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®
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LONGWELL TECHNOLOGY

The Ventilation and Drive Technology Partner for Mission-Critical Environments



Professional Manufacturer of HVACR Fan & Motors

—— **LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous 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.

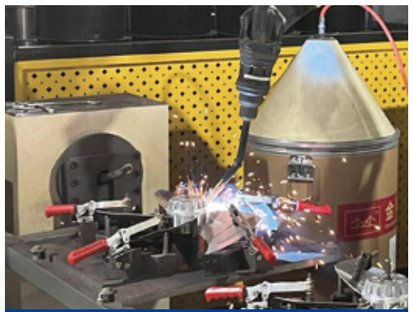
At LONGWELL, innovation is at the core of our operations, driving continuous improvement. With our extensive experience and expertise, we can quickly customize solutions that meet customer needs. We emphasize technological sophistication, utilizing advanced technologies and high-performance materials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

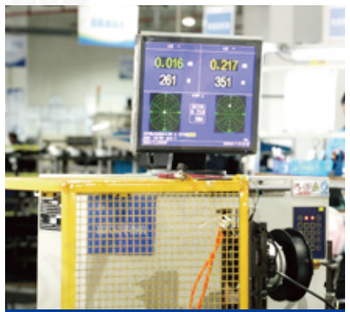
LONGWELL looks forward to collaborating with you and providing high-quality customized fan and motor solutions. Please feel free to contact us as we work together to create a brighter future.

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

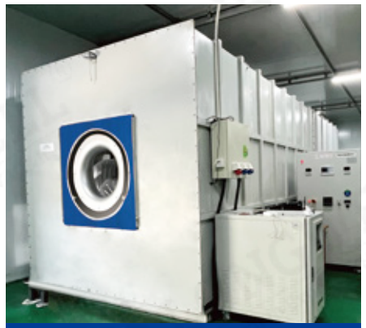


Balance Machine


Automatic Welding Machine


Production Line - Centrifugal Fan


Automatic CNC Machine


Air Dynamic Test Lab


Production Line - Axial Fans


Production Line

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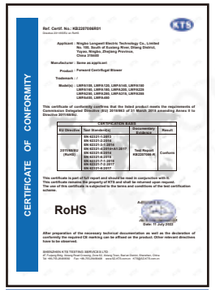
Testing and Standards

- 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





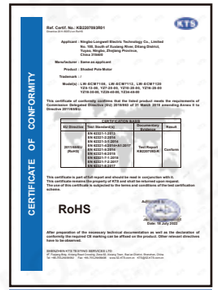
Enterprise Credit Evaluation Certificate - Hightest Level in China


RoHS

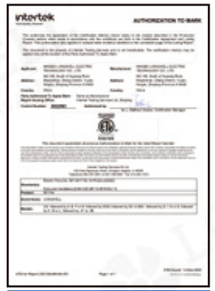

CE


CE


CE


RoHS


ETL


ETL


ETL


CE

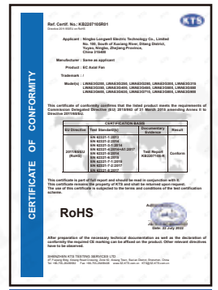

CE


ISO 9001


ISO 9001


RoHS


RoHS


RoHS


Own-Brand


Own-Brand


ETL


ETL


CE


RoHS


RoHS


CE


CE


CE

LWYEJ2 Series Electromagnetic Brake Three 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 YEJ2 - 160M1 - 2 - 001

- 001 — Series Number
- 2 — Poles
- 160M1 — Centre Height of Frame Size
- YEJ2 — Electromagnetic Brake Three Phase Asynchronous Motor
- LW — Longwell

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LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor

Product Overview

LWYEJ2 series motor is an improvement of LWYEJ series motor. The electrical property, mounting dimension, protection class and insulation class of this series. motor are in conformity with LWY2 series motor. It enables the motor to make a rapid brake when the power is off. It is widely used as spindle drive and helper drive in all kinds of machine tools, printing machinery, air forging press, transportation machinery, food machinery and construction machinery that demand quick stop, precise positioning, alternating running and avoid slipping.

