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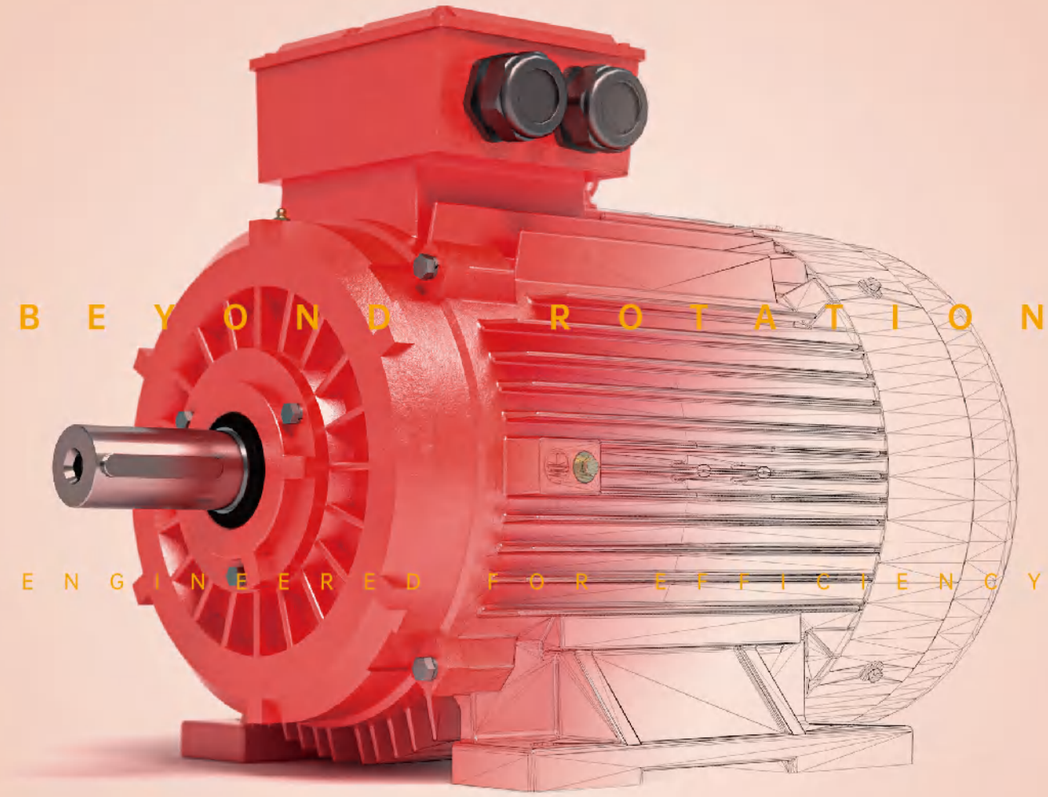
SUNVIM



