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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Email: sales@zjlongwell.com

CE RoHS 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

—— Air Conditioner Motor

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

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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.

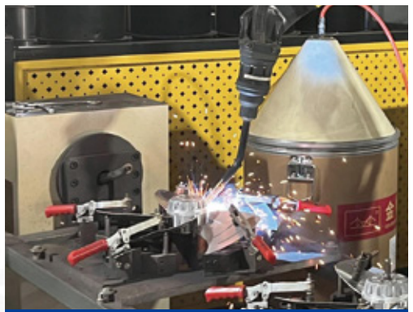
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials 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.

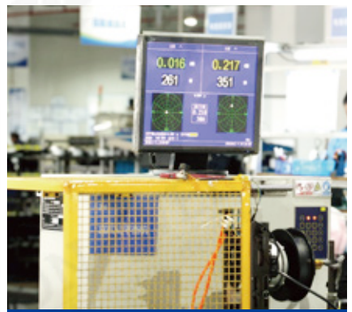
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

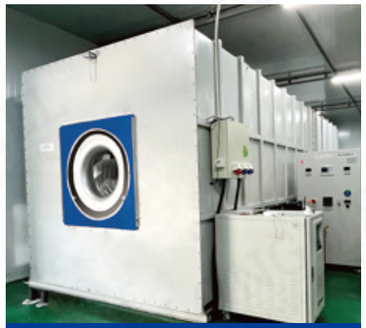

Automatic Welding


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
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Enterprise Credit Evaluation Certificate - Hightest Level in China

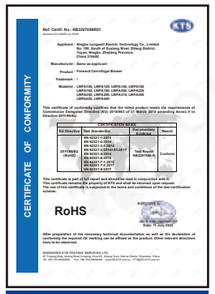

Own-Brand


Own-Brand


ETL


ETL

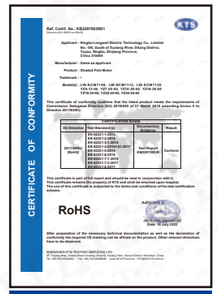

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL


ETL


CE


CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

Type Code

LW Y DK 30 - 4P - 001

- Series Number
- **Number of Pole**
  2P 4P 6P 8P 10P 12P
- Rated Power(W)
- **Number of Shafts**
  DK-Single Shaft Extension
  SK-Double Shaft Extension
- **Motor Type**
  Y-AC Capacitor Motor
  BL-Brushless EC Motor
- Longwell

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Air Conditioner Motor

Professional HVAC Fan &Motors Manufacturer



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110mm Air Conditioner Motor-Single Shaft

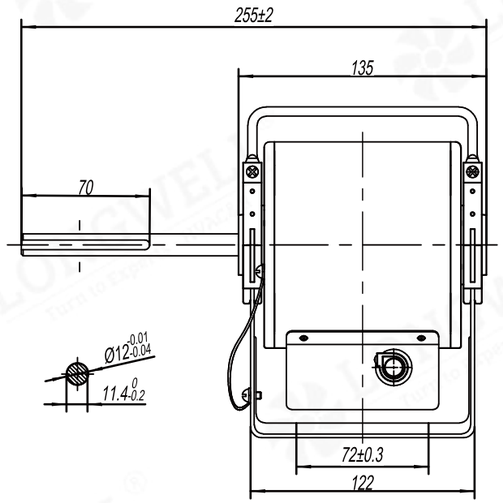
Product Characteristic

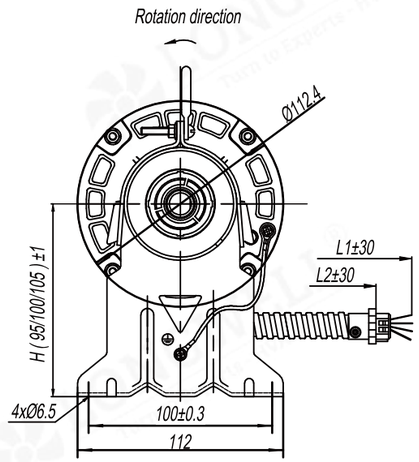
- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYDK30-4P-001	220	50	30	4	95/100/105	1000	900
LWYDK40-4P-001	220	50	40	4	95/100/105	1200	1100
LWYDK50-4P-001	220	50	50	4	95/100/105	1300	1200
LWYDK60-4P-001	220	50	60	4	95/100/105	1500	1400
LWYDK80-4P-001	220	50	80	4	95/100/105	1500	1400
LWYDK100-4P-001	220	50	100	4	95/100/105	1800	1700
LWYDK120-4P-001	220	50	120	4	95/100/105	1800	1700





