Engineered for the Critical

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



LONGWELL®
Turn to Experts - HVAC&R

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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

- **LWTYPM Series Variable Frequency Drive High-efficiency Rare Earth Permanent Magnet Synchronous Motor**
- **LWTYSPM Series Self-starting Three Phase Permanent Magnet Synchronous 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.

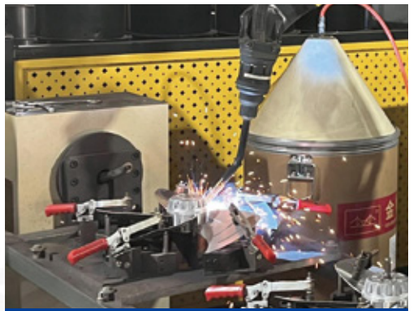
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials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

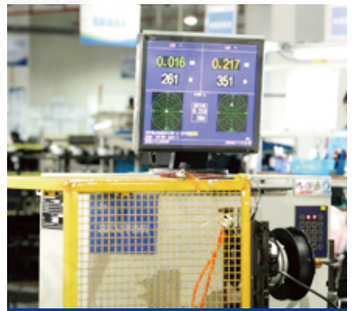
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

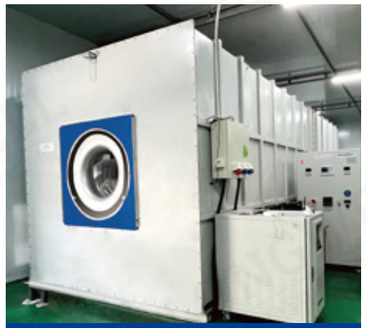

Automatic Welding


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
  EN 62321-7-1:2015/EN 62321-7-2:2017/EN 62321-8:2017







Enterprise Credit Evaluation Certificate - Hightest Level in China

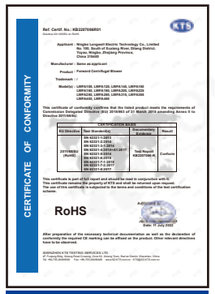

Own-Brand


Own-Brand


ETL


ETL

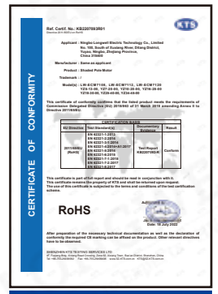

CE


RoHS


CE


CE


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ISO 9001


ISO 9001


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LONGWELL®
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LWTYPM Series of High Efficiency Rare Earth the Permanent Magnet Synchronous Conversion

Professional HVAC Fan &Motors Manufacturer



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Type Code

LW T Y PM - 280 M 1 - 001

- Series Number
- Core Length Code
- Frame Length Code
  S-Short frame M-Medium frame L-Long frame
- Frame Size
- Permanent Magnet
- Motor
- Synchronous
- Longwell

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LWTYPM Series of High Efficiency Rare Earth the Permanent Magnet Synchronous Motor

Product Overview

The efficiency index of the product reaches the first level energy efficiency standard of GB30253-2013 "Energy efficiency limit value and energy efficiency grade of permanent magnet synchronous motor". The frequeny conversion drive brushless electric motor has the advantages of high efficiency. comprehensive power saving of 8% - 30%, simple structure, reliable operation, small volume and light weight.The combination of motor with power electronic technology and microcomputer control technology can improve the performance of motor to a new level, which is an important development direction of adjusting industrial structure in motor industry.

The motor is made of high-performance silicon steel sheet, super-high intrinsic coercive force rare-earth permanent magnet material, and has strong anti-demagnetization ability.

Technical Parameters

1) Basic Parameters

Centre Height of Frame Size: 90-355mm

Power Range: 1.5-355kw

Rated Voltage and Frequency: 380V 50Hz (other voltage and frequency can be customized)

Protection Level: IP55 or IP54

Thermal Grade: 155(F)

Working System: S1(can be customized)

Cooling Mode: IC411 IC416(can be customized)

Method: Y

2) Conditions of Use

Working Temperature: -15 ° C ~ 40 ° C

Altitude: not more than 1000m (special requirements, please put forward when ordering)

Main Technical Parameters of LWTYPM Series Variable Frequency Drive Permanent Magnet Synchronous Motor(380V)

Frame	3000 r/min				1500 r/min			
	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)
LWTYPM-90S1-001	1.5	2.76	4.8	88.9	1.1	2.01	7	89.5
LWTYPM-90S2-001	2.2	3.98	7	90.2	1.5	2.71	9.6	90.4
LWTYPM-90L-001	3	5.38	9.6	91.1	2.2	3.93	14	91.4
LWTYPM-100L1-001	3	5.38	9.6	91.1	2.2	3.93	14	91.4
LWTYPM-100L2-001	4	7.12	12.7	91.8	3	5.32	19.1	92.1
LWTYPM-100L3-001	5.5	9.7	17.5	92.6	4	7.04	25.5	92.8
LWTYPM-112M1-001	5.5	9.7	17.5	92.6	4	7.04	25.5	92.8
LWTYPM-112M2-001	7.5	13.13	23.9	93.3	5.5	9.62	35	93.4
LWTYPM-132S1-001	5.5	9.7	17.5	92.6	4	7.04	25.5	92.8
LWTYPM-132S2-001	7.5	13.13	23.9	93.3	5.5	9.62	35	93.4
LWTYPM-132M1-001	11	18.91	35	94	7.5	13.04	47.8	94
LWTYPM-132M2-001	15	25.66	47.8	94.5	11	18.79	70	94.6
LWTYPM-160M1-001	11	18.91	35	94				
LWTYPM-160M2-001	15	25.66	47.8	94.5	7.5	13.04	47.8	94
LWTYPM-160M3-001	18.5	31.51	58.9	94.9	11	18.79	70	94.6
LWTYPM-160L1-001	22	37.39	70	95.1	15	25.49	95.5	95.1
LWTYPM-160L2-001	30	50.78	95.5	95.5	18.5	31.38	117.8	95.3
LWTYPM-160L3-001	37	62.43	117.8	95.8	22	37.24	140.1	95.5
LWTYPM-180M1-001	22	37.39	70	95.1				
LWTYPM-180M2-001	30	50.78	95.5	95.5	18.5	31.38	117.8	95.3
LWTYPM-180M3-001	37	62.43	117.8	95.8	22	37.24	140.1	95.5
LWTYPM-180L1-001	45	75.77	143.3	96	30	50.56	191	95.9
LWTYPM-180L2-001	55	92.41	175.1	96.2	37	62.23	235.6	96.1
LWTYPM-200L1-001	37	62.43	117.8	95.8				
LWTYPM-200L2-001	45	75.77	143.3	96	30	50.56	191	95.9
LWTYPM-200L3-001	55	92.41	175.1	96.2	37	62.23	235.6	96.1
LWTYPM-200L4-001	75	125.62	238.8	96.5	45	75.53	286.5	96.3
LWTYPM-225S1-001	55	92.41	175.1	96.2	37	62.23	235.6	96.1
LWTYPM-225S2-001	75	125.62	238.8	96.5	45	75.53	286.5	96.3
LWTYPM-225M-001	90	149.01	286.5	96.6	55	92.12	350.2	96.5
LWTYPM-250M1-001	75	125.62	238.8	96.5	45	75.53	286.5	96.3
LWTYPM-250M2-001	90	149.01	286.5	96.6	55	92.12	350.2	96.5