Technical Parameters

1) Basic Parameters

Centre Height of Frame Size: 80-225mm **Power Range:** 0.55-45kw

Rated Voltage and Frequency: 380V 50Hz (special should order)

Rated Voltage of The Magnetic Brake:

Centre height of frame size<=100mm, AC 200V, after commutated 99V

Centre height of frame size>=112mm, AC 380V, after commutated 170V

Protection Class: IP44, The magnetic brake IP23 **Insulation Class:** I55(F)

Duty Type: S1(continuous), allow starting with full voltage

Types of Braking: braking when power off

Types of Rectification: half-wave rectification **Type of Cooling:** IC411

Power 3kw and below is star-connectionl, Power above 3kw is delta-connection

2) Conditions of Usage

Working Ambient Temperature: -15°C~40°C

The Altitude: Not above 1000m If any special please mention when placing order

Structure and Installation Method

Frame Size	Structure and Installation Method
80~160	B3, B5, B6, B7, B8, B35
180~225	B3, B5, B35

Technical Data of LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor

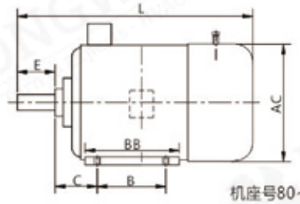
Model	Output Power(KW)	Speed (r/min)	Current (A)	Efficiency (η%)	Power Factor(cosΦ)	Static braking torque (N.m)	No-load brake lag time(s)	Energizing Power(W)	Locked-rotor Current/Rated Current(Ist/IN)	Locked-rotor Torque/Rated Torque(Tst/TN)	Max Torque Rated Torque (Tmax/TN)
380V/50Hz Synhronous speed 3000r/min(2 poles)											
LWYEJ2-801-2-001	0.75	2845	1.83	75	0.84	7.5	0.2	30	6.5	2.2	2.3
LWYEJ2-802-2-001	1.1	2840	2.55	76.2	0.86	7.5	0.2	30	7	2.2	2.3
LWYEJ2-90S-2-001	1.5	2840	3.42	78.581	0.85	15	0.2	50	7	2.2	2.3
LWYEJ2-90L-2-001	2.2	2840	4.8	81	0.86	15	0.2	50	7	2.2	2.3
LWYEJ2-100L-2-001	3	2860	6.34	82.6	0.87	30	0.2	65	7	2.2	2.3
LWYEJ2-112M-2-001	4	2880	8.3	84.3	0.87	40	0.25	90	7	2.2	2.3
LWYEJ2-132S1-2-001	5.5	2900	11.1	85.7	0.88	75	0.25	90	7	2	2.3
LWYEJ2-132S2-2-001	7.5	2900	14.9	87	0.88	75	0.25	90	7	2	2.3
LWYEJ2-160M1-2-001	11	2930	21.5	88.4	0.88	150	0.35	150	7	2	2.3
LWYEJ2-160M2-2-001	15	2930	29	89.4	0.88	150	0.35	150	7	2	2.2
LWYEJ2-160L-2-001	18.5	1930	35.1	90	0.89	150	0.35	150	7	2	2.2
LWYEJ2-180M-2-001	22	2940	41.5	90.5	0.89	200	0.35	200	7	2	2.2
LWYEJ2-200L1-2-001	30	2950	56	91.4	0.89	300	0.45	200	7	2	2.2
LWYEJ2-200L2-2-001	37	2950	68.7	92	0.89	300	0.45	200	7	2	2.2
LWYEJ2-225M-2-001	45	2970	83.1	92.5	0.89	450	0.45	200	7	2	2.2
380V/50Hz Synhronous speed 1500r/min(4 poles)											
LWYEJ2-801-4-001	0.55	1390	1.55	71	0.76	7.5	0.2	30	6	2.4	2.3
LWYEJ2-802-4-001	0.75	1390	2.05	73	0.76	7.5	0.2	30	6	2.3	2.3
LWYEJ2-90S-4-001	1.1	1380	2.81	76.2	0.78	15	0.2	50	6.5	2.3	2.3
LWYEJ2-90L-4-001	1.5	1390	3.67	78.5	0.79	15	0.2	50	6.5	2.3	2.3
LWYEJ2-100L1-4-001	2.2	1390	5.03	81	0.82	30	0.2	65	7	2.2	2.3
LWYEJ2-100L2-4-001	3	1410	6.81	82.6	0.81	30	0.2	80	7	2.2	2.3
LWYEJ2-112M-4-001	4	1410	8.8	84.2	0.82	40	0.25	90	7	2.2	2.3
LWYEJ2-132S-4-001	5.5	1435	11.6	85.7	0.84	75	0.25	90	7	2.2	2.3
LWYEJ2-132M-4-001	7.5	1440	15.4	87	0.85	75	0.25	150	7	2.2	2.3
LWYEJ2-160M-4-001	11	1440	22.5	88.4	0.84	150	0.35	150	7	2.2	2.3
LWYEJ2-160L-4-001	15	1460	30	89.4	0.85	150	0.35	150	7	2.2	2.2
LWYEJ2-180M-4-001	18.5	1470	36.3	90	0.86	200	0.35	150	7	2	2.2
LWYEJ2-180L-4-001	22	1470	42.9	90.5	0.86	200	0.35	150	7	2	2.2
LWYEJ2-200L-4-001	30	1470	57.3	91.4	0.87	300	0.35	200	7	2	2.2
LWYEJ2-225S-4-001	37	1480	70.2	92	0.87	450	0.35	200	7	1.9	2.2
LWYEJ2-225M-4-001	45	1480	84	92.5	0.88	450	0.35	200	7	1.9	2.2

