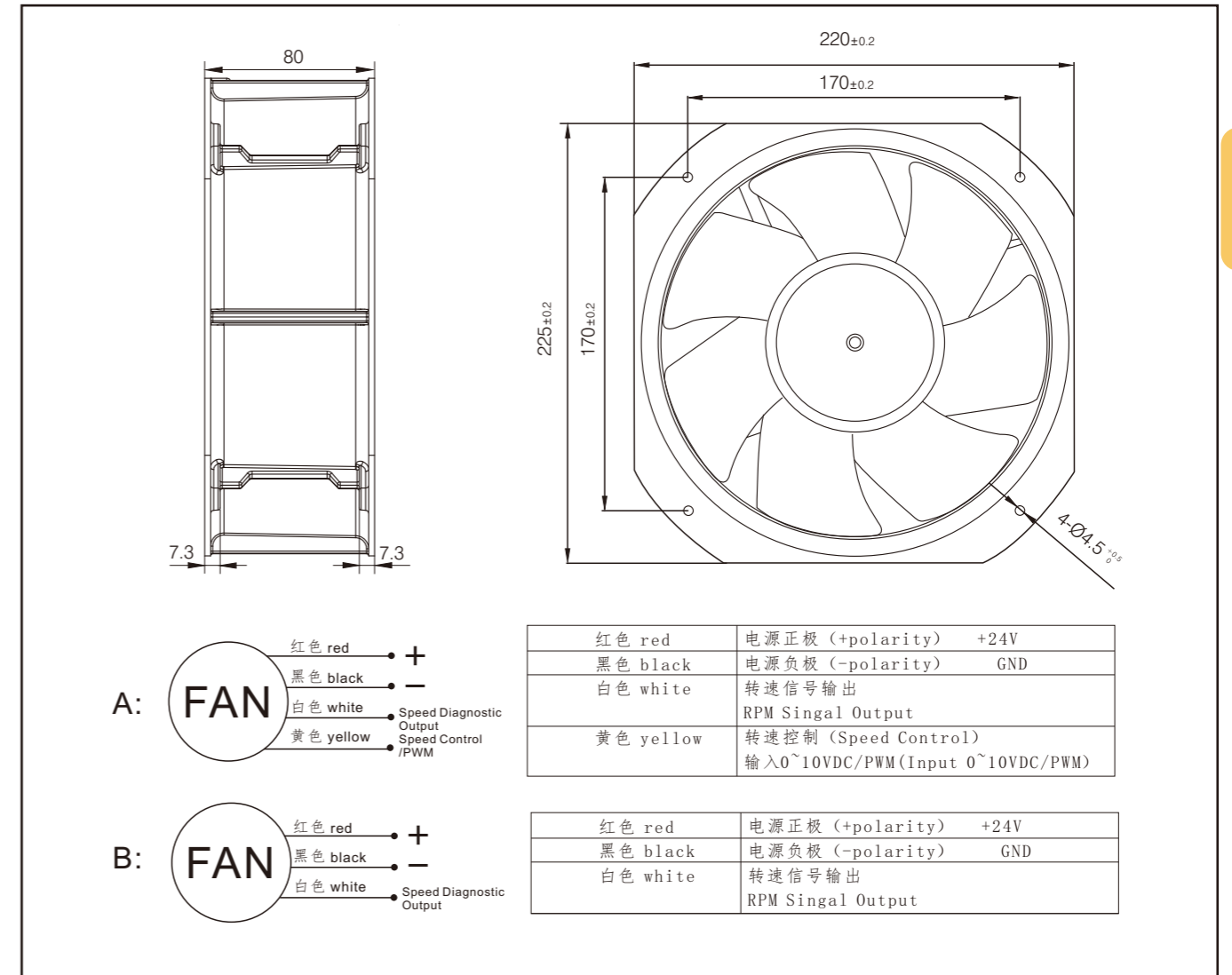


Core Highlights:

This series of DC axial fans combines high efficiency, intelligence, and high reliability design, designed specifically for the demanding heat dissipation needs.

- 1 Voltage supply: Supports two DC voltage specifications of 24V and 48V, suitable for different industrial power environments, and has the characteristics of compact structure and strong power.
- 2 Motor Design: Adopting a DC brushless motor design, it runs smoothly and has low vibration, achieving a balance between high driving efficiency and low noise.
- 3 Standard rotation direction: defined as counterclockwise direction (observed from the axial direction to the rotor direction).
- 4 Bearing System: Equipped with ball bearings, optimized for continuous operation mode (S1 working system), ensuring durability and stability under long-term high loads.
- 5 Protection Levels: The standard protection level is IP20, and up to IP54 protection options are available, effectively preventing dust intrusion and splashing, expanding the application range in harsh industrial environments.
- 6 Reliable electrical connections: The main power line can be selected in AWG18/20/22 specifications, and the speed signal and control lines use AWG22 cables; The shell integrates M4 × 8 screw grounding terminals to ensure safe and convenient wiring.
- 7 Intelligent monitoring function: Integrated speed feedback function, real-time monitoring of fan operation status, convenient for system pre maintenance.
- 8 External Sensor Expansion: Supports connecting external temperature sensors to achieve intelligent speed control based on actual temperature, further improving system energy efficiency and safety.
- 9 All metal structure: The aluminum alloy die-casting frame is matched with metal blades to ensure structural durability.

This series of DC fans is deeply integrated with efficient driving, sturdy structure, and intelligent control, providing strong wind power while significantly optimizing noise performance and operating efficiency. Specially suitable for various ventilation and heat dissipation scenarios that require strict reliability, quietness, and intelligent management of heat dissipation solutions, such as data centers, communication equipment, industrial automation, and medical instruments.



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Rated Voltage 电压范围 V | Current 额定电流 (A) | Power 功率 (W) ^{+10% -20%} | Type 调速类型 (V) | Speed 回转速 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|---------------|-------------|----------------------------|----------------------------|------------------------|---|---------------------|--------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| FD22082MAB24A | DC Motor | 24 | 16~28 | 1.8A±0.1A | 44 | 1~10 | 2750 | 577 977 | 210 | -10~70 | 60 | A |
| FD22082MAB24B | DC Motor | 24 | 16~28 | 1.8A±0.1A | 44 | NC | 2750 | 577 977 | 210 | -10~70 | 60 | B |
| FD22082MAB48A | DC Motor | 48 | 36~57 | 0.9A±0.1A | 44 | 1~10 | 2750 | 577 977 | 210 | -10~70 | 60 | A |
| FD22082MAB48B | DC Motor | 48 | 36~57 | 0.9A±0.1A | 44 | NC | 2750 | 577 977 | 210 | -10~70 | 60 | B |

FD28082MAB24

A: FAN

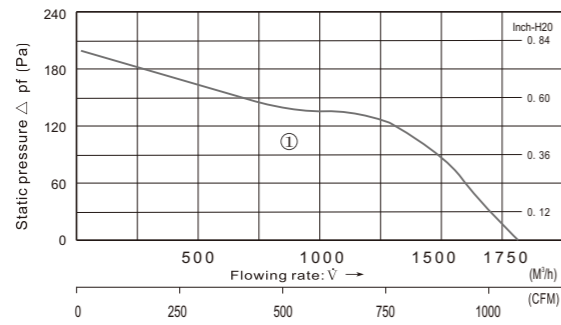
- 红色 red → +
- 黑色 black → -
- 白色 white → Speed Diagnostic Output
- 黄色 yellow → Speed Control / PWM

| | | |
|-----------|----------------------|------------------------------------|
| 红色 red | 电源正极 (+polarity) | +24V |
| 黑色 black | 电源负极 (-polarity) | GND |
| 白色 white | 转速信号输出 | RPM Singal Output |
| 黄色 yellow | 转速控制 (Speed Control) | 输入 0~10VDC/PWM (Input 0~10VDC/PWM) |

B: FAN

- 红色 red → +
- 黑色 black → -
- 白色 white → Speed Diagnostic Output

| | | |
|----------|------------------|-------------------|
| 红色 red | 电源正极 (+polarity) | +24V |
| 黑色 black | 电源负极 (-polarity) | GND |
| 白色 white | 转速信号输出 | RPM Singal Output |



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Rated Voltage 电压范围 V | Current 额定电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Type 调速类型 (V) | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Temperature 工作温度 (°C) | Noise 噪音 (dB) | Diagram 接线图 |
|---------------|-------------|----------------------------|----------------------------|------------------------|--|---------------------|---------------------------------------|--|---------------------------------|-----------------------------|---------------------|----------------|
| FD28082MAB24A | DC Motor | 24 | 16~28 | 4.4A±0.4A | 105 | 1~10 | 2750 | 1068 1810 | 210 | -10~70 | 69 | A |
| FD28082MAB24B | DC Motor | 24 | 16~28 | 4.4A±0.4A | 105 | NC | 2750 | 1068 1810 | 210 | -10~70 | 69 | B |
| FD28082MAB48A | DC Motor | 48 | 36~57 | 2.2A±0.2A | 105 | 1~10 | 2750 | 1068 1810 | 210 | -10~70 | 69 | A |
| FD28082MAB48B | DC Motor | 48 | 36~57 | 2.2A±0.2A | 105 | NC | 2750 | 1068 1810 | 210 | -10~70 | 69 | B |

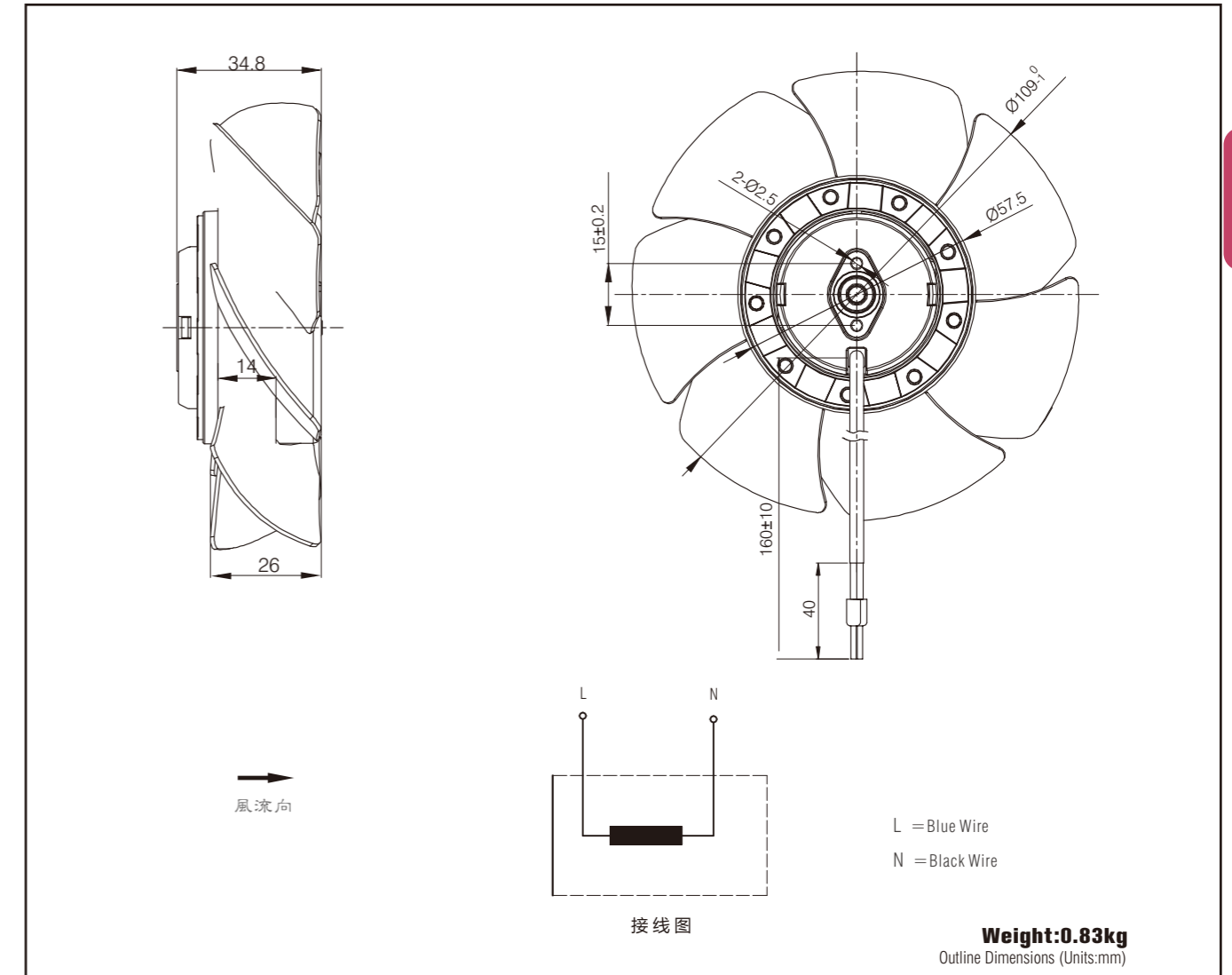
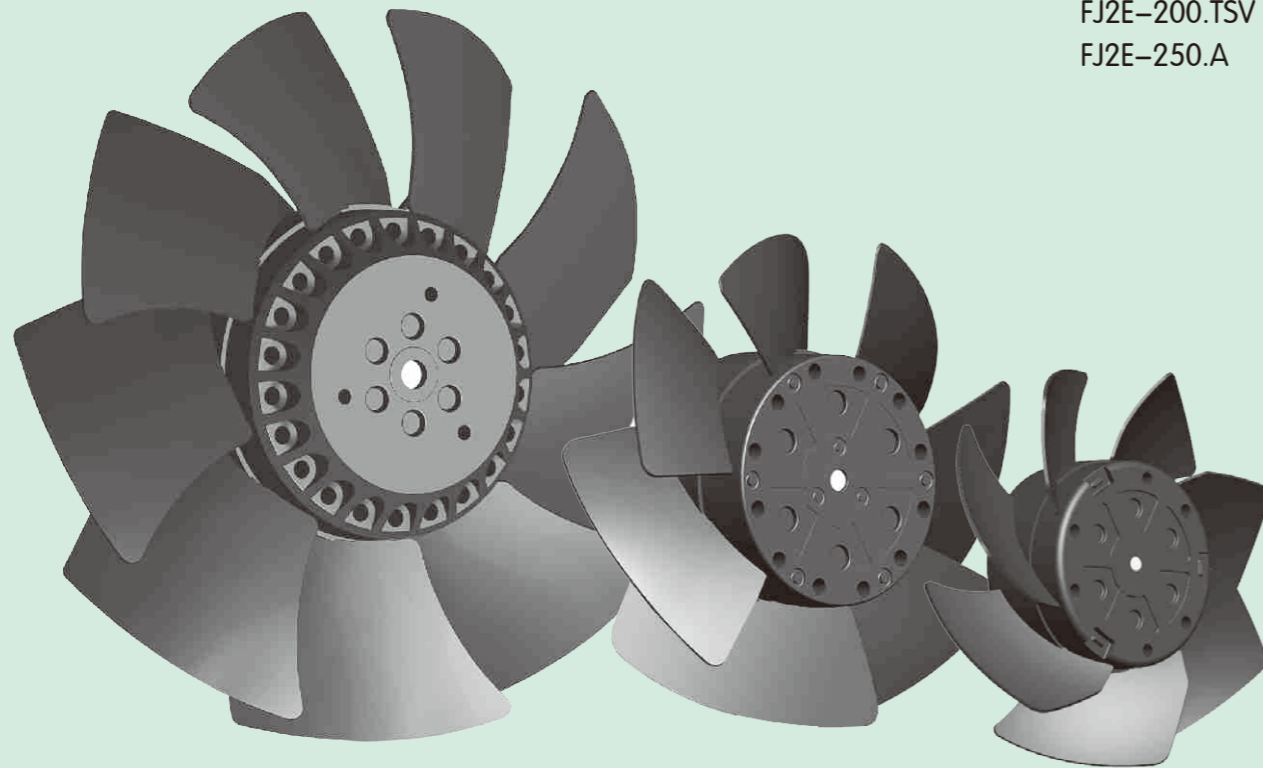
Total solution
总解决方案



Motor Fan Blade Assembly
电机风叶总成

AC series

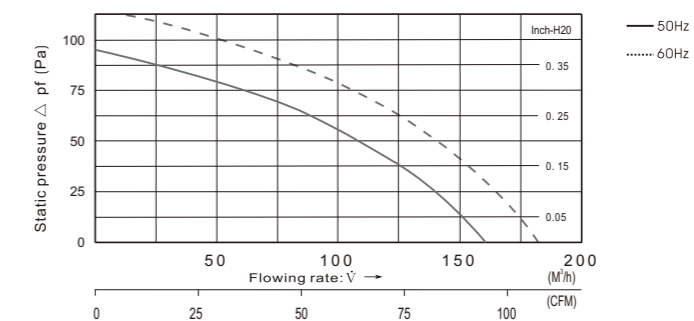
FJ2E-109.A
FJ2E-130.A
FJ2E-200.A
FJ2E-200.TSV
FJ2E-250.A



Core Highlights:

- ① Advantages: Low cost, compact structure, and easy integration design for equipment manufacturers.
- ② Low Noise: The external rotor motor runs at a relatively uniform speed, and the sickle-shaped blade design helps reduce wind noise.
- ③ Quiet Expert: Stable operation of the external rotor combined with noise reduction from sickle blades creates a low-noise operating experience.
- ④ Powerful Start: Capacitor-start motor delivers high torque and strong load-carrying capacity, ensuring worry-free startup.
- ⑤ Safety Fortress: Class F (180°C) insulation, + V-0 flame retardancy build a dual safety barrier for electrical and fire protection.
- ⑥ IP44 Protection Rating: Effectively prevents the intrusion of solid foreign objects; splash-proof design adapts to humid environments.

This external rotor motor assembly fan is a typical "customer-oriented" product. It deeply understands the core needs of equipment manufacturers for cost, integration difficulty, and basic reliability—no redundant functions, and every feature directly addresses pain points. It is highly suitable for applications such as: industrial control cabinets, distribution boxes, commercial equipment (e.g., vending machines, ATMs), and heating, ventilation, and air conditioning (HVAC) equipment.

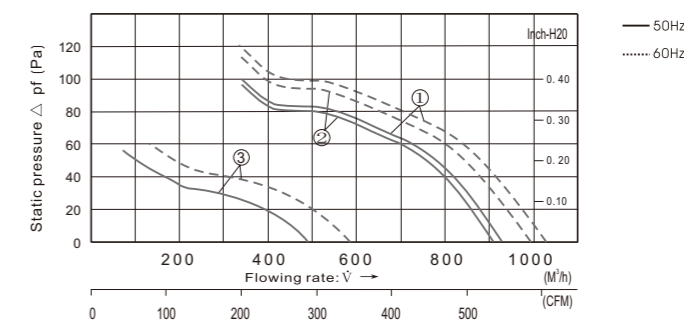
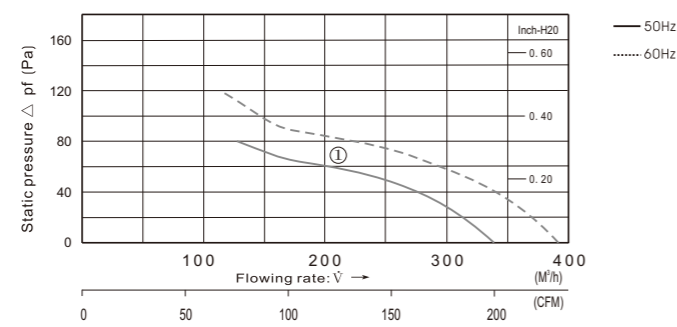
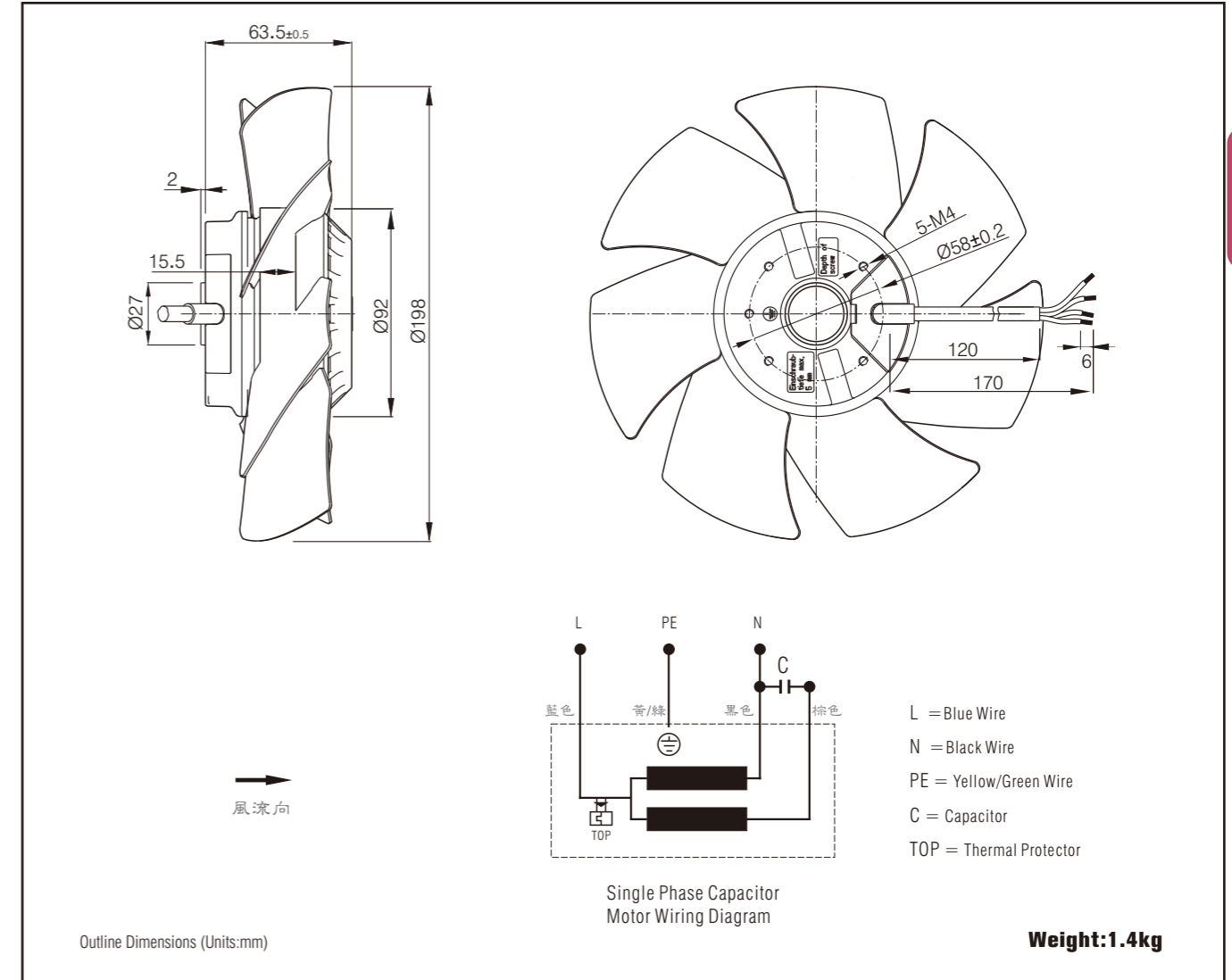
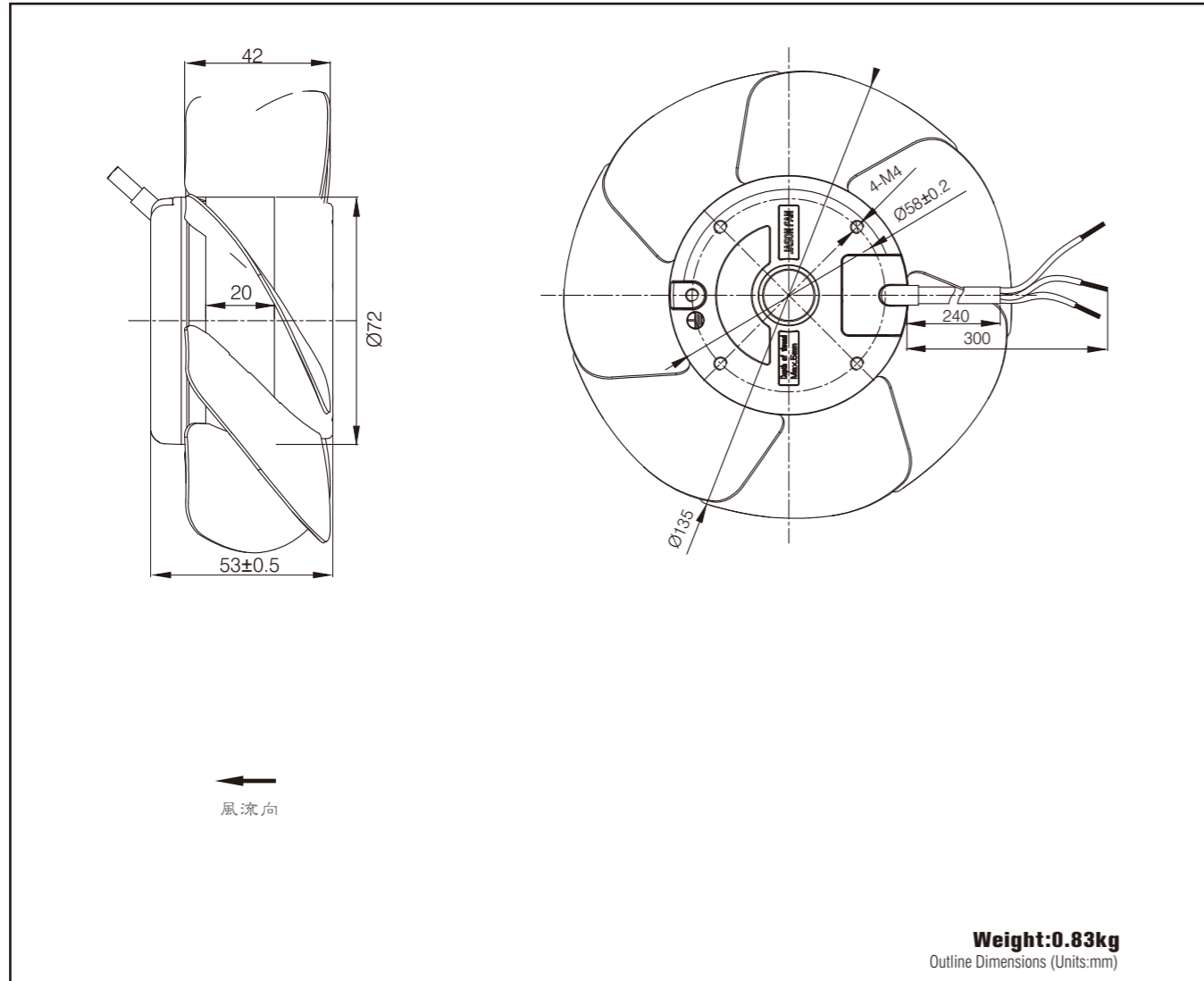