110mm Air Conditioner Motor-Double Shaft

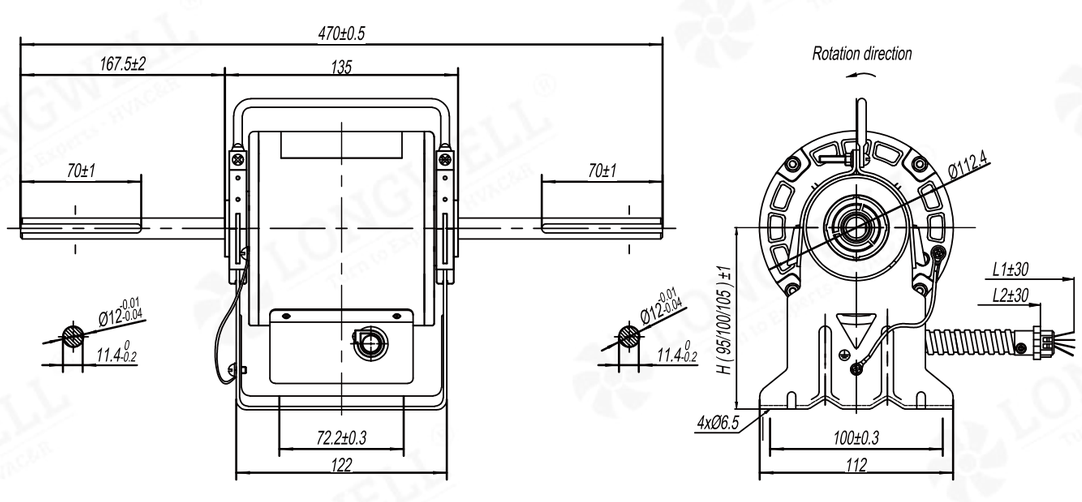
Product Characteristic

- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYSK30-4P-001	220	50	30	4	95/100/105	1000	900
LWYSK40-4P-001	220	50	40	4	95/100/105	1200	1100
LWYSK50-4P-001	220	50	50	4	95/100/105	1300	1200
LWYSK60-4P-001	220	50	60	4	95/100/105	1500	1400
LWYSK80-4P-001	220	50	80	4	95/100/105	1500	1400
LWYSK100-4P-001	220	50	100	4	95/100/105	1800	1700
LWYSK120-4P-001	220	50	120	4	95/100/105	1800	1700



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120mm Air Conditioner Motor-Single Shaft

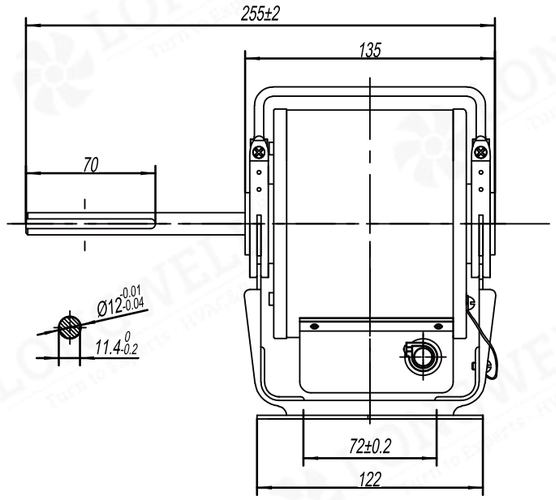
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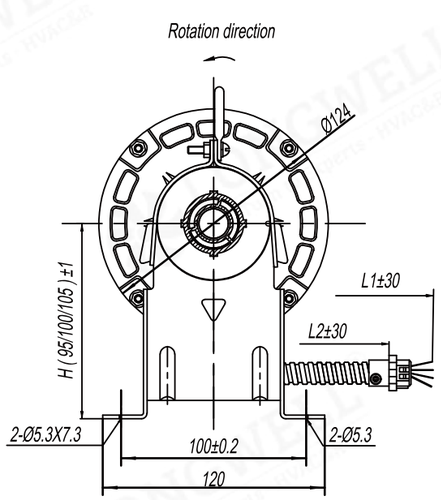
- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYDK125-4P-001	220	50	125	4	95/100/105	1000	900
LWYDK150-4P-001	220	50	150	4	95/100/105	1200	1100
LWYDK200-4P-001	220	50	200	4	95/100/105	1300	1200
LWYDK250-4P-001	220	50	250	4	95/100/105	1500	1400