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Main Technical Parameters of LWTYPM Series Variable Frequency Drive Permanent Magnet Synchronous Conversion(380V)

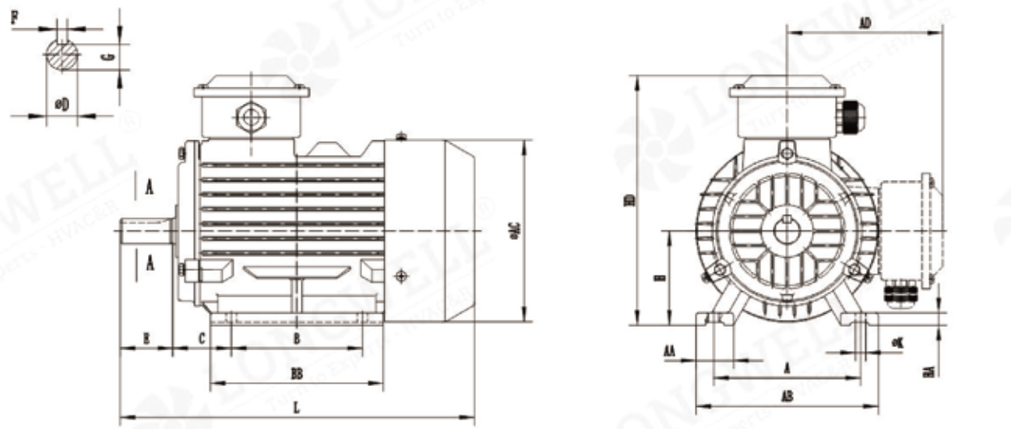
Frame	3000 r/min				1500 r/min			
	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)
LWTYPM-250M3-001	110	181.74	350.2	96.8	75	125.36	477.5	96.7
LWTYPM-250M4-001	132	217.87	420.2	96.9	90	148.55	573	96.9
LWTYPM-280S1-001	110	181.74	350.2	96.8	75	125.36	477.5	96.7
LWTYPM-280S2-001	132	217.87	420	96.9	90	148.55	573	96.9
LWTYPM-280M1-001	160	263.81	509.3	97	110	181.37	700.3	97
LWTYPM-280M2-001	200	325.66	636.7	97.2	132	217.42	840.4	97.1
LWTYPM-315S-001	160	263.81	509.3	97	110	181.37	700.3	97
LWTYPM-315M1-001	200	325.66	636.7	97.2	132	217.42	840.4	97.1
LWTYPM-315M2-001	250	407.07	795.8	97.2	160	263.27	1018.7	97.2
LWTYPM-315M3-001	315	512.91	1002.8	97.2	185	304.4	1177.8	97.2
LWTYPM-315L1-001	355	578.04	1130.1	97.2	200	324.99	1273.3	97.4
LWTYPM-315L2-001	400	651.31	1273.3	97.2	250	406.24	1591.7	97.4
LWTYPM-355S1-001					250	406.24	1591.7	97.4
LWTYPM-355S2-001					315	511.86	2005.5	97.4
LWTYPM-355M1-001					355	576.86	2260.2	97.4
LWTYPM-355M2-001					400	649.98	2546.7	97.4

