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

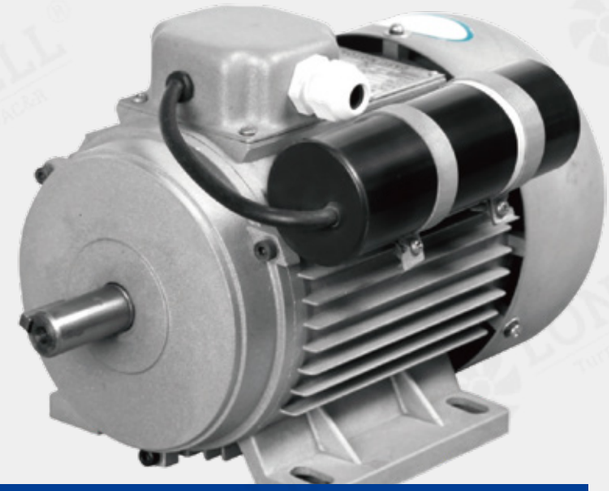
Headquarter: NO.100, South of Xuxiang River, Yuyao, Zhejiang Province, China 315400
Tell: +86 574 6218 9863
Fax: +86 574 6218 9863
Phone: 0086 183 5827 4663
Web: www.longwellfans.com | www.longwell-group.com | www.longwell-media.com
Email: sales@zjlongwell.com

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

—— **LWYC Series Capacitor-starting Single Phase Asynchronous Motor**

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

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https://www.longwellfans.com Email:sales@zjlongwell.com

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.

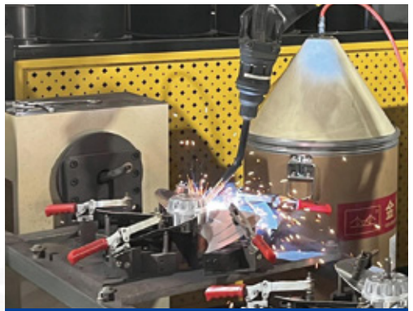
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials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

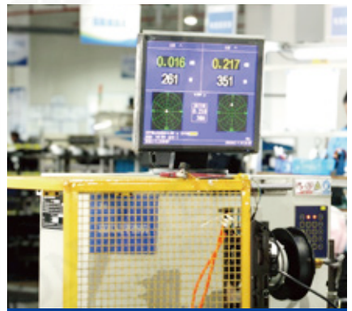
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

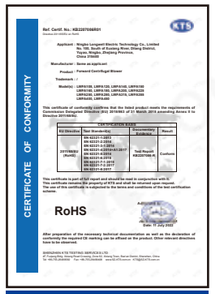

Own-Brand


Own-Brand


ETL


ETL

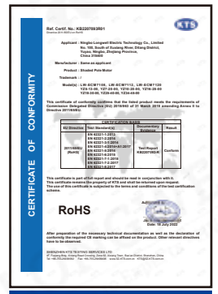

CE


RoHS


CE


CE


CE


RoHS


ETL


ETL


ETL


CE


CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


RoHS


RoHS


CE


CE


CE

LWYC Series Capacitor-starting Single Phase Asynchronous Motor

Professional HVAC Fan &Motors Manufacturer



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

Type Code

LW YC 100L2 - 2 - 001

- LW — Longwell
- YC — Capacitor-starting Single Phase Asynchronous Motor
- 100L2 — Centre Height of Frame Size
- 2 — Poles
- 001 — Series Number

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LWYC Series Capacitor-starting Single Phase Asynchronous Motor

Product Overview

LWYC series motor is designed and manufactured according to JB/T1011 national standard. It has many advantages such as high starting torque, good overload ability, simple structure and easy maintenance. It's widely used as power equipment in air compressor, water pump, washing machine, refrigerator and so on.

