Engineered for the Critical

World's Largest Selection of Fan Products
World's Most Comprehensive Fan Solutions



LONGWELL®
Turn to Experts - HVAC&R

Ningbo Longwell Electric Technology Co., Ltd

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Fax: +86 574 6218 9863
Phone: 0086 183 5827 4663
Web: www.longwellfans.com | www.longwell-group.com | www.longwell-media.com
Email: sales@zjlongwell.com

CE RoHS ETL BSCI ISO EAC UL LVD

LONGWELL®
Turn to Experts - HVAC&R

LONGWELL TECHNOLOGY

The Ventilation and Drive Technology Partner for Mission-Critical Environments







Professional Manufacturer of HVACR Fan & Motors

—— AC Dual Inlet Forward Centrifugal Blower

Longwell Group
Longwell-China
Longwell-USA
Longwell-Russia
Longwell-Europe

Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com







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03-04 Testing and Standards

05 Type Code

06-28 AC Dual Inlet Forward Centrifugal Blower(Φ120-Φ146)

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About Longwell

The Ventilation and Drive Technology Partner for Mission-Critical Environments

OEM for Well-Known Brands | **Supplies Fortune 500 Companies** | **Global Technical Support**

LONGWELL is a leading fan manufacturer, specializing in high-quality fans, blowers, motors, and components for heating, ventilation, air conditioning, and refrigeration applications. We have a strong presence in delivery capabilities, design and R&D capabilities, as well as manufacturing, placing us at the forefront of the industry.

Our product range includes EC/DC/AC centrifugal fans, axial fans, AC/BLDC cross-flow fans, single/double forward curved fans, AC/BLDC/ECM motors, and industrial fan blowers. Since our establishment in 1990, we have continuously upgraded our facilities and production capacity, boasting advanced testing labs and production facilities with an annual capacity of millions of fans. With over 20 years of experience, we are highly skilled in the design, development, and manufacture of fans and motors. We export to over 30 countries and serve numerous Fortune 500 clients.

Our facilities and products are compliant with certifications such as ISO9001, ISO14001, BSCI, CE, UL/ETL, CCC, EMC, and LVD. These certifications demonstrate our compliance in quality management, environmental management, social responsibility, and product safety. We are quality-oriented and dedicated to providing products and services that meet international standards.

Equipped with advanced testing labs and production facilities, including a B&K noise lab, CFD simulation lab, air dynamics test chambers, automatic welding machines, CNC machining centers, and auto robot injection machines, we ensure efficient production and on-time delivery.

As industry leaders, we prioritize technological innovation and efficiency. We employ advanced technologies such as aerodynamics principles and CFD simulation to ensure precise and efficient fan designs. Additionally, we offer customized services to design and manufacture fan systems according to specific customer requirements. Our focus is on providing high-tech, high-efficiency products that meet our customers' needs and contribute to a better future.

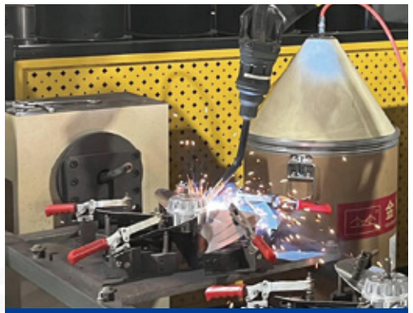
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials to deliver products that are efficient, safe, and reliable. Our brand is widely recognized globally, and we are committed to promoting sustainable development and advancing the efficient fan industry.

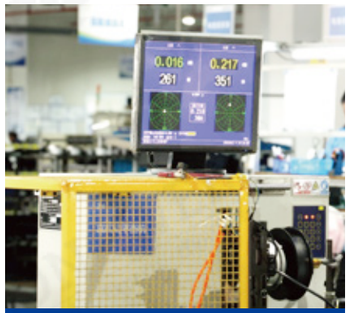
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

193	40000㎡	500+	1Million+PCS	6	50+
Staff	Floor Space	Branding Clients	Annual Outputs	Overseas offices on spot support	Members R&D Team


B&K Noise Testing Lab


Production Line


Automatic Welding

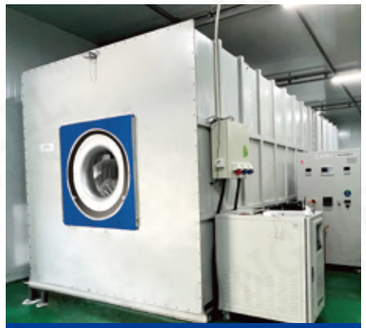


Balance Machine


Automatic Welding Machine


Production Line - Centrifugal Fan


Automatic CNC machine


Air Dynamic Test Lab


Production Line - Axial Fans


Production Line

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Testing and Standards

- ISO GB/T 19001-2016 idt ISO 9001:2015/GB/T 24001-2016 idt ISO 14001:2015/GB/T 45001-2020 idt ISO 45001:2018
- UL 507:2017 Ed.10+R:27/CSA C22.2#113:2018 Ed.11
- BSCI ANSI C63.4:2014/ANSI C63.4a-2017
- EN IEC 55014-1:2021/EN IEC 55014-2:2021/EN IEC 61000-3-2:2019 +A1:2021
  EN 61000-3-3:2013 +A1:2019 +A2:2021 +AC:2022-01
  EN 60335-2-80:2003 +A1:2004 +A2:2009;
  EN 60335-1:2012 +A11:2014 +A13:2017 +A1:2019+A14:2019 +A2:2019+A15:2021
  EN 62321-1:2013/EN 62321-2:2014/EN 62321-3-1:2014
  EN 62321-4:2014+A1:2017/EN 62321-5:2014/EN 62321-6:2015
  EN 62321-7-1:2015/EN 62321-7-2:2017/EN 62321-8:2017







Enterprise Credit Evaluation Certificate - Hightest Level in China

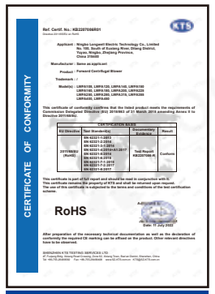

Own-Brand


Own-Brand


ETL


ETL

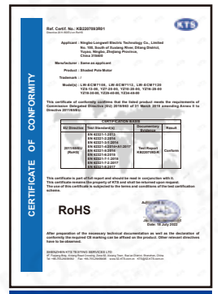

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL


ETL


CE


CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

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AC Dual Inlet Forward Centrifugal Blower