B E Y O N D R O T A T I O N

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SUNVIM

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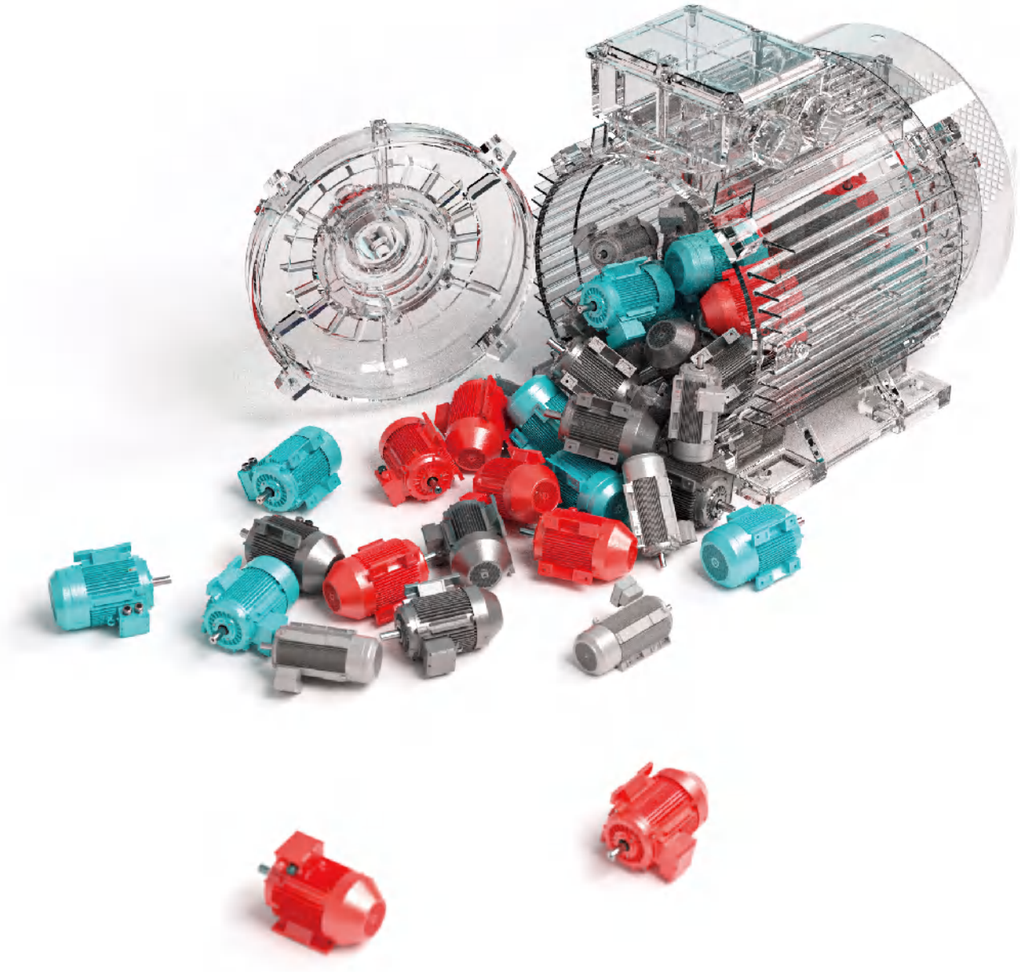


The exporing of Sunvim Home Textiles products have ranked the first in the industry for 24 consecutive years

Ranking of China's Top 500 Textile and Apparel Enterprises in Terms of Competitiveness:
the 12th

Ranking of Chinese home textile enterprises:
the 1st

Brand value:
5.039 billion

Group introduction

Founded in 1987, Sunvim Group has adhered to the business philosophy of "Pursuing Success with Sincerity and Creating Win-win Cooperation" for nearly 40 years. It has developed into a comprehensive group enterprise with home textiles as its leading business, integrating diversified industries such as domestic and foreign trade, chemical, electric motor, new energy, thermal power, and water supply. In 2006, Sunvim Group was listed on Shenzhen Stock Exchange (stock code: 002083), becoming the first overall listed enterprise in China's home textile industry. Relying on high-quality products and good reputation, the company's products are exported to multiple countries and regions across Asia, Europe, America, Australia, and the Middle East. It has build up an excellent reputation in both domestic and international markets. The Group has formed a high-and-middle brand operation structure featuring distinct brand characteristics and diversified marketing channels, and has been listed consecutively in China's Most Valuable Brand List for many years.