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ2S-109.A | M2S05701-AF | 115 | 50 | 0.27 | 19 | 2650 | 94 | 160 | 94 | 36 | ① |
| | | | 60 | 0.23 | 16 | 3100 | 106 | 180 | 130 | 38 | ② |
| FJ2E-109.A | M2E05701-AF | 230 | 50 | 0.12 | 18 | 2650 | 94 | 160 | 94 | 36 | ① |
| | | | 60 | 0.10 | 16 | 3100 | 106 | 180 | 130 | 38 | ② |

FJ2E-130.V

FJ2E-200.A



Parameters

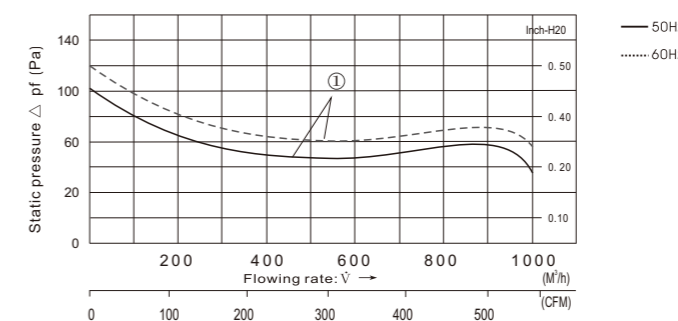
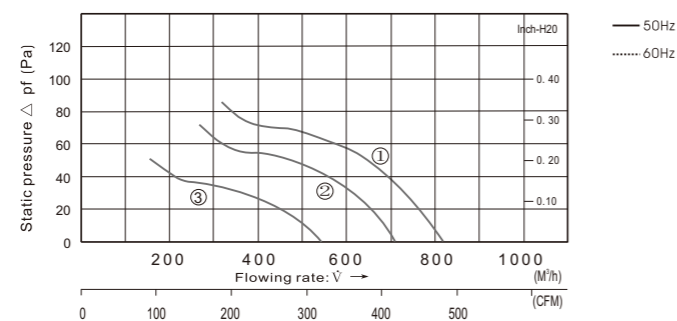
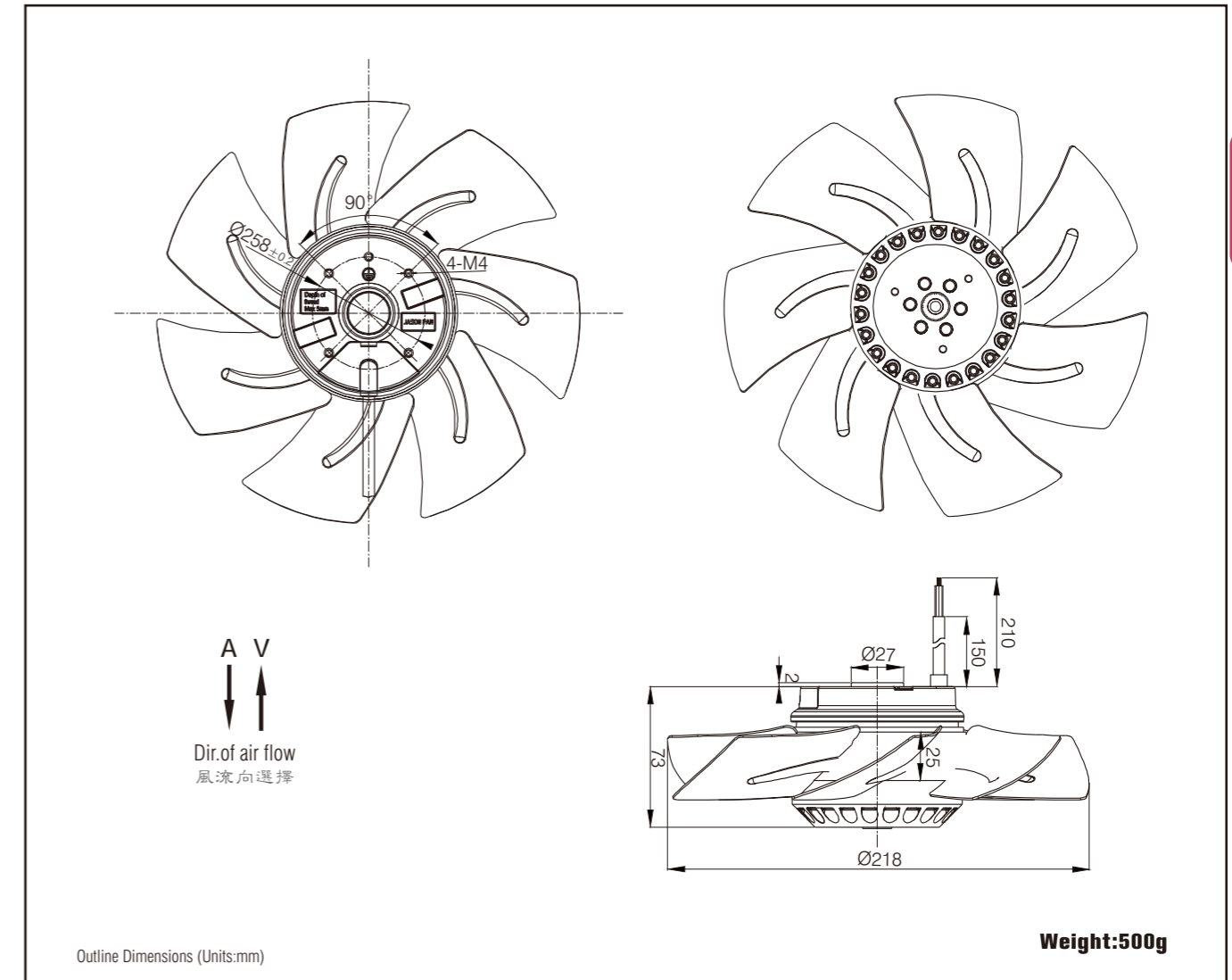
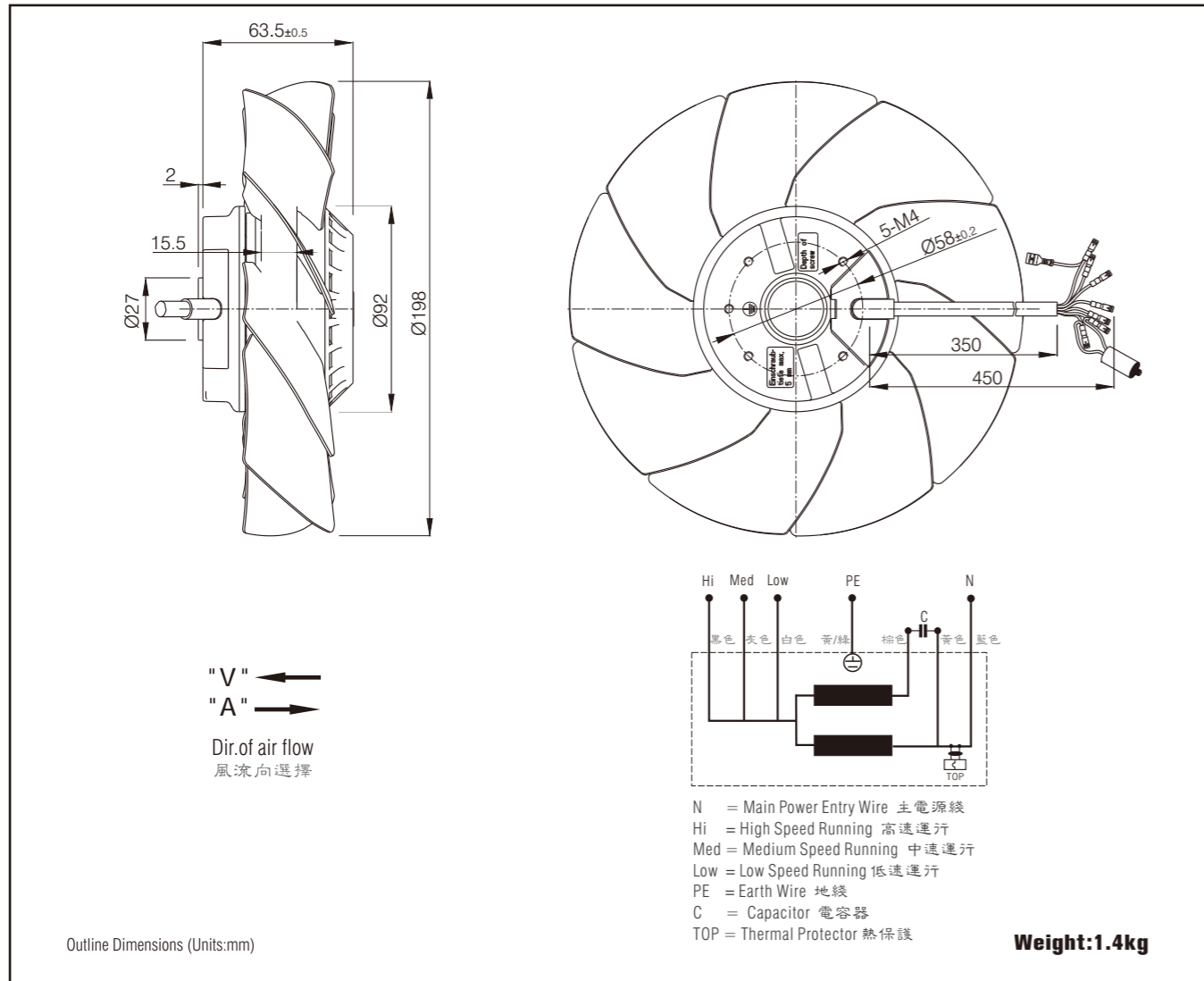
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ2E-130.V | M2E07201-AF | 230 | 50 | 0.29 | 43 | 2650 | 189 320 | 80 | 45 | ① | ----- |
| | | | 60 | 0.24 | 39 | 3000 | 224 380 | 120 | 50 | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ2E-200.A | M2E09201-AF | 230 | 50 | 0.30 | 62 | 2500 | 535 906 | 90 | 58 | ② | 1.5/450V |
| | | | 60 | 0.32 | 73 | 2700 | 578 979 | 115 | 60 | | |

FJ2E-200.TSV

FJ2E-218.V



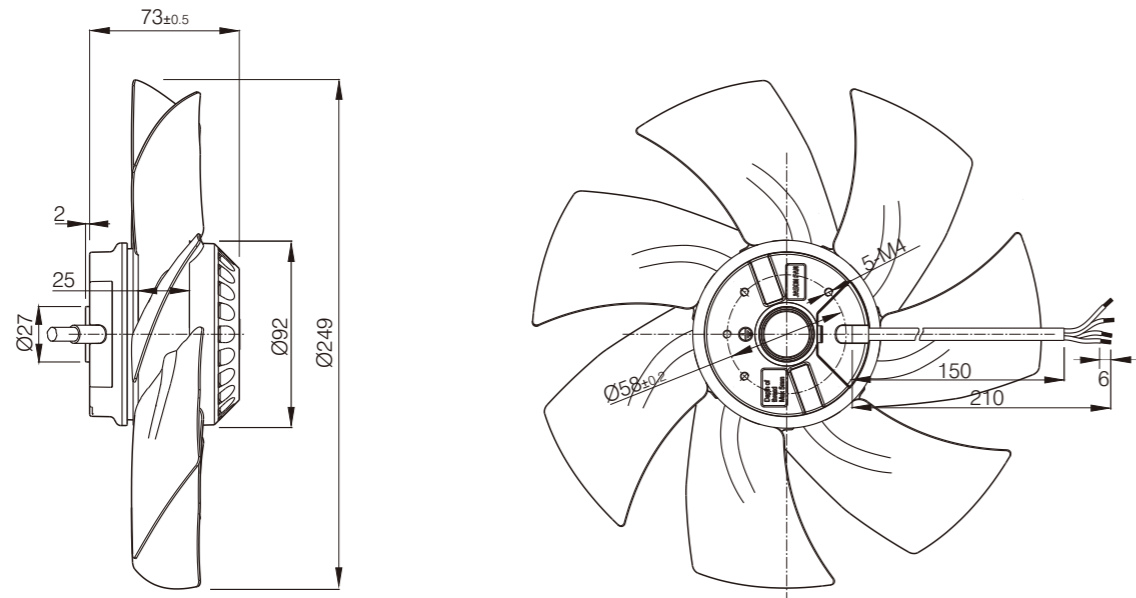
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|-------------------------------------|---------------------------------|---------------------|-------------|-------------------------------|
| FJ2E-200.TSV | M2S09201-AF | 230 | 50 | 0.20 | 43 | 2000 | 480 810 | 85 | 57 | ① | 2.0/450V |
| | | | 50 | 0.19 | 38 | 1750 | 415 705 | 75 | 53 | ② | |
| | | | 50 | 0.16 | 32 | 1350 | 321 545 | 50 | 49 | ③ | |

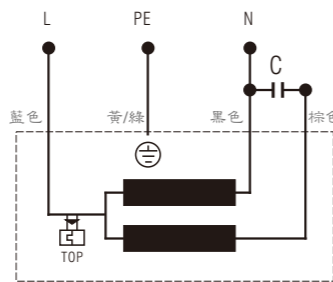
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|-------------------------------------|---------------------------------|---------------------|-------------|-------------------------------|
| FJ2S-218.V | M2S09202-AF | 115 | 50 | 0.98 | 92 | 2650 | 1003 1700 | - | 70 | ① | 8.0/250V |
| | | | 60 | 0.96 | 107 | 3000 | 1003 1700 | | 70 | | |
| FJ2E-218.V | M2E09202-AF | 230 | 50 | 0.48 | 92 | 2600 | 1003 1700 | | 70 | ① | 2.0/450V |
| | | | 60 | 0.48 | 107 | 2900 | 1003 1700 | | 70 | | |
| FJ2D-218.V | M2D09202-AF | 380 | 50 | 0.26 | 92 | 2650 | 1003 1700 | | 70 | ① | 1.0/630V |
| | | | 60 | 0.32 | 122 | 3000 | 1003 1700 | | 70 | | |

FJ2E-250.A



"V" ←
"A" →
Dir. of air flow
風流向選擇

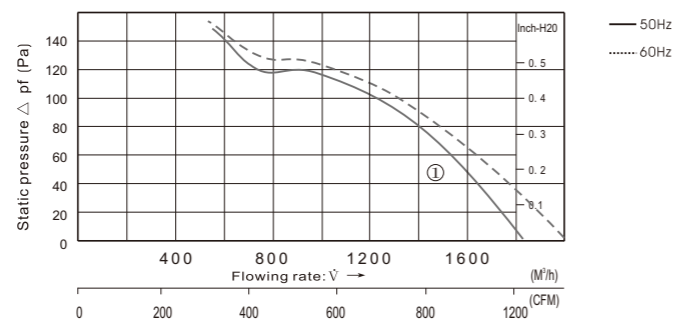


L = Blue Wire
N = Black Wire
PE = Yellow/Green Wire
C = Capacitor
TOP = Thermal Protector

Single Phase Capacitor
Motor Wiring Diagram

Outline Dimensions (Units:mm)

Weight:1.8kg



Parameters

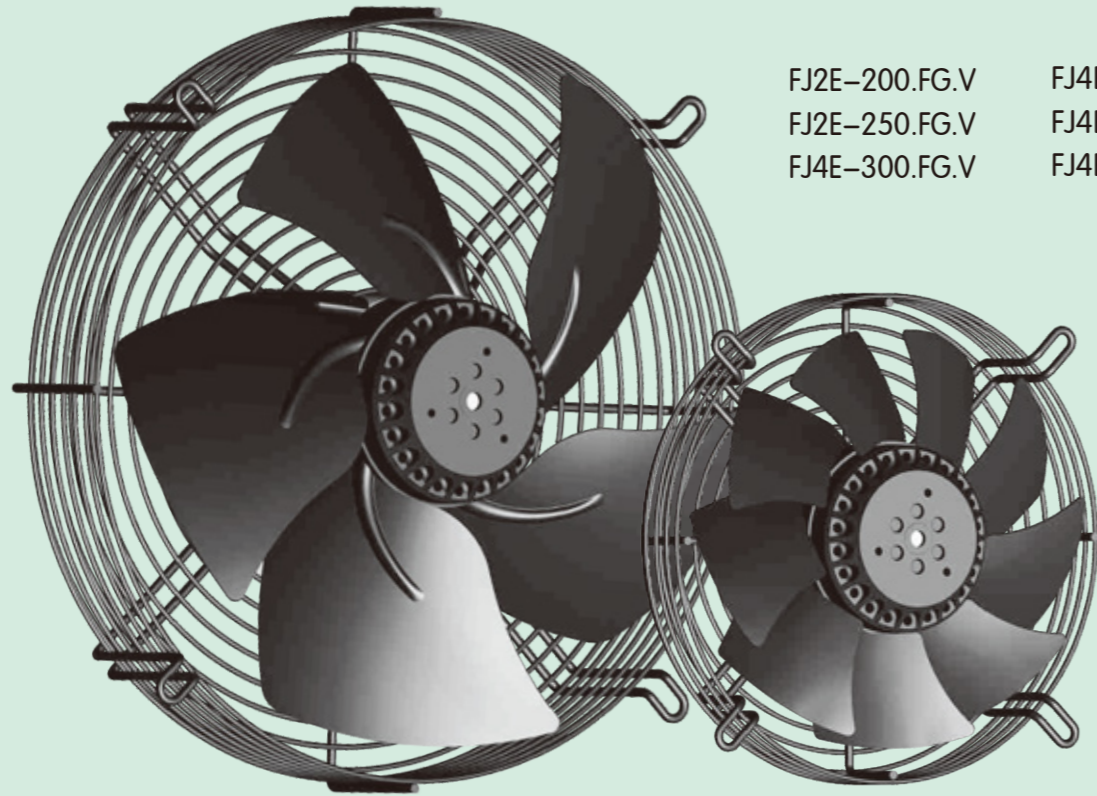
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| FJ2S-250.V/A | M2S09202-AF | 115 | 50 | 1.10 | 110 | 2550 | 1098 1860 | 150 | 67 | ① | 8.0/250V |
| | | | 60 | 1.20 | 140 | 2800 | 1239 2100 | 155 | 69 | | |
| FJ2E-250.V/A | M2E09202-AF | 230 | 50 | 0.48 | 105 | 2550 | 1098 1860 | 150 | 67 | | |
| | | | 60 | 0.62 | 140 | 2800 | 1239 2100 | 155 | 69 | | |
| FJ2D-250.V/A | M2D09202-AF | 380 | 50 | 0.29 | 115 | 2550 | 1098 1860 | 150 | 67 | | |
| | | | 60 | 0.39 | 150 | 2800 | 1239 2100 | 155 | 69 | | |

Total solution
总解决方案



Net Cover Installation fan
网罩安装式风扇

AC series



| | |
|---------------|---------------|
| FJ2E-200.FG.V | FJ4E-350.FG.V |
| FJ2E-250.FG.V | FJ4E-400.FG.V |
| FJ4E-300.FG.V | FJ4E-450.FG.V |

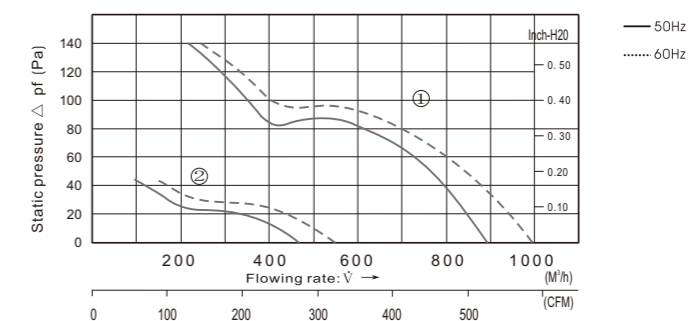
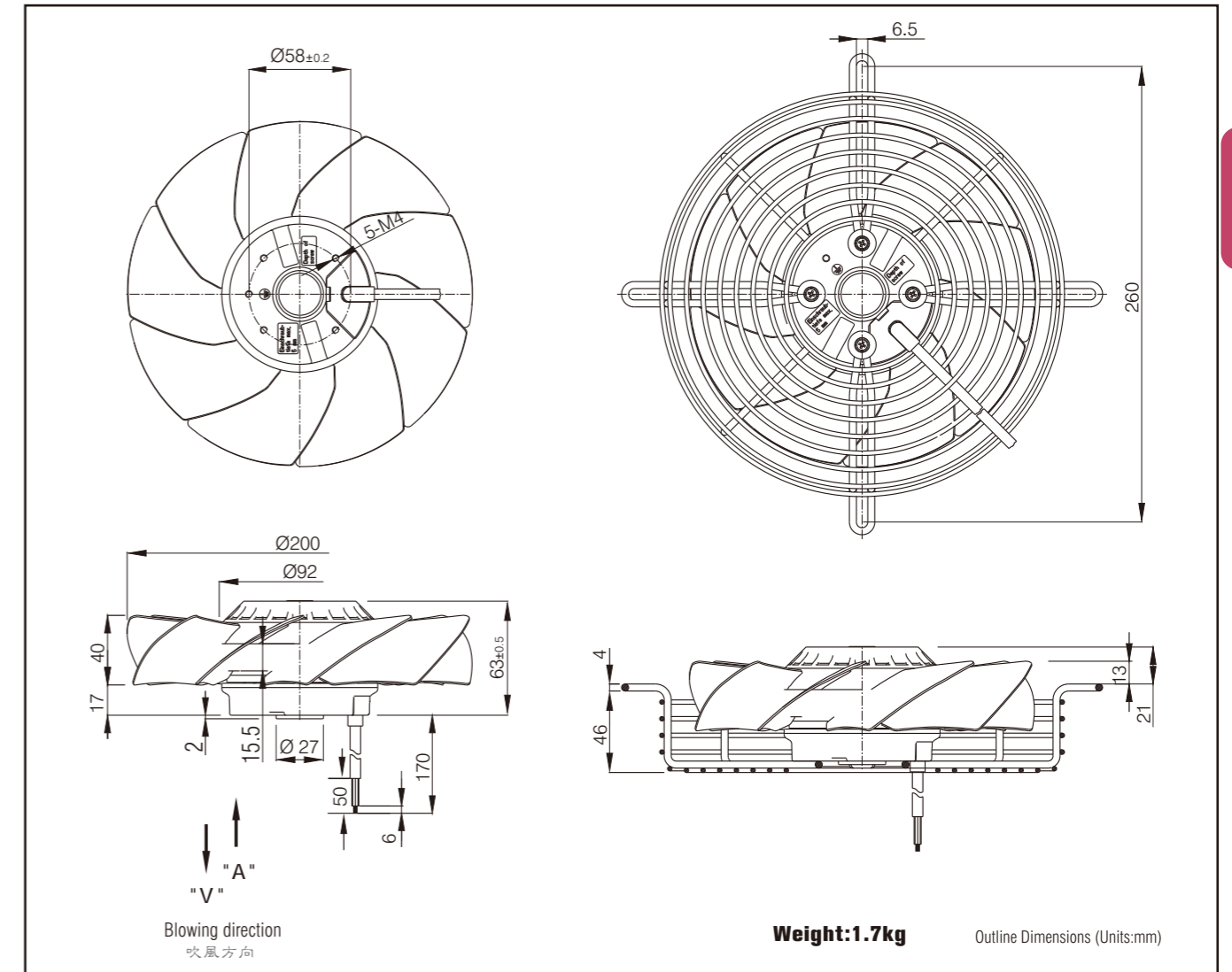
Core Highlights:

- 1 Squirrel-Cage Capacitor External Rotor Motor: Delivers strong power. Capacitor start ensures high starting torque, with strong load-carrying capacity, high operating efficiency, and low energy consumption.
- 2 Metal Sickle Blades: Formed by stamping, ensuring high consistency. Fixed by welding for reliable connection, featuring excellent aerodynamic performance and large airflow.
- 3 Protective Grille: Made of metal wire, with a sturdy structure. Treated with black electrophoresis for good anti-corrosion performance, effectively preventing foreign objects from entering and ensuring safe use.
- 4 Class F Insulation System: Designed in accordance with IEC 61858 Class F standard, with sufficient thermal margin and long service life. All insulation materials meet V-0 flame-retardant grade.
- 5 Auto-Recovery Thermal Protection: Built-in thermal protector automatically cuts off power when overheated and resets automatically when the temperature returns to normal.
- 6 Wide Temperature and Humidity Range: Operating temperature: -30°C~+75°C; humidity range: 0%~95% (non-condensing). ⑦ IP44 Protection Rating: Dust-proof and splash-proof, adapting to harsh environments.

Application Fields:

- 1 Heat dissipation for industrial control cabinets
- 2 Cooling for mechanical equipment
- 3 Ventilation for power electronic equipment
- 4 Heat dissipation and protection for outdoor equipment
- 5 Heat dissipation scenarios requiring safety protection

The NIETZ grille-mounted fan series adopts an all-metal structure and multi-layer safety protection design. It has excellent anti-corrosion performance and reliable operating characteristics, providing safe and efficient heat dissipation solutions for various industrial applications.