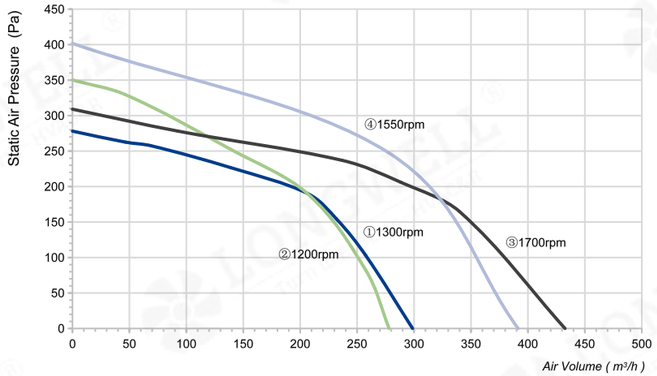
Type Code

LW F A 2E 120 - 092 D S - 01

- LW-Longwell
- B-Backward F-Forward
- A-AC D-DC E-EC
- 2E-2pole 4E-4pole 6E-6 pole 6D-6pole
  8D-8pole 3G-3 phase 1G-Single phase
- Diameter of Impeller
- Diameter of Rotor:072/092/102/138/188/218
- N-Without housing/bracket
  S-Single inlet with housing
  D-Dual-inlet with housing
  P-with bracket
- T-380VAC S-230VAC U-115V
  L-12VDC M-24VDC
  H-48VDC Z-310VDC
- Series number



LWFA-120 Serise





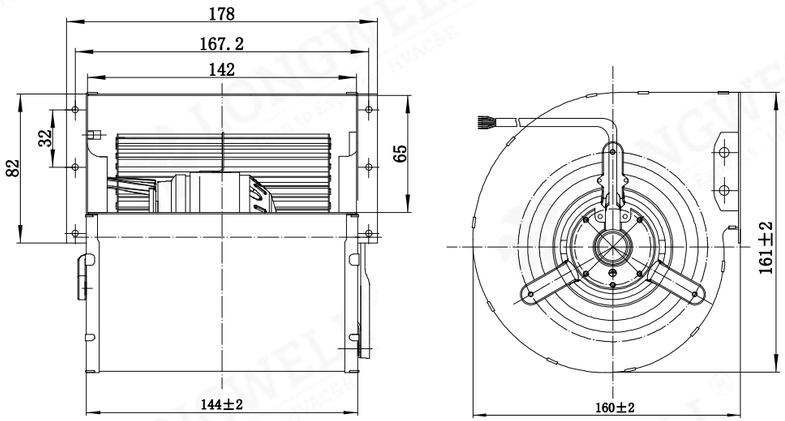
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

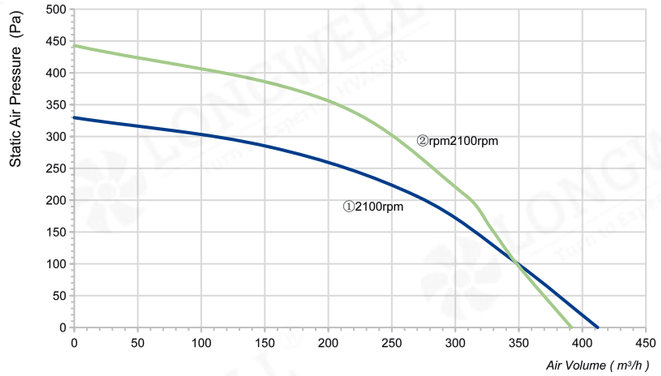
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E120-092DS-01	230	50	65	0.3	1300	299	278	54	2uF	①
LWFA2E120-092DS-02	230	60	71	0.33	1200	278	350	54	2uF	②
LWFA2E120-092DS-03	230	50	105	0.47	1700	433	309	60	2uF	③
LWFA2E120-092DS-04	230	60	116	0.52	1550	391	402	60	2uF	④



LWFA-120 Serise





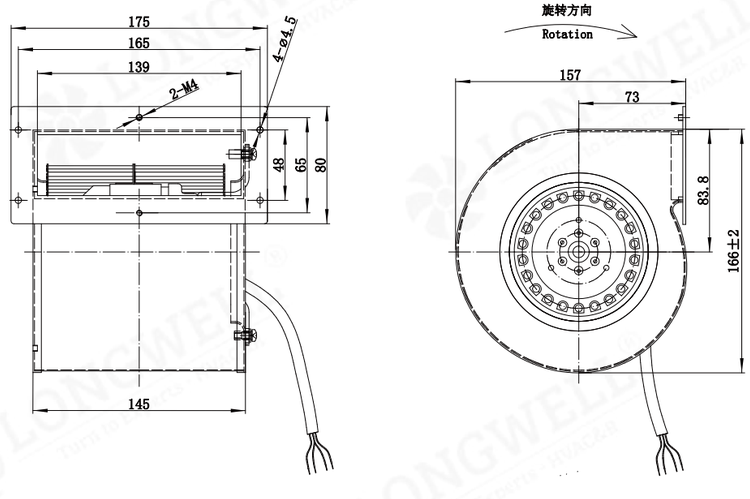
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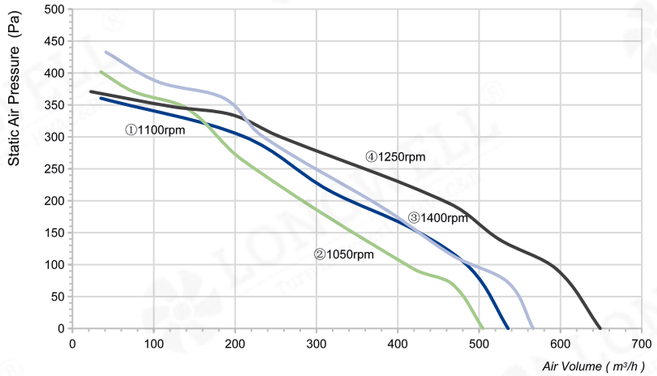
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E120-092DS-05	230	50	85	0.4	2100	412	330	66	1.5uF	①
LWFA2E120-092DS-06	230	60	95	0.43	2100	391	443	66	1.5uF	②