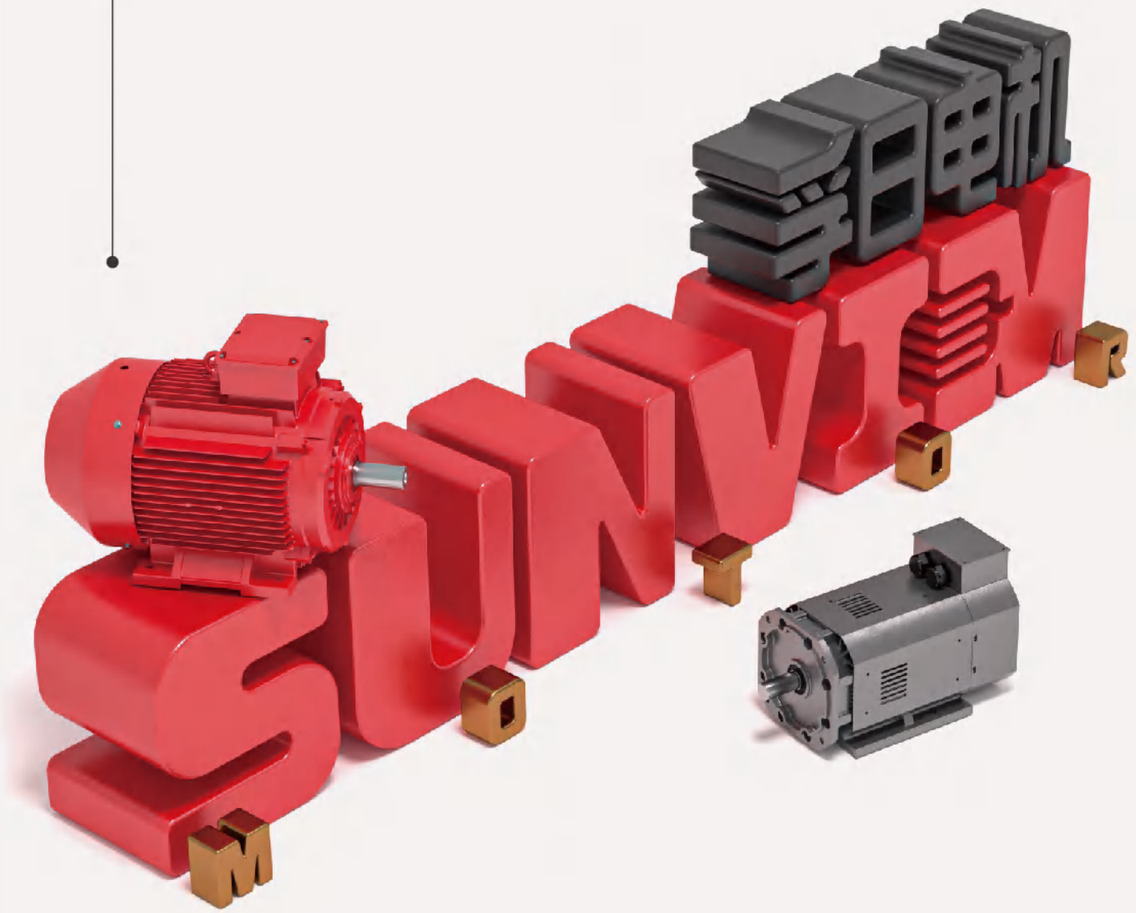
Group industry

SUNVIM GROUP CO.,LTD

Home textile industry	Motor industry	Chemical engineering industry	Thermoelectric industry	Water purification technology industry
Home Textile company — Cotton Textile Company	Sunvim motor	Xuanwei Chemical Industry — Gaoyuan Chemical Industry — Sunvim New Energy	Sunvim Power Plant South Plant — Sunvim Power Plant North Plant	Sunvim Pure Water Plant — Sunvim Recycled Water Plant

BEYOND ROTATION

ENGINEERED FOR EFFICIENCY



Land area

102

Total investment

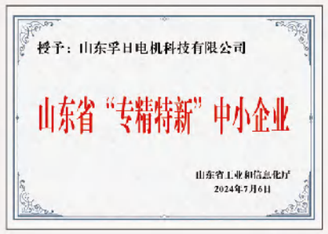
200,000,000

Shandong Sunvim Motor Co., Ltd. mainly engages in the research, development and production of high-efficiency and energy-saving electric motors. With a total investment of 200 million yuan and a land area of 102acres, the company is equipped with advanced international and domestic facilities such as processing centers and automatic winding machines, and it has established a high-precision and high-power type test center.

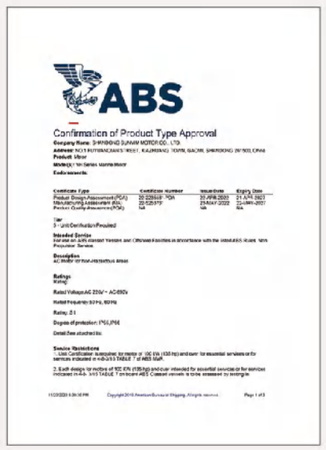
The main products include IE3/IE4 high-efficiency three-phase asynchronous motors and IE5 ultra-high-efficiency energy-saving motors. It possesses the industry leading research, design and production capabilities for ultra-high-efficiency synchronous reluctance motors, permanent magnet synchronous motors, and high-voltage motors. The products features high protection level, strong insulation performance, wide application scenarios, energy conservation and consumption reduction, and reliable structures. They are mainly exported to markets in Europe, Africa, and Southeast Asia, with a wide customer base and a high market reputation.