120mm Air Conditioner Motor-Double Shaft

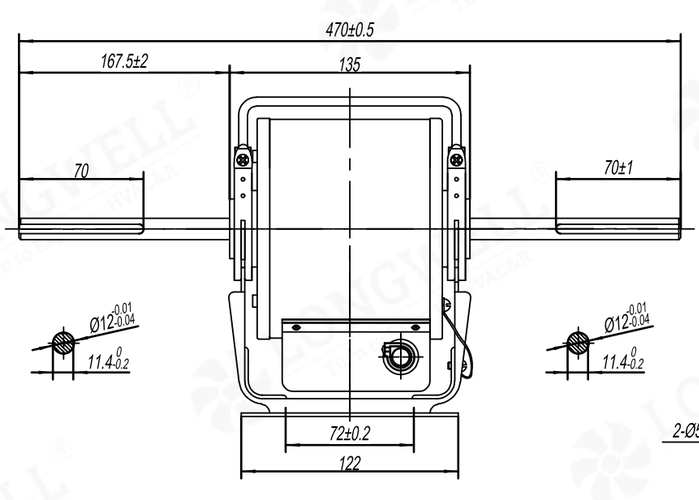
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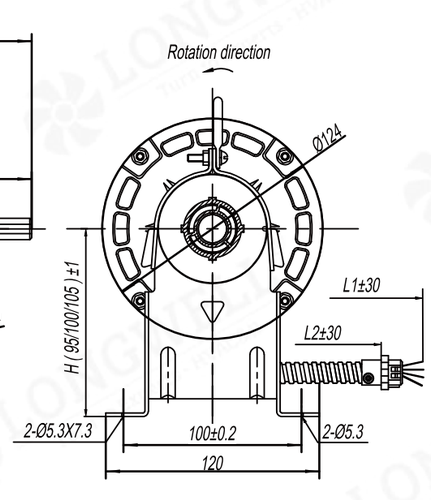
- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYSK125-4P-001	220	50	125	4	95/100/105	1000	900
LWYSK150-4P-001	220	50	150	4	95/100/105	1200	1100
LWYSK200-4P-001	220	50	200	4	95/100/105	1300	1200
LWYSK250-4P-001	220	50	250	4	95/100/105	1500	1400





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130mm Air Conditioner Motor-Single Shaft