LWFA-133 Serise



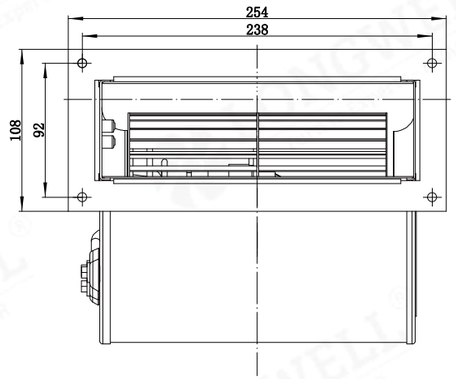


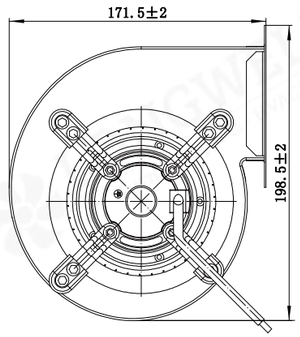
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

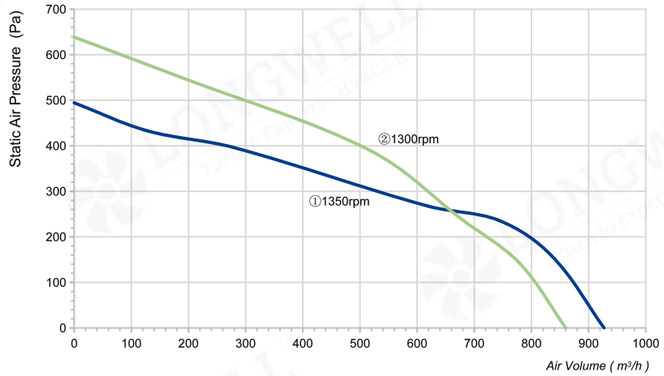
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092DS-01	230	50	130	0.6	1100	536	361	60	3uF	①
LWFA2E133-092DS-02	230	60	135	0.62	1050	505	402	60	3uF	②
LWFA4E133-092DS-03	230	50	180	0.8	1400	649	371	69	4uF	③
LWFA4E133-092DS-04	230	60	190	0.86	1250	567	433	69	4uF	④





LWFA-133 Serise



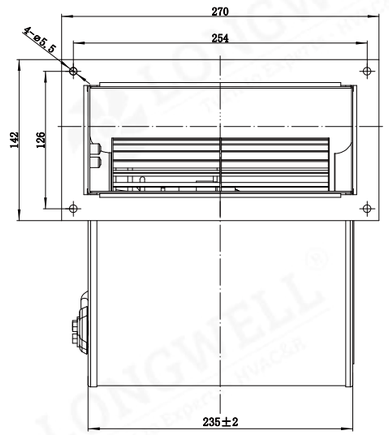


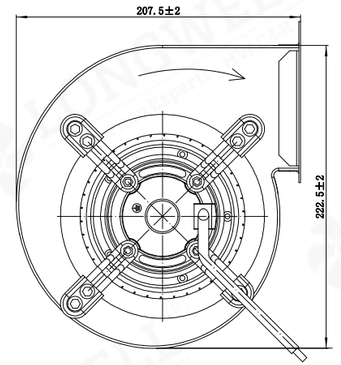
Product Characteristic

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- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

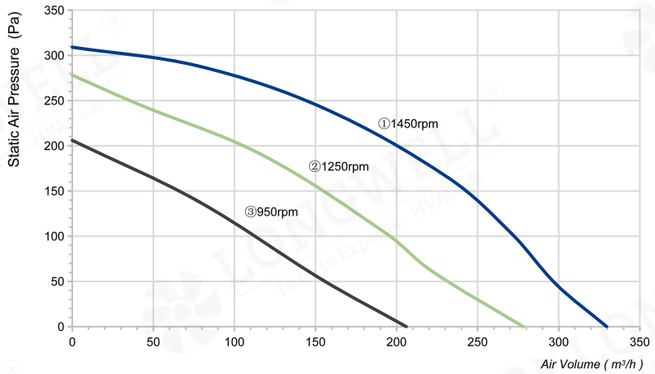
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092DS-05	230	50	250	1.15	1350	927	494	69	6uF	①
LWFA2E133-092DS-06	230	60	265	1.22	1300	886	639	69	6uF	②





LWFA-133 Serise



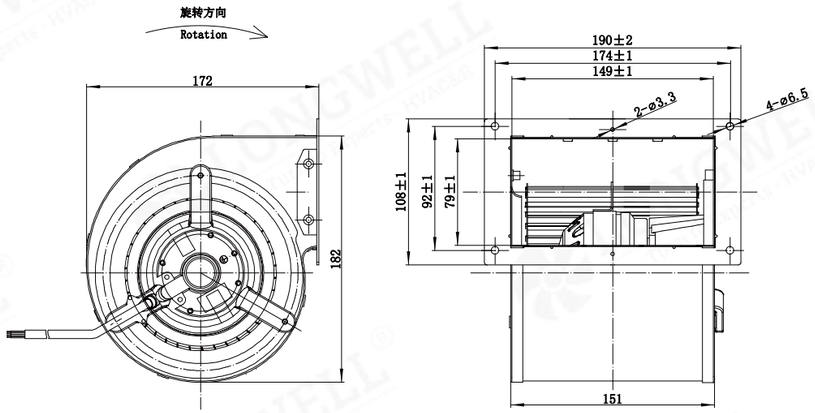


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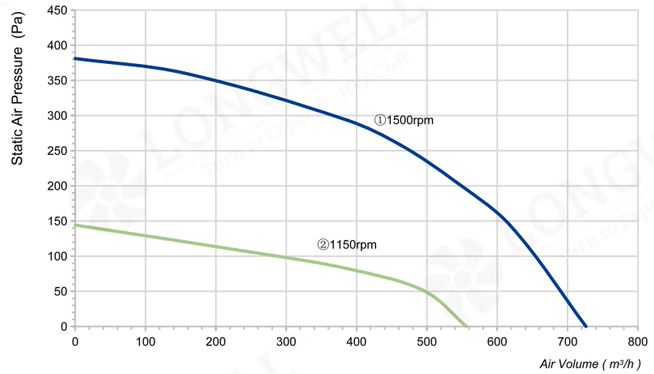
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Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092DS-07	230	50	70	0.3	1450	330	309	40	1.5uF	①
			60	0.26	1250	278	278	35	1.5uF	②
			47	0.22	950	206	206	29	1.5uF	③