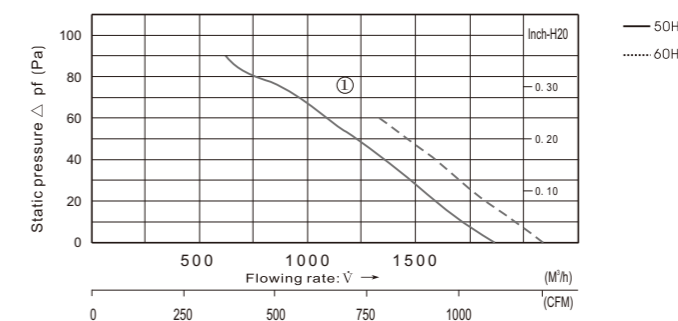
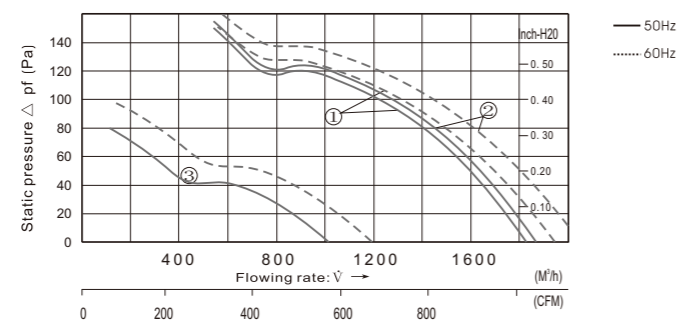
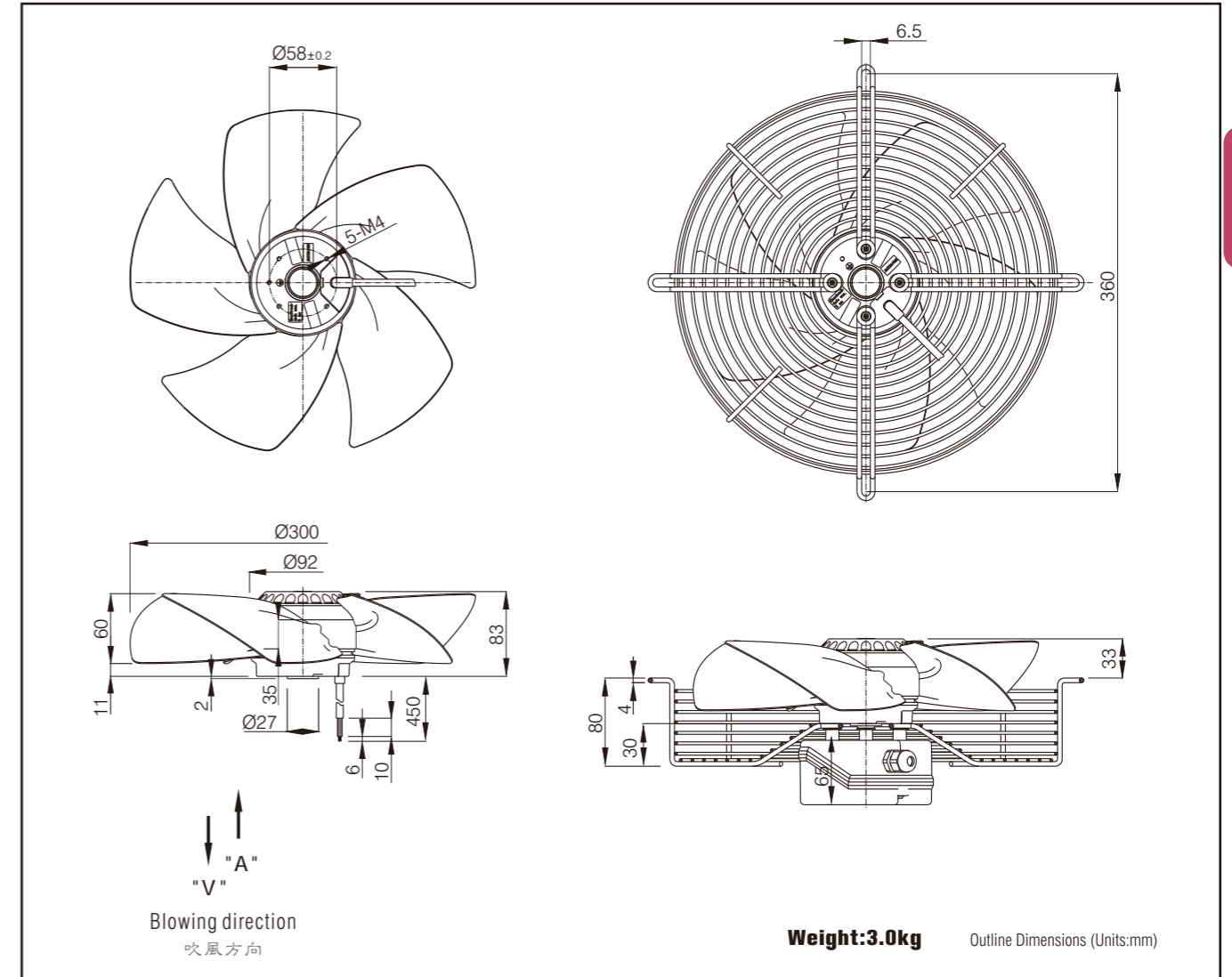
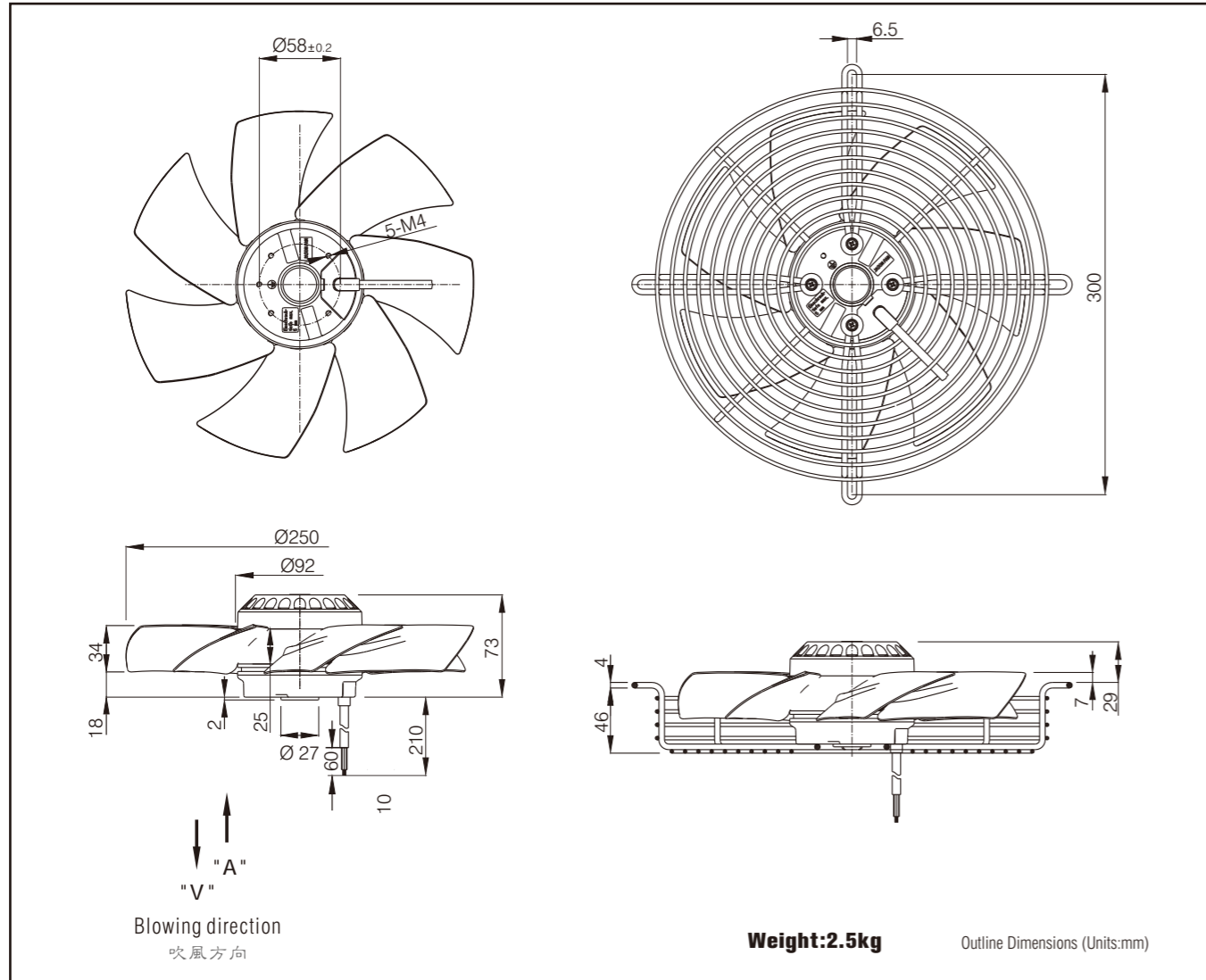


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% ±20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) | |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|----------|
| FJ2S-200.FGV | M2S09201-AF | 115 | 50 | 0.68 | 68 | 2550 | 525 | 890 | 140 | ① | 4.0/250V | |
| FJ2E-200.FGV | M2E09201-AF | | 60 | 0.74 | 80 | 2800 | 584 | 990 | 140 | | 67 | 1.5/450V |
| FJ2D-200.FGV | M2D09201-AF | 380 | 50 | 0.29 | 63 | 2550 | 525 | 890 | 140 | | 64 | 0.5/630V |
| | | | 60 | 0.33 | 75 | 2800 | 584 | 990 | 140 | | 67 | |
| FJ4S-200.FGV | M4S09201-AF | 115 | 50 | 0.17 | 63 | 2550 | 525 | 890 | 140 | | 64 | 3.0/250V |
| | | | 60 | 0.19 | 75 | 2800 | 584 | 990 | 140 | | 67 | |
| | | | 50 | 0.28 | 30 | 1350 | 274 | 465 | 50 | 42 | | |
| | | | 60 | 0.28 | 31 | 1600 | 322 | 545 | 50 | 46 | | |

FJ2E-250.FG.V

FJ4E-300.FG.V



Parameters

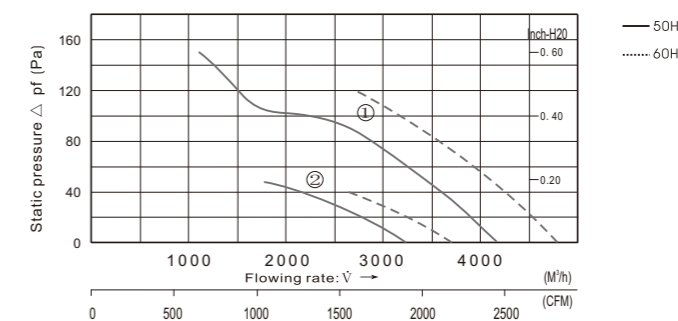
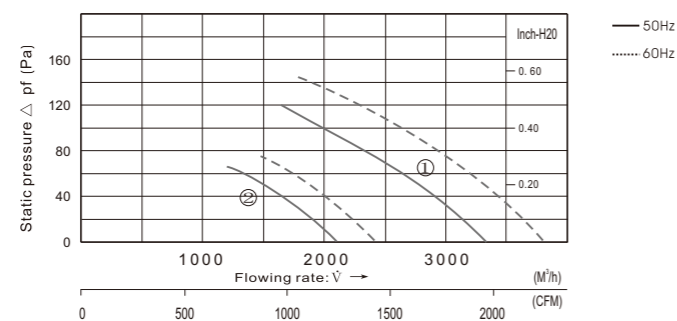
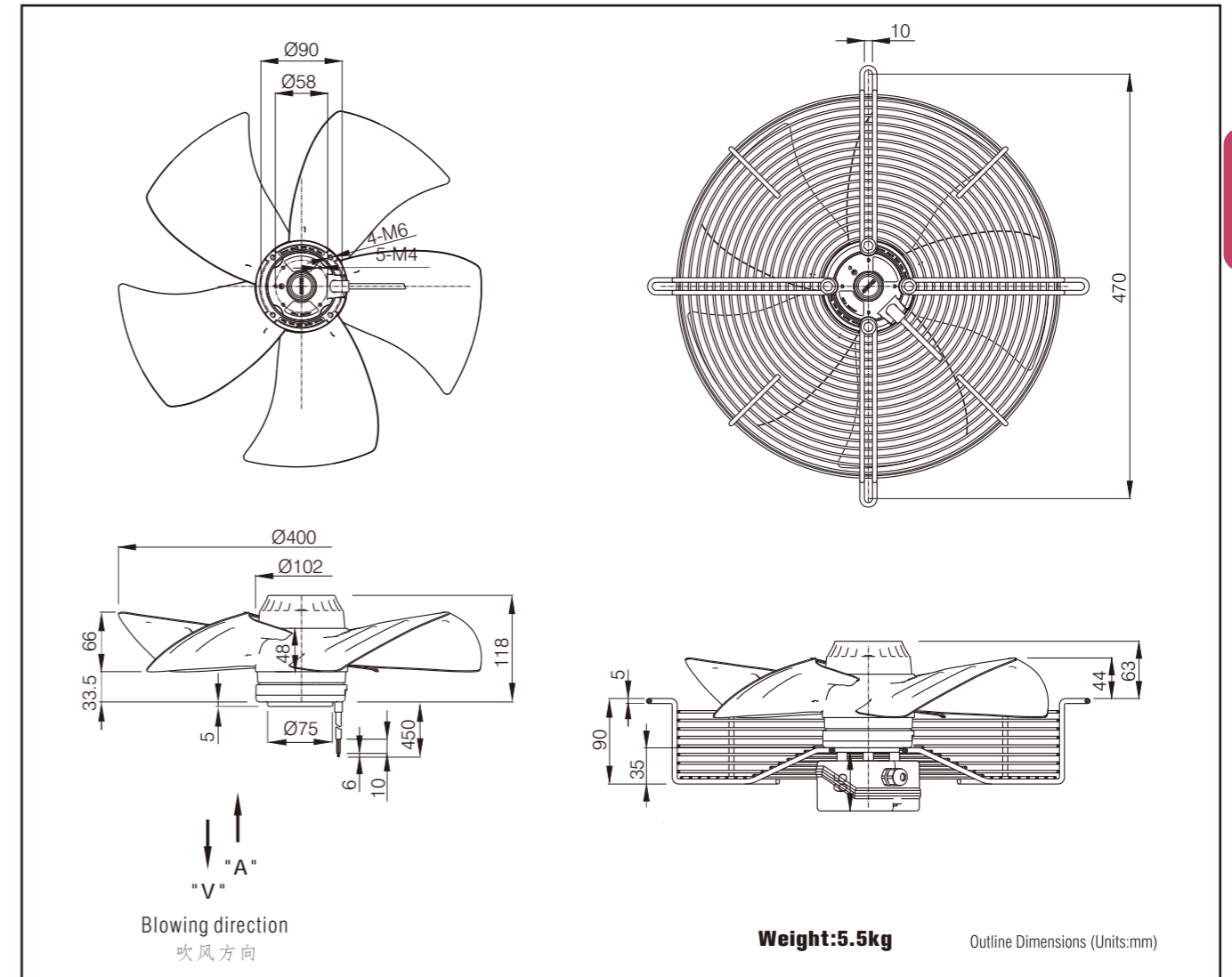
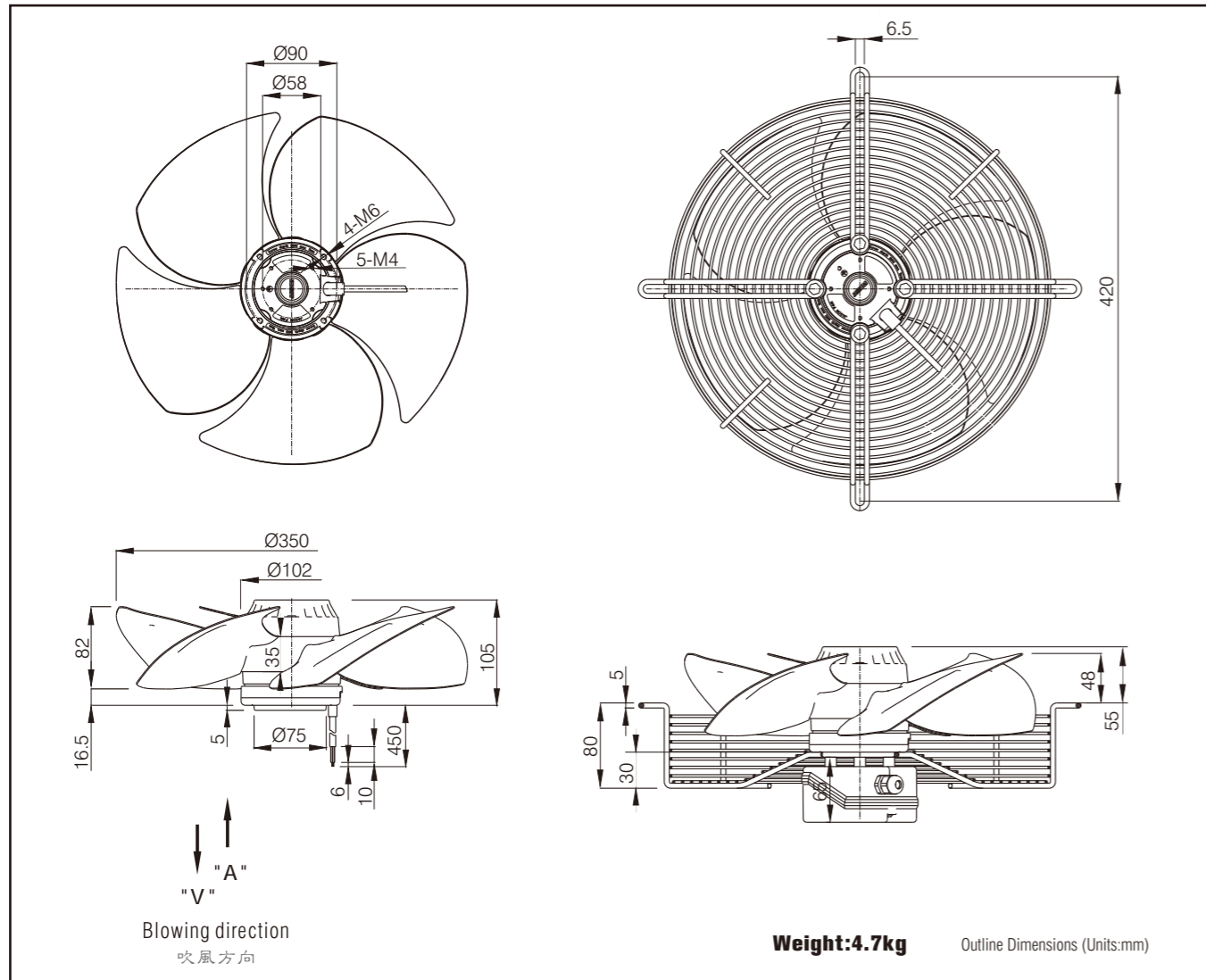
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) $\pm 10\%$ $\pm 20\%$ | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|----------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ2S-250.FGV/A | M2S09202-AF | 115 | 50 | 1.10 | 110 | 2500 | 1080 1830 | 150 | 69 | ① | 8.0/250V |
| | | | 60 | 1.20 | 136 | 2650 | 1151 1950 | 150 | 70 | | |
| FJ2E-250.FGV/A | M2E09202-AF | 230 | 50 | 0.48 | 105 | 2550 | 1100 1867 | 150 | 69 | | 3.0/450V |
| | | | 60 | 0.62 | 140 | 2800 | 1215 2060 | 160 | 71 | ② | |
| FJ2D-250.FGV/A | M2D09202-AF | 380 | 50 | 0.29 | 115 | 2550 | 1100 1867 | 150 | 69 | | 1.0/630V |
| | | | 60 | 0.39 | 150 | 2800 | 1215 2060 | 160 | 71 | | |
| FJ4E-250.FGV/A | M4E09202-AF | 230 | 50 | 0.24 | 53 | 1400 | 596 1010 | 80 | 54 | | 1.5/450V |
| | | | 60 | 0.25 | 57 | 1650 | 708 1200 | 100 | 58 | ③ | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) $\pm 10\%$ $\pm 20\%$ | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|----------------|-------------|----------------------------|------------------------|----------------------|---|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ4S-300.FGV/A | M4S09203-AF | 115 | 50 | 0.99 | 95 | 1350 | 1080 1830 | 90 | 57 | | 10.0/250V |
| | | | 60 | 0.92 | 100 | 1550 | 1239 2100 | 60 | 60 | | |
| FJ4E-300.FGV/A | M4E09203-AF | 230 | 50 | 0.40 | 90 | 1350 | 1080 1830 | 90 | 57 | ① | 2.0/450V |
| | | | 60 | 0.48 | 110 | 1450 | 1239 2100 | 60 | 60 | | |
| FJ4D-300.FGV/A | M4D09203-AF | 380 | 50 | 0.26 | 90 | 1350 | 1080 1830 | 90 | 57 | | 1.0/630V |
| | | | 60 | 0.29 | 112 | 1530 | 1239 2100 | 60 | 60 | | |

FJ4E-350.FG.V

FJ4E-400.FG.V



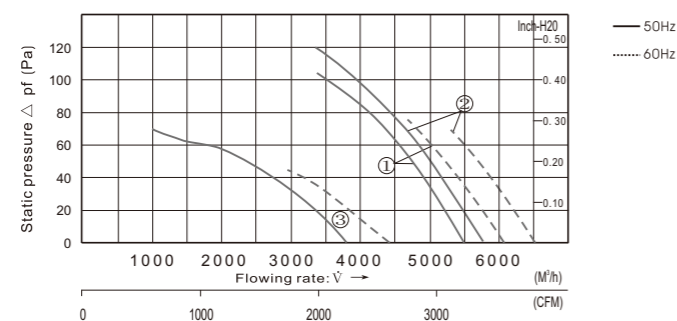
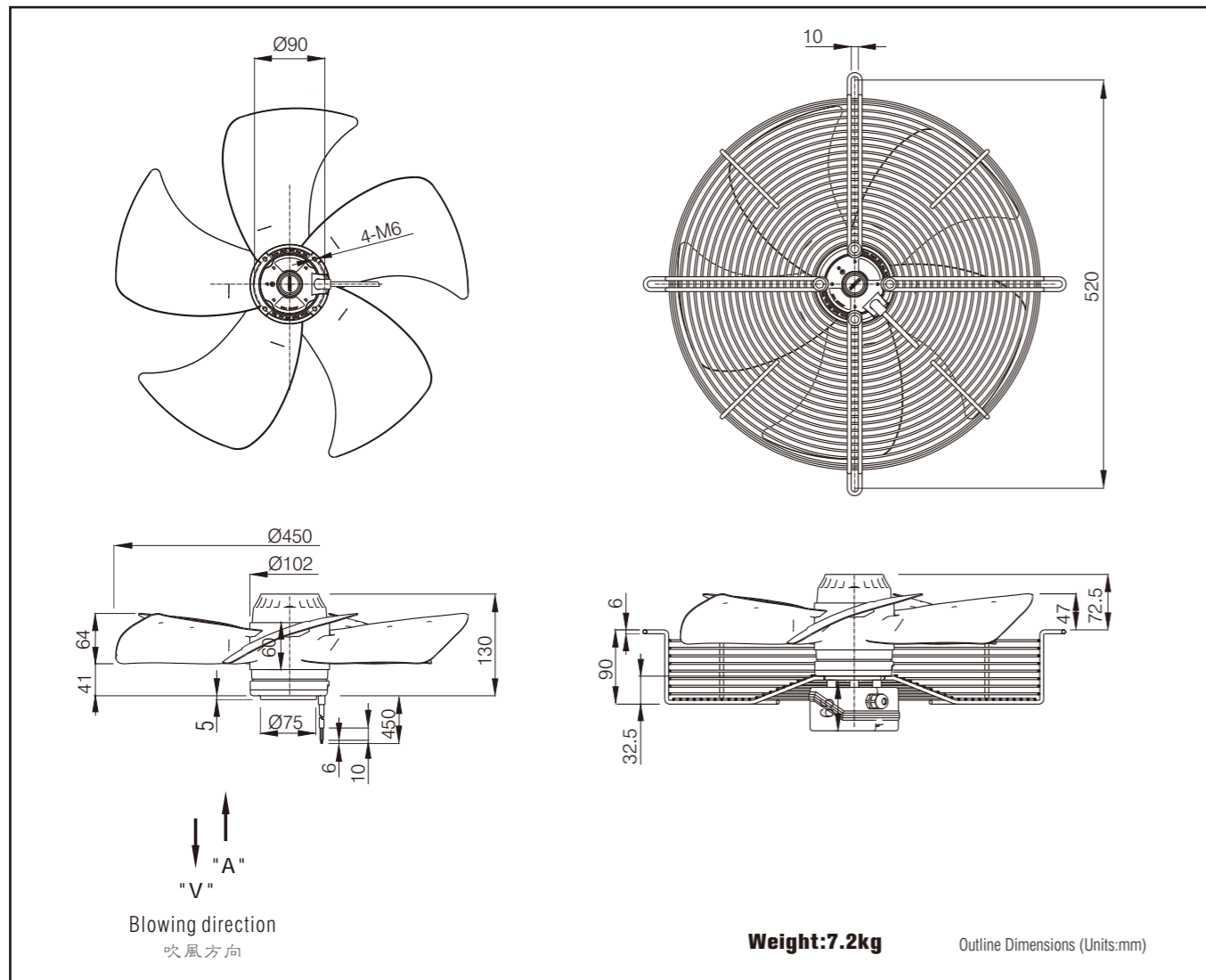
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|---------------|--------------|----------------------------|------------------------|----------------------|---------------------------------|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| FJ4S-350.FGV | M4S10201-AF | 115 | 50 | 1.18 | 130 | 1400 | 1942 3290 | 120 | 64 | ① | 12.0/250V |
| | | | 60 | 1.52 | 170 | 1600 | 2225 3770 | 145 | 67 | | |
| FJ4E-350.FGV | M4E10201-AF | 230 | 50 | 0.59 | 135 | 1400 | 1942 3290 | 120 | 64 | ① | 4.0/450V |
| | | | 60 | 0.79 | 183 | 1600 | 2225 3770 | 145 | 67 | | |
| FJ4ED-350.FGV | M4ED10201-AF | 230/400 | 50 | .62/35 | 137/135 | 1400 | 1942 3290 | 120 | 64 | ① | ----- |
| | | | 60 | .58/32 | 167/170 | 1600 | 2225 3770 | 145 | 67 | | |
| FJ6E-350.FGV | M6E10201-AF | 115 | 50 | 0.32 | 68 | 950 | 1307 2215 | 40 | 55 | ② | 2.0/450V |
| | | | 60 | 0.37 | 83 | 1100 | 1510 2560 | 45 | 58 | | |