Frame	1000 r/min				750 r/min			
	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)
LWTYPM-90S1-002	0.75	1.43	7.2	85.7				
LWTYPM-90S2-002	1.1	2.06	10.5	87.2	0.55	1.11	7	80.6
LWTYPM-90L-002	1.5	2.77	14.3	88.4	0.75	1.49	9.6	82
LWTYPM-100L1-002	1.5	2.77	14.3	88.4	0.75	1.49	9.6	82
LWTYPM-100L2-002	2.2	4.01	21	89.7	1.1	2.14	14	84
LWTYPM-100L3-002	3	5.41	28.7	90.6	1.5	2.87	19.1	85.5
LWTYPM-112M1-002	2.2	4.01	21	89.7	1.5	4.12	19.1	85.5
LWTYPM-112M2-002	3	5.41	28.7	90.6	2.2	4.12	28	87.2
LWTYPM-132S1-002	3	5.41	28.7	90.6	2.2	4.12	28	87.2
LWTYPM-132S2-002	4	7.15	38.2	91.4	3	5.54	38.2	88.4
LWTYPM-132M1-002	5.5	9.75	52.5	92.2	4	7.31	50.9	89.4
LWTYPM-132M2-002	7.5	13.19	71.6	92.9	5.5	9.94	70	90.4
LWTYPM-160M2-002	5.5	9.75	52.5	92.2	4	7.31	50.9	89.4
LWTYPM-160M3-002	7.5	13.19	71.6	92.9	5.5	9.94	70	90.4
LWTYPM-160L1-002	11	18.98	105.1	93.7	7.5	13.42	95.5	91.3
LWTYPM-160L2-002	15	25.71	143.3	94.3	11	19.28	140.1	92.2
LWTYPM-160L3-002	18.5	31.61	176.7	94.6	15	26.1	191	92.9
LWTYPM-180M2-002	15	25.71	143.3	94.3	11	19.28	140.1	92.2
LWTYPM-180M3-002	18.5	31.61	176.7	94.6	15	26.1	191	92.9
LWTYPM-180L1-002	22	37.47	210.1	94.9	18.5	32.05	235.6	93.3
LWTYPM-200L1-002	18.5	31.61	176.7	94.6	15	26.1	91	92.9
LWTYPM-200L2-002	22	37.47	210.1	94.9	18.5	32.05	235.6	93.3
LWTYPM-200L3-002	30	50.88	286.5	95.3	22	37.99	280.1	93.6
LWTYPM-200L4-002	37	62.56	353.4	95.6	30	51.53	382	94.1
LWTYPM-225S1-002	30	50.88	286.5	95.3	22	37.99	280.1	93.6
LWTYPM-225S2-002	37	62.56	353.4	95.6	30	51.53	382	94.1
LWTYPM-225M-002	45	75.93	429.8	95.8	37	63.35	471.1	94.4
LWTYPM-250M1-002	37	62.56	353.4	95.6	30	51.53	382	94.1
LWTYPM-250M2-002	45	75.93	429.8	95.8	37	63.35	471.1	94.4
LWTYPM-250M3-002	55	92.6	525.3	96	45	76.81	573	94.7
LWTYPM-250M4-002	75	125.89	716.3	96.3	55	93.68	700.3	94.9
LWTYPM-280S2-002	55	92.6	525.3	96	45	76.81	573	94.7
LWTYPM-280M1-002	75	125.89	716.3	96.3	55	93.68	700.3	94.9
LWTYPM-280M2-002	90	149.16	859.5	96.5	75	127.21	955	95.3
LWTYPM-315S-002	75	127.24	716.3	96.3	55	93.68	700.3	94.9
LWTYPM-315M1-002	90	149.16	859.5	96.5	75	127.21	955	95.3
LWTYPM-315M2-002	11	182.12	1050.5	96.6	90	150.72	1146	95.5
LWTYPM-315M3-002	132	218.09	1260.6	96.8	110	183.83	1400.7	95.7
LWTYPM-315L1-002	160	264.08	1528	96.9	132	220.14	1680.8	95.9
LWTYPM-315L2-002	200	326.33	1910	97	160	266.28	2037.3	96.1
LWTYPM-355S1-002	160	264.08	1528	96.9	132	220.14	1680.8	95.9
LWTYPM-355S2-002	200	326.33	1910	97	160	266.28	2037.3	96.1
LWTYPM-355M1-002	250	407.91	2387.5	97	200	328.7	2546.7	96.3
LWTYPM-355M2-002	315	513.97	3008.3	97	250	410.88	3183.3	96.3
LWTYPM-355L-002	400	652.66	3820	97	315	517.7	4011	96.3

Main Technical Parameters of LWTYPM Series Variable Frequency Drive Permanent Magnet Synchronous Conversion(380V)

Frame	600 r/min				500 r/min			
	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)	Rated Power (KW)	Rated Current (A)	Rated Torque (N.m)	Efficiency (%)
LWTYPM-90S2-003	0.55	1.18	8.8	77.2				
LWTYPM-90L-003	0.75	1.58	11.9	78.5	0.75	1.61	14.3	76.9
LWTYPM-100L2-003	0.75	1.58	11.9	78.5	0.75	1.61	14.3	76.9
LWTYPM-100L3-003	1.1	2.25	17.5	80.9	1.1	2.29	21	79.3
LWTYPM-112M1-003	1.1	2.25	17.5	80.9				
LWTYPM-112M2-003	1.5	3	23.9	82.7	1.1	2.29	21	79.3
LWTYPM-132S2-003	2.2	4.28	35	84.8	1.5	3.06	28.7	81
LWTYPM-132M1-003	3	5.74	47.8	86.3	2.2	4.37	42	83.1
LWTYPM-132M2-003	4	7.56	63.7	87.4	3	5.86	57.3	84.5
LWTYPM-160M3-003	4	7.56	63.7	87.4	3	5.86	57.3	84.5
LWTYPM-160L1-003	5.5	10.25	87.5	88.6	4	7.71	76.4	85.7
LWTYPM-160L2-003	7.5	13.81	119.4	89.7	5.5	10.45	105.1	86.9
LWTYPM-160L3-003	11	19.81	175.1	90.7	7.5	14.04	143.3	88.2
LWTYPM-180M2-003	7.5	13.81	119.4	89.7				
LWTYPM-180M3-003	11	19.81	175.1	90.7	7.5	14.04	143.3	88.2
LWTYPM-180L1-003	15	26.78	238.8	91.5	11	20.12	210.1	89.3
LWTYPM-200L1-003	11	19.81	175.1	90.7	7.5	14.04	143.3	88.2
LWTYPM-200L2-003	15	26.78	238.8	91.5	11	20.12	210.1	89.3
LWTYPM-200L3-003	18.5	32.85	294.5	92	15	27.17	286.5	90.2
LWTYPM-200L4-003	22	38.94	350.2	92.3	18.5	33.29	353.4	90.8
LWTYPM-225S1-003	18.5	32.85	294.5	92	15	27.17	286.5	90.2
LWTYPM-225S2-003	22	38.94	350.2	92.3	18.5	33.29	353.4	90.8
LWTYPM-255M-003	30	52.76	477.5	92.9	22	39.45	420.2	91.1
LWTYPM-250M1-003	30	52.76	477.5	92.9				
LWTYPM-250M2-003	37	64.86	588.9	93.2	30	53.45	573	91.7
LWTYPM-250M3-003	45	78.55	716.3	93.6	37	65.71	706.7	92
LWTYPM-250M4-003	55	95.8	875.4	93.8	45	79.48	859.5	92.5
LWTYPM-280S1-003	37	64.86	588.9	93.2	30	53.45	573	91.7
LWTYPM-280S2-003	45	78.55	716.3	93.6	37	65.71	706.7	92
LWTYPM-280M1-003	55	95.8	875.4	93.8	45	79.48	859.5	92.5
LWTYPM-280M2-003	75	129.94	1193.8	94.3	55	96.93	1050.5	92.7
LWTYPM-315S-003	45	78.55	716.3	93.6	37	65.71	706.7	92
LWTYPM-315M1-003	55	95.8	875.4	93.8	45	79.48	859.5	92.5
LWTYPM-315M2-003	75	129.94	1193.8	94.3	55	96.93	1050.5	92.7
LWTYPM-315M3-003	90	153.94	1432.5	94.5	75	131.33	1432.5	93.3
LWTYPM-315L1-003	110	187.55	1750.8	94.8	90	155.59	1719	93.5
LWTYPM-315L2-003	132	224.59	2101	95	110	189.35	2101	93.9
LWTYPM-355S1-003	110	187.55	1750.8	94.8	90	155.59	1719	93.5
LWTYPM-355S2-003	132	224.59	2101	95	110	189.35	2101	93.9
LWTYPM-355M1-003	160	271.37	2546.7	95.3	132	226.74	2521.2	94.1
LWTYPM-355M2-003	200	334.59	3183.3	95.6	160	273.67	3056	94.5
LWTYPM-355L-003	250	418.24	3979.2	95.6	200	340.65	3820	94.9