LWFA-133 Serise



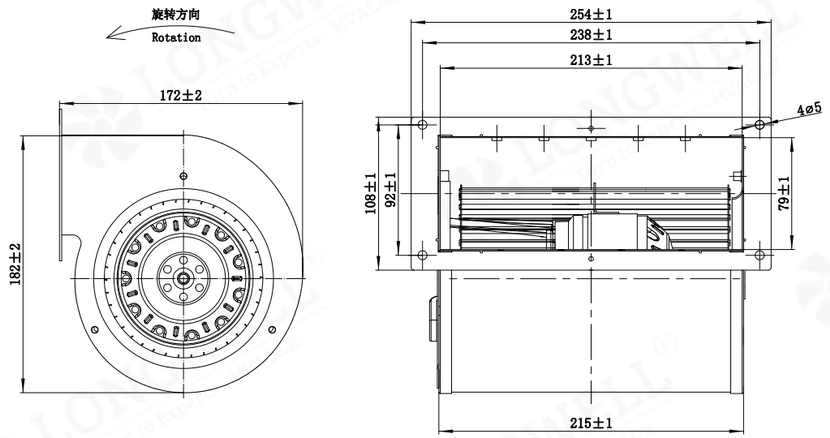


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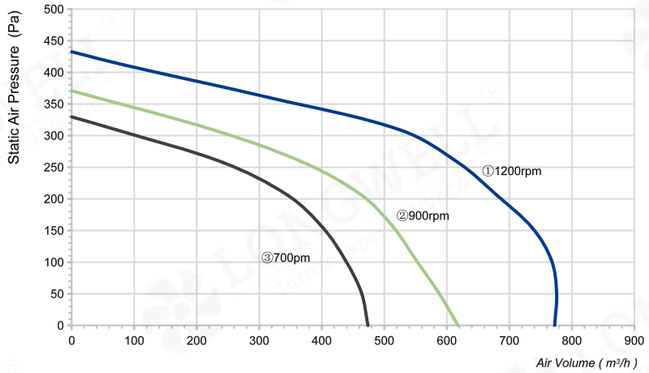
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092DS-08	230	50	190	0.85	1500	726	381	60	4uF	①
LWFA4E133-092DS-09	230	50	75	0.35	1150	556	144	51	2uF	②



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LWFA-133 Serise





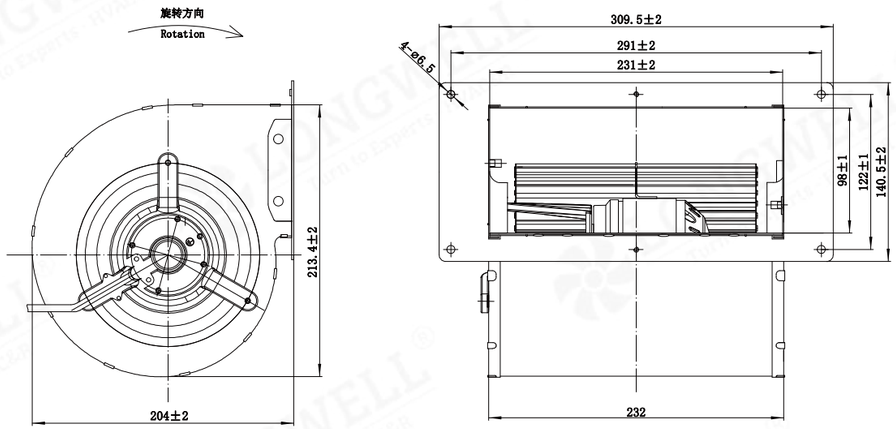
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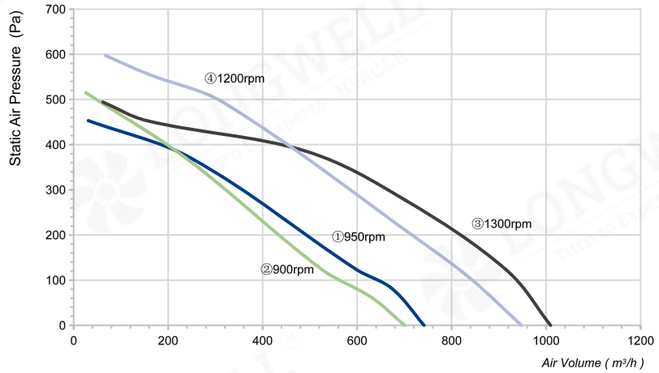
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E133-092DS-10	230	50	250	1.1	1200	773	433	58	4uF	①
			205	0.9	900	618	371	51	4uF	②
			175	0.8	700	474	330	46	4uF	③



LWFA-146 Serise





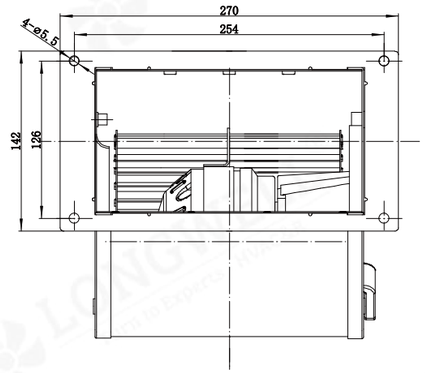
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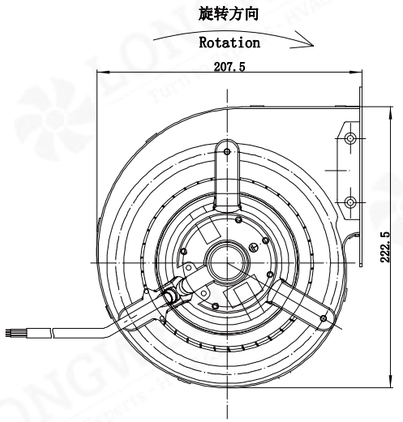
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CE RoHS ETL BSCI ISO EAC UL LVD