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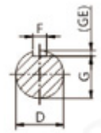
Technical Data of LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor

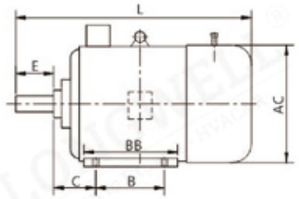
Model	Output Power(KW)	Speed (r/min)	Current (A)	Efficiency (η%)	Power Factor(cosΦ)	Static braking torque (N.m)	No-load brake lag time(s)	Energizing Power(W)	Locked-rotor Current/Rated Current(Ist/IN)	Locked-rotor Torque/Rated Torque(Tst/TN)	Max Torque Rated Torque (Tmax/TN)
380V/50Hz Synhronous speed 1000r/min(6 poles)											
LWYEJ2-801-6-001	0.4	885	1.30	62	0.70	7.5	0.2	30	4.7	1.9	2.0
LWYEJ2-802-6-001	0.6	885	1.79	65	0.72	7.5	0.2	30	4.7	1.9	2.1
LWYEJ2-90S-6-001	0.8	910	2.36	69	0.70	15	0.2	50	5.5	2.0	2.2
LWYEJ2-90L-6-001	1.1	910	3.22	72	0.72	15	0.2	50	5.5	2.0	2.2
LWYEJ2-100L-6-001	1.5	920	4.05	76	0.74	30	0.2	65	6.0	2.0	2.2
LWYEJ2-112M-6-001	2.2	935	5.72	79	0.74	40	0.25	90	6.0	2.0	2.2
LWYEJ2-132S-6-001	3	960	7.40	81	0.76	75	0.25	90	6.5	2.0	2.2
LWYEJ2-132M1-6-001	4	960	9.63	82	0.77	75	0.25	90	6.5	2.0	2.2
LWYEJ2-132M2-6-001	5.5	960	12.80	84	0.78	75	0.25	90	6.5	2.0	2.0
LWYEJ2-160M-6-001	7.5	970	17.00	86	0.78	150	0.35	150	6.5	2.0	2.0
LWYEJ2-160L-6-001	11	970	29.50	87.5	0.78	150	0.35	150	6.5	2.0	2.0
LWYEJ2-180L-6-001	15	970	31.60	89	0.81	200	0.35	150	6.5	1.8	2.0
LWYEJ2-200L1-6-001	18.5	970	37.60	90	0.83	300	0.45	200	6.5	1.8	2.0
LWYEJ2-200L2-6-001	22	970	44.70	90	0.83	300	0.45	200	6.5	1.8	2.0
LWYEJ2-225M-6-001	30	980	58.60	91.5	0.85	450	0.45	200	6.5	1.7	2.0
380V/50Hz Synhronous speed 1500r/min(4 poles)											
LWYEJ2-801-8-001	0.18	645	0.88	51	0.61	7.5	0.2	30	3.3	1.8	1.9
LWYEJ2-802-8-001	0.25	645	1.15	54	0.61	7.5	0.2	50	3.3	1.8	1.9
LWYEJ2-90S-8-001	0.37	670	1.49	62	0.61	15	0.2	50	4.0	1.8	1.9
LWYEJ2-90L-8-001	0.55	670	2.18	63	0.61	15	0.2	50	4.0	1.8	2.0
LWYEJ2-100L1-8-001	0.75	680	2.39	71	0.67	30	0.2	65	4.0	1.8	2.0
LWYEJ2-100L2-8-001	1.1	680	3.32	73	0.69	30	0.2	65	5.0	1.8	2.0
LWYEJ2-112M-8-001	1.5	690	4.4	75	0.69	40	0.25	90	5.0	1.8	2.0
LWYEJ2-132S-8-001	2.2	705	5.85	80.5	0.71	75	0.25	90	5.5	2.0	2.0
LWYEJ2-132M-8-001	3	705	7.72	82	0.72	75	0.25	90	5.5	2.0	2.0
LWYEJ2-160M1-8-001	4	720	9.91	84	0.73	150	0.35	150	6.0	2.0	2.0
LWYEJ2-160M2-8-001	5.5	720	13.3	85	0.74	150	0.35	150	6.0	2.0	2.0
LWYEJ2-160L-8-001	7.5	720	17.7	86	0.75	150	0.35	150	5.5	2.0	2.0
LWYEJ2-180L-8-001	11	730	24.8	87.5	0.77	200	0.35	150	6.0	1.7	2.0
LWYEJ2-200L-8-001	15	730	34.1	88	0.76	300	0.45	200	6.0	1.8	2.0
LWYEJ2-225SL-8-001	18.5	730	41.3	89.5	0.76	450	0.45	200	6.0	1.7	2.0
LWYEJ2-225M-8-001	22	740	47.6	90	0.78	450	0.45	200	6.0	1.8	2.0

Outline and Mounting Dimensions of LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor