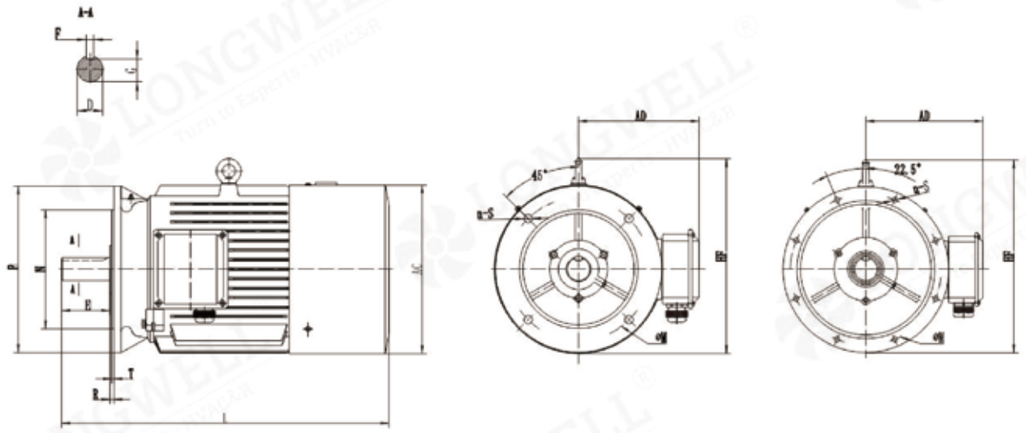
Mounting and Overall Dimensions(B3)



Frame	Poles	Mounting Dimension (mm)									Figure Size (mm)				
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
90S	2-6	140	100	56	24	50	8	20	90	10	180	180	175	265	355
90L	2-6	140	125	56	24	50	8	20	90	10	180	180	175	265	385
100L	2-6	160	140	63	28	60	8	24	100	12	200	200	200	295	435
112M	2-6	190	140	70	28	60	8	24	112	12	230	220	220	325	470
132S	2-8	216	140	89	38	80	10	33	132	12	262	260	240	365	510

Frame	Poles	Mounting Dimension (mm)									Flgure Size (mm)				
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
132M	2-8	216	178	89	38	80	10	33	132	12	262	260	240	365	560
160M	2-8	254	210	108	42	110	12	37	160	15	314	315	285	440	670
160L	2-8	254	254	108	42	110	12	37	160	15	314	315	285	440	700
180M	2-4	279	241	121	48	110	14	42.5	180	15	350	360	310	470	740
180L	4-8	279	279	121	48	110	14	42.5	180	15	350	360	310	470	780
200L	2-8	318	305	133	55	110	16	49	200	19	388	400	335	525	780
225S	4-8	356	286	149	60	140	18	53	225	19	431	450	370	580	820
225M	2	356	311	149	55	110	18	49	225	19	431	450	370	580	815
225M	4-8	356	311	149	60	140	18	53	225	19	431	450	370	580	845
250M	2	406	349	168	60	140	18	53	250	24	484	485	380	635	915
250M	4-8	406	349	168	65	140	18	58	250	24	484	485	380	635	915
280S	2	457	368	190	65	140	18	58	280	24	545	550	410	698	985
280S	4-8	457	368	190	75	140	20	67.5	280	24	545	550	410	698	985
280M	2	457	419	190	65	140	18	58	280	24	545	550	410	698	1035
280M	4-8	457	419	190	75	140	20	67.5	280	24	545	550	410	698	1035
315S	2	508	406	216	65	140	18	58	315	28	630	630	535	885	1200
315S	4-8	508	406	216	80	170	22	71	315	28	630	630	535	885	1230
315M	2	508	457	216	65	140	18	58	315	28	630	630	535	885	1310
315M	4-8	508	457	216	80	170	22	71	315	28	630	630	535	885	1340
315L	2	508	508	216	65	140	18	58	315	28	630	630	535	885	1310
315L	4-8	508	508	216	80	170	22	71	315	28	630	630	535	885	1340
355M	2	610	500	254	75	140	20	67.5	355	28	730	700	615	970	1530
355M	4-8	610	500	254	95	170	25	86	355	28	730	700	615	970	1560
355L	2	610	560	254	75	140	20	67.5	355	28	730	700	615	970	1530
355L	4-8	610	560	254	95	170	25	86	355	28	730	700	615	970	1560