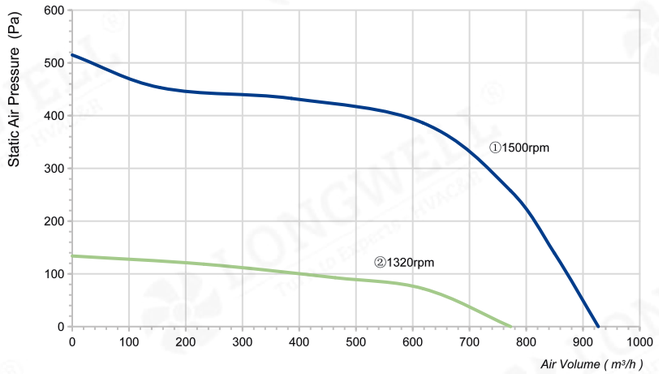
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-01	230	50	175	0.79	950	742	453	58	5uF	①
LWFA2E146-092DS-02	230	60	190	0.85	900	700	515	58	5uF	②
LWFA2E146-092DS-03	230	50	275	1.25	1300	1009	494	69	8uF	③
LWFA2E146-092DS-04	230	60	295	1.35	1200	948	597	69	8uF	④





LWFA-146 Serise





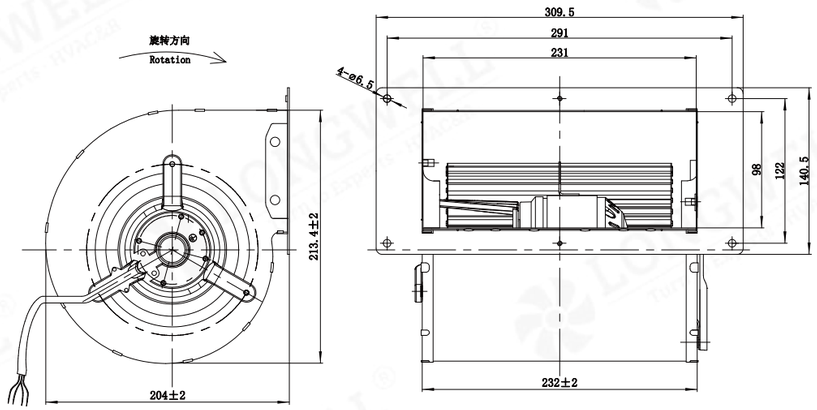
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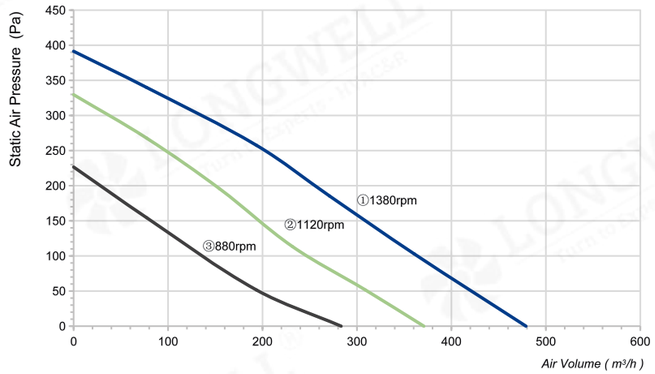
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-05	230	50	250	1.2	1500	927	515	60	6uF	①
LWFA4E146-092DS-06	230	50	100	0.54	1320	773	134	52	3uF	②



LWFA-146 Serise





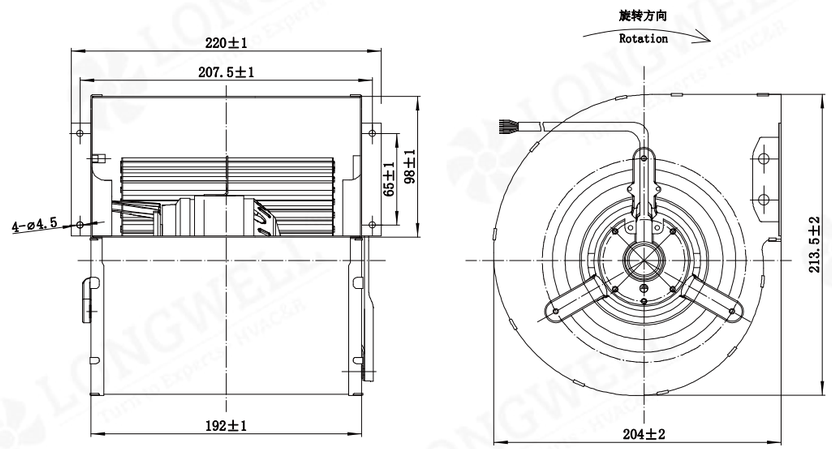
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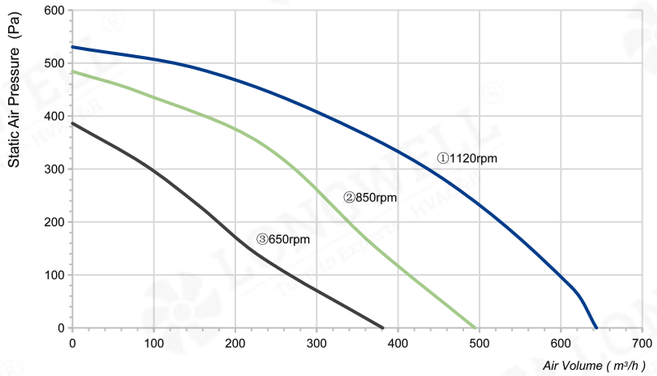
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-07	230	50	105	0.43	1380	479	391	40	2.5uF	①
			75	0.35	1120	371	330	35	2.5uF	②
			58	0.3	880	283	227	29	2.5uF	③



LWFA-146 Serise





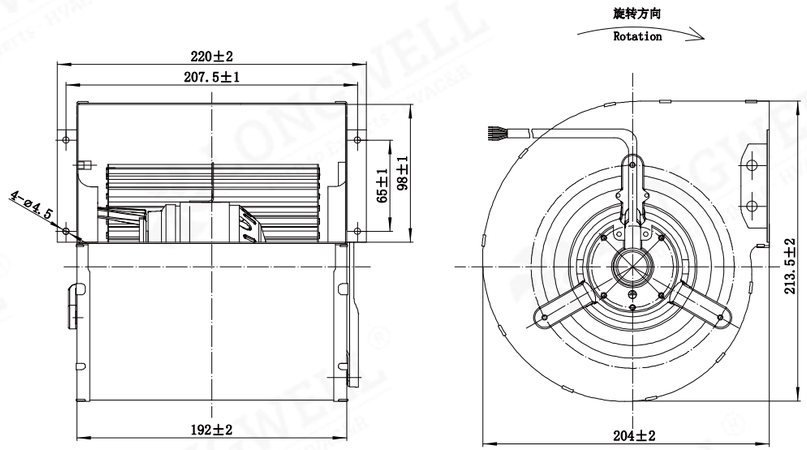
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