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|---------------|--------------|----------------------------|------------------------|----------------------|---------------------------------|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------|
| FJ4S-400.FGV | M4S10202-AF | 115 | 50 | 2.02 | 198 | 1400 | 2440 4140 | 150 | 68 | ① | 20.0/250V |
| | | | 60 | 2.22 | 248 | 1600 | 2750 4660 | 120 | 71 | | |
| FJ4E-400.FGV | M4E10202-AF | 230 | 50 | 0.83 | 185 | 1400 | 2440 4140 | 150 | 68 | ① | 5.0/450V |
| | | | 60 | 1.00 | 250 | 1600 | 2750 4660 | 120 | 71 | | |
| FJ4ED-400.FGV | M4ED10202-AF | 230/400 | 50 | .77/44 | 166/167 | 1400 | 2440 4140 | 150 | 64 | ① | ----- |
| | | | 60 | .75/43 | 226/225 | 1600 | 2750 4660 | 120 | 68 | | |
| FJ6E-400.FGV | M6D10202-AF | 400 | 50 | 0.21 | 68 | 920 | 1900 3220 | 50 | 71 | ② | ----- |
| | | | 60 | 0.19 | 82 | 1050 | 2170 3680 | 40 | 60 | | |

FJ4E-450.FG.V



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% ±20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|---------------|--------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ4E-450.FGV | M4E10203-AF | 230 | 50 | 1.12 | 245 | 1350 | 3250 5500 | 105 | 68 | ① | 6.0/450V |
| FJ4D-450.FGV | M4D10203-AF | 400 | 60 | 1.50 | 340 | 1480 | 3560 6030 | 75 | 71 | | 2.0/630V |
| FJ4ED-450.FGV | M4ED10203-AF | 230/400 | 50 | 1.08/62 | 222/220 | 1400 | 3360 5700 | 120 | 64 | ② | ----- |
| FJ6E-450.FGV | M6E10203-AF | 400 | 60 | 1.05/61 | 306/305 | 1600 | 3840 6500 | 70 | 68 | | ③ |

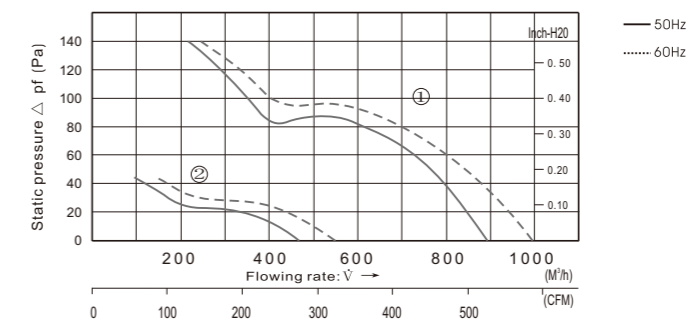
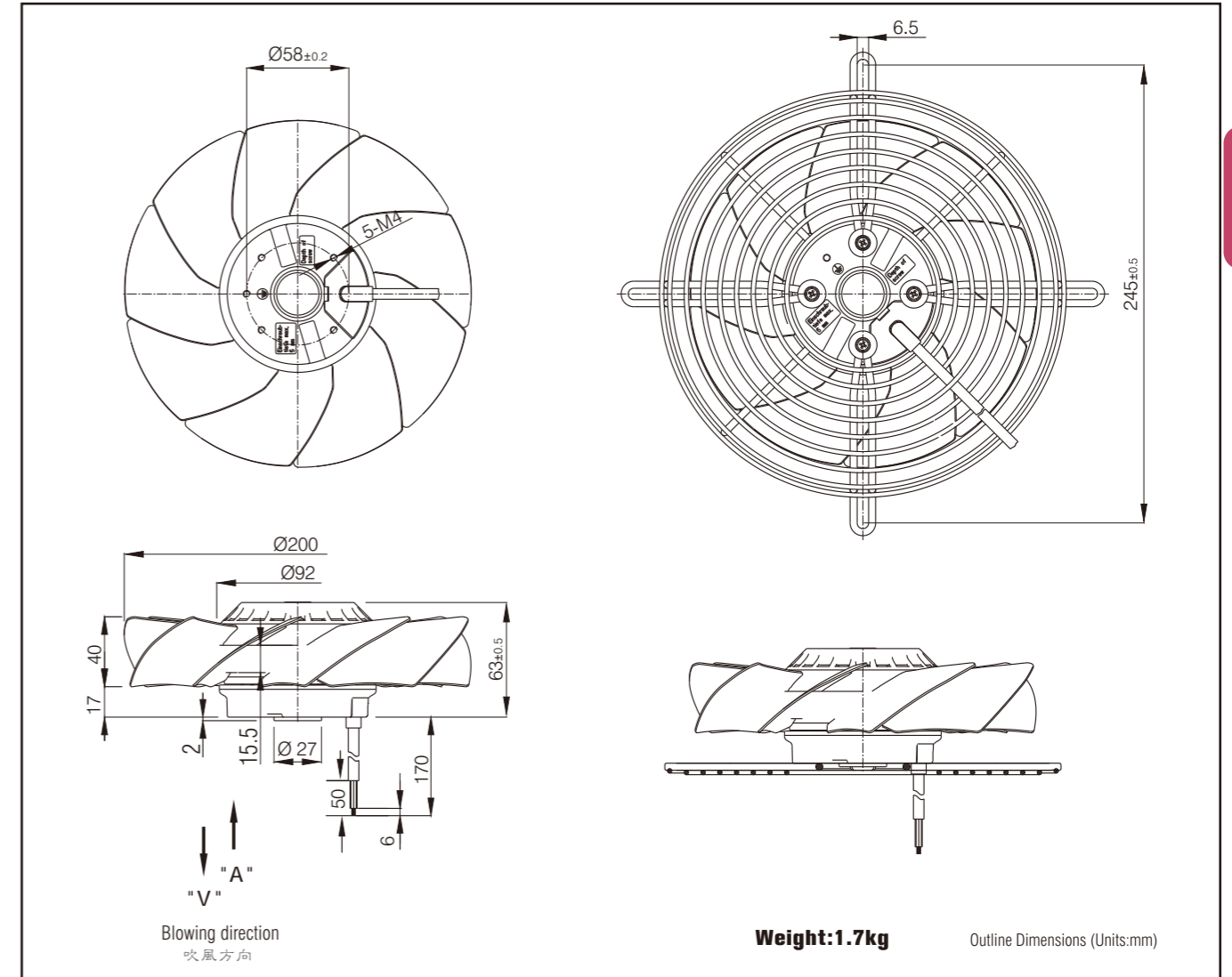
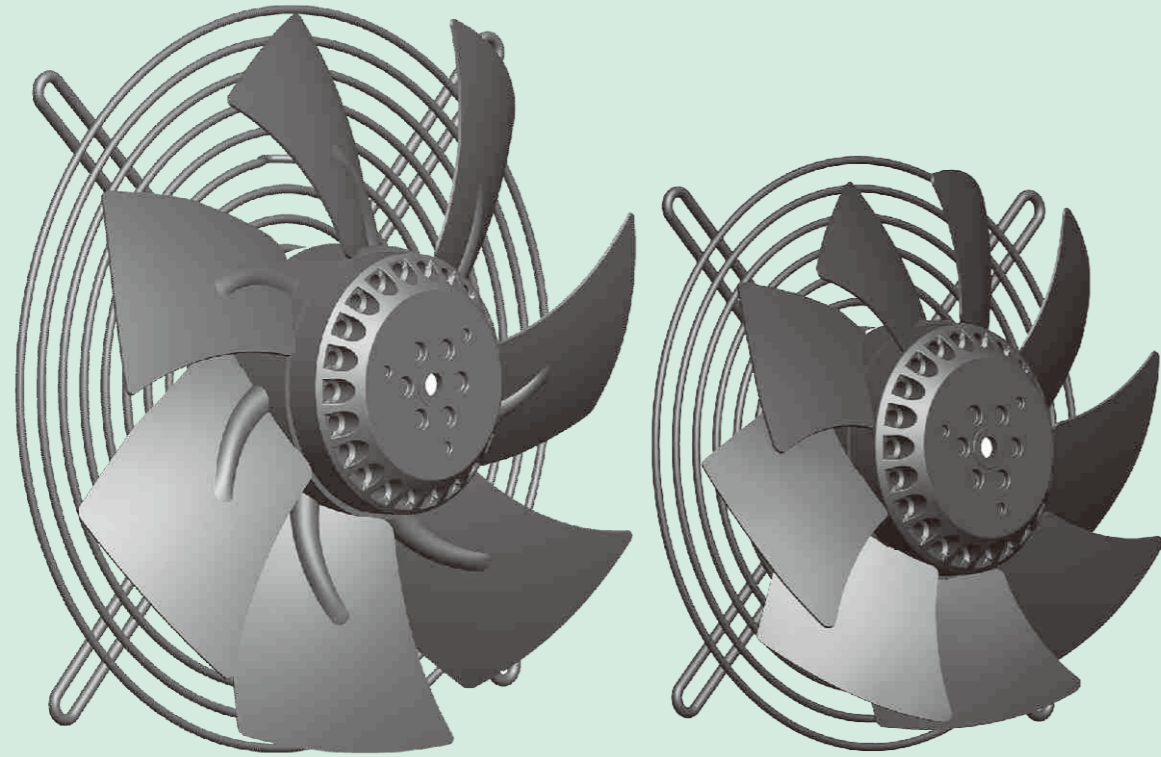
Total solution
总解决方案



Net Cover Installation fan
网罩安装式风扇

AC series

FJ2E-200.FG.V
FJ2E-250.FG.V

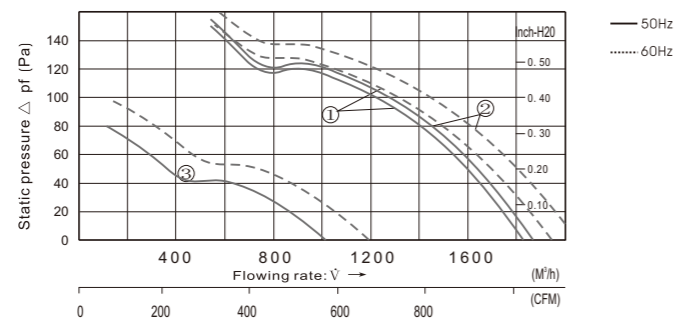
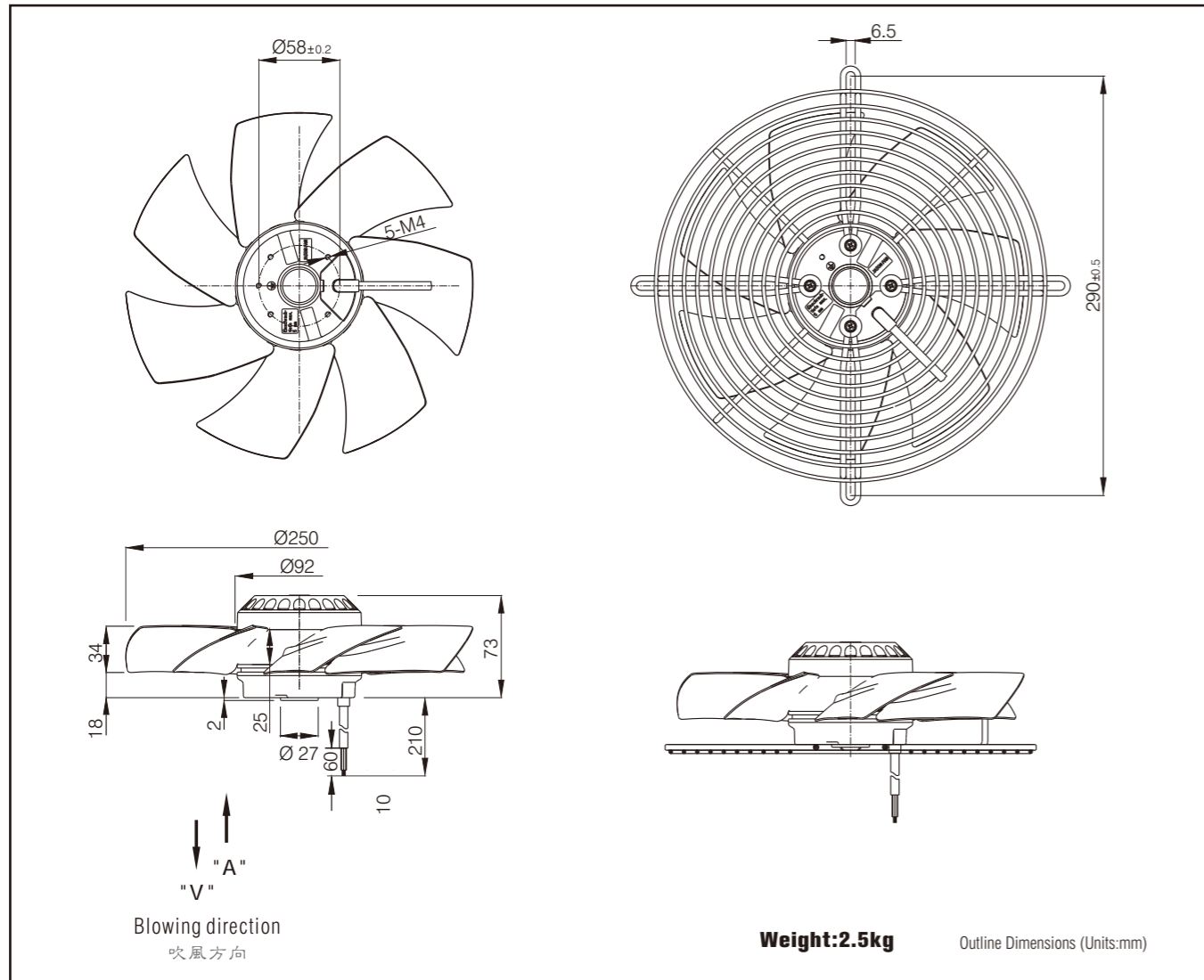


We are committed to providing customers with safe, reliable, and efficient cooling solutions to help your devices perform at their best!

Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% ±20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μF) |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------|
| FJ2S-200.FGV | M2S09201-AF | 115 | 50 | 0.68 | 68 | 2550 | 525 890 | 140 | 64 | ① | 4.0/250V |
| | | | 60 | 0.74 | 80 | 2800 | 584 990 | 140 | 67 | | |
| FJ2E-200.FGV | M2E09201-AF | 230 | 50 | 0.29 | 63 | 2550 | 525 890 | 140 | 64 | | 1.5/450V |
| | | | 60 | 0.33 | 75 | 2800 | 584 990 | 140 | 67 | | |
| FJ2D-200.FGV | M2D09201-AF | 380 | 50 | 0.17 | 63 | 2550 | 525 890 | 140 | 64 | | 0.5/630V |
| | | | 60 | 0.19 | 75 | 2800 | 584 990 | 140 | 67 | | |
| FJ4S-200.FGV | M4S09201-AF | 115 | 50 | 0.28 | 30 | 1350 | 274 465 | 50 | 42 | 3.0/250V | |
| | | | 60 | 0.28 | 31 | 1600 | 322 545 | 50 | 46 | | |

FJ2E-250.FG.V



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>+10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|----------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|
| FJ2S-250.FGV/A | M2S09202-AF | 115 | 50 | 1.10 | 110 | 2500 | 1080 1830 | 150 | 69 | ① | 8.0/250V |
| | | | 60 | 1.20 | 136 | 2650 | 1151 1950 | 150 | 70 | | |
| FJ2E-250.FGV/A | M2E09202-AF | 230 | 50 | 0.48 | 105 | 2550 | 1100 1867 | 150 | 69 | ② | 3.0/450V |
| | | | 60 | 0.62 | 140 | 2800 | 1215 2060 | 160 | 71 | | |
| FJ2D-250.FGV/A | M2D09202-AF | 380 | 50 | 0.29 | 115 | 2550 | 1100 1867 | 150 | 69 | ③ | 1.0/630V |
| | | | 60 | 0.39 | 150 | 2800 | 1215 2060 | 160 | 71 | | |
| FJ4E-250.FGV/A | M4E09202-AF | 230 | 50 | 0.24 | 53 | 1400 | 596 1010 | 80 | 54 | ③ | 1.5/450V |
| | | | 60 | 0.25 | 57 | 1650 | 708 1200 | 100 | 58 | | |

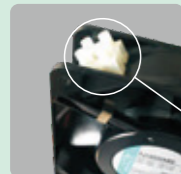
Total solution
总解决方案



Shield Pole Axial Flow Fan
罩极轴流风扇

AC series

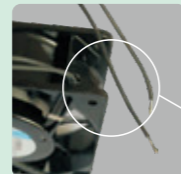
FJ8032AB
FJ9032AB
FJ12032AB



接线方式：端子
Connection mode
FJ12032ABD



接线方式：插片
Connection mode
FJ12032ABT



接线方式：引线
Connection mode
FJ12032AB

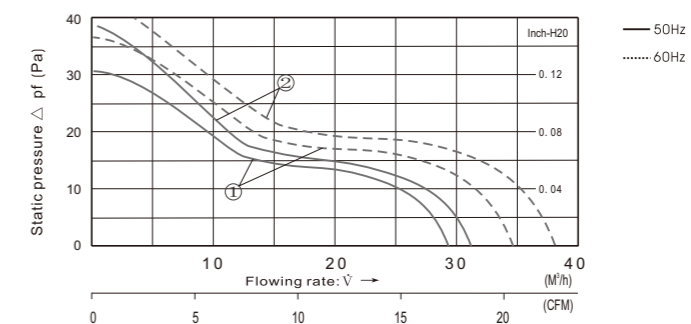
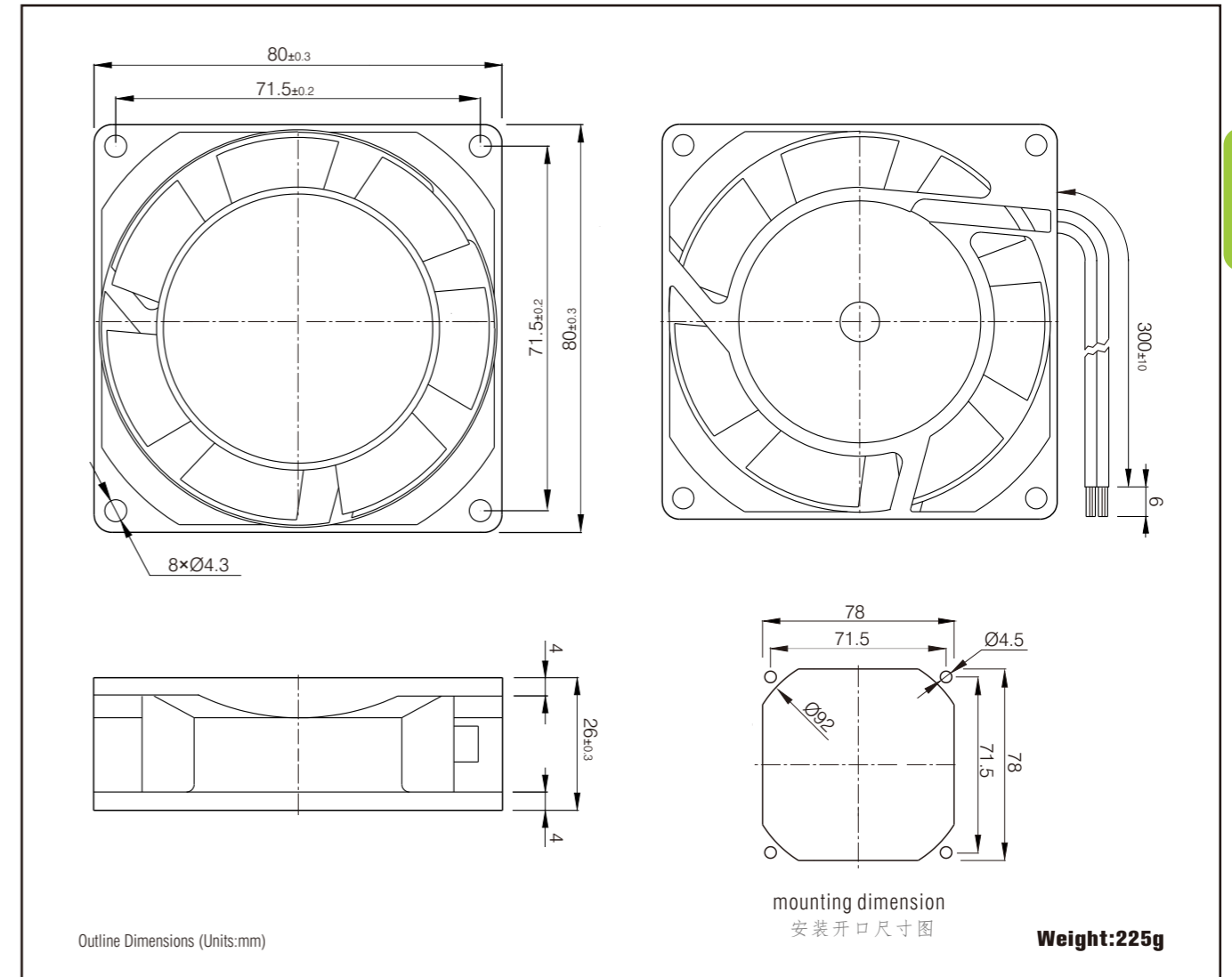
Core Highlights:

- 1 Motor Type: The shaded-pole motor features an extremely simple structure and the advantage of low failure rates.
- 2 Frame: Die-cast aluminum alloy, with a black electrophoretic coating on the surface for anti-corrosion protection.
- 3 Fan Blades: Made of PBT + 30% glass fiber + V0-grade flame retardant, formed via one-time injection molding. It maintains its shape for a long time without airflow attenuation.
- 4 Protection: Impedance protection prevents the coil from burning out. Insulation Withstand Voltage & Insulation System: The insulation system complies with IEC 61858 Class B.
- 5 Insulation Withstand Voltage: AC 1800V / 0.5mA / 1 minute, providing strong surge resistance and safety guarantee.

This shaded-pole axial fan does not pursue cutting-edge technology. Instead, it combines classic, mature technology with high-quality materials and strict process standards to create a product with outstanding reliability, safety, and durability.

Suitable Applications:

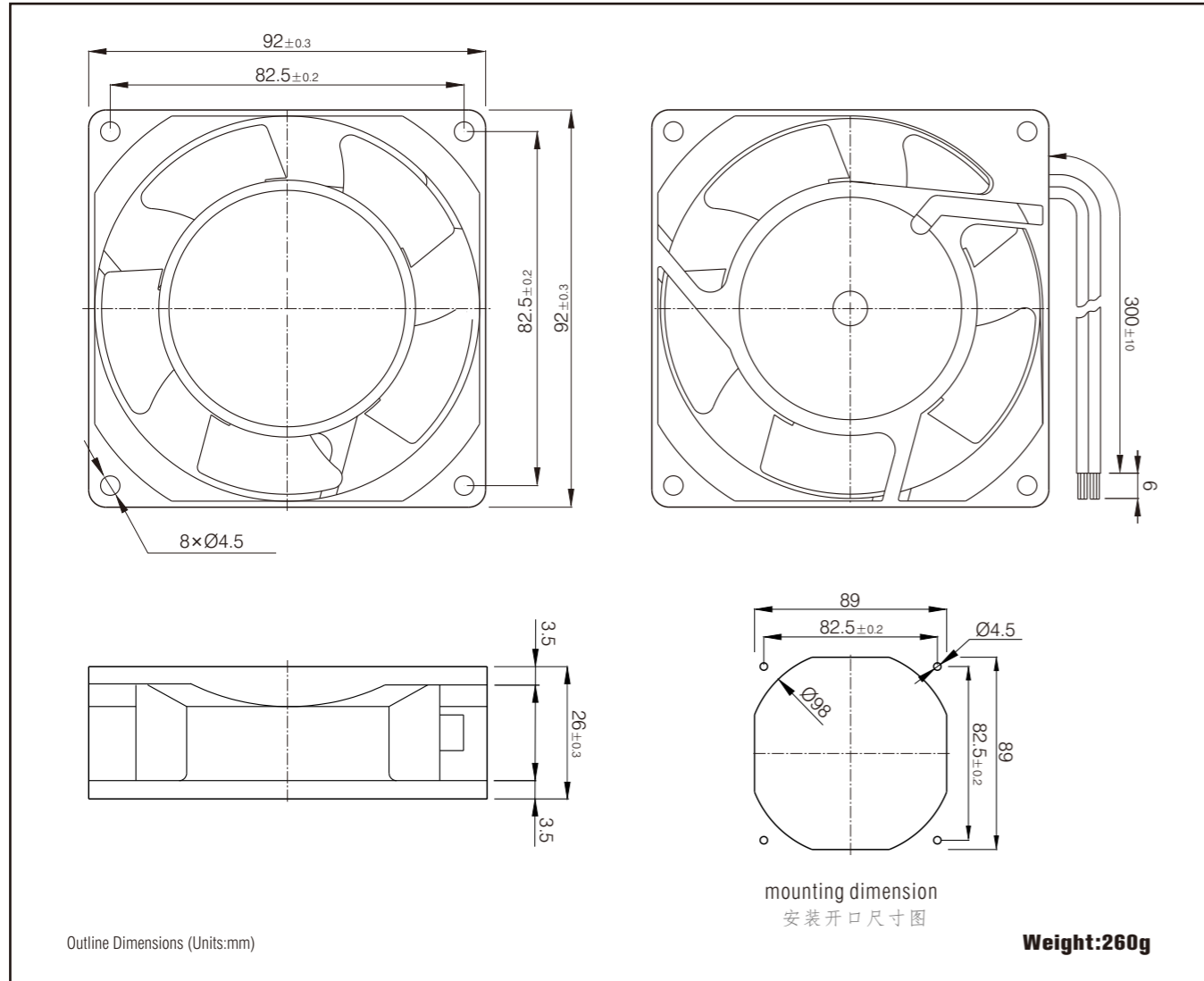
- 1 Communication base station equipment
- 2 Power cabinets, inverters, UPS power supplies
- 3 Industrial control enclosures, servo drives
- 4 Medical equipment
- 5 Other industrial and commercial scenarios requiring long-life and high-reliability heat dissipation