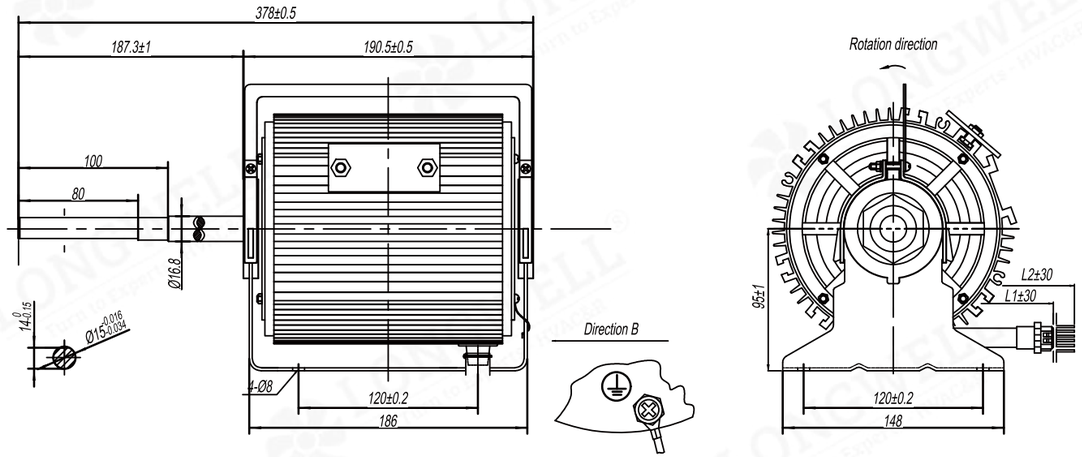
Product Characteristic

- Housing Material: Aluminum
- Insulation Class: B/F
- Protection Class: IP54/55



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYDK300-4P-001	220	50	300	4	95	1000	900
LWYDK350-4P-001	220	50	350	4	95	1200	1100
LWYDK400-4P-001	220	50	400	4	95	1300	1200
LWYDK450-4P-001	220	50	450	4	95	1500	1400
LWYDK500-4P-001	220	50	500	4	95	1500	1400
LWYDK750-4P-001	220	50	750	4	95	1800	1700



130mm Air Conditioner Motor-Double Shaft

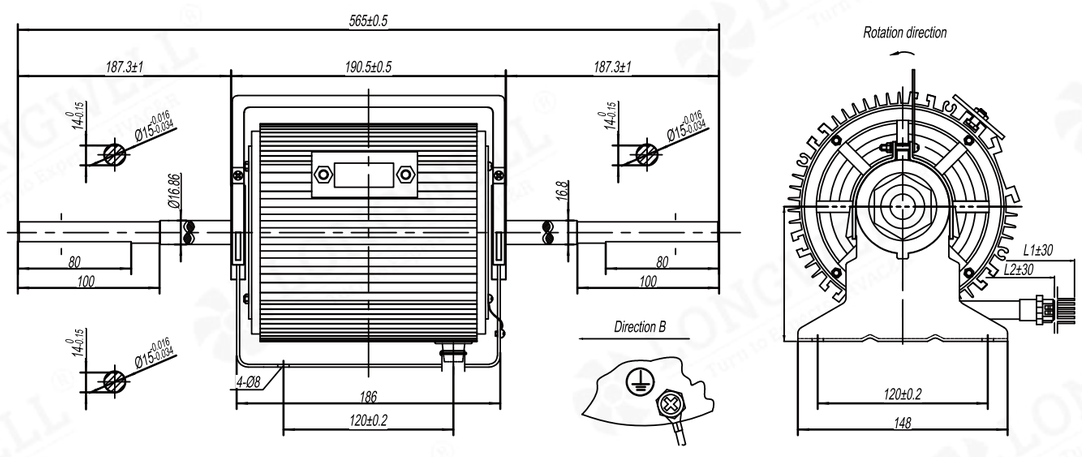
Product Characteristic

- Housing Material: Aluminum
- Insulation Class: B/F
- Protection Class: IP54/55



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWYSK300-4P-001	220	50	300	4	95	1000	900
LWYSK350-4P-001	220	50	350	4	95	1200	1100
LWYSK400-4P-001	220	50	400	4	95	1300	1200
LWYSK450-4P-001	220	50	450	4	95	1500	1400
LWYSK500-4P-001	220	50	500	4	95	1500	1400
LWYSK750-4P-001	220	50	750	4	95	1800	1700



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EC92 Air Conditioner Motor-Double Shaft

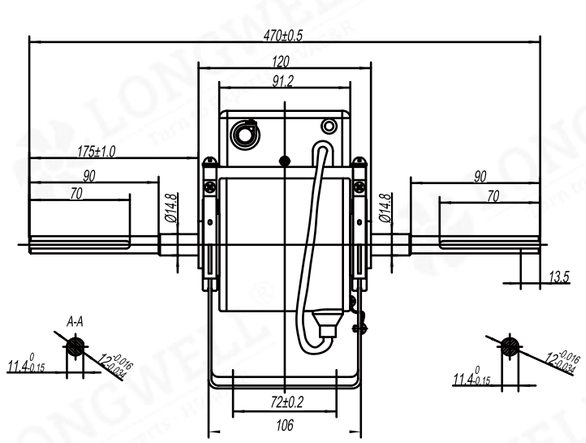
Product Characteristic

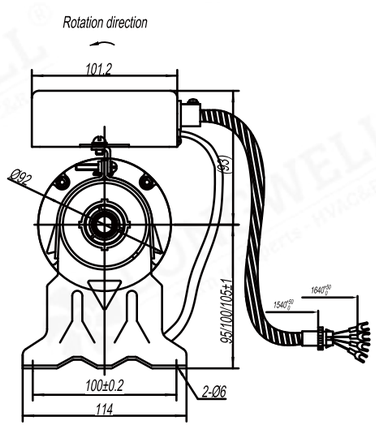
- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWBLSK80-8P-001	220-240	50/60	80	8	95/100/105	1540	1640