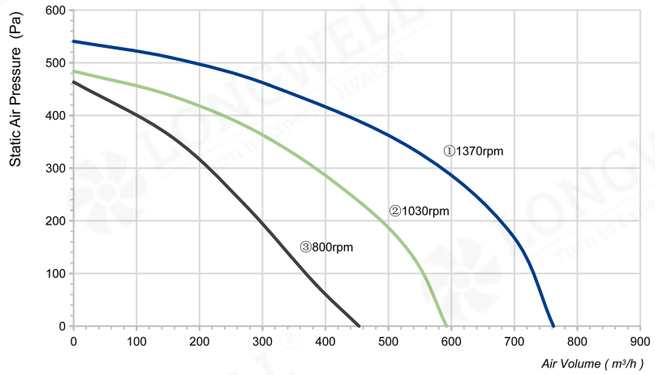
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-08	230	50	250	1.15	1120	639	536	56	4uF	①
			205	0.94	850	494	484	49	4uF	②
			175	0.8	650	381	386	42	4uF	③



LWFA-146 Serise





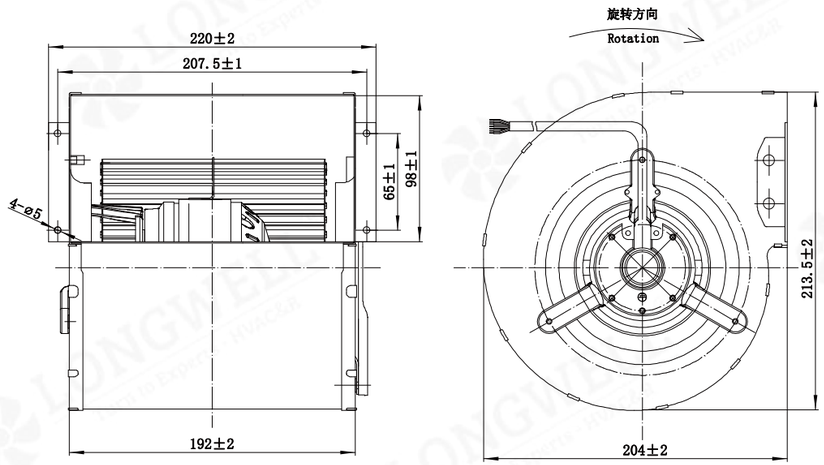
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

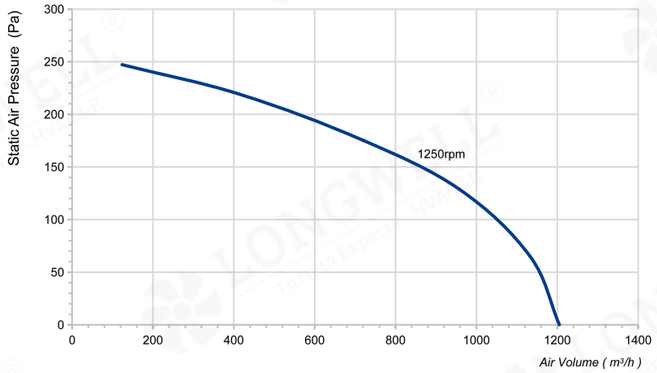
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-09	230	50	260	1.18	1370	762	541	60	6uF	①
			210	0.96	1030	592	484	53	6uF	②
			180	0.82	800	453	464	46	6uF	③



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LWFA-180 Serise





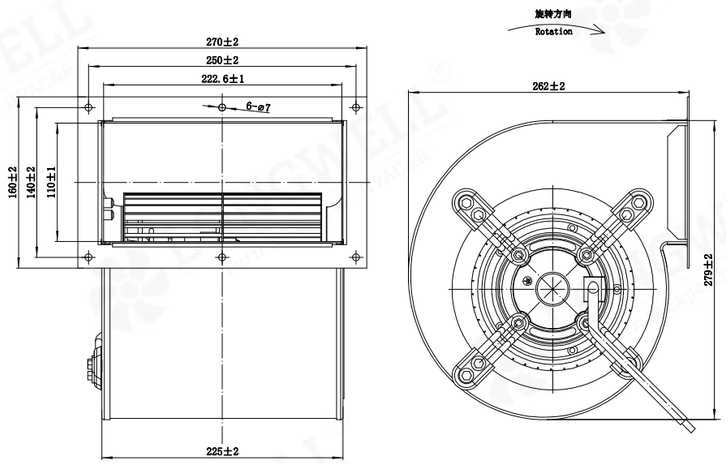
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

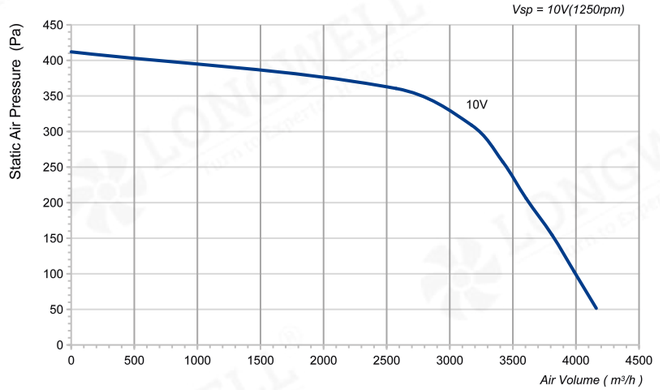
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4E180-092DS-01	230	50	200	0.92	1250	1205	247	63	4uF	/



LWFA-250 Serise





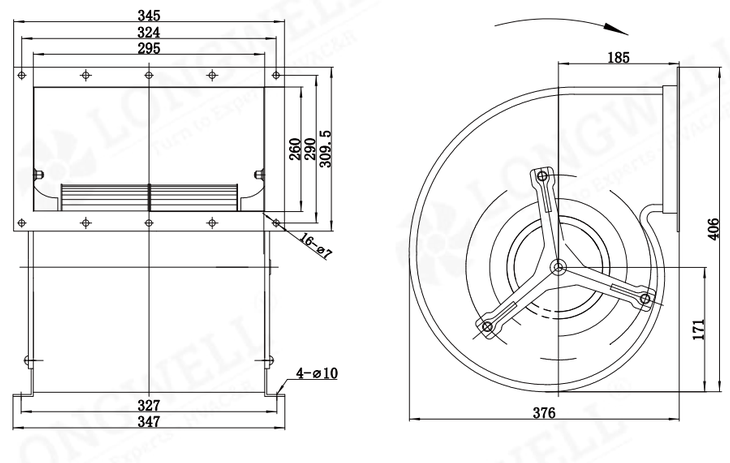
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