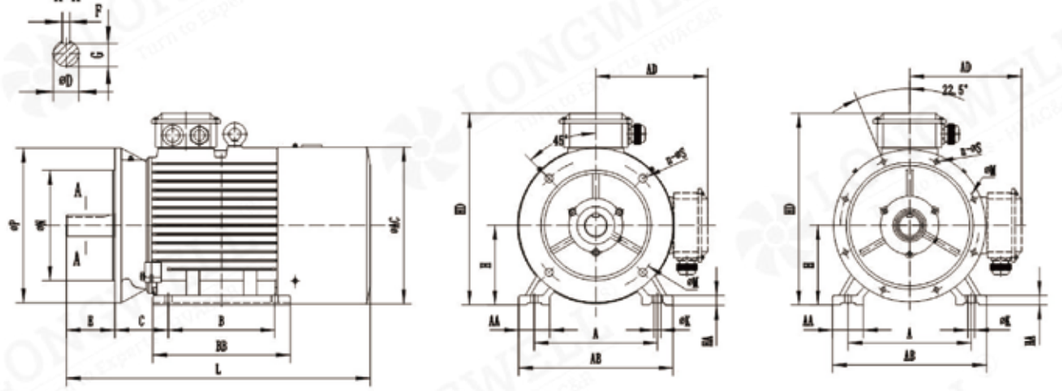
Mounting and Overall Dimensions(B5)



Frame	Poles	Mounting Dimension (mm)										Flgure Size (mm)			
		D	E	F	G	M	N	P	R	S	T	Y	AC	AD	L
90S	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	355
90L	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	385
100L	2-6	28	60	8	24	215	180	250	0	Φ15	4	M8	200	200	435
112M	2-6	28	60	8	24	215	180	250	0	Φ15	4	M10	220	220	470
132S	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	510
132M	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	560
160M	2-8	42	110	12	37	300	250	350	0	Φ19	5	M16	315	285	670
160L	2-8	42	110	12	37	300	250	350	0	Φ19	5	M16	315	285	700
180M	2-4	48	110	14	42.5	300	250	350	0	Φ19	5	M16	360	310	740
180L	4-8	48	110	14	42.5	300	250	350	0	Φ19	5	M16	360	310	780
200L	2-8	55	110	16	49	350	300	400	0	Φ19	5	M20	400	335	780
225S	4-8	60	140	18	53	400	350	450	0	Φ19	5	M20	450	370	820
225M	2	55	110	18	49	400	350	450	0	Φ19	5	M20	450	370	815
225M	4-8	60	140	18	53	400	350	450	0	Φ19	5	M20	450	370	845
250M	2	60	140	18	53	500	450	550	0	Φ19	5	M20	485	380	915
250M	4-8	65	140	18	58	500	450	550	0	Φ19	5	M20	485	380	915
280S	2	65	140	18	58	500	450	550	0	Φ19	6	M20	550	410	985
280S	4-8	75	140	20	67.5	500	450	550	0	Φ19	6	M20	550	410	985
280M	2	65	140	18	58	500	450	550	0	Φ19	6	M20	550	410	1035

Frame	Poles	Mounting Dimension (mm)										Flgure Size (mm)			
		D	E	F	G	M	N	P	R	S	T	Y	AC	AD	L
280M	4-8	75	140	20	67.5	500	450	550	0	Φ19	6	M20	550	410	1035
315S	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1200
315S	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1230
315M	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1310
315M	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1340
315L	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1310
315L	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1340
355M	2	75	140	20	67.5	740	680	800	0	Φ24	6	M20	700	615	1530
355M	4-8	95	170	25	86	740	680	800	0	Φ24	6	M20	700	615	1560
355L	2	75	140	20	67.5	740	680	800	0	Φ24	6	M20	700	615	1530
355L	4-8	95	170	25	86	740	680	800	0	Φ24	6	M20	700	615	1560

Mounting and Overall Dimensions(B35)

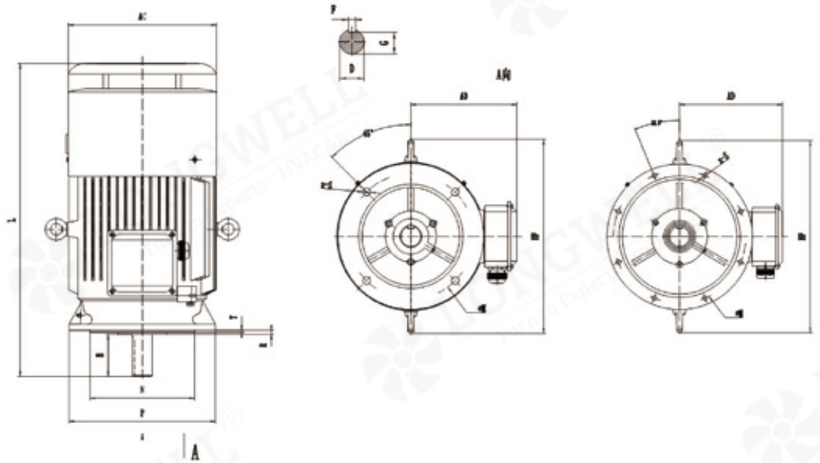


Frame	Poles	Mounting Dimension (mm)														Flgure Size (mm)					
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Y	AB	AC	AD	HD	L
90S	2-6	140	100	56	24	50	8	20	90	10	165	130	200	0	Φ12	3.5	M6	180	180	175	265	355
90L	2-6	140	125	56	24	50	8	20	90	10	165	130	200	0	Φ12	3.5	M6	180	180	175	265	385
100L	2-6	160	140	63	28	60	8	24	100	12	215	180	250	0	Φ15	4	M8	200	200	200	295	435
112M	2-6	190	140	70	28	60	8	24	112	12	215	180	250	0	Φ15	4	M10	230	220	220	325	470