Technical Parameters

Centre Height of Frame Size: 71-100mm

Power Range: 0.12-2.2kw

Rated Voltage: 220V(special should order)

Rated Frequency: 50Hz(or 60Hz)

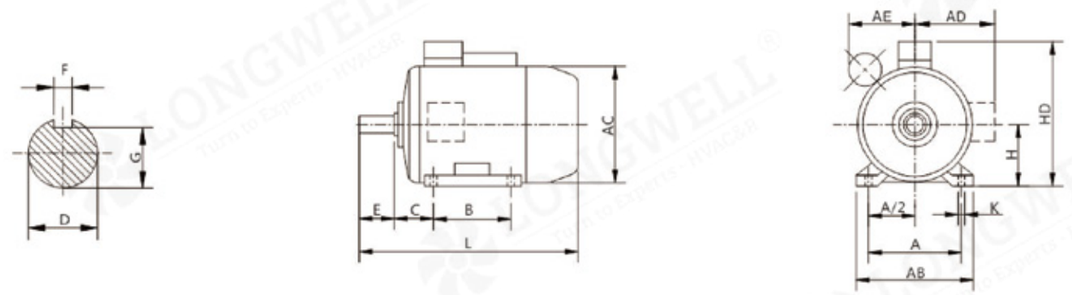
Protection Class: IP44

Insulation Class: B **Duty Type:** S1

Technical Data

Model	Rated power(W)	Rated current(A)	Rated Speed(r/min)	Efficiency (η%)	Power Factor (cosΦ)	Locked-rotor torque Rated torque(Tst/Tn)	Locked-rotor current(A)	Max. torque/Rated torque(Tmax/Tn)	Min. torque/Rated torque(Tmin/Tn)
LWYC7112-001	180	1.89	2800	60	0.72	3	12	1.8	1.0
LWYC7122-001	25	2.4	2800	64	0.74	3	15	1.8	1.0
LWYC8012-001	370	3.36	2800	65	0.77	2.8	21	1.8	1.0
LWYC8022-001	550	4.65	2800	68	0.79	2.8	29	1.8	1.0
LWYC90S-2-01	750	5.94	2800	70	0.8	2.5	37	1.8	1.0
LWYC90L-2-001	1100	8.47	2800	72	0.8	2.5	60	1.8	1.0
LWYC100L1-2-001	1500	11.4	2900	74	0.81	2.5	80	1.8	1.0
LWYC100L2-2-001	2200	16.5	2900	75	0.81	2.2	120	1.8	1.0
LWYC112M-2-001	3000	21.9	2900	76	0.82	2.2	150	1.8	1.0
LWYC132S-2-001	3700	26.6	2900	77	0.82	3	175	1.8	1.0
LWYC7114-001	120	1.88	1400	50	0.58	2.8	9	1.8	1.0
LWYC7124-001	180	2.49	1400	53	0.62	2.8	12	1.8	1.0
LWYC8014-001	250	3.11	1400	58	0.63	2.5	15	1.8	1.0
LWYC8024-001	370	4.24	1400	62	0.64	2.5	21	1.8	1.0
LWYC90S-4-001	550	5.57	1400	66	0.69	2.5	29	1.8	1.0
LWYC90L-4-001	750	6.77	1400	68	0.73	2.5	37	1.8	1.0
LWYC100L1-4-001	1100	9.5	1400	71	0.74	2.5	60	1.8	1.0
LWYC100L2-4-001	1500	12.5	1400	73	0.75	2.5	80	1.8	1.0
LWYC112M-4-001	2200	17.8	1400	74	0.76	2.2	120	1.8	1.0
LWYC132S-4-001	3000	23.6	1400	75	0.77	2.2	150	1.8	1.0
LWYC132M-4-001	3700	23	1400	76	0.79	2.2	175	1.8	1.0

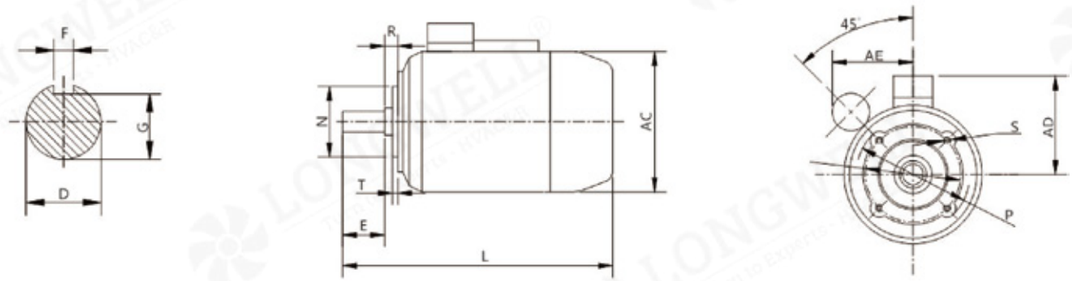
Outline and Mounting Dimensions of LWYC Series Capacitor-starting Single Phase Asynchronous Motor