The company has passed certifications of ISO9001:2008 quality management system certification, China Energy-saving Product Certification, UL product certification in the United States, CE certification in the European Union, UKCA certification in the United Kingdom, CCS type certification of China Classification Society, DNV type certification of Det Norske Veritas, and ABS type certification of American Bureau of Shipping. It has also been honored with "High-tech Enterprise", "Provincial Specialized Refined, Unique and Innovative Enterprise", "Shandong Province Innovation Capacity Enhancement Project"and "Taishan Industry Leading Talent Project".

Certificates



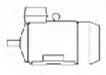
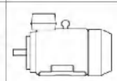
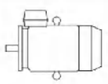
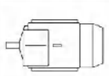
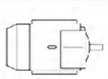
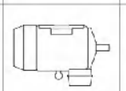
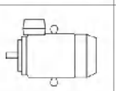
Marine certificates



Standards

Standard title	Chinese standard	IEC standard
Rotating electrical machines - Part 1: Rating and performance	GB 755	IEC 60034-1
Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification	GB/T 4942.1	IEC 60034-5
Rotating electrical machines - Part 6: Methods of cooling (IC Code)	GB/T 1993	IEC 60034-6
Rotating electrical machines - Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code)	GB/T 997	IEC 60034-7
Rotating electrical machines - Part 8: Terminal markings and direction of rotation	GB 1971	IEC 60034-8
Rotating electrical machines - Part 9: Noise limits	GB 10069.3	IEC 60034-9
Rotating electrical machines - Part 12: Starting performance of single-speed three-phase cage induction motors	GB/T 21210	IEC 60034-12
Rotating electrical machines - Part 14: Measurement, evaluation and limits of vibration severity	GB/T 10068	IEC 60034-14
Rotating electrical machines - Part 17: Cage induction motors when fed from converters - Application guide	GB/T 20161	IEC 60034-17
Rotating electrical machines - Dimensions and output series	GB/T 4772	IEC 60072
Rotating electrical machines - Part 30-1: Efficiency classes of line operated AC motors (IE code)	GB 18613	IEC 60034-30
Standard voltage	GB/T 156	IEC 60038

Mounting and positions

IEC 60034-7		Figure	Frame size				
Code I	Code II		63-132	160-180	200-250	280-315	355
IM B3	IM 1001		•	•	•	•	•
IM B35	IM 2001		•	•	•	•	•
IM B34	IM 2101		•	•			
IM B5	IM 3001		•	•	•	•	
IM B6	IM 1051		•	•	•		
IM B7	IM 1061		•	•	•		
IM B8	IM 1071		•	•	•		
IM B14	IM 3601		•	•			

IEC 60034-7		Figure	Frame size				
Code I	Code II		63-132	160-180	200-250	280-315	355
IM V1	IM 3011		•	•	•	•	•
IM V15	IM 2011		•	•	•	•	•
IM V3	IM 3031		•	•	•		
IM V36	IM 2031		•	•	•		
IM V5	IM 1011		•	•	•		
IM V6	IM 1031		•	•	•		
IM V18	IM 3611		•				
IM V19	IM 3631		•				

Protection

The protection degree of an electric motor is usually indicated by the IP (Ingress Protection) code, which defines the motor housing's ability to prevent the intrusion of solid foreign objects (including dust) and liquids.

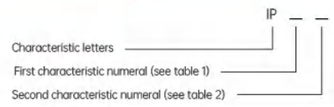


Table 1

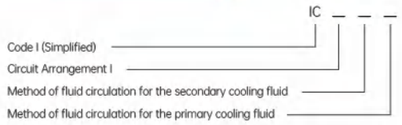
The first numeral	Brief description	Definition
0	Non-protected machine	No specific protection
1	Machine protected against solid objects greater than 50 mm	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such as a hand (but no protection against deliberate access) Ingress of solid objects exceeding 50 mm in diameter
2	Machine protected against solid objects greater than 12 mm	Contact with or approach to live or moving parts inside the enclosure by fingers or similar objects not exceeding 80 mm in length, Ingress of solid objects exceeding 12 mm in diameter
3	Machine protected against solid objects greater than 2,5 mm	Contact with or approach to live or moving parts inside the enclosure by tools or wires exceeding 2,5 mm in diameter, Ingress of solid objects exceeding 2,5 mm in diameter
4	Machine protected against solid objects greater than 1 mm	Contact with or approach to live or moving parts inside the enclosure by wires or strips of thickness greater than 1 mm, Ingress of solid objects exceeding 1 mm in diameter
5	Dust-protected machine	Contact with or approach to live or moving parts inside the enclosure Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the machine
6	Dust-tight machines	Ingress of dust totally prevented