EC110 Air Conditioner Motor-Double Shaft

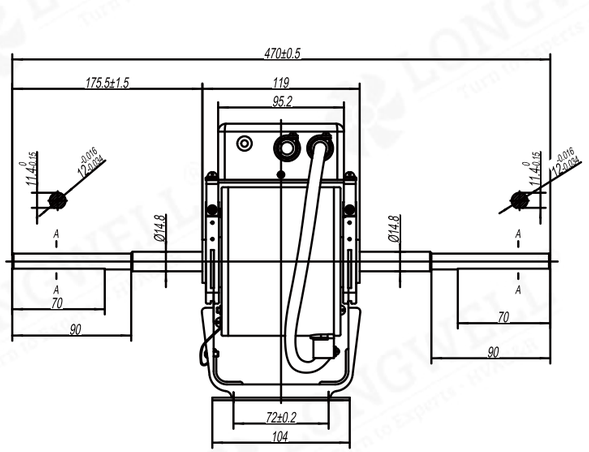
Product Characteristic

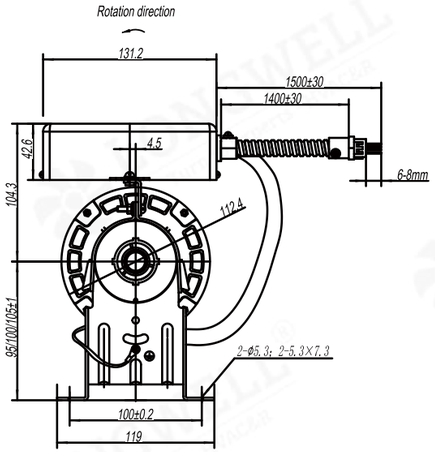
- Housing Material: Galvanized Sheet
- Insulation Class: B/F
- Protection Class: IP20/44



Technical Specifications

Model	Voltage (V)	Frequency (Hz)	Nominal Output Power (W)	Pole	Bracket Height (mm)	Line Length (mm)	Tube Length (mm)
LWBLSK200-8P-001	220-240	50/60	200	8	95/100/105	1500	1400





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Infrared Remote Control Panel Instructions



① The first line value:
H represents high level, M represents medium level, L represents low level; 49 represents the model number.
② The second line value:
In three-speed mode, 9.50V represents the speed control voltage value for the current gear, which is adjustable;
In three-speed constant speed mode, the value displayed is the rotational speed, adjustable between 300-1500.
③ Third line icons:
(selected via the hidden key)The fan symbol represents the selectable load size;T represents torque mode, V represents speed mode (this function is only available in stepless speed control on Model 50);The three arrows represent the selectable rotation direction.
④ Value Increase Key:
When the remote control is in idle mode (only two digits are displayed on the screen), it is used to select the model number. When the remote control is in operation, it is used to adjust the voltage value or rotational speed value.
⑤ Background Light Key:
Press once to turn on the backlight, and press again to turn it off.
⑥ LCD Screen:
Background lighting is optional.
⑦ Refresh Key (Valid in Three-Speed Mode):
While the remote control is in operation, pressing this key will send all the adjusted values of each speed level to the drive unit. After receiving the data, the drive unit stores it simultaneously. At this point, the motor stops rotating and, after approximately 8 seconds, automatically restarts.
⑧ Gear Shift Key (Valid in Three-Speed Mode):
While the system is running, each press of this key will cycle through the gears in sequence according to the order: H → M → L → H (High → Medium → Low → High).
⑨ Value Decrease Key:
Its functions are similar to those of the increase key.
⑩ Power On/Off Key:
Press briefly to start the remote control and enter operation mode.
Press and hold for more than 2 seconds to access the model selection interface, placing the remote control in idle mode.