Frame	Poles	Mounting Dimension (mm)																Flgure Size (mm)					
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Y	AB	AC	AD	HD	L
132S	2-8	216	140	89	38	80	10	33	132	12	265	230	300	0	Φ15	4	M12	262	260	240	365	510
132M	2-8	216	178	89	38	80	10	33	132	12	265	230	300	0	Φ15	4	M12	262	260	240	365	560
160M	2-8	254	210	108	42	110	12	37	160	15	300	250	350	0	Φ19	5	M16	314	315	285	440	670
160L	2-8	254	254	108	42	110	12	37	160	15	300	250	350	0	Φ19	5	M16	314	315	285	440	700
180M	2-4	279	241	121	48	110	14	42.5	180	15	300	250	350	0	Φ19	5	M16	350	360	310	470	740
180L	4-8	279	279	121	48	110	14	42.5	180	15	300	250	350	0	Φ19	5	M16	350	360	310	470	780
200L	2-8	318	305	133	55	110	16	49	200	19	350	300	400	0	Φ19	5	M20	388	400	335	525	780
225S	4-8	356	286	149	60	140	18	53	225	19	400	350	450	0	Φ19	5	M20	431	450	370	580	820
225M	2	356	311	149	55	110	18	49	225	19	400	350	450	0	Φ19	5	M20	431	450	370	580	815
225M	4-8	356	311	149	60	140	18	53	225	19	400	350	450	0	Φ19	5	M20	431	450	370	580	845
250M	2	406	349	168	60	140	18	53	250	24	500	450	550	0	Φ19	5	M20	484	485	380	635	915
250M	4-8	406	349	168	65	140	18	58	250	24	500	450	550	0	Φ19	5	M20	484	485	380	635	915
280S	2	457	368	190	65	140	18	58	280	24	500	450	550	0	Φ19	6	M20	545	550	410	698	985
280S	4-8	457	368	190	75	140	20	67.5	280	24	500	450	550	0	Φ19	6	M20	545	550	410	698	985
280M	2	457	419	190	65	140	18	58	280	24	500	450	550	0	Φ19	6	M20	545	550	410	698	1035
280M	4-8	457	419	190	75	140	20	67.5	280	24	500	450	550	0	Φ19	6	M20	545	550	410	698	1035
315S	2	508	406	216	65	140	18	58	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1200
315S	4-8	508	406	216	80	170	22	71	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1230
315M	2	508	457	216	65	140	18	58	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1310
315M	4-8	508	457	216	80	170	22	71	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1340
315L	2	508	508	216	65	140	18	58	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1310
315L	4-8	508	508	216	80	170	22	71	315	28	600	550	660	0	Φ24	6	M20	630	630	535	885	1340
355M	2	610	500	254	75	140	20	67.5	355	28	740	680	800	0	Φ24	6	M20	730	700	615	970	1530
355M	4-8	610	500	254	95	170	25	86	355	28	740	680	800	0	Φ24	6	M20	730	700	615	970	1560
355L	2	610	560	254	75	140	20	67.5	355	28	740	680	800	0	Φ24	6	M20	730	700	615	970	1530
355L	4-8	610	560	254	95	170	25	86	355	28	740	680	800	0	Φ24	6	M20	730	700	615	970	1560

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Mounting and Overall Dimensions(V1)



Frame	Poles	Mounting Dimension (mm)										Flgure Size (mm)			
		D	E	F	G	M	N	P	R	S	T	Y	AC	AD	L
90S	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	405
90L	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	435
100L	2-6	28	60	8	24	215	180	250	0	Φ15	4	M8	200	200	485
112M	2-6	28	60	8	24	215	180	250	0	Φ15	4	M10	220	220	520
132S	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	560
132M	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	610
160M	2-8	42	110	12	37	300	250	350	0	Φ19	5	M16	315	285	720
160L	2-8	42	110	12	37	300	250	350	0	Φ19	5	M16	315	285	750
180M	2-4	48	110	14	42.5	300	250	350	0	Φ19	5	M16	360	310	790
180L	4-8	48	110	14	42.5	300	250	350	0	Φ19	5	M16	360	310	830
200L	2-8	55	110	16	49	350	300	400	0	Φ19	5	M20	400	335	830
225S	4-8	60	140	18	53	400	350	450	0	Φ19	5	M20	450	370	870
225M	2	55	110	18	49	400	350	450	0	Φ19	5	M20	450	370	865
225M	4-8	60	140	18	53	400	350	450	0	Φ19	5	M20	450	370	895
250M	2	60	140	18	53	500	450	550	0	Φ19	5	M20	485	380	965
250M	4-8	65	140	18	58	500	450	550	0	Φ19	5	M20	485	380	965
280S	2	65	140	18	58	500	450	550	0	Φ19	6	M20	550	410	1035
280S	4-8	75	140	20	67.5	500	450	550	0	Φ19	6	M20	550	410	1035
280M	2	65	140	18	58	500	450	550	0	Φ19	6	M20	550	410	1085
280M	4-8	75	140	20	67.5	500	450	550	0	Φ19	6	M20	550	410	1085
315S	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1250
315S	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1280
315M	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1360
315M	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1390
315L	2	65	140	18	58	600	550	660	0	Φ24	6	M20	630	535	1360
315L	4-8	80	170	22	71	600	550	660	0	Φ24	6	M20	630	535	1390
355M	2	75	140	20	67.5	740	680	800	0	Φ24	6	M20	700	615	1580
355M	4-8	95	170	25	86	740	680	800	0	Φ24	6	M20	700	615	1610
355L	2	75	140	20	67.5	740	680	800	0	Φ24	6	M20	700	615	1580
355L	4-8	95	170	25	86	740	680	800	0	Φ24	6	M20	700	615	1610