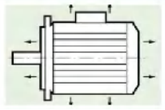
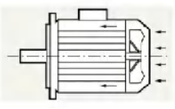
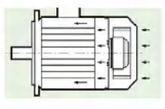
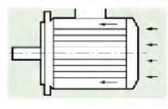
Table 2

The second numeral	Brief description	Definition
0	Non-protected machine	No specific protection
1	Machine protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect
2	Machine protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the machine is tilted at any angle up to 15°from its normal position
3	Machine protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect
4	Machine protected against splashing water	Water splashing against the machine from any direction shall have no harmful effect
5	Machine protected against water jets	Water projected by a nozzle against the machine from any direction shall have no harmful effect
6	Machine protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the machine in harmful quantities
7	Machine protected againstthe effects of immersion	Ingress of water in the machine in a harmful quantity shall not be possible when the machine is immersed in water under stated conditions of pressure and time
8	Machine protected againstthe effects of continuous submersion	The machine is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer

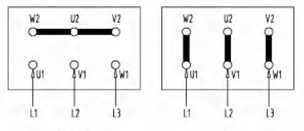
Cooling

The designation of cooling method is given by the IC (International Cooling) code, according to IEC 60034-6

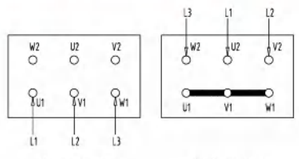


IC code	IC410(TENV)	IC411(TEFC)	IC416(TEBC)	IC418(TEAO)
Figure				
Description	Enclosed machine, surface-cooledby natural convection and radiation.No external fan.	Enclosed machine. Smooth or finned ventilated casingExtemal shaft-mounted fan.	Enclosed machine. Smooth or finned enclosed casing. External motorized axial (A) fan supplied with the machine.	Enclosed machine. Smooth or finned casingNo external fan. Ventilation provided by air flow coming from the driven system.

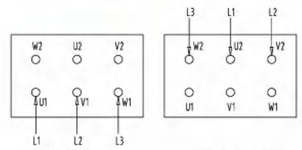
Connection



Single speed motor



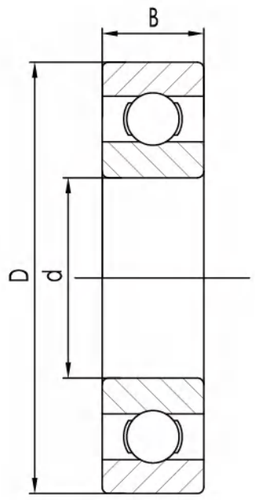
Double speed motor (Single winding with 6 terminals)



Double speed motor (Two separate windings 6 terminals)

Bearing type

Frame size	DE	NDE	d	D	B
80	6204 ZZ	6204 ZZ	20	47	14
90	6205 ZZ	6205 ZZ	25	52	15
100	6206 ZZ	6206 ZZ	30	62	16
112	6306 ZZ	6306 ZZ	30	72	19
132	6308 ZZ	6308 ZZ	40	90	23
160	6309	6309	45	100	25
180	6311	6311	55	120	29
200	6312	6312	60	130	31
225	6313	6313	65	140	33
250 (Horizontal)	6314	6314	70	150	35
250 (Vertical)	6314	7314	70	150	35
280-2P (Horizontal)	6314	6314	70	150	35
280-2P (Vertical)	6314	7314	70	150	35
280-4-8P (Horizontal)	6317	6317	85	180	41
280-4-8P (Vertical)	6317	7317	85	180	41
315-2P (Horizontal)	6317	6317	85	180	41
315-2P (Vertical)	6317	7317	85	180	41
315-4-10P (Horizontal)	6319	6319	95	200	45
315-4-10P (Vertical)	6319	7319	95	200	45
355-2P (Horizontal)	6319	6319	95	200	45
355-2P (Vertical)	6319	7319	95	200	45
355-4-10P (Horizontal)	6322	6322	110	240	50
355-4-10P (Vertical)	6322	7322	110	240	50
355X-2P (Horizontal)	6319	6319	95	200	45
355X-2P (Vertical)	6319	7319	95	200	45
355X-4-10P (Horizontal)	NU324	6324	120	260	55
355X-4-10P (Vertical)	6324	7324	120	260	55
400X-2P (Horizontal)	6319	6319	95	200	45
400X-2P (Vertical)	6319	7319	95	200	45
400X-4-10P (Horizontal)	NU326	6326	130	280	58
400X-4-10P (Vertical)	6326	7326	130	280	58
450X-2P (Horizontal)	6220	6220	100	180	34
450X-2P (Vertical)	6220	7220	100	180	34
450X-4-10P (Horizontal)	NU328	6328	140	300	62
450X-4-10P (Vertical)	6328	7328	140	300	62