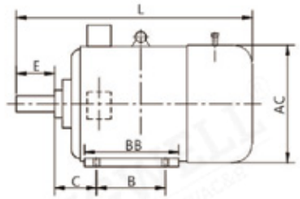


机座号80~90

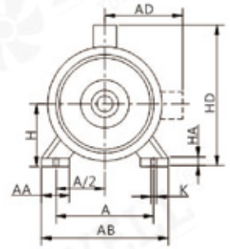




机座号100~132



机座号160~225



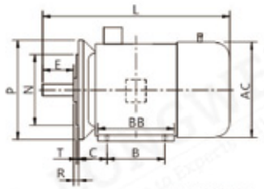
机座号80~225

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

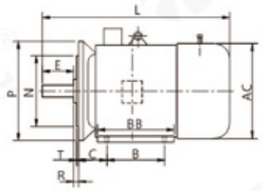
Frame	Poles	Mounting Dimension													Figure Size			
		A	A/2	B	C	D	E	F	G	H	K	AA	BB	AB	AC	AD	HD	L
80M	2.4.6.8	125	63	100	50	19	40	6	16	80	10	34	135	165	175	145	220	390
90S	2.4.6.8	140	70	100	56	24	50	8	20	90	10	36	140	180	195	155	250	420
90L	2.4.6.8	140	70	125	56	24	50	8	20	90	10	36	165	180	195	155	250	445
100L	2.4.6.8	160	80	140	63	28	60	8	24	100	12	40	176	205	215	180	270	480
112M	2.4.6.8	190	95	140	70	28	60	8	24	112	12	45	180	230	240	190	300	510
132S	2.4.6.8	216	108	140	89	38	80	10	33	132	12	55	186	270	275	210	345	585
132M	2.4.6.8	216	108	178	89	38	80	10	33	132	12	55	224	270	275	210	345	625
160M	2.4.6.8	254	127	210	108	42	110	12	37	160	15	65	260	320	330	255	420	720
160L	2.4.6.8	254	127	254	108	42	110	12	37	160	15	65	304	320	330	255	420	765
180M	2.4.6.8	279	140	241	121	48	110	14	43	180	15	70	311	355	380	280	455	825
180L	2.4.6.8	279	140	279	121	48	110	14	43	180	15	70	349	355	380	280	455	875
200L	2.4.6.8	318	159	305	133	55	110	16	49	200	19	70	369	395	420	305	505	900
225S	4.8	356	178	286	149	60	140	18	53	225	19	75	368	435	470	335	560	1000
225M	2	356	178	311	149	55	110	16	49	225	19	75	393	435	470	335	560	1000
225M	4.6.8	356	178	311	149	60	140	18	53	225	19	75	393	435	470	335	560	1030

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

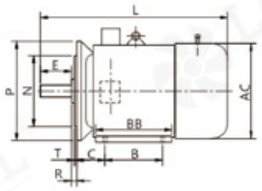
Outline and Mounting Dimensions of LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor



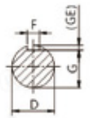
机座号80~90

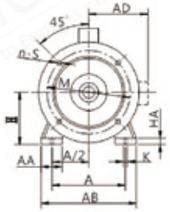


机座号100~132

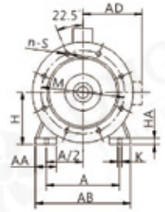


机座号160~225





机座号80~200