LWTYSPM Series Self-starting Three Phase Permanent Magnet Synchronous Motor

Professional HVAC Fan &Motors Manufacturer



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Type Code

LW T Y S PM - 132 S 2 - 2 - 001

- LW — Longwell
- T — Synchronous
- Y — New Dimensions of Y Series
- S — Self-starting
- PM — Permanent Magnet
- 132 — Frame Size
- S — Frame Length Code
  S-Short frame M-Medium frame
  L-Long frame
- 2 — Core Length Code
- 2 — Poles
- 001 — Series Number

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LWTYSPM Series Self-starting Three Phase Permanent Magnet Synchronous Motor

Product Overview

TYSPM series asynchronous starting three-phase brushless electric motor efficiency indicators meet the GB30253-2013 "Brushless electric motor limits and energy efficiency levels" level 1 standards. The product has the advantages of novel design, high efficency and torque, good starting performance, energy saving, low noise, safe and reliable operation.

This series of products are widely used in petrochemical, electric power transportation, textile and other industrial and mining enterprises, used to drive fans, pumps, compressors, belt machines, machine tools and other machinery.

Technical Parameters

1) Basic Parameters

Centre Height of Frame Size: 80-132mm

Power Range: 1.5-7.5kw

Rated Voltage and Frequency: 380V 50Hz (other voltage and frequency can be customized)

Protection Level: IP55 or IP54

Thermal Grade: 155(F)

Working System: S1(can be customized)

Cooling Mode: IC411 IC416(can be customized)

Method: Y is 3KW and below, △ is 3KW and above.

2) Conditions of Use

Working Temperature: -15 ° C ~ 40 ° C

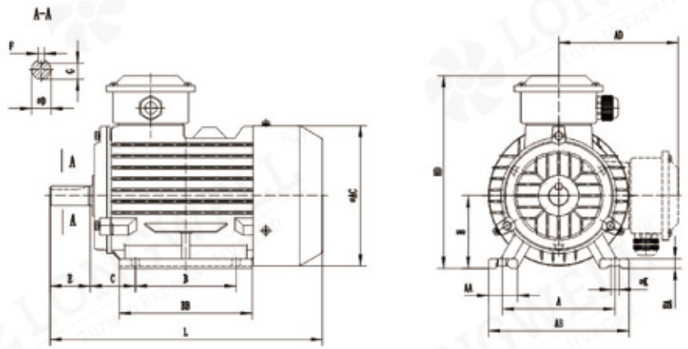
Altitude: not more than 1000m (special requirements, please put forward when ordering)

Main Technical Parameters of LWTYSPM Series Asynchronous Self-startmg Three-phase Permanent Magnet Synchronous Motor(380V)

Model	Rated Power(KW)	Rated Voltage(V)	Rated Current(A)	Rated Frequency(Hz)	Rated Speed(r/min)	Efficiency (η%)	Power Factor(cos)	Rated Torque(N.m)
LWTYSPM-90S-2-001	1.5/2.0	380	3.10	50	2860	86.5	0.85	5.0
LWTYSPM-90L-2-001	2.2/3.0	380	4.42	50	2860	88	0.86	7.3
LWTYSPM-100L-2-001	3/4.0	380	5.88	50	2880	89.1	0.87	9.9
LWTYSPM-112M-2-001	4/5.5	380	7.67	50	2890	90	0.88	13.2
LWTYSPM-132S1-2-001	5.5/7.5	380	10.45	50	2900	90.9	0.88	18.1
LWTYSPM-132S2-2-001	7.5/10	380	13.96	50	2900	91.7	0.89	24.7
LWTYSPM-80M2-4-001	0.75/1.0	380	1.80	50	1390	85.7	0.74	5.2
LWTYSPM-90S-4-001	1.1/1.5	380	2.56	50	1400	87.2	0.75	7.5
LWTYSPM-90L-4-001	1.5/2.0	380	3.40	50	1400	88.2	0.76	10.2
LWTYSPM-100L1-4-001	2.2/3.0	380	4.73	50	1420	89.5	0.79	14.8
LWTYSPM-100L2-4-001	3/4.0	380	6.30	50	1420	90.4	0.80	20.2
LWTYSPM-112M-4-001	4/5.5	380	8.34	50	1430	91.1	0.80	26.7
LWTYSPM-132S-4-001	5.5/7.5	380	11.37	50	1450	91.9	0.80	36.2
LWTYSPM-132M-4-001	7.5/10	380	15.19	50	1450	92.6	0.81	49.4
LWTYSPM-90S-6-001	0.75/1.0	380	1.97	50	910	82.7	0.7	7.9
LWTYSPM-90L-6-001	1.1/1.5	380	2.83	50	910	84.5	0.7	11.5
LWTYSPM-100L-6-001	1.5/2.0	380	3.74	50	930	85.9	0.71	15.4
LWTYSPM-112M-6-001	2.2/3.0	380	5.39	50	940	87.4	0.71	22.4
LWTYSPM-132S-6-001	3/4.0	380	7.25	50	960	88.6	0.71	29.8
LWTYSPM-132M1-6-001	4/5.5	380	9.43	50	960	89.5	0.72	39.8
LWTYSPM-132M2-6-001	5.5/7.5	380	12.82	50	960	90.5	0.72	54.7
LWTYSPM-100L1-8-001	0.75/1.0	380	2.20	50	690	78.4	0.66	10.4
LWTYSPM-100L2-8-001	1.1/1.5	380	3.09	50	690	80.8	0.67	15.2
LWTYSPM-112M-8-001	1.5/2.0	380	4.00	50	690	82.6	0.69	20.8
LWTYSPM-132S-8-001	2.2/3.0	380	5.65	50	710	84.5	0.70	29.6
LWTYSPM-132M-8-001	3/4.0	380	7.58	50	710	85.9	0.70	40.4