Electric motor with foot-mounted frame and no flange on the end shield unit: mm

Frame	A	A/2[a]	B	C	D	E	F	G	H	K	AB	AC	AD	AE	HD	L
71	112	56	90	45	14	30	5	11	71	7	145	145	140	95	180	255
80	125	62.5	100	50	19	40	6	15.5	80	7	160	165	150	110	200	295
90S	140	70	100	56	24	50	8	20	90	10	180	185	160	120	240	370
90L	140	70	125	56	24	50	8	20	90	10	180	185	160	120	240	400
100L	160	80	125	63	28	60	8	24	100	12	205	200	180	130	260	430
112M	190	95	140	70	28	60	8	24	112	12	245	250	190	140	300	455
132S	216	108	140	89	38	80	10	30	132	12	280	290	210	155	350	525
132M	216	108	178	89	38	80	10	30	132	12	280	290	210	155	350	565

Note: The terminal box is located on the top of the motor. It can also be placed on the side as required by the customer; the dashed line in the drawing indicates the side-mounted terminal box.
Note: For frame size 100 and above, lifting rings must be installed
a. When the foot hole K is an elongated (slotted) hole or the positional tolerance is acceptable, A/2 is not considered

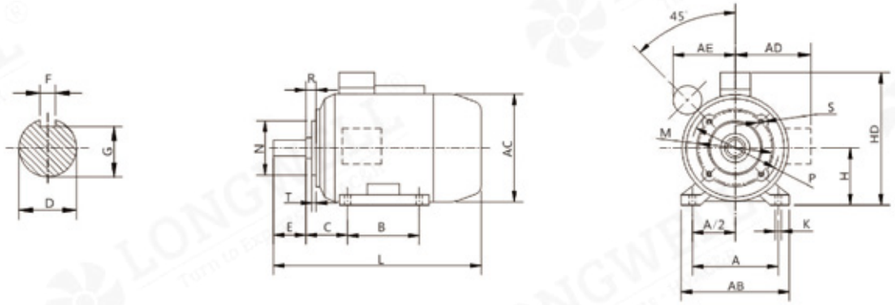


Electric motor with a footless frame and a small flanged end shield (with threaded holes) unit: mm

Frame	Flange Size	Mounting Dimension										Figure Size			
		D	E	F	G	M	N	P[a]	R[b]	S	T	AC	AD	AE	L
71	FF85	14	30	5	11	85	70	105	0	M6	2.5	145	140	95	255
80	FF100	19	40	6	15.5	100	80	120	0	M6	3.0	165	150	110	295
90S	FF115	24	50	8	20	115	95	140	0	M8	3.0	185	160	120	370
90L	FF115	24	50	8	20	115	95	140	0	M8	3.0	185	160	120	400

a. The P dimension is the maximum limit value
b. R is the distance from the flange mating surface to the shaft extension shoulder

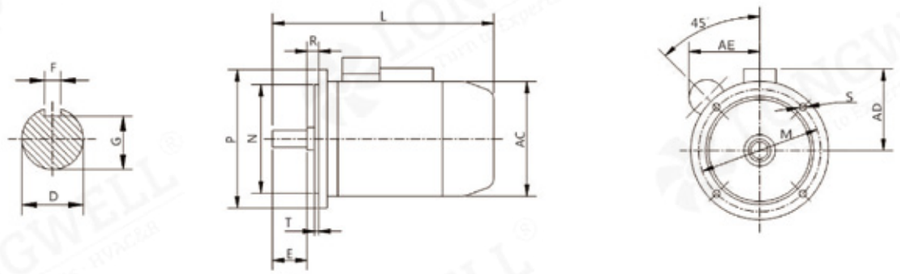
Outline and Mounting Dimensions of LWYC Series Capacitor-starting Single Phase Asynchronous Motor



Electric motor with foot-mounted frame and a small flanged end shield (with threaded holes) unit: mm

Frame	Flange Size	Mounting Dimension																Figure Size					
		A	A/2[a]	B	C	D	E	F	G	H	K	M	N	P[b]	R[c]	S	T	AB	AC	AD	AE	HD	L
71	FF85	112	56	90	45	14	30	5	11	71	7	85	70	105	0	M6	2.5	145	145	140	95	180	255
80	FF100	125	62.5	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	3.0	160	165	150	110	200	295
90S	FF115	140	70	100	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	180	185	160	120	240	370
90L	FF115	140	70	125	56	24	50	8	20	90	10	115	95	140	0	M8	3.0	180	185	160	120	240	400