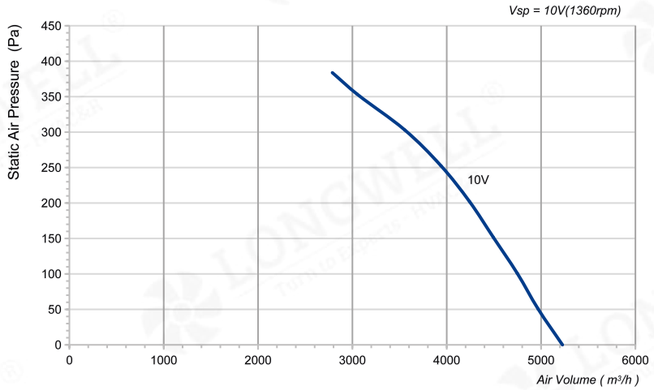
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4D250-102DS-04	380	50	1200	2.1	1250	4161	412	77	/	/



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LWFA-250 Serise





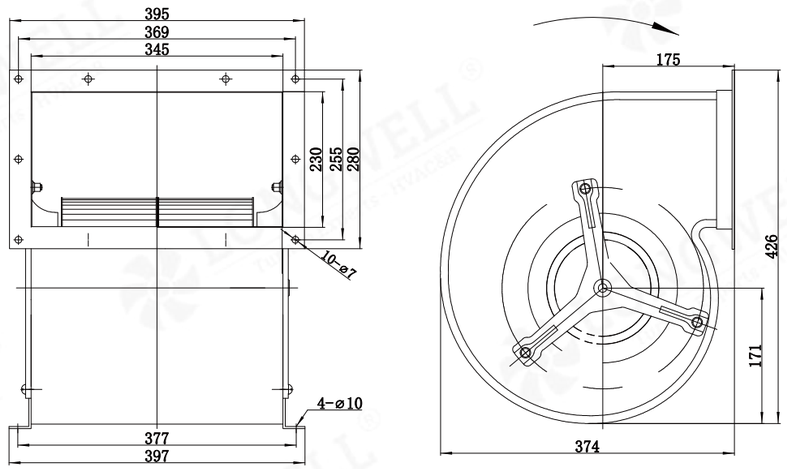
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

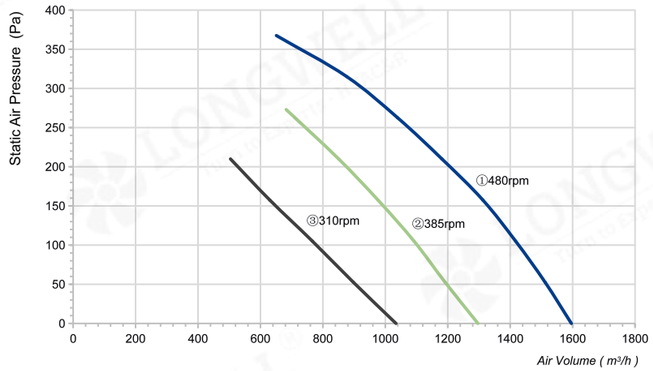
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA4D250-102DS-05	380	50	1380	2.5	1360	5227	384	77	/	/



LWFA-300 Serise





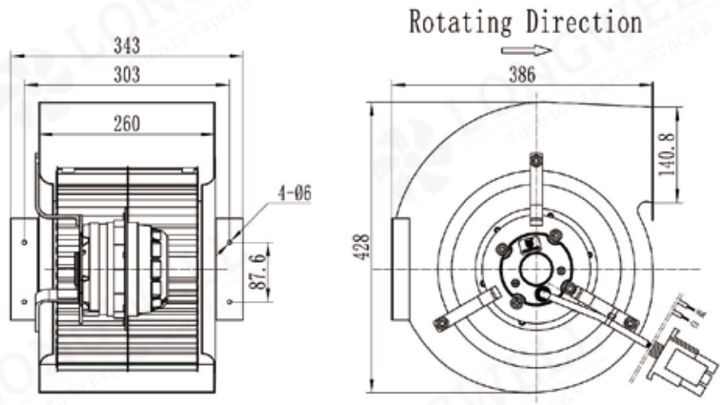
Product Characteristic

- Material : Metal
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

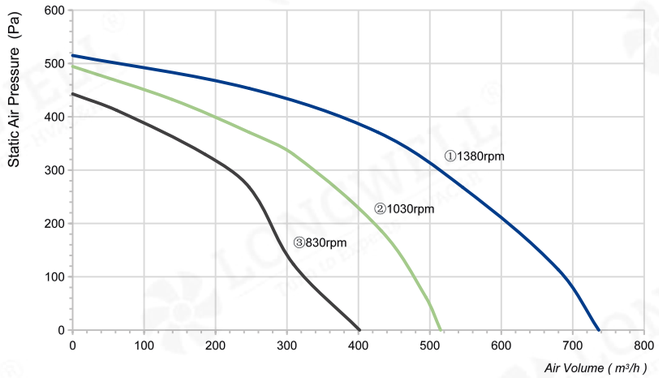
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA6E300-138DS-01	230	50	386	1.68	480	1596	368	/	8uF	①
			298	1.3	385	1297	273	/	8uF	②
			259	1.13	310	1034	210	/	8uF	③



LWFA-146 Serise





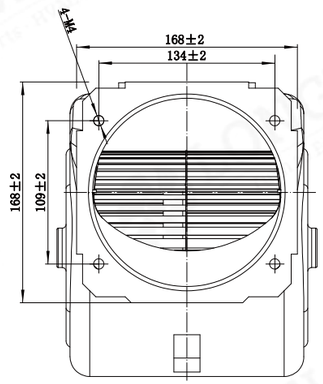
Product Characteristic

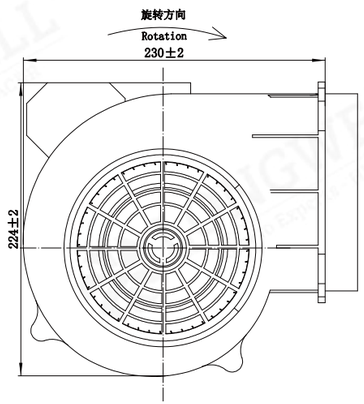
- Material : Plastic
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