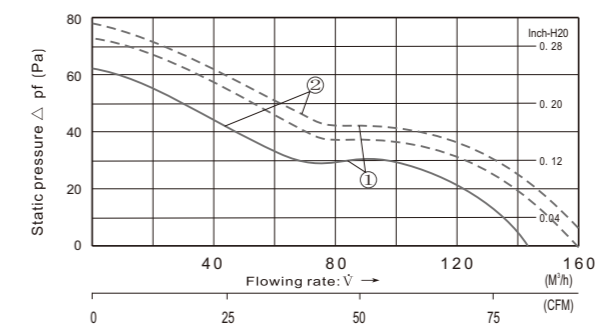
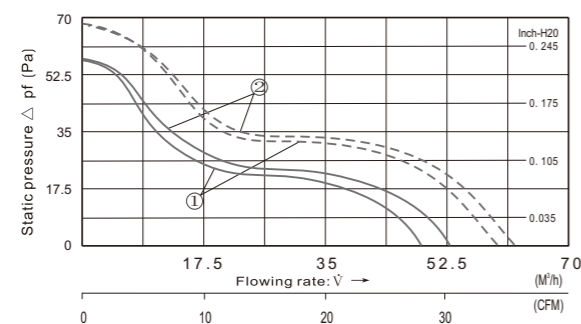
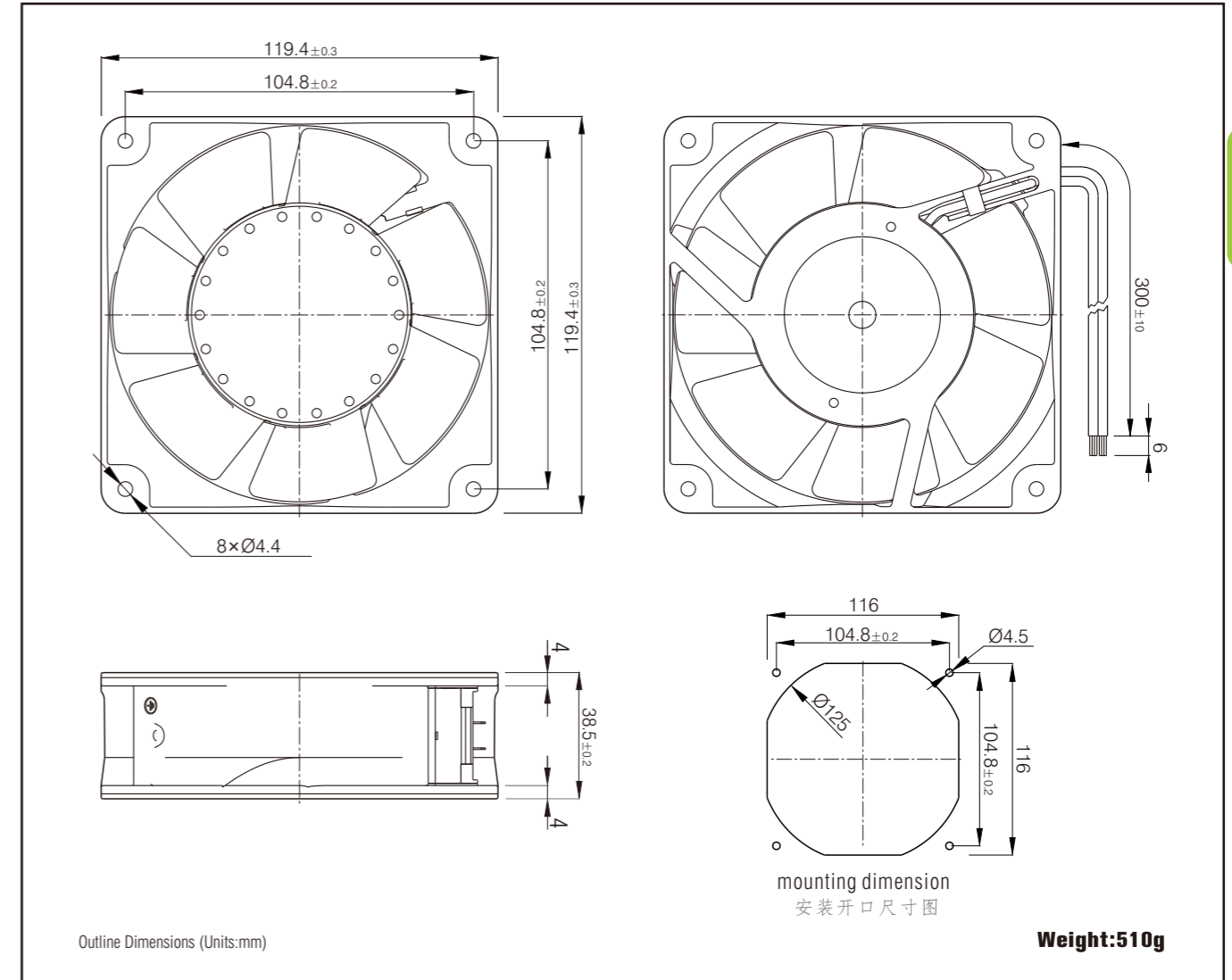
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) ±10% ±20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) | |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|-------------------------------|-------|
| FJ8021AS | M2S05601-AB | 115 | 50 | 0.12 | 10 | 2300 | 17 | 29 | 33 | 29 | ① | ----- |
| FJ8021AB | M2S05601-AB | | 60 | 0.10 | 9 | 2700 | 21 | 35 | 37 | 33 | ② | ----- |
| FJ8022AS | M2E05601-AB | 230 | 50 | 0.07 | 13 | 2300 | 17 | 29 | 33 | 29 | ① | ----- |
| FJ8022AB | M2E05601-AB | | 60 | 0.06 | 11 | 2700 | 21 | 35 | 37 | 33 | ② | ----- |

FJ9022AB



FJ12032AB



Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) $\pm 10\%$ -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| FJ9021AS | M2S05151-AB | 115 | 50 | 0.13 | 12 | 2250 | 29 49 | 57 | 32 | ① | ----- |
| FJ9021AB | M2S05151-AB | 115 | 60 | 0.12 | 11 | 2750 | 36 61 | 65 | 34 | ② | ----- |
| FJ9022AS | M2E05151-AB | 230 | 50 | 0.06 | 12 | 2250 | 29 49 | 57 | 32 | ① | ----- |
| FJ9022AB | M2E05151-AB | 230 | 60 | 0.07 | 11 | 2850 | 37 63 | 65 | 34 | ② | ----- |

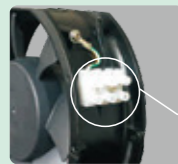
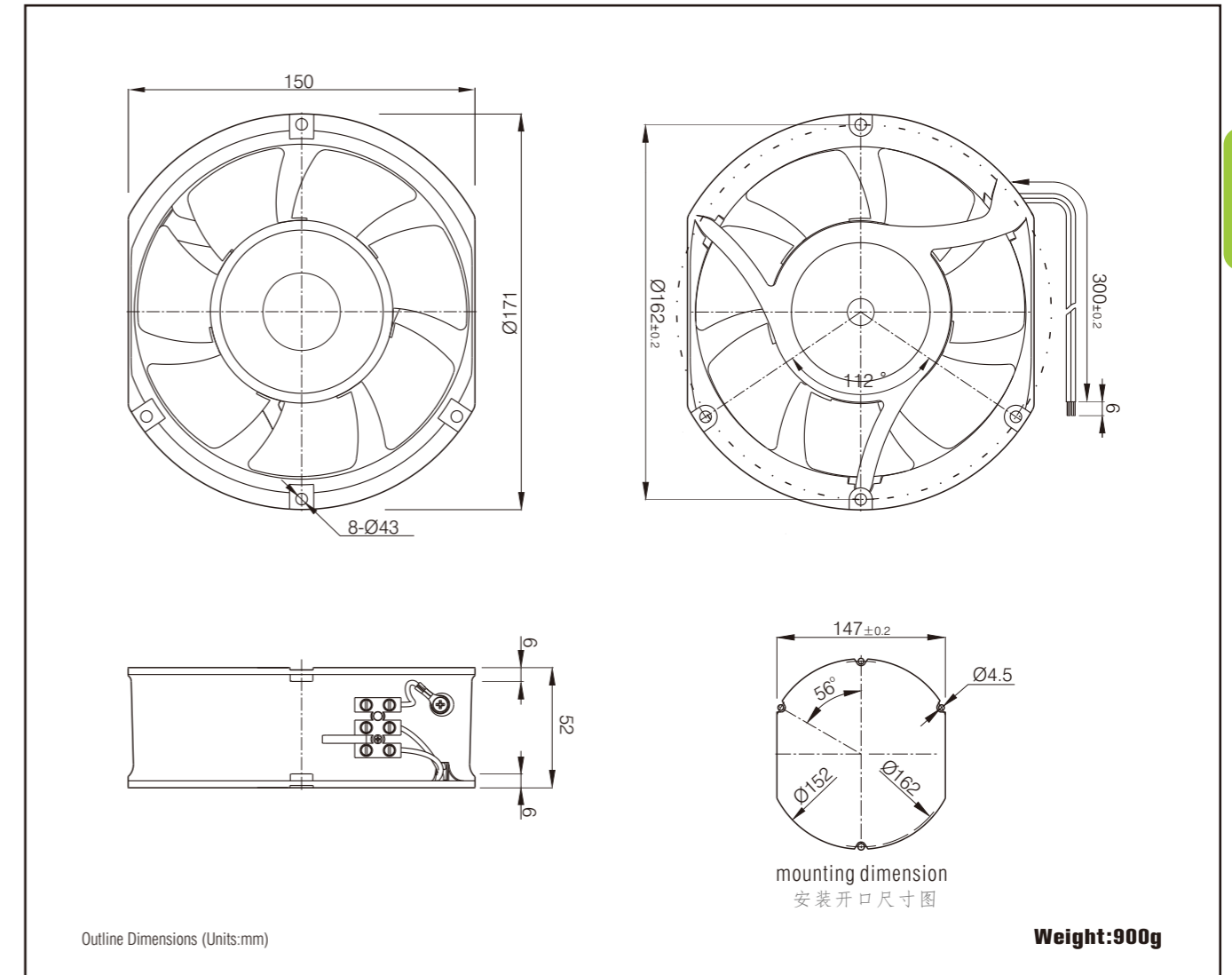
Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) $\pm 10\%$ -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Capacitor 电容 (μ F) |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|---|---------------------------------|---------------------|-------------|-------------------------------|
| FJ12031AS | M2S06301-AB | 115 | 50 | 0.24 | 18 | 2500 | 85 145 | 51 | 34 | ② | ----- |
| FJ12031AB | M2S06301-AB | 115 | 60 | 0.20 | 15 | 2800 | 100 170 | 63 | 37 | | ----- |
| FJ12032AS | M2E06301-AB | 230 | 50 | 0.12 | 19 | 2500 | 85 145 | 51 | 34 | ① | ----- |
| FJ12032AB | M2E06301-AB | 230 | 60 | 0.10 | 14 | 2700 | 95 160 | 63 | 37 | | ----- |
| FJ12033AB | M2D06301-AB | 380 | 50 | 0.07 | 18 | 2500 | 85 145 | 51 | 34 | ② | ----- |
| | | | 60 | 0.06 | 16 | 2800 | 100 170 | 63 | 37 | | ----- |

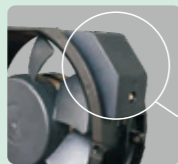
Shield Pole Axial Flow Fan
罩极轴流风扇

AC series

FJ15052AB
FJ17032AB



① 接线方式：端子
Connection mode
FJ15052ABD

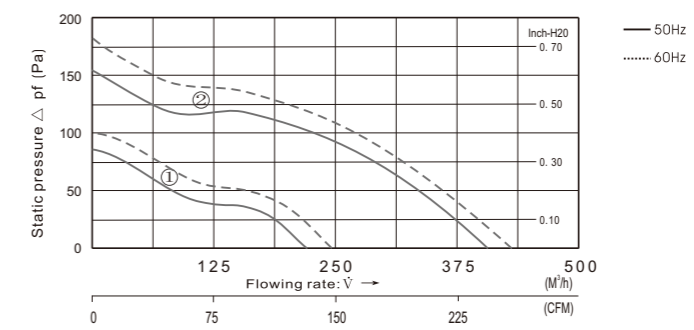


② 接线方式：插片
Connection mode
FJ15052ABT



③ 接线方式：引线
Connection mode
FJ15052AB

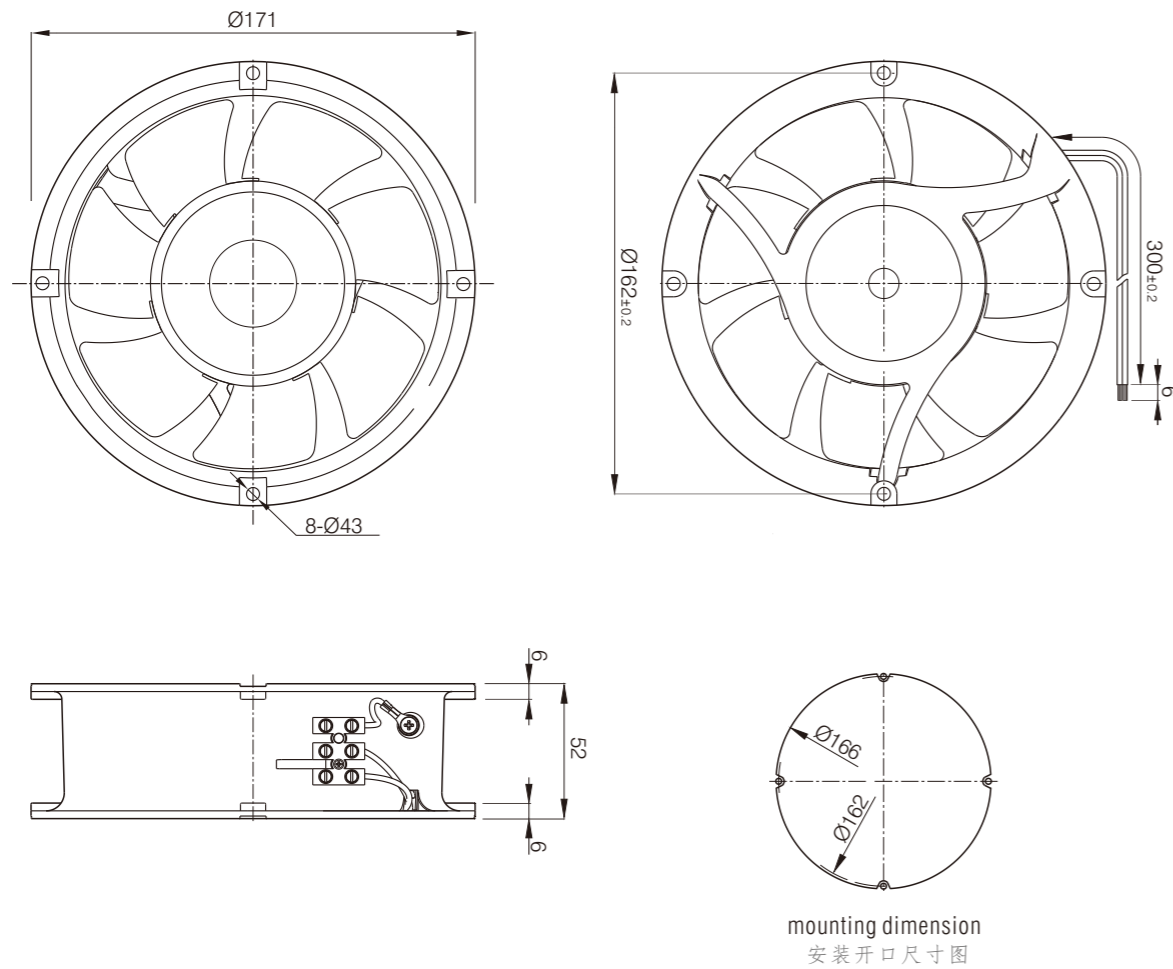
This fan, with its classic, reliable, and sturdy technical solution, achieves high air volume, high safety, and long lifespan within a compact structure, making it particularly suitable for harsh environments that require continuous and stable operation.



Parameters

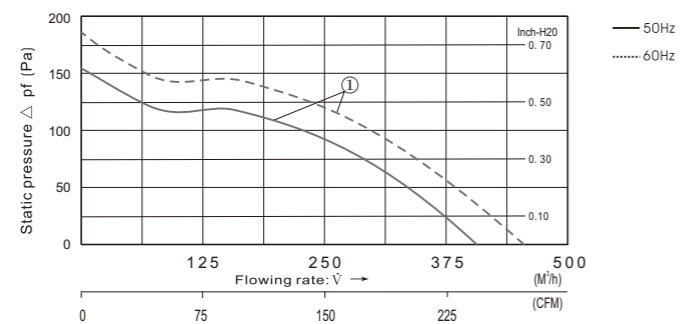
| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Remark 备注 |
|--------------|-------------|----------------------------|------------------------|----------------------|------------------------------------|---------------------------------------|--|---------------------------------|---------------------|-------------|--------------|
| FJ15051AB | M2S07402-AB | 115 | 50 | 0.54 | 40 | 2600 | 237 | 402 | 160 | 55 | ② 7 Blades |
| | | | 60 | 0.50 | 39 | 2600 | 246 | 417 | 180 | 57 | |
| FJ15052AB | M2E07402-AB | 230 | 50 | 0.27 | 39 | 2600 | 237 | 402 | 160 | 55 | |
| | | | 60 | 0.25 | 38 | 2600 | 246 | 417 | 180 | 57 | |
| FJ15053AB | M2D07402-AB | 380 | 50 | 0.19 | 40 | 2600 | 237 | 402 | 160 | 55 | |
| | | | 60 | 0.17 | 39 | 2600 | 246 | 417 | 180 | 57 | |

FJ17052AB



Outline Dimensions (Units:mm)

Weight:990g

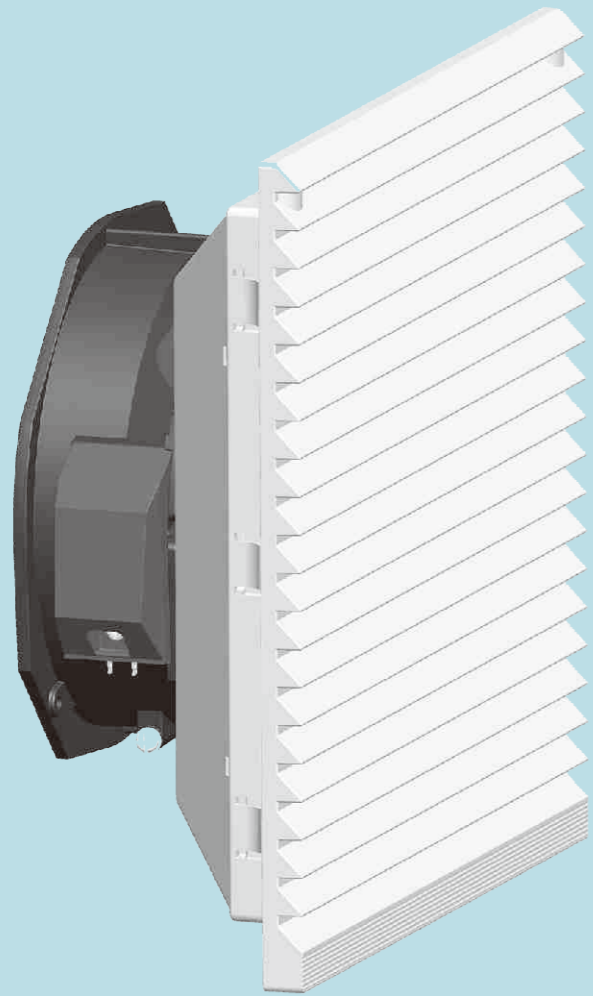


Parameters

| Type 产品型号 | Motor 电机 | Rated Voltage 额定电压 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) <small>±10% -20%</small> | Speed 回转速度 (min ⁻¹) | Max Air Flow 最大风量 CFM m ³ /h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | Remark 备注 |
|--------------|-------------|----------------------------|------------------------|----------------------|--|---------------------------------------|--|---------------------------------|---------------------|-------------|--------------|
| FJ17051ABH | M2S07402-AB | 115 | 50 | 0.54 | 40 | 2600 | 237 | 402 | 160 | ① | 7 Blades |
| | | | 60 | 0.50 | 39 | 2600 | 271 | 460 | 180 | | |
| FJ17052ABH | M2E07402-AB | 230 | 50 | 0.27 | 39 | 2600 | 237 | 402 | 160 | | |
| | | | 60 | 0.25 | 38 | 2550 | 271 | 460 | 180 | | |

Total solution
总解决方案





In harsh, dust-laden environments, ordinary heat dissipation solutions often fall short. The NIETZ Pro Series is your professional choice—it is not just a cooler, but a "gas mask" for your cabinets. Its high-performance filter effectively captures dust particles as fine as micrometers, keeping the interior of the cabinet as clean as new. Equipment maintenance has never been so intelligent and hassle-free.

- 1 Airflow Range: Multiple models available with airflow ranging from 10 CFM to 600 CFM.
- 2 Filtration Class: Standard medium-efficiency dust filter (e.g., G4 class), which effectively blocks large dust particles and lint. High-efficiency particulate air (HEPA) filters (e.g., F7/F8 class) are optional, offering extremely high interception rates for fine dust.
- 3 Wide Environmental Adaptability: Operating temperature range: -10°C~+70°C (no condensation); operating humidity range: 10%~95% (no condensation). The broad temperature and humidity ranges allow it to adapt to most harsh industrial environments, ensuring stable performance.
- 4 Flexible Customizable Appearance: The standard color is RAL7035 (light gray), a common color for industrial cabinets. It can be customized to other colors such as RAL7032 (eggshell gray) according to customer needs, easily matching the overall appearance of different equipment.
- 5 Control Method: Continuous operation or optional simple temperature control switch ($\pm 5^{\circ}\text{C}$ accuracy).
- 6 Installation Method: Side-mounted or top-mounted, easy to install, and compatible with multiple opening sizes.
- 7 Cost-Effective: Solves basic overheating problems at a more favorable cost.
- 8 Easy Maintenance: The filter adopts a quick-release design, allowing for easy replacement in no time.

When facing the most common heat dissipation challenges, there is no need for over-configuration. The NIETZ Series Fan Filter offers a reliable solution with excellent cost performance. Like a "breathing window" for the cabinet, it continuously draws in clean, cool air, effectively expels heat generated by electronic components, and prevents unexpected shutdowns caused by overheating.

机柜空气过滤通风系统安装方案

Installation plan for cabinet air filtration and ventilation system



Natural Convection Ventilation System

- Working Principle: Utilizes the "stack effect" of hot air rising naturally to form air flow. Cold air enters from the bottom, and hot air is discharged from the top.
- System Composition: Usually consists of a bottom exhaust filter and a top exhaust filter.
- Advantages: Simple structure, no additional energy consumption, no moving parts, low maintenance cost, and no noise.
- Disadvantages: Fully dependent on natural convection, resulting in limited heat dissipation capacity.



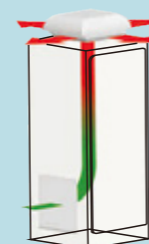
Positive Pressure Forced Convection Ventilation System

- Working Principle: Uses a fan to actively generate forced air flow and create a slight positive pressure inside the cabinet, preventing unfiltered air from entering through gaps.
- System Composition: Air Inlet (Bottom): A fan filter unit is installed to actively draw in external cold air, filter it, and press it into the cabinet. Air Outlet (Top): An exhaust filter is installed, and hot air is naturally pushed out under the action of positive pressure.
- Advantages: High cooling efficiency and large ventilation volume. The positive pressure inside the cabinet can effectively prevent dust from entering through gaps and holes, protecting internal equipment from contamination.



Reverse Forced Convection Ventilation System

- Working Principle: The direction of air flow is opposite to that of standard forced convection; fans are used for active air extraction.
- System Composition: Air Inlet (Top): An exhaust filter is installed, and air is naturally drawn in through the filter. Air Outlet (Bottom): A fan filter unit is installed to actively extract hot air from the cabinet and discharge it to the outside.
- Control Method: Can be connected to a thermostat, which automatically starts the fan when it detects that the temperature inside the cabinet exceeds the set value, achieving energy conservation and on-demand cooling.



Special Installation Scenarios

- When both sides of the cabinet are blocked by obstacles (such as walls or other cabinets) and cannot effectively discharge hot air, a top-mounted fan filter unit is installed on the top, and an exhaust filter is installed at the bottom of the cabinet.
- Working Principle: The top fan unit (for air extraction) creates low pressure inside the cabinet. External cold air is drawn in from the bottom exhaust filter, flows through the equipment to take away heat, and is finally discharged by the fan from the top.
- Advantages: Solves the heat dissipation problem when space on both sides is limited and enhances internal air circulation.



Auxiliary Circulation Solution

- Function: An auxiliary device used to improve air circulation inside the cabinet.
- Working Principle: Agitates the air inside the closed or semi-closed cabinet to make the air flow evenly.
- Core Role: Eliminates local hot spots – blows away the hot air gathered around heat-generating components (such as CPUs and drive modules), mixes it with the surrounding air, and avoids excessive local temperatures.

Air Filter Ventilation System Overview

空气过滤通风系统概述



Efficient Exhaust and Optimized Airflow Design

The fan filter achieves a significant improvement in exhaust efficiency through aerodynamic optimization of its air vent grille, ensuring heat is discharged quickly and smoothly.

Core Optimization

The key lies in the maximized optimization of the air vent grille. The shape, area, and angle of its openings are precisely calculated to minimize airflow resistance as much as possible. This design also guides the airflow to form a more concentrated and smoother flow field, thereby greatly optimizing the efficiency of air circulation inside the cabinet.

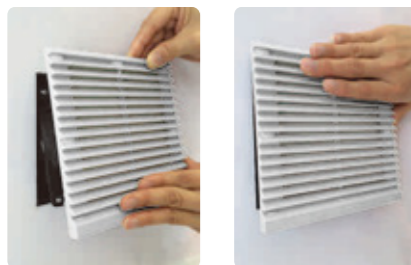


Optimized Aerodynamics and Minimized Pressure Loss

Precise Fan Installation Distance: Through research and testing, the relative installation distance between the fan, filter pad, and air vent grille has been optimized. This improvement reduces turbulence and resistance generated during airflow intake and discharge, providing a smooth channel for airflow.

Perfect and Reliable Air Chamber Design: The structure of the internal air duct is carefully designed to form an efficient and sealed "air chamber". This design can effectively guide airflow, avoid eddy currents or dead zones inside the cabinet, ensure the integrity of aerodynamics, and allow air to pass through the entire system with minimal energy loss.