Bearing lubrication interval

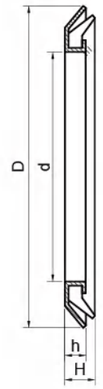
Table

Frame size	DE	NDE	Interval(hour)				Grease amount(g)
			2P	4P	6P	8P	
160	6309	6309	2000	5400	6900	7800	20
180	6311	6311	2000	5400	6900	7800	25
200	6312	6312	1500	5000	6500	7000	25
225	6313	6313	1500	5000	6500	7000	30
250	6314	6314	1100	4700	6400	6900	35
280-2P	6314	6314	1100	/	/	/	35
280-4-8P	6317	6317	/	4500	6300	6800	40
315-2P	6317	6317	1000	/	/	/	40
315-4-10P	6319	6319	/	3800	6000	6500	50
355-2P	6319	6319	1000	/	/	/	50
355-4-10P	6322	6322	/	3200	5500	6000	60
355X-2P	6319	6319	1000	/	/	/	50
355X-4-10P	NU324	6324	/	3000	5000	5500	75
400X-2P	6319	6319	1000	/	/	/	50
400X-4-10P	NU326	6326	/	2500	4500	5000	85
450X-2P	6220	6220	1000	/	/	/	35
450X-4-10P	NU328	6328	/	2000	4000	5000	95

Notes: Size H63-450 are equipped with closed bearings and lubrication for life.Size H160 and above are equipped with open bearings, also with greaser and exhausted grease drainage.
The lubrication interval of vertical mounting motors apply half of the above values.The lubrication interval is based on a bearing temperature of 80°C and an ambient temperature of +25°C. Changes in the ambient temperature can affect the bearing temperature.
When the bearing temperature increases by 15°C, the lubrication interval should be half; when the bearing temperature decreases by 15°C, the lubrication interval can be doubled.

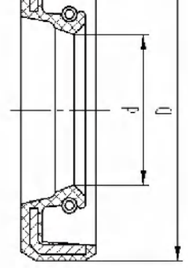
Gamma seal

Frame size	Specification	d	D	h	H
80	RB20×35×4.0	Ø20	Ø35	3	5.5
90	RB25×40×4.0	Ø25	Ø40	3	5.5
100	RB30×47×4.5	Ø30	Ø47	3.5	6.5
112	RB30×47×4.5	Ø30	Ø47	3.5	6.5
132	RB40×57×4.5	Ø40	Ø57	3.5	6.5
160	RB45×62×4.5	Ø45	Ø62	3.5	6.5
180	RB55×75×5.5	Ø55	Ø75	4.5	7.5
200	RB60×80×5.5	Ø60	Ø80	4.5	7.5
225	RB65×85×5.5	Ø65	Ø85	4.5	7.5
250	RB70×90×5.5	Ø70	Ø90	4.5	7.5
280-2	RB70×90×5.5	Ø70	Ø90	4.5	7.5
280-4.6.8	RB85×105×5.5	Ø85	Ø105	4.5	7.5
315-2	RB85×105×5.5	Ø85	Ø105	4.5	7.5
315-4.6.8	RB95×115×5.5	Ø95	Ø115	4.5	7.5
355-2	RB95×115×5.5	Ø95	Ø115	4.5	7.5
355-4.6.8	RB110×130×5.5	Ø110-	Ø130	4.5	7.5
355X-2	RB95×115×5.5	Ø95	Ø115	4.5	7.5
355X-4.6.8	RB120×140×5.5	Ø120-	Ø140	4.5	7.5
400X-2	RB95×115×5.5	Ø95	Ø115	4.5	7.5
400X-4.6.8	RB130×150×5.5	Ø130-	Ø150	4.5	7.5
450X-4.6.8	RB140×160×5.5	Ø140-	Ø160	4.5	7.5