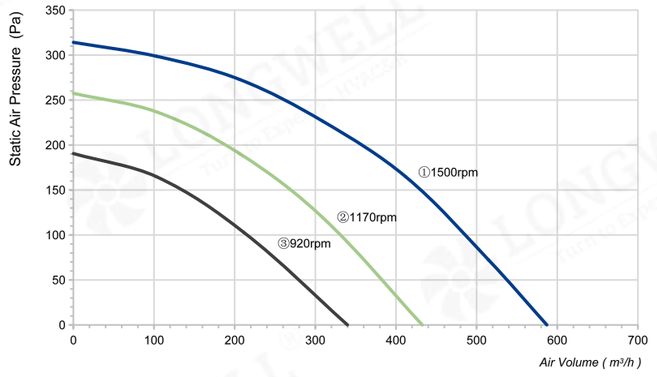
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-10	230	50	235	1.1	1380	736	515	57	4uF	①
			195	0.95	1030	515	494	48	4uF	②
			165	0.75	830	402	443	42	4uF	③





LWFA-146 Serise





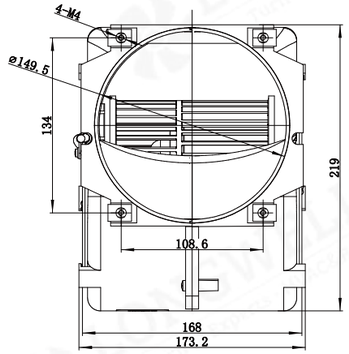
Product Characteristic

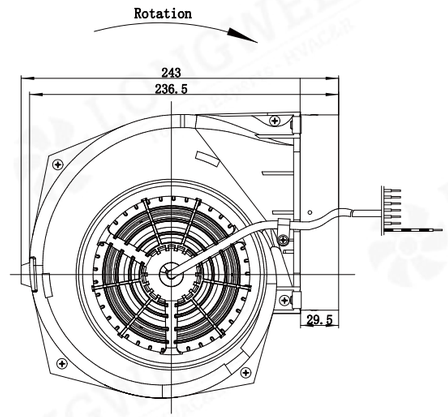
- Material : Plastic
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

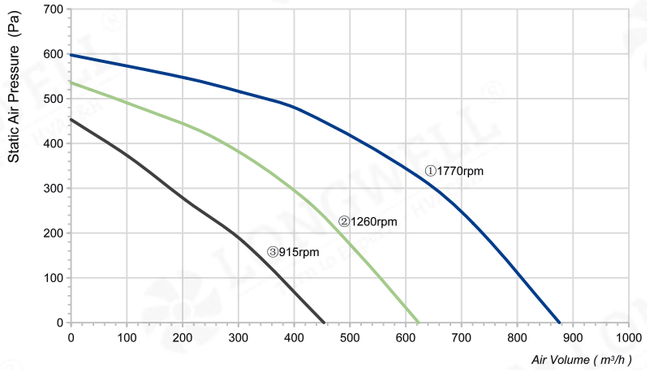
Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-11	230	50	125	0.53	1500	587	314	61	4/450uF	①
			93	0.43	1170	433	258	58	4/450uF	②
			79	0.38	920	340	191	55	4/450uF	③





LWFA-146 Serise





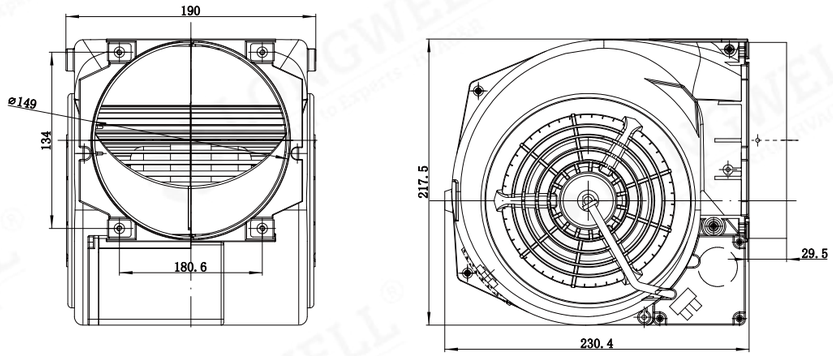
Product Characteristic

- Material : Plastic
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

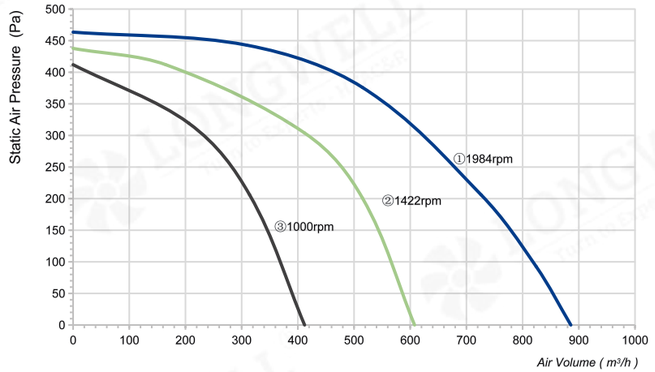
CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-12	220	60	288	1.36	1770	876	597	72	10uF	①
			213	1.09	1260	623	536	63	10uF	②
			180	0.96	915	453	453	55	10uF	③



LWFA-146 Serise





Product Characteristic

- Material : Plastic
- Insulation Class: F
- Bearing: Maintenance-free ball bearings
- Mode of Operation: S1
- Type of Protection: IP54
- Operation Temperature: -30℃～+60℃

CE RoHS ETL BSCI ISO EAC UL LVD

Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Power (W)	Current (A)	Speed (RPM)	Air Flow (m³/h)	Air Pressure (Pa)	Noise [dB(A)]	Capacitor	Curve
LWFA2E146-092DS-13	230	50	298	1.3	1984	886	464	73	10uF	①
			207	0.94	1422	608	438	62	10uF	②
			178	0.82	1000	412	412	55	10uF	③