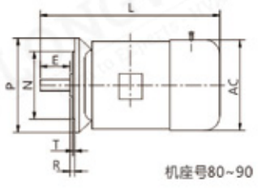
机座号225

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

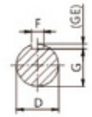
Frame	Flange Size	Poles	Mounting Dimension																			Number of flange holes	Figure Size				
			A	A/2	B	C	D	E	F	Ga	H	K	AA	BB	M	N	Pb	Rc	S	T		AB	AC	AD	HD	L
80M	FF165	2.4.6.8	125	62.5	100	50	19	40	6	15.5	80	10	34	135	165	130	200	0	12	3.5	4	165	175	145	220	295
90S	FF165	2.4.6.8	140	70	100	56	24	50	8	20	90	10	36	140	165	130	200	0	12	3.5	4	180	195	155	250	320
90L	FF165	2.4.6.8	140	70	125	56	24	50	8	20	90	10	36	165	165	130	200	0	12	3.5	4	180	195	155	250	345
100L	FF215	2.4.6.8	160	80	140	63	28	60	8	24	100	12	40	176	215	180	250	0	14.5	4	4	205	215	180	270	385
112M	FF215	2.4.6.8	190	95	140	70	28	60	8	24	112	12	45	180	215	180	250	0	14.5	4	4	230	240	190	300	400
132S	FF265	2.4.6.8	216	108	140	89	38	80	10	33	132	12	55	186	265	230	300	0	14.5	4	4	270	275	210	345	470
132M	FF265	2.4.6.8	216	108	178	89	38	80	10	33	132	12	55	224	265	230	300	0	14.5	4	4	270	275	210	345	510
160M	FF300	2.4.6.8	254	127	210	108	42	110	12	37	160	14.5	65	260	300	250	350	0	18.5	5	4	320	330	255	420	615
160L	FF300	2.4.6.8	254	127	254	108	42	110	12	37	160	14.5	65	304	300	250	350	0	18.5	5	4	320	330	255	420	670
180M	FF300	2.4.6.8	279	140	241	121	48	110	14	42.5	180	14.5	70	311	300	250	350	0	18.5	5	4	355	380	280	455	700
180L	FF300	2.4.6.8	279	140	279	121	48	110	14	42.5	180	14.5	70	349	300	250	350	0	18.5	5	4	355	380	280	455	740
200L	FF350	2.4.6.8	318	159	305	133	55	110	16	49	200	18.5	70	369	350	300	400	0	18.5	5	4	395	420	305	505	770
225S	FF400	4.8	356	178	286	149	60	140	18	53	225	18.5	75	368	400	350	450	0	18.5	5	8	435	470	335	560	815
225M	FF400	2	356	178	311	149	55	110	16	49	225	18.5	75	393	400	350	450	0	18.5	5	8	435	470	335	560	820
225M	FF400	4.6.8	356	178	311	149	60	140	18	53	225	18.5	75	393	400	350	450	0	18.5	5	8	435	470	335	560	845