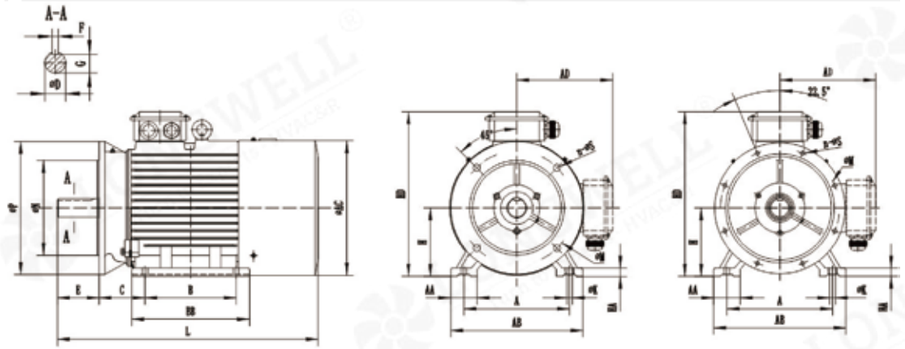
Ningbo Longwell Electric Technology Co., Ltd
https://www.longwellfans.com Email:sales@zjlongwell.com

Mounting and Overall Dimensions(B3)



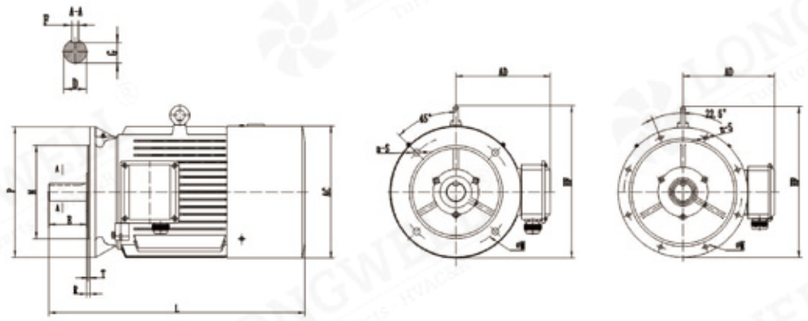
Frame	Poles	Mounting Dimension (mm)									Flgure Size (mm)				
		A	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L
90S	2-6	140	100	56	24	50	8	20	90	10	180	180	175	265	355
90L	2-6	140	125	56	24	50	8	20	90	10	180	180	175	265	385
100L	2-6	160	140	63	28	60	8	24	100	12	200	200	200	295	435
112M	2-6	190	140	70	28	60	8	24	112	12	230	220	220	325	470
132S	2-8	216	140	89	38	80	10	33	132	12	262	260	240	365	510
132M	2-8	216	178	89	38	80	10	33	132	12	262	260	240	365	560

Mounting and Overall Dimensions(B35)



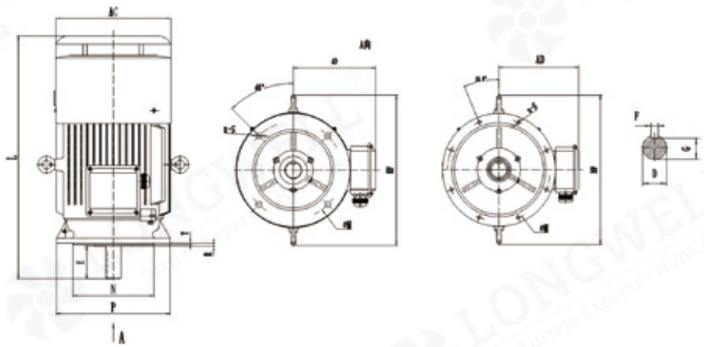
Frame	Poles	Mounting Dimension (mm)															Flgure Size (mm)				
		A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	Y	AB	AC	AD	HD	L
90S	2-6	140	100	56	24	50	8	20	90	10	165	130	200	0	Φ12	3.5	M6	180	180	175	265	355
90L	2-6	140	125	56	24	50	8	20	90	10	165	130	200	0	Φ12	3.5	M6	180	180	175	265	385
100L	2-6	160	140	63	28	60	8	24	100	12	215	180	250	0	Φ15	4	M8	200	200	200	295	435
112M	2-6	190	140	70	28	60	8	24	112	12	215	180	250	0	Φ15	4	M10	230	220	220	325	470
132S	2-8	216	140	89	38	80	10	33	132	12	265	230	300	0	Φ15	4	M12	262	260	240	365	510
132M	2-8	216	178	89	38	80	10	33	132	12	265	230	300	0	Φ15	4	M12	262	260	240	365	560

Mounting and Overall Dimensions(B5)



Frame	Poles	Mounting Dimension (mm)									Flgure Size (mm)				
		D	E	F	G	M	N	P	R	S	T	Y	AC	AD	L
90S	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	355
90L	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	385
100L	2-6	28	60	8	24	215	180	250	0	Φ15	4	M8	200	200	435
112M	2-6	28	60	8	24	215	180	250	0	Φ15	4	M10	220	220	470
132S	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	510
132M	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	560

Mounting and Overall Dimensions(V1)



Frame	Poles	Mounting Dimension (mm)										Flgure Size (mm)			
		D	E	F	G	M	N	P	R	S	T	Y	AC	AD	L
90S	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	405
90L	2-6	24	50	8	20	165	130	200	0	Φ12	3.5	M6	180	175	435
100L	2-6	28	60	8	24	215	180	250	0	Φ15	4	M8	200	200	485
112M	2-6	28	60	8	24	215	180	250	0	Φ15	4	M10	220	220	520
132S	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	560
132M	2-8	38	80	10	33	265	230	300	0	Φ15	4	M12	260	240	610