Test-Verified Performance Improvement: All the above improvements have been verified through strict Computational Fluid Dynamics (CFD) simulations and actual tests. Test data shows that this design achieves better aerodynamic characteristics and significantly reduces the wind pressure loss of the entire ventilation system.



Tool-Free Quick Installation

One-Click Snap-In Installation: The product adopts an innovative snap-in mounting design. Installers do not need any tools—they only need to align the filter with the opening on the cabinet and push it gently to lock it firmly in place.

Screw Reinforcement: To meet the needs of high-vibration environments or applications with higher requirements for installation strength, the product retains traditional screw mounting holes. Users can use screws for auxiliary fixation, providing double protection for equipment operation and enhancing the flexibility and reliability of the application.



Easy Maintenance and Replacement During Operation

Tool-Free One-Click Disassembly: Typically, the cover plate on the front or side of the equipment adopts a snap-fit or quick-twist design. Maintenance personnel do not need any tools—they only need to perform a simple operation (such as pressing the snap or rotating the handle) to easily open the maintenance cover and directly access the filter pad.

1. Safely remove the old filter pad. At this time, the fan is still running and continues to ventilate the equipment (however, there is no filtering effect during this period, so the operation should be quick).
2. Snap the new filter pad into place.
3. Close the maintenance cover to restore the complete filtering function.



Heat-Resistant Sealing and Long-Lasting Protection

Long-Lasting Sealing: The heat-resistant polyurethane gasket ensures that the sealing performance does not degrade even under temperature cycles from -10°C to $+70^{\circ}\text{C}$, maintaining the durable and effective IP55 high protection rating.

Comprehensive Protection: The robust sealing barrier effectively resists the intrusion of dust and moisture, providing the highest level of protection for sensitive electrical equipment inside the cabinet.



Environmentally Friendly and Compliant Design

Application of Recyclable Materials: Product structural components (such as outer frames and cover plates) widely use recyclable plastics, reducing resource consumption at the source. The non-woven fiber filter pad is designed to be cleanable and reusable, which significantly reduces the replacement frequency of consumables and the generation of waste, lowering the environmental footprint throughout the entire life cycle.

Compliance with Environmental Directives: The core fan motor of the product is strictly designed and manufactured in accordance with the RoHS directive, ensuring it does not contain hazardous substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs). This guarantees the safety of the product to human health and the environment during both use and final disposal stages.

Ventilation Systems Fan Filter series 风扇过滤器 series



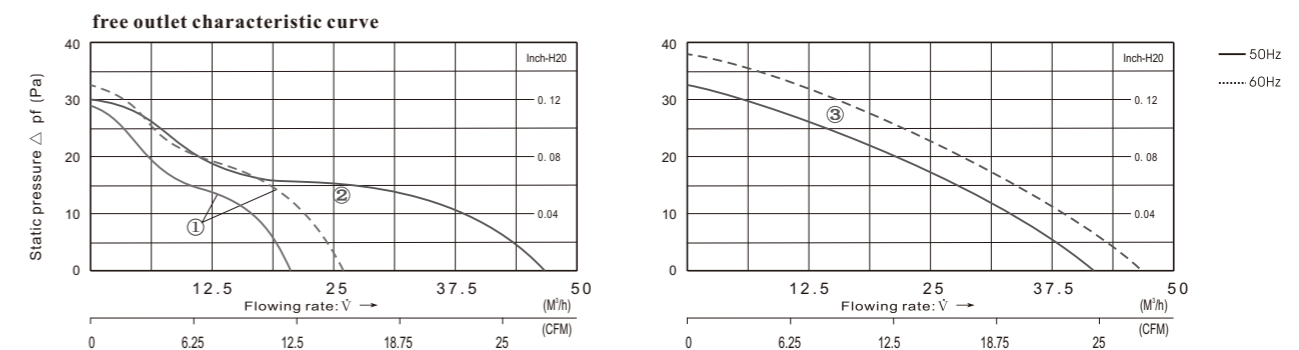
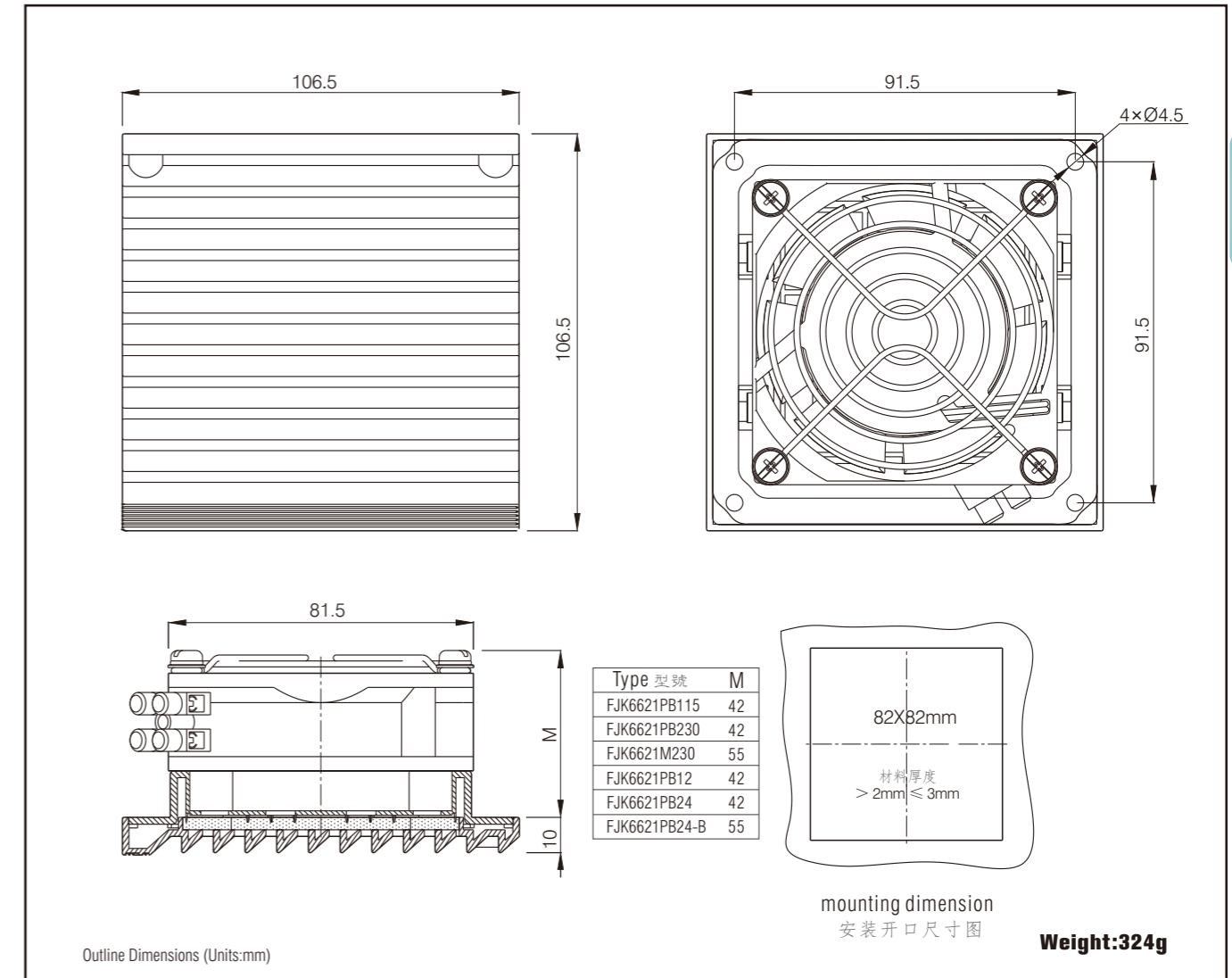
Core Highlights:

- Integrated Design:** The system integrates an air vent grille, non-woven fiber filter pad, and high-efficiency axial fan into one unit. It features a compact structure, easy installation, and provides complete ventilation and filtration functions.
- High-Safety Materials and Frame:** The equipment frame is made of heat-resistant and flame-retardant ABS plastic, with a fire resistance rating meeting the UL-94 V0 standard. It can effectively prevent flame spread, greatly improving the safety performance of the entire cabinet equipment.
- Efficient Ventilation and Filtration Performance:** High-efficiency axial fan: Ensures high-speed air flow, provides optimal air current, and effectively dissipates heat inside the cabinet.
- High-performance filter pad:** Made of non-woven fiber material, it has excellent interception capability for dust and other particles, with a filtration efficiency of over 70%, effectively protecting precision components inside the cabinet.
- High Protection Rating (IP55):** By adding a sealing ring, the entire equipment achieves an IP55 protection rating. This means it can completely prevent dust intrusion and resist low-pressure water jets from all directions, ensuring stable operation in harsh industrial environments.
- High Installation Flexibility and Versatility:** According to on-site ventilation needs (such as positive pressure air supply or negative pressure air extraction), users can easily switch between air suction or air blowing modes by simply reversing the fan installation. This design greatly enhances the equipment's applicability, reducing spare parts inventory and installation complexity.
- Convenient Maintenance:** In regular environments, the equipment requires almost no maintenance. In highly polluted environments, the core non-woven fiber filter pad can be cleaned for reuse.
- Cleaning Method:** After removing the filter pad, clean it by blowing with compressed air from the inside out, or rinsing with clean water (water temperature not exceeding 40°C). Once dried, it can be reinstalled.

With core advantages such as flame retardancy, efficient ventilation and filtration, high protection rating, flexible installation, and convenient maintenance, the Fan Filter has become a cost-effective, reliable, and adaptable cabinet thermal management solution.

Application Scope:

High-end equipment manufacturers, data centers, smart grids, temperature-sensitive critical control cabinets, communication base stations, intelligent production lines, woodworking machinery, food processing, ceramic production, textile factories, metal processing, general factory workshops, automated production lines, distribution boxes, and other industrial environments with low dust levels.

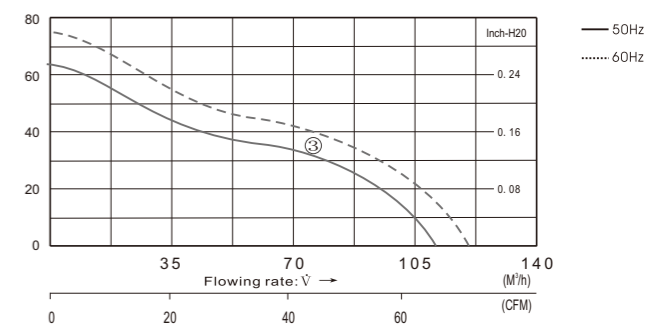
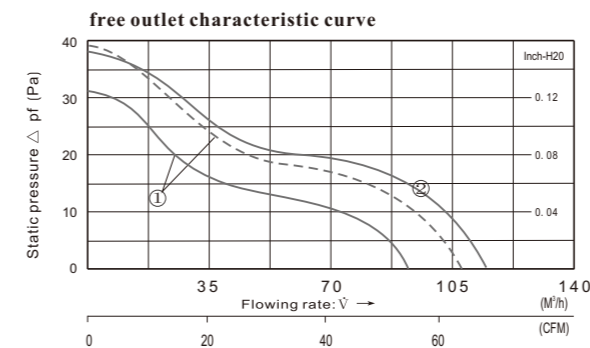
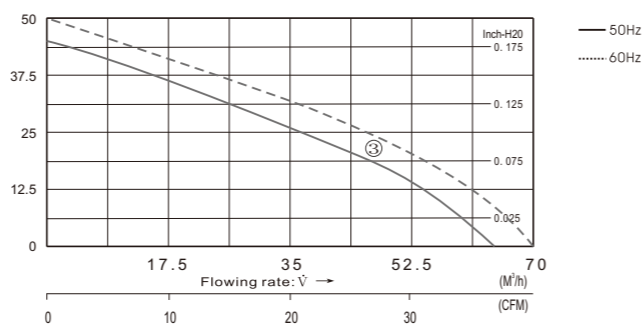
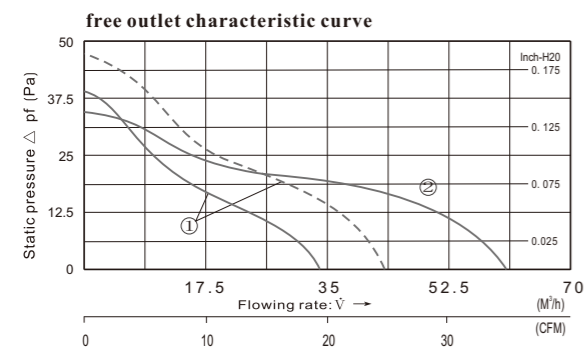
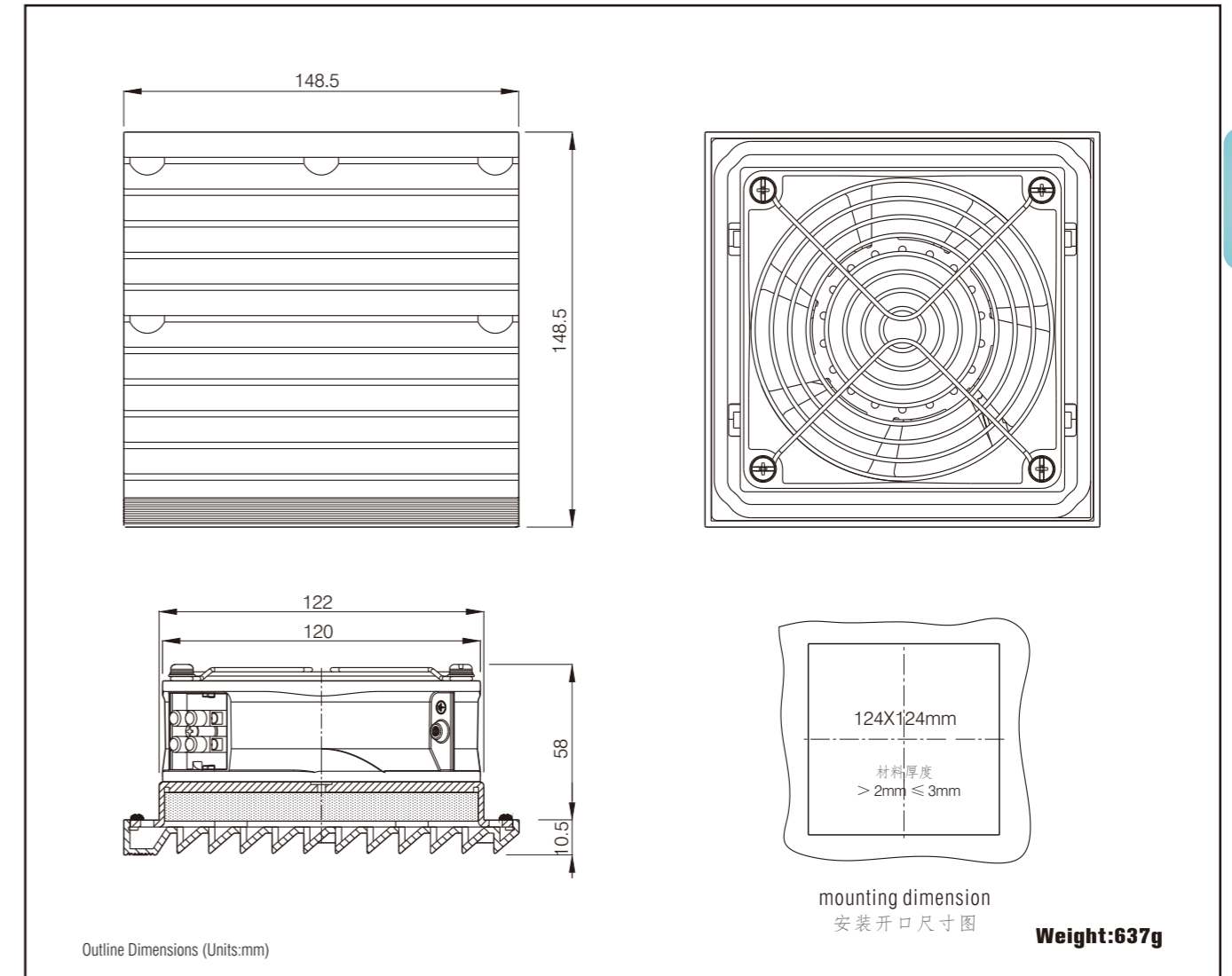
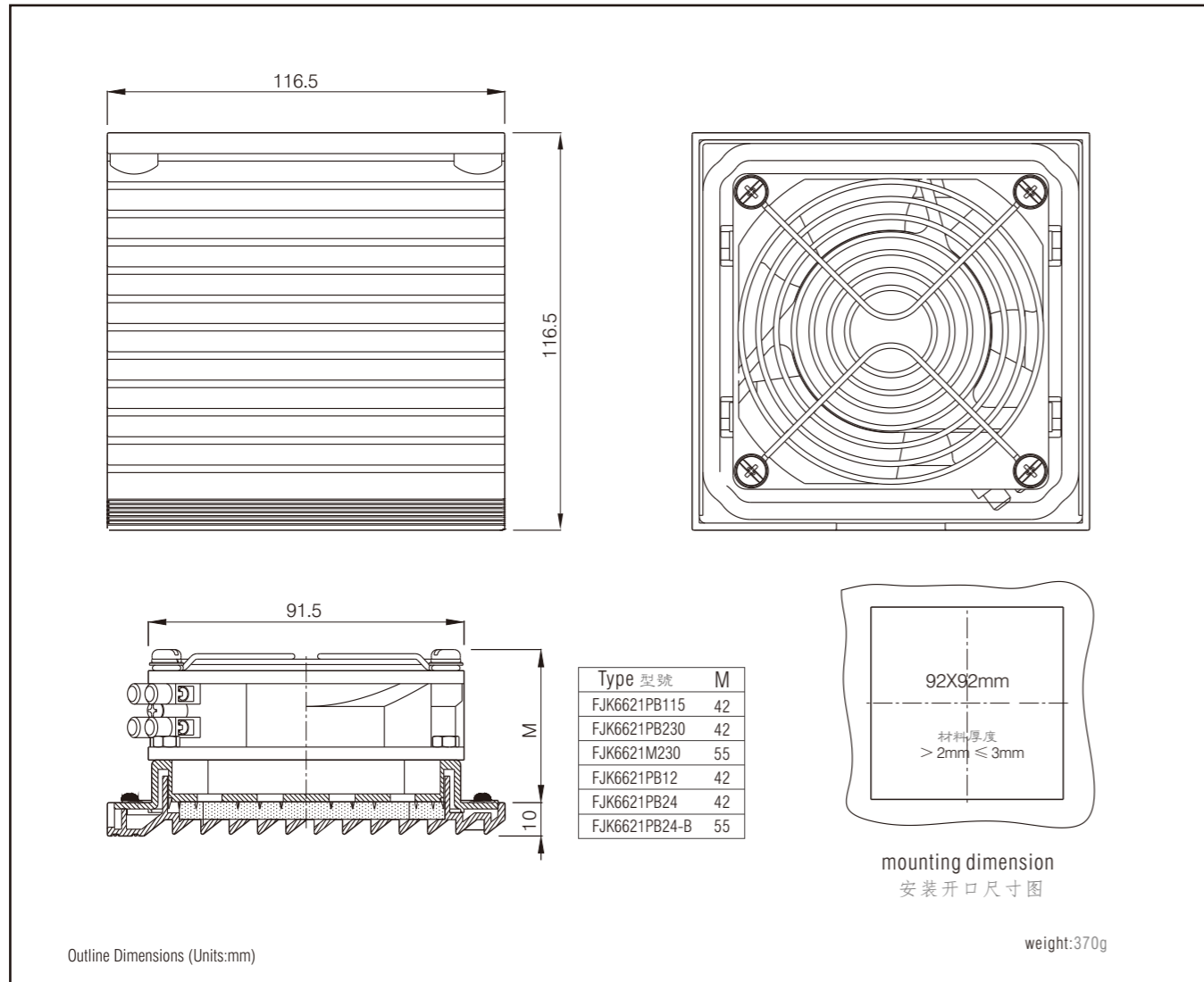


Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -30% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6620PB115 | FJ8021AB | 115 AC | 75...125 | 50 | 0.13 | 13 | 22 | 29 | 28 | ① | 106.5x106.5x52 |
| FJK6620PB230 | FJ8022AB | 230 AC | 150...250 | 60 | 0.15 | 15 | 26 | 33 | 30 | | |
| FJK6620M230 | FJ8032MAB | 230 AC | 150...250 | 50 | 0.07 | 13 | 22 | 29 | 28 | ③ | |
| FJK6620PB12 | FJ8025PB12 | 12 DC | 7...14 | 60 | 0.06 | 11 | 26 | 33 | 30 | | |
| FJK6620PB24 | FJ8025PB24 | 24 DC | 12...28 | 50 | 0.09 | 12 | 40 | 33 | 32 | ② | |
| | | | | 60 | 0.07 | 10 | 46 | 38 | 32 | | |

FJK6621PB

FJK6622PB



Parameters

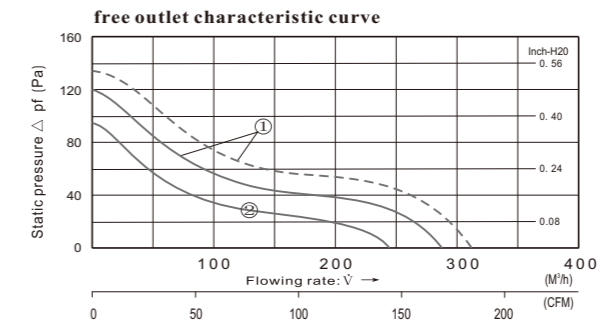
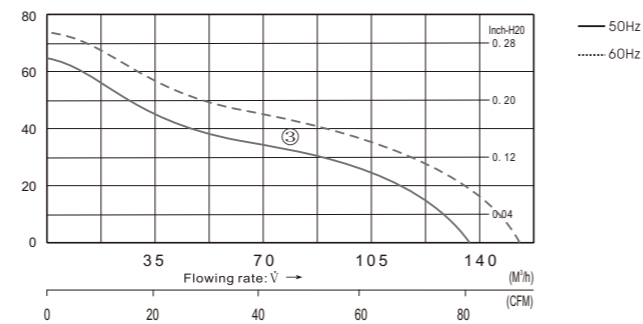
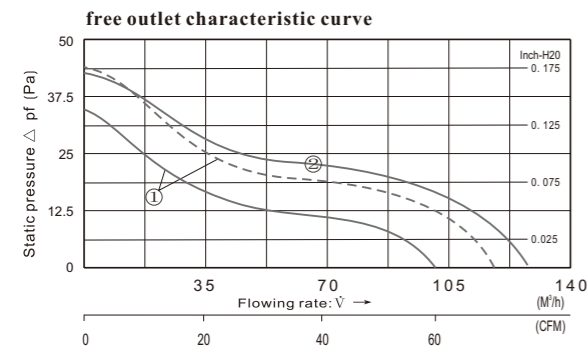
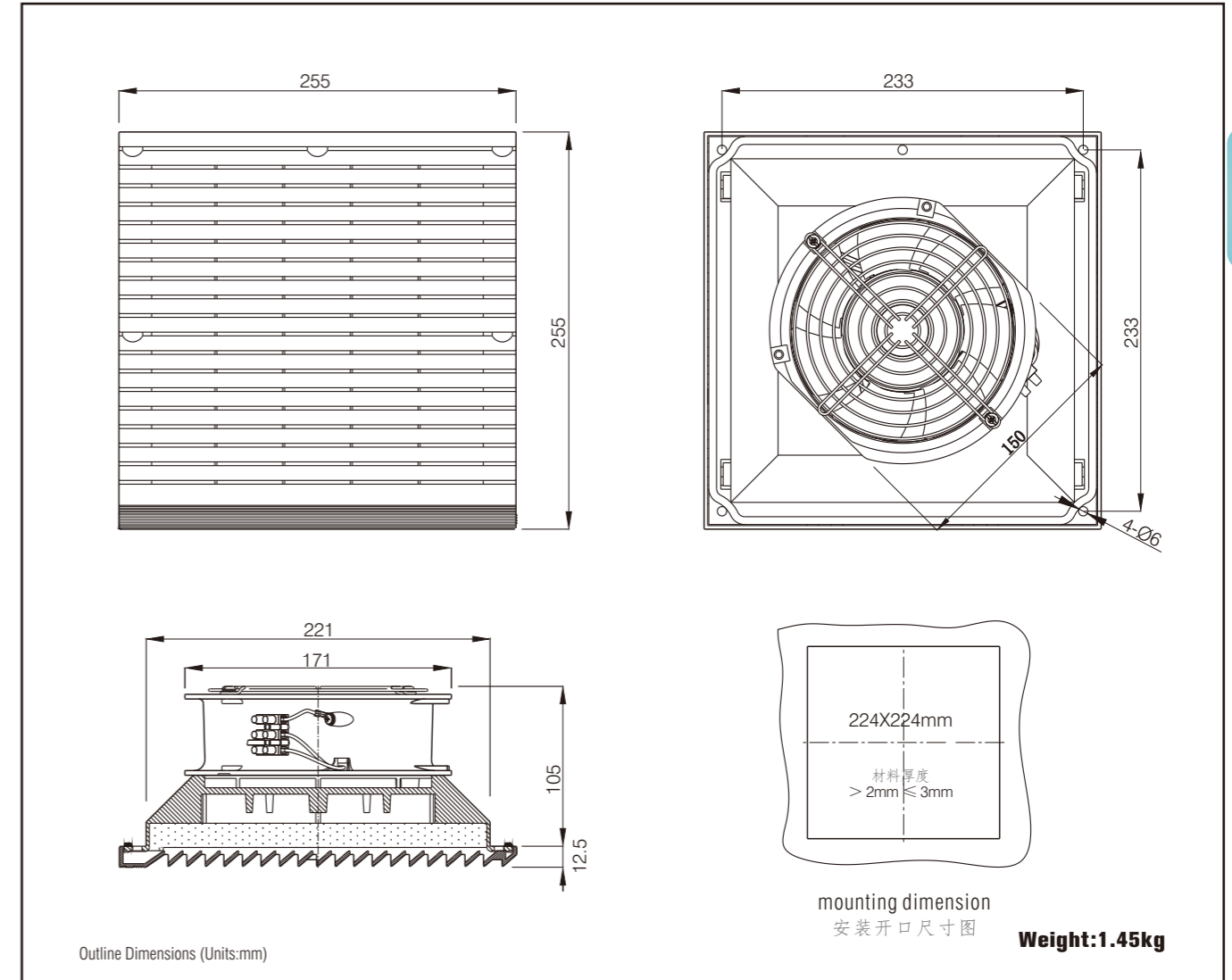
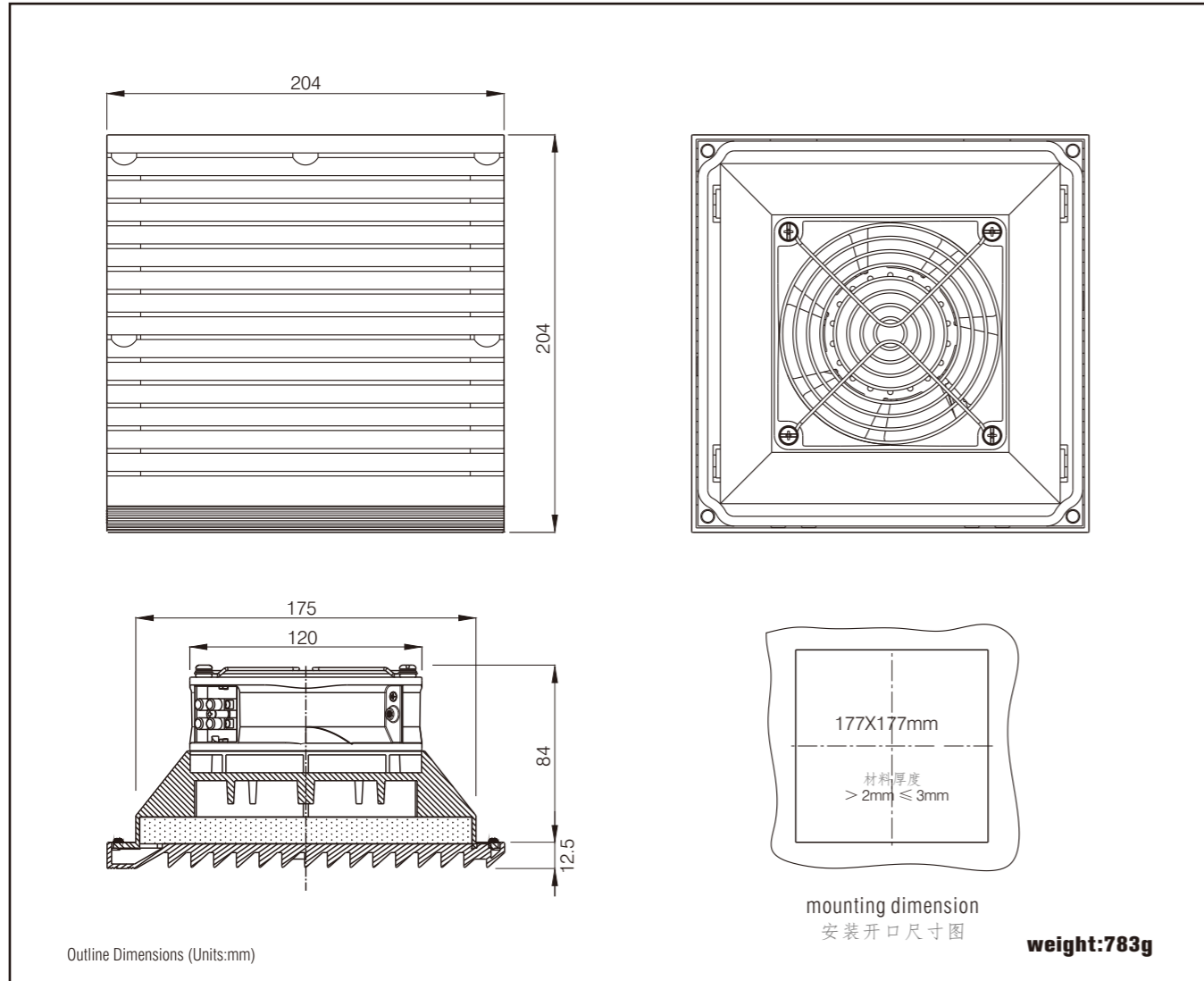
| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6621PB115 | FJ9021AB | 115 AC | 75...125 | 50 | 0.13 | 12 | 34 | 39 | 32 | ① | 116.5x116.5x52 |
| | | | | 60 | 0.12 | 11 | 42 | 45 | 34 | | |
| FJK6621PB230 | FJ9022AB | 230 AC | 150...250 | 50 | 0.06 | 12 | 34 | 39 | 32 | ③ | |
| | | | | 60 | 0.07 | 11 | 42 | 45 | 34 | | |
| FJK6621M230 | FJ9032MAB | 230AC | 110...250 | 50 | 0.08 | 13 | 65 | 45 | 36 | ② | |
| | | | | 60 | 0.07 | 11 | 70 | 50 | 36 | | |
| FJK6621PB12 | FJ9025PB12 | 12 DC | 6...13.8 | | 0.22 | 2.64 | 70 | 45 | 36 | | |
| FJK6621PB24 | FJ9025PB24 | 24 DC | 10...27.5 | | 0.12 | 2.88 | 70 | 45 | 36 | | |

Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6622PB115 | FJ12031AB | 115 AC | 75...125 | 50 | 0.24 | 18 | 92 | 32 | 32 | ① | 148.5x148.5x68.5 |
| | | | | 60 | 0.20 | 15 | 107 | 39 | 34 | | |
| FJK6622PB230 | FJ12032AB | 230 AC | 150...250 | 50 | 0.12 | 19 | 92 | 32 | 32 | ③ | |
| | | | | 60 | 0.10 | 14 | 107 | 39 | 34 | | |
| FJK6622M230 | FJ12038MAB | 230 AC | 110...250 | 50 | 0.12 | 18 | 115 | 65 | 36 | ② | |
| | | | | 60 | 0.10 | 16 | 132 | 75 | 37 | | |
| FJK6622PB12 | FJ12038PB12 | 12 DC | 6...13.8 | | 0.55 | 6.60 | 113 | 38 | 35 | | |
| FJK6622PB24 | FJ12038PB24 | 24 DC | 10...27.5 | | 0.31 | 7.44 | 113 | 38 | 35 | | |

FJK6623PB

FJK6625PB



Parameters

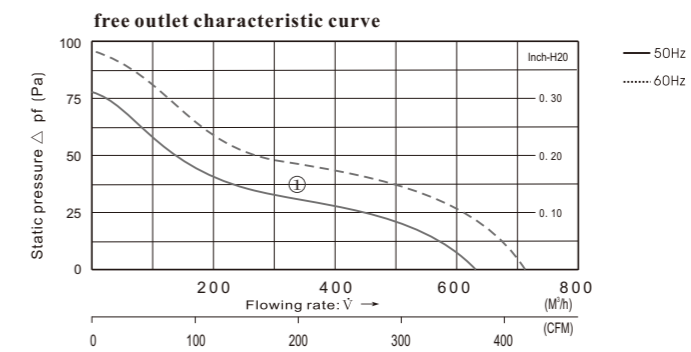
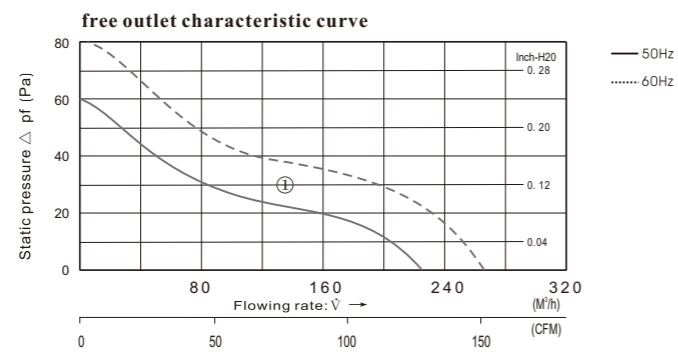
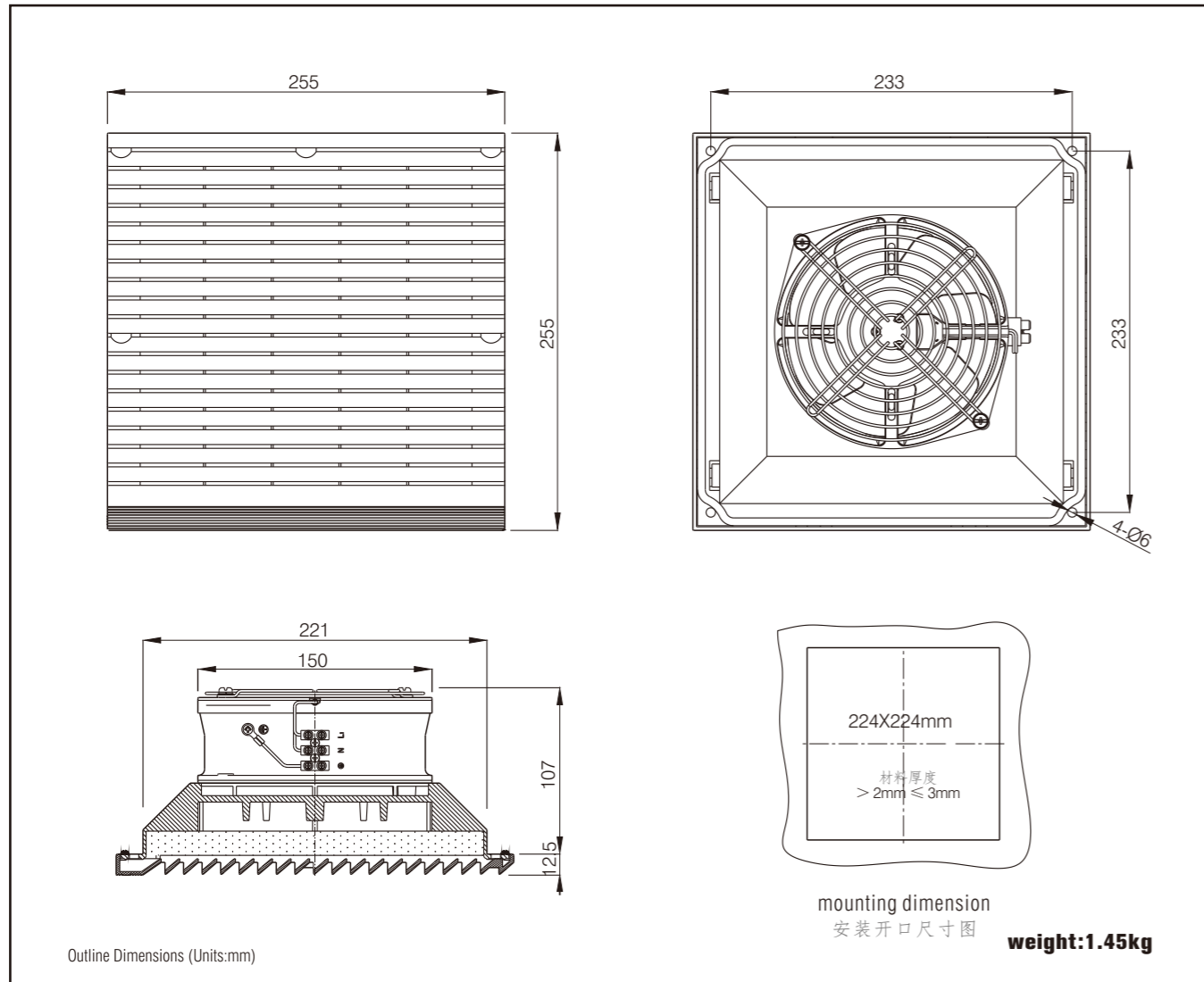
| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 速度 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -5% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|------------------|------------------------|----------------------|-----------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6623PB115 | FJ12031AB | 115 AC | 75...125 | 50 | 0.24 | 18 | 102 | 35 | 32 | ① | 204x204x105 |
| | | | | 60 | 0.20 | 15 | 119 | 44 | 35 | | |
| FJK6623PB230 | FJ12032AB | 230 AC | 150...250 | 50 | 0.12 | 19 | 102 | 35 | 32 | ③ | |
| | | | | 60 | 0.10 | 14 | 119 | 44 | 35 | | |
| FJK6623M230 | FJ12032MAB | 230 AC | 110...250 | 50 | 0.12 | 18 | 135 | 65 | 36 | ③ | |
| | | | | 60 | 0.10 | 16 | 150 | 75 | 38 | | |
| FJK6623PB12 | FJ12038PB12 | 12 DC | 6...13.8 | | 0.55 | 6.60 | 126 | 42 | 36 | ② | |
| FJK6623PB24 | FJ12038PB24 | 24 DC | 10...27.5 | | 0.31 | 7.44 | 126 | 42 | 36 | | |

Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 速度 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -5% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|------------------|------------------------|----------------------|-----------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6625PB115 | FJ15051AB | 115 AC | 75...125 | 50 | 0.48 | 41 | 280 | 120 | 48 | ① | 255x255x117 |
| | | | | 60 | 0.46 | 38 | 320 | 135 | 50 | | |
| FJK6625PB230 | FJ15052AB | 230 AC | 150...250 | 50 | 0.26 | 41 | 280 | 120 | 48 | ① | |
| | | | | 60 | 0.24 | 38 | 320 | 135 | 50 | | |
| FJK6625PB12 | FJ15050PB12 | 12 DC | 8...15 | | 1.05 | 12 | 245 | 95 | 48 | ② | |
| FJK6625PB24 | FJ15050PB24 | 24 DC | 12...28 | | 0.50 | 12 | 245 | 95 | 48 | | |
| FJK6625PB48 | FJ15050PB48 | 48 DC | 28...60 | | 0.24 | 11.5 | 245 | 95 | 48 | | |

FJK6625M

FJK6626M



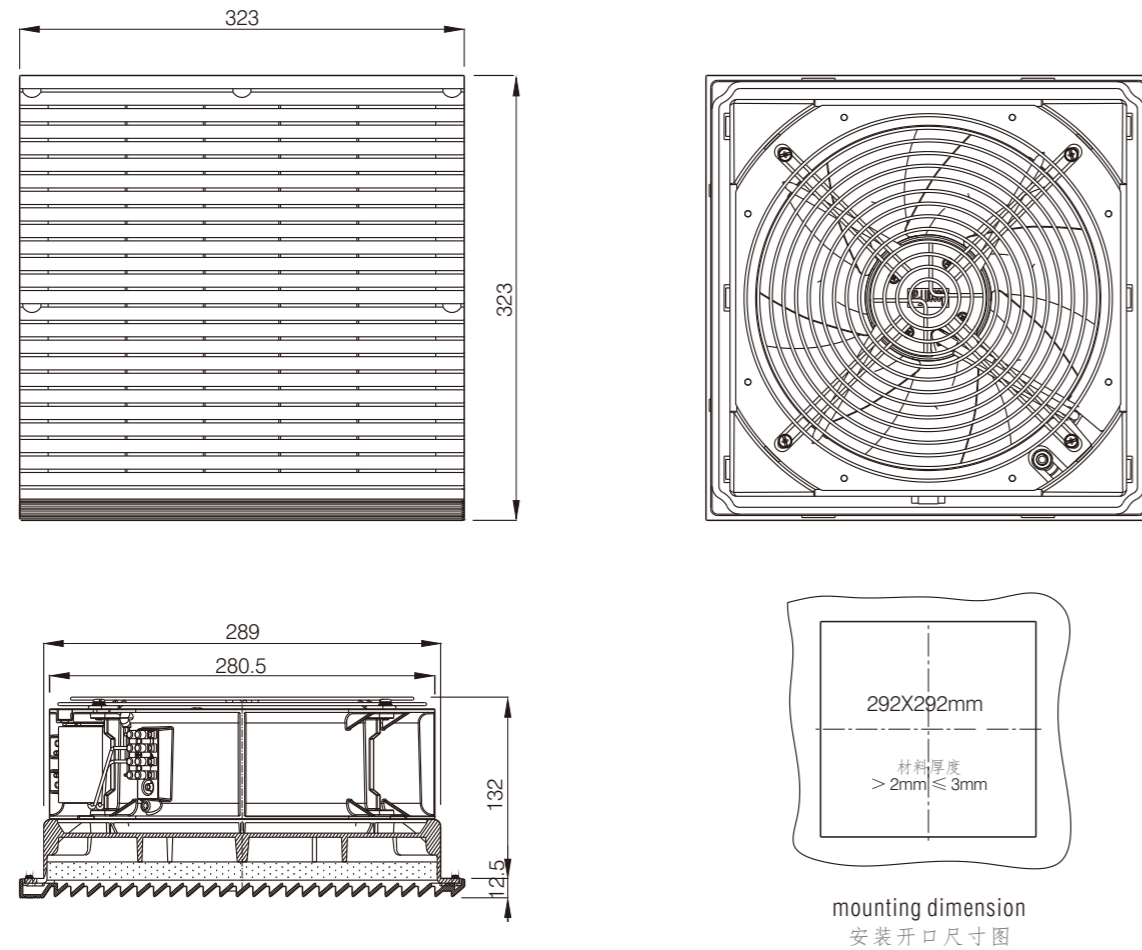
Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6625M115 | FJ16051MAB | 115 AC | 75...125 | 50 | 0.52 | 37 | 224 | 60 | 46 | ① | 255x255x121 |
| | | | | 60 | 0.43 | 34 | 266 | 85 | 50 | | |
| FJK6625M230 | FJ16052MAB | 230 AC | 150...250 | 50 | 0.25 | 37 | 224 | 60 | 46 | | |
| | | | | 60 | 0.20 | 33 | 266 | 85 | 50 | | |
| FJK6625M380 | FJ16053MAB | 380 AC | 220...415 | 50 | 0.15 | 39 | 224 | 60 | 46 | | |
| | | | | 60 | 0.12 | 34 | 266 | 85 | 50 | | |

Parameters

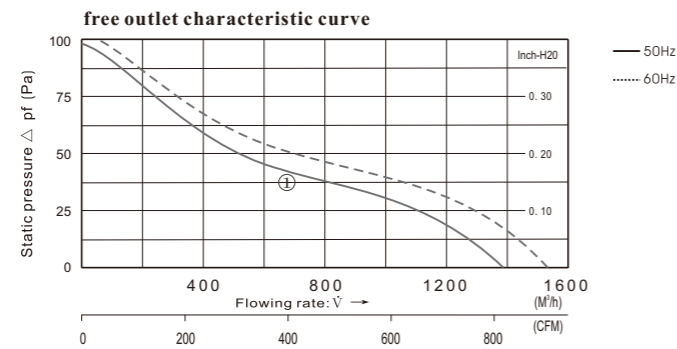
| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6626M115 | FJ22081MAB | 115 AC | 75...125 | 50 | 0.60 | 65 | 637 | 78 | 55 | ① | 324x322x145 |
| | | | | 60 | 0.64 | 75 | 707 | 90 | 57 | | |
| FJK6626M230 | FJ22082MAB | 230 AC | 150...250 | 50 | 0.30 | 65 | 637 | 78 | 55 | | |
| | | | | 60 | 0.34 | 77 | 707 | 90 | 57 | | |
| FJK6626M380 | FJ22083MAB | 380 AC | 220...415 | 50 | 0.18 | 64 | 637 | 78 | 55 | | |
| | | | | 60 | 0.20 | 78 | 707 | 90 | 57 | | |

FJK6626D.M



Outline Dimensions (Units:mm)

Weight:3.74kg



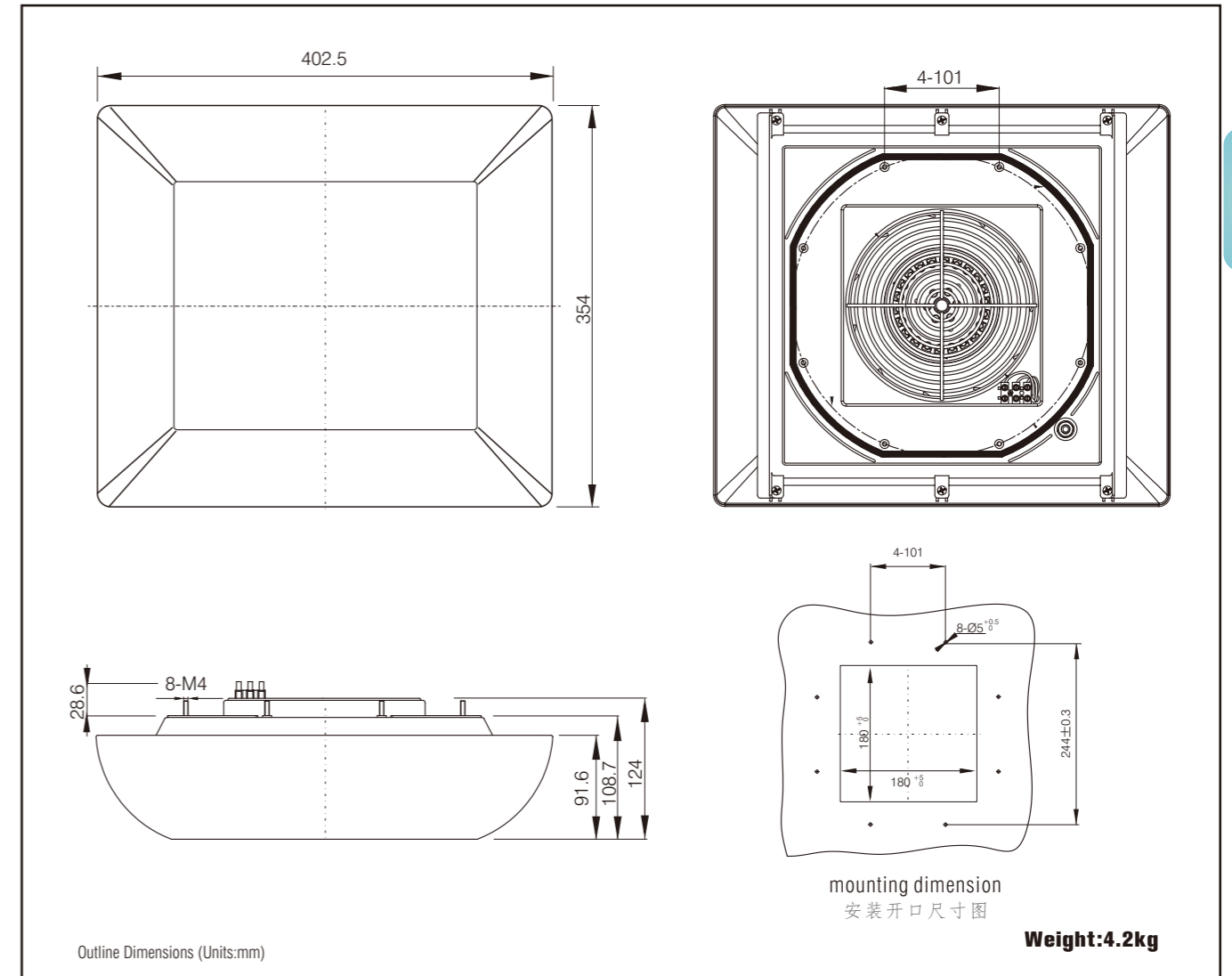
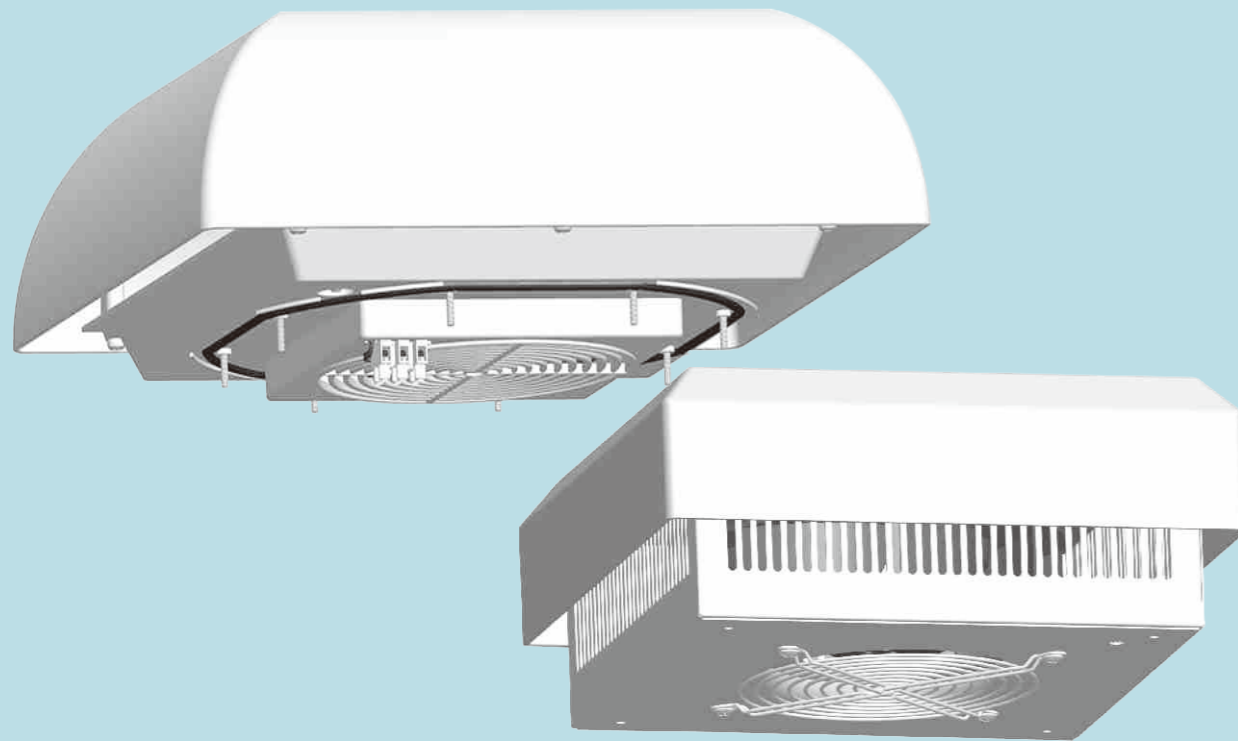
Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK6626DM115 | FJ28081MAB | 115 AC | 75...125 | 50 | 1.10 | 110 | 1395 | 95 | 63 | ① | 324x324x145 |
| | | | | 60 | 1.20 | 136 | 1530 | 105 | 65 | | |
| FJK6626DM230 | FJ28082MAB | 230 AC | 150...250 | 50 | 0.48 | 105 | 1395 | 95 | 63 | | |
| | | | | 60 | 0.62 | 140 | 1530 | 105 | 65 | | |
| FJK6626DM380 | FJ28083MAB | 380 AC | 220...415 | 50 | 0.29 | 115 | 1395 | 95 | 63 | | |
| | | | | 60 | 0.39 | 150 | 1530 | 105 | 65 | | |

Total solution
总解决方案

Top-Mounted Fan Filter series

顶装风扇过滤器

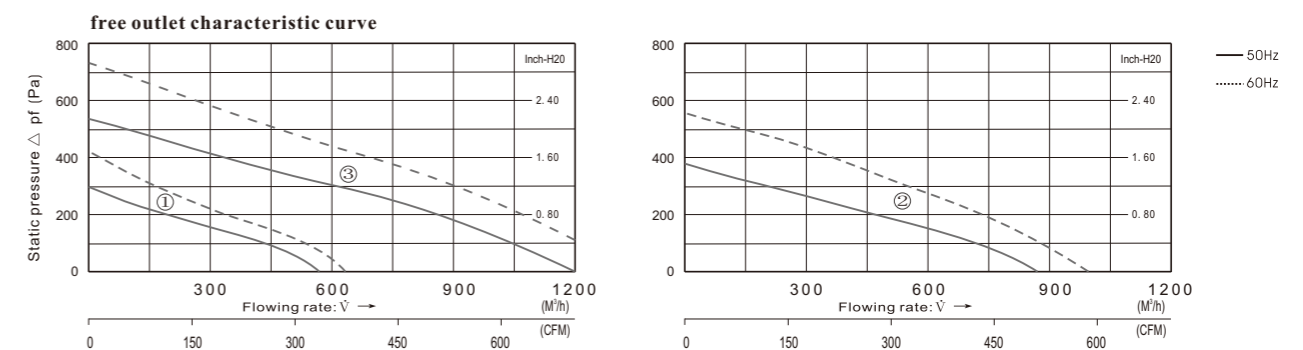


The FAN Top-Mounted Fan Filter is an optimized solution specifically designed for efficient heat exhaust from the top of electrical cabinets. It adopts centrifugal fan technology, making it particularly suitable for application scenarios that require forced exhaust of hot air from the top.