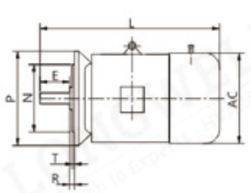
a. G = D – GE
b. Dimension P is a maximum limit value
d. R is the distance from the flange mating surface to the shaft extension shoulder

Outline and Mounting Dimensions of LWYEJ2 Series Electromagnetic Brake Three Phase Asynchronous Motor

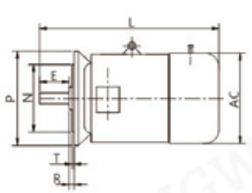


机座号80~90

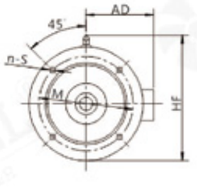




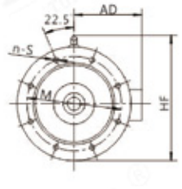
机座号100~132



机座号160~225



机座号80~200



机座号225

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

Frame	Flange Size	Poles	Mounting Dimension										Number of flange holes	Figure Size			
			D	E	F	Ga	M	N	Pb	Rc	S	T		AC	AD	HF	L
80M	FF165	2.4.6.8	19	40	6	15.5	165	130	200	0	12	3.5	4	175	145	185	295
90S	FF165	2.4.6.8	24	50	8	20	165	130	200	0	12	3.5	4	195	155	195	320
90L	FF165	2.4.6.8	24	50	8	20	165	130	200	0	12	3.5	4	195	155	195	345
100L	FF215	2.4.6.8	28	60	8	24	215	180	250	0	14.5	4	4	215	180	245	385
112M	FF215	2.4.6.8	28	60	8	24	215	180	250	0	14.5	4	4	240	190	265	400
132S	FF265	2.4.6.8	38	80	10	33	265	230	300	0	14.5	4	4	275	210	315	470
132M	FF265	2.4.6.8	38	80	10	33	265	230	300	0	14.5	4	4	275	210	315	510
160M	FF300	2.4.6.8	42	110	12	37	300	250	350	0	18.5	5	4	330	255	385	615
160L	FF300	2.4.6.8	42	110	12	37	300	250	350	0	18.5	5	4	330	255	385	670
180M	FF300	2.4.6.8	48	110	14	42.5	300	250	350	0	18.5	5	4	380	280	430	700
180L	FF300	2.4.6.8	48	110	14	42.5	300	250	350	0	18.5	5	4	380	280	430	740
200L	FF350	2.4.6.8	55	110	16	49	350	300	400	0	18.5	5	4	420	305	480	770
225S	FF400	4.8	60	140	18	53	400	350	450	0	18.5	5	8	470	335	535	815
225M	FF400	2	55	110	16	49	400	350	450	0	18.5	5	8	470	335	535	820
225M	FF400	4.6.8	60	140	18	53	400	350	450	0	18.5	5	8	470	335	535	845

a. G = D – GE
b. Dimension P is a maximum limit value
d. R is the distance from the flange mating surface to the shaft extension shoulder