Note: The terminal box is located on the top of the motor. It can also be placed on the side as required by the customer.
The dashed line in the drawing indicates the side-mounted terminal box.
a. When the foot hole K is an elongated (slotted) hole or the positional tolerance is acceptable, A/2 is not considered
b. The P dimension is the maximum limit value
c. R is the distance from the flange mating surface to the shaft extension shoulder

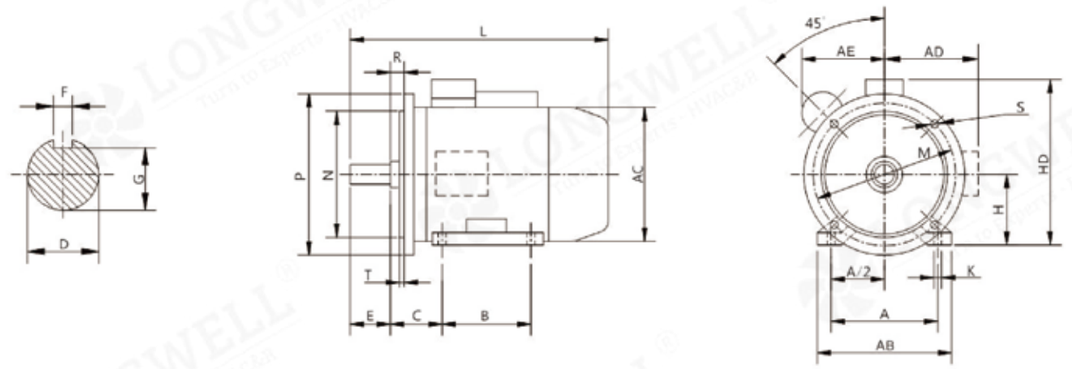


Electric motor with a footless frame and a large flanged end shield (with through holes) unit: mm

Frame	Flange Size	Mounting Dimension										Figure Size		
		D	E	F	G	M	N	P[a]	R[b]	S	T	AC	AD	AE	L
71	FF130	14	30	5	11	130	110	160	0	10	3.5	145	140	95	255
80	FF165	19	40	6	15.5	165	130	200	0	10	3.5	165	150	110	295
90S	FF165	24	50	8	20	165	130	200	0	10	3.5	185	160	120	370
90L	FF165	24	50	8	20	165	130	200	0	10	3.5	185	160	120	400
100L	FF215	28	60	8	24	215	180	250	0	15	4.0	220	180	130	430
112M	FF215	28	60	8	24	215	180	250	0	15	4.0	250	190	140	455
132S	FF265	38	80	10	33	265	230	300	0	15	4.0	290	210	155	525
132M	FF265	38	80	10	33	265	230	300	0	15	4.0	290	210	155	565

Note: Lifting rings must be installed for frame size 100 and above
a. The P dimension is the maximum limit value
b. R is the distance from the flange mating surface to the shaft extension shoulder

Outline and Mounting Dimensions of LWYC Series Capacitor-starting Single Phase Asynchronous Motor



Electric motor with foot-mounted frame and a large flanged end shield (with through holes) unit: mm

Frame	Flange Size	Mounting Dimension																Figure Size					
		A	A/2[a]	B	C	D	E	F	G	H	K	M	N	P[b]	R[c]	S	T	AB	AC	AD	AE	HD	L
90S	FF165	140	70	100	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	160	120	240	335
90L	FF165	140	70	125	56	24	50	8	20	90	10	165	130	200	0	12	3.5	180	185	160	120	240	360
100L	FF215	160	80	140	63	28	60	8	24	100	12	215	180	250	0	15	4.0	205	220	180	130	260	430
112M	FF215	190	95	140	70	28	60	8	24	112	12	215	180	250	0	15	4.0	245	250	190	140	300	455
132S	FF265	216	108	140	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	290	210	155	350	525
132M	FF265	216	108	178	89	38	80	10	33	132	12	265	230	300	0	15	4.0	280	290	210	155	350	565

Note: The terminal box is located on the top of the motor. It can also be placed on the side as required by the customer.
The dashed line in the drawing indicates the side-mounted terminal box.
Note: For frame size 100 and above, lifting rings must be installed.
a. When the foot hole K is an elongated (slotted) hole or the positional tolerance is acceptable, A/2 is not considered
b. The P dimension is the maximum limit value
c. R is the distance from the flange mating surface to the shaft extension shoulder