Core Highlights:

- Structural Composition:** Consists of three parts: a metal bracket, a built-in centrifugal fan, and an ABS plastic cover. The metal bracket ensures installation strength, while the ABS cover provides good insulation and corrosion resistance.
- Core Advantage:** The built-in centrifugal fan can generate high air pressure, effectively overcoming the air resistance caused by the filter. It is especially suitable for occasions that require forced air exhaust or have a certain back pressure in the system, with extremely high hot air exhaust efficiency.
- Excellent Electromagnetic Compatibility (EMC):** The equipment can work stably and normally in its surrounding electromagnetic environment, and will not cause electromagnetic interference to other systems and equipment in the same environment. This ensures the reliable operation of precision electrical control systems.
- Clear Protection Ratings:** In accordance with the EN 60529 standard, two protection ratings are available: IP33: Prevents the intrusion of solid foreign objects larger than 2.5mm and resists the intrusion of sprayed water droplets (at a 60° angle to the vertical direction). IP54: Fully dustproof and resistant to water sprayed from all directions.

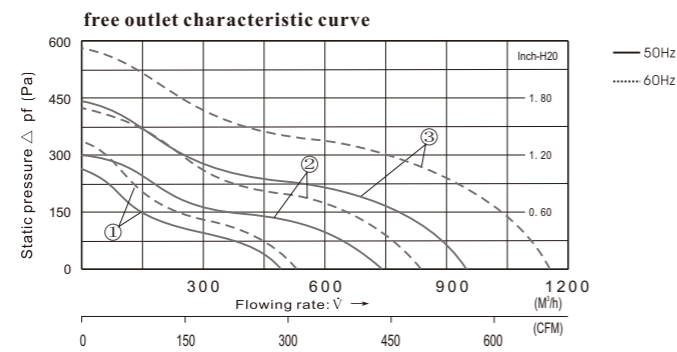
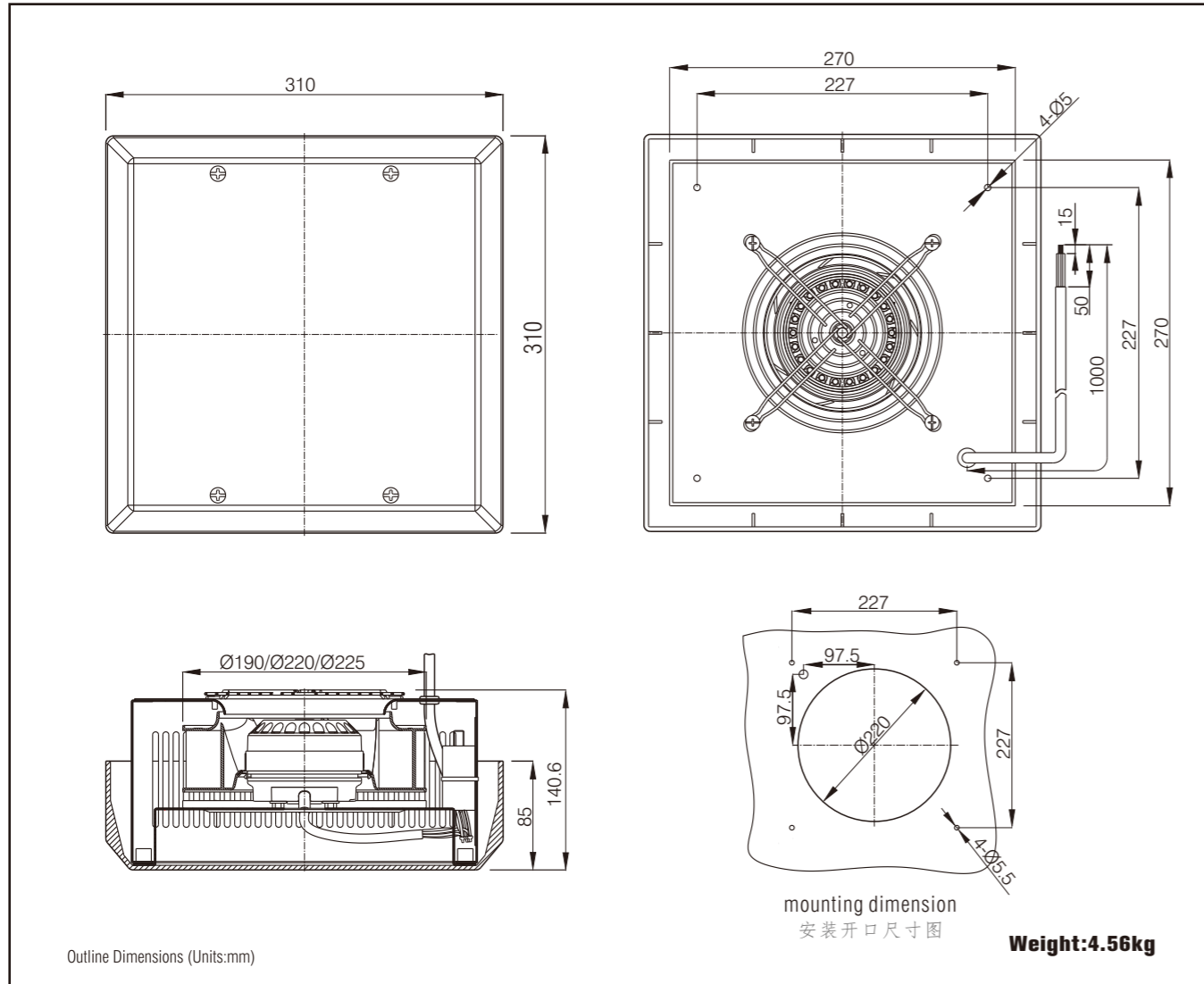
Important note: This device is designed for indoor use and is not suitable for direct exposure to outdoor environments (such as rainy or snowy weather). The core advantages of FAN top mounted fan filters lie in their efficient centrifugal exhaust capacity, good EMC performance, wide working range, and flexible installation customization options. They are a professional and reliable choice for solving the heat dissipation problem at the top of electrical cabinets.



Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|---------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK190PBD-230 | C2E-190.45A | 230 AC | 150...250 | 50 | 0.28 | 60 | 570 | 300 | 59 | ① | 402x354x124 |
| | | | | 60 | 0.31 | 71 | 620 | 420 | 61 | | |
| FJK220PBD-230 | C2E-220.44B | 230 AC | 150...250 | 50 | 0.46 | 98 | 860 | 380 | 67 | ② | |
| | | | | 60 | 0.51 | 118 | 980 | 550 | 70 | | |
| FJK225PBD-230 | C2E-225.63C | 230 AC | 150...250 | 50 | 0.60 | 131 | 1200 | 540 | 68 | ③ | |
| | | | | 60 | 0.74 | 170 | 1340 | 730 | 71 | | |

FJK220PB-230



Parameters

| Type 产品型号 | Fan Model 风扇型号 | Rated Voltage 额定电压 V | Speed 电压范围 V | Frequency 周波数 Hz | Current 电流 (A) | Power 功率 (W) +10% -20% | Max Air Flow 最大风量 m³/h | Static Pressure 最大静压 (Pa) | Noise 噪音 (dB) | Curve 曲线 | external dimensions 外形尺寸 (mm) |
|--------------|-------------------|----------------------------|--------------------|------------------------|----------------------|------------------------------------|------------------------------|---------------------------------|---------------------|-------------|-------------------------------------|
| FJK190PB-230 | C2E-190.45A | 230 AC | 150..250 | 50 | 0.26 | 58 | 484 | 265 | 57 | ① | 310x310x140 |
| | | | | 60 | 0.33 | 74 | 527 | 335 | 59 | | |
| FJK220PB-115 | C2E-220.44B | 115 AC | 150..250 | 50 | 1.00 | 98 | 730 | 300 | 60 | ② | |
| | | | | 60 | 1.07 | 120 | 830 | 440 | 62 | | |
| FJK220PB-230 | C2E-220.44B | 230 AC | 150..250 | 50 | 0.46 | 98 | 730 | 300 | 60 | ② | |
| | | | | 60 | 0.51 | 118 | 830 | 440 | 62 | | |
| FJK225PB-230 | C2E-225.63C | 230 AC | 150..250 | 50 | 0.60 | 131 | 1020 | 430 | 62 | ③ | |
| | | | | 60 | 0.74 | 170 | 1140 | 585 | 64 | | |

Total solution
总解决方案

Exhaust Filter

Optional parts
排氣通風格柵系列
可選件

series

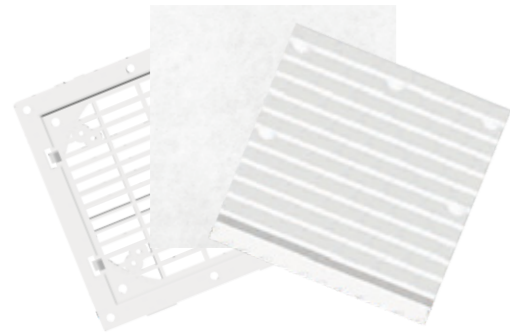
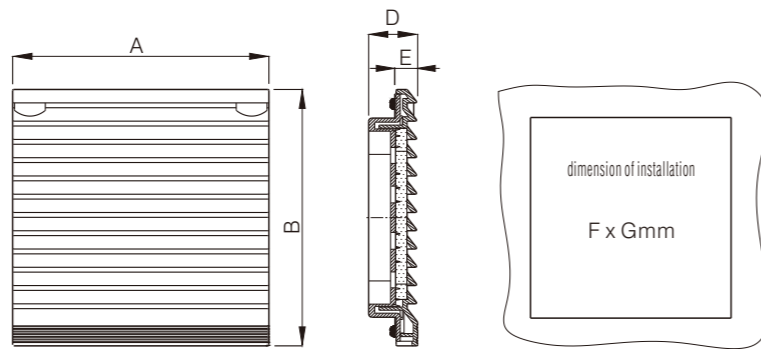
Characteristics

- Frame material uses anti-flame and heat resisting ABS plastic, of which fire resistance are accord with UL-94 Vo standard.
- Installation without screws are accord with standard of VDE 0113(EN 60204)
- Optional equips polyester fiber filter pad of 100g/m².150g/m².350g/m² , built-in standard is 150g/m². Standard max static pressure 86Pa~62Pa max relative humidity 90%.
- Temperature range : (unconcretionary) -20°C~+65°C (store temperature) -20°C~+70°C

- 外框材料選用耐熱阻燃ABS塑料，其耐火性符合UL-94 Vo標準。
- 安裝符合VDE 0113(EN 60204)標準的無螺絲的門裝方式。
- 可配有聚酯纖維過濾墊100g/m².150g/m².350g/m².內置標準為150g/m²標準最大靜態壓86Pa~62Pa 最大相對濕度90%
- 溫度範圍：（非凝結狀態）-20°C~+65°C（儲存溫度）-20°C~+70°C

Outline Dimensions

Units: mm

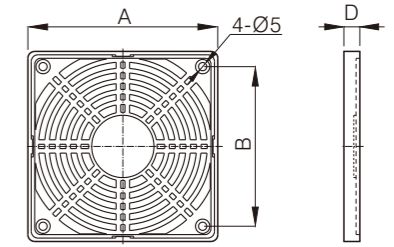


| Type 產品型號 RAL 7035 | External dimensions 外形尺寸 | | | | Opening size 安裝尺寸 | | IP | Filter pad 過濾墊 | | Related Info page 相關信息頁 |
|--------------------------|-----------------------------|-------|------|------|----------------------|-------|----|-------------------|---------|-------------------------------|
| | A | B | D | E | F | G | | level | Size | |
| JK 6620 | 106.5 | 106.5 | 22 | 10 | 82.5 | 82.5 | 54 | G2 | 75x75 | 91/92 |
| JK 6621 | 116.5 | 116.5 | 22 | 10 | 93 | 93 | 54 | G2 | 85x85 | 93/94 |
| JK 6622 | 148.5 | 148.5 | 27.5 | 10 | 122.5 | 122.5 | 54 | G2 | 115x115 | 95/96 |
| JK 6623 | 204.5 | 204.5 | 30 | 13.5 | 176 | 176 | 54 | G2 | 170x170 | 97/98 |
| JK 6625 | 255 | 255 | 30.5 | 13.5 | 222 | 222 | 54 | G2 | 215x215 | 99/100 |
| JK 6626 | 324 | 324 | 30.5 | 13.5 | 290 | 290 | 54 | G2 | 285x285 | 101/102 |
| JK 6626D | 324 | 324 | 30.5 | 13.5 | 290 | 290 | 54 | G2 | 288x288 | 103/104 |

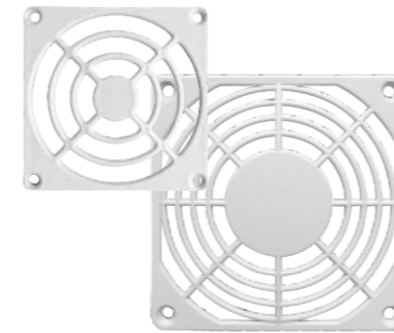


Ventilation shutter
Built-in black filter sponge
Finger guard for axial fan

通風格柵
內置黑色過濾海綿
用于軸流風扇的防護罩

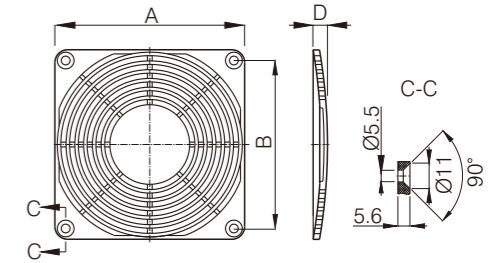


| Type 產品型號 | External dimensions 外形尺寸 | | |
|--------------|-----------------------------|-------|------|
| | A | B | D |
| LP 4008 | 8.6 | 71.5 | 10 |
| LP 4009 | 9.6 | 82 | 10 |
| LP 4012 | 115 | 104.8 | 10.5 |

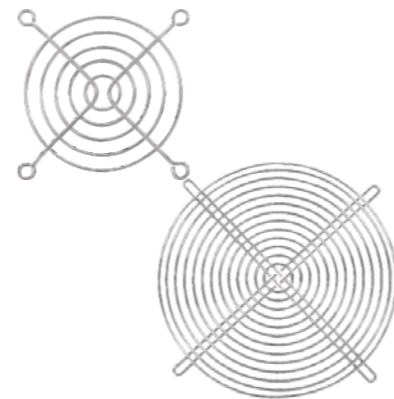


ABS plastic guard
Color RAL 7035

ABS塑料防護罩
顏色 RAL 7035

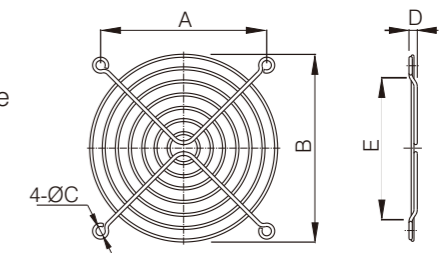


| Type 產品型號 | External dimensions 外形尺寸 | | |
|--------------|-----------------------------|-------|-----|
| | A | B | D |
| LP 4208 | 80 | 71.5 | 7 |
| LP 4209 | 92 | 82 | 7 |
| LP 4212 | 120 | 104.8 | 6.5 |



Metal guard
Surface nickel plating
Better corrosion resistance

金屬防護罩
表面鍍鎳處理
更高耐腐蝕

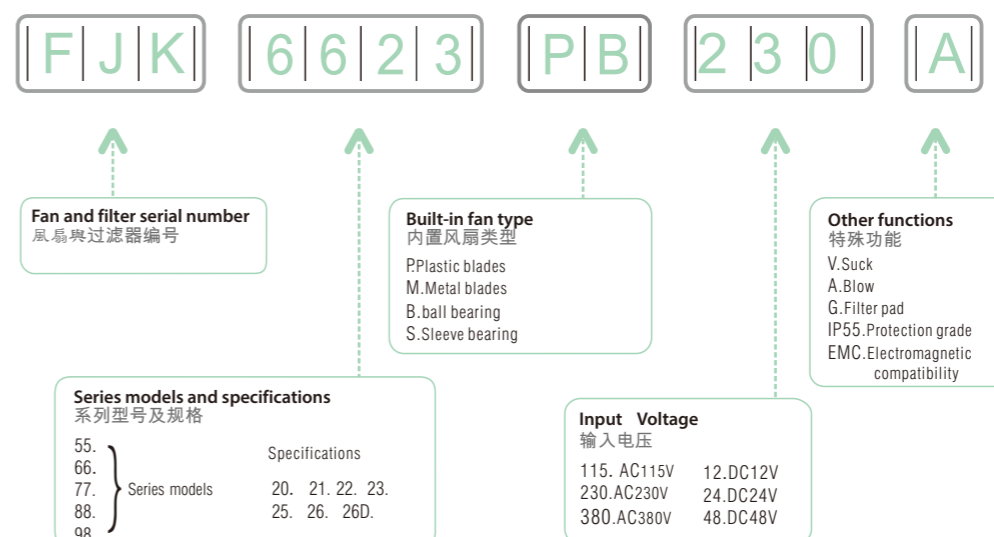
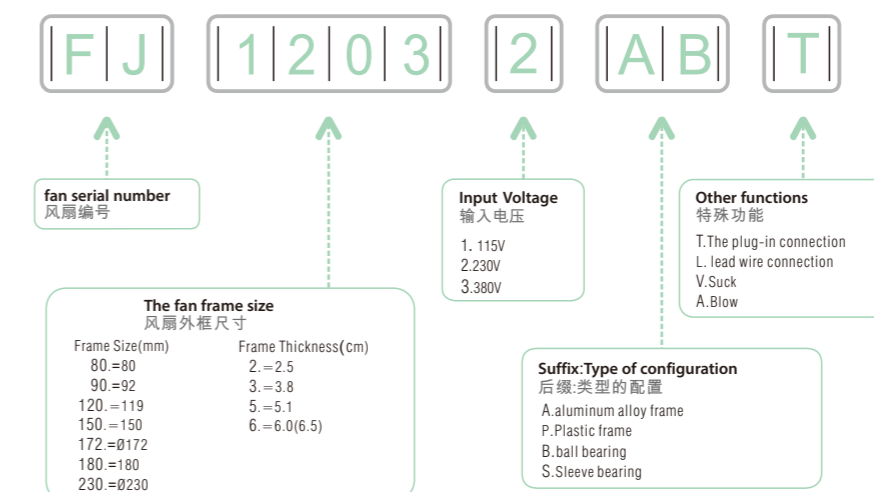
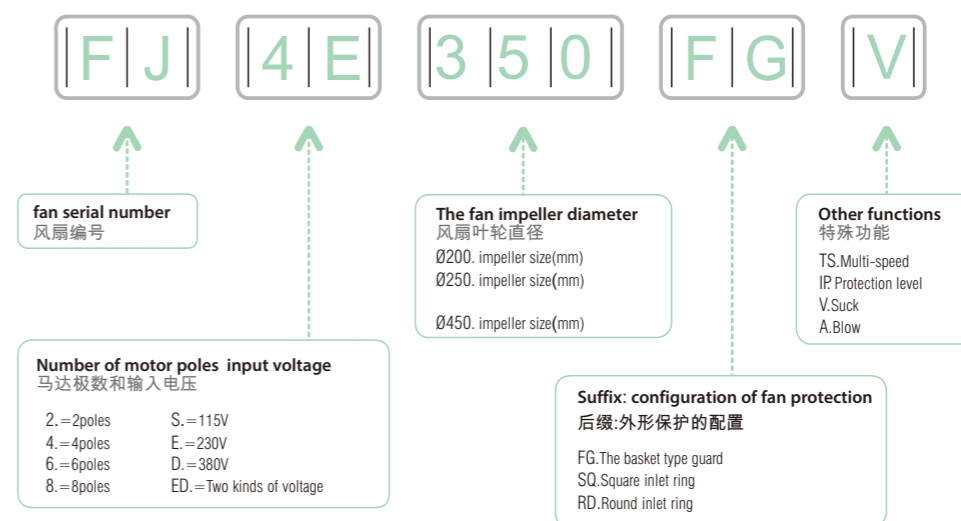
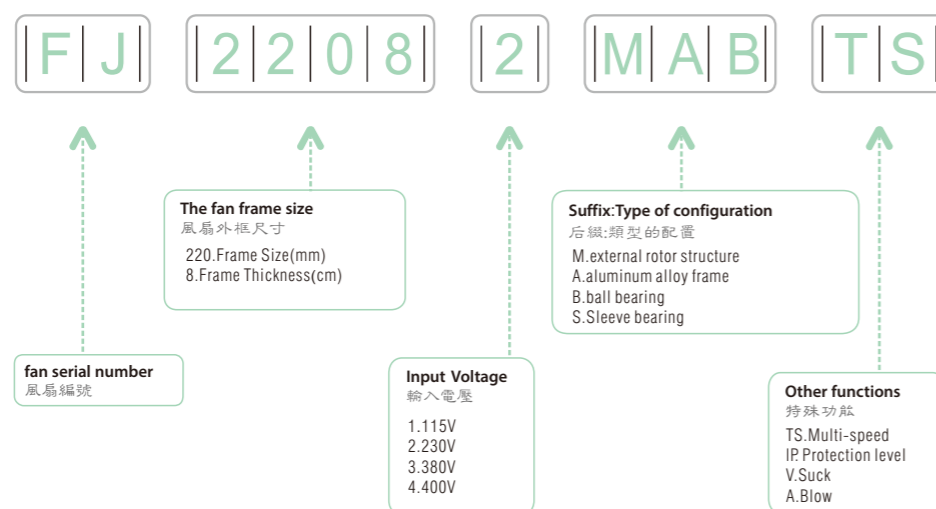
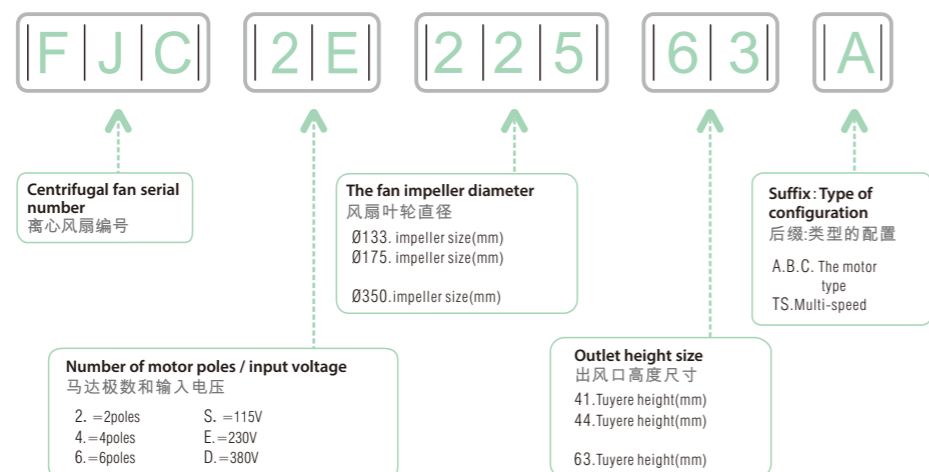


| Type 產品型號 | External dimensions 外形尺寸 | | | | |
|--------------|-----------------------------|-------|-----|------|-----|
| | A | B | C | D | E |
| LP 2204 | 32 | 29.5 | 4.5 | 4.5 | 35 |
| LP 2206 | 50 | 53 | 5 | 5 | 57 |
| LP 2208 | 71.5 | 73 | 5.3 | 5 | 85 |
| LP 2209 | 82 | 87 | 5.3 | 5.4 | 102 |
| LP 2212 | 104.8 | 115.5 | 5.5 | 5.4 | 133 |
| LP 2215 | 114.5 | 140 | 5.5 | 5.4 | 152 |
| LP 2222 | 170 | 215.5 | 5.5 | 9.5 | 209 |
| LP 2225 | 208.6 | 268 | 6.6 | 11.5 | 257 |

Common Models

Description

常规型号说明



Centrifugal Fan
离心风机系列

External Rotor Motor Fan
外转子电机风扇

Sickle Impeller Fan Series
镰刀式叶轮系列

Shaded Pole Motor Fan
罩极电机风扇

Ventilation Systems Fan Filter
风扇过滤器