Oil seal

Frame size	Specification	d	D	H
80	(F)B20×42×5	Ø20	Ø42	5
90	(F)B25×47×5	Ø25	Ø47	5
100	(F)B30×52×7	Ø30	Ø52	7
112	(F)B30×52×7	Ø30	Ø52	7
132	(F)B40×62×5	Ø40	Ø62	5
160	(F)B45×62×8	Ø45	Ø62	8
180	(F)B55×80×8	Ø55	Ø80	8
200	(F)B60×85×8	Ø60	Ø85	8
225	(F)B65×90×10	Ø65	Ø90	10
250	(F)B70×95×10	Ø70	Ø95	10
280-2	(F)B70×95×10	Ø70	Ø95	10
280-4.6.8	(F)B85×110×12	Ø85	Ø110	12
315-2	(F)B85×110×12	Ø85	Ø110	12
315-4.6.8	(F)B95×120×12	Ø95	Ø120	12
355-2	(F)B95×120×12	Ø95	Ø120	12
355-4.6.8	(F)B110×140×12	Ø110	Ø140	12
355X-2	(F)B95×120×12	Ø95	Ø120	12
355X-4.6.8	(F)B120×150×12	Ø120	Ø150	12
400X-2	(F)B95×120×12	Ø95	Ø120	12
400X-4.6.8	(F)B130×160×12	Ø130	Ø160	12
450X-4.6.8	B140×165×13	Ø140	Ø165	13



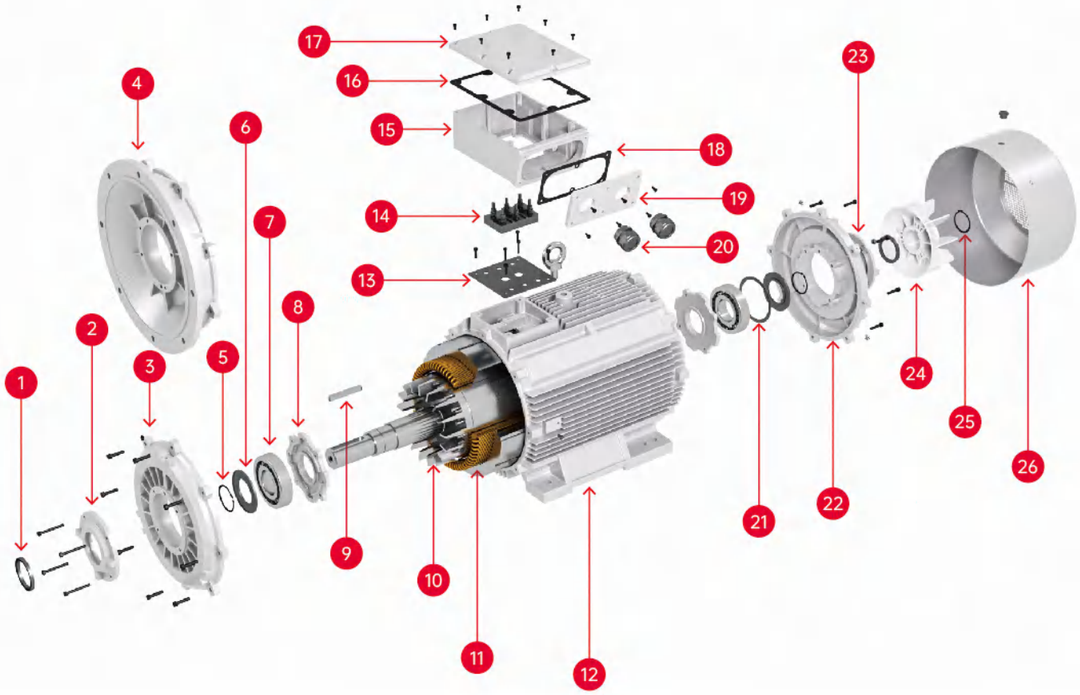
Vibration

Vibration grade	Shaft height mm	56 ⩽ H ⩽ 132		H > 132	
	Mounting	Displacement μm	Velocity mm/s	Displacement μm	Velocity mm/s
A	Free suspension	45	2.8	45	2.8
	Rigid mounting	-	-	37	2.3
B	Free suspension	18	1.1	29	1.8
	Rigid mounting	-	-	24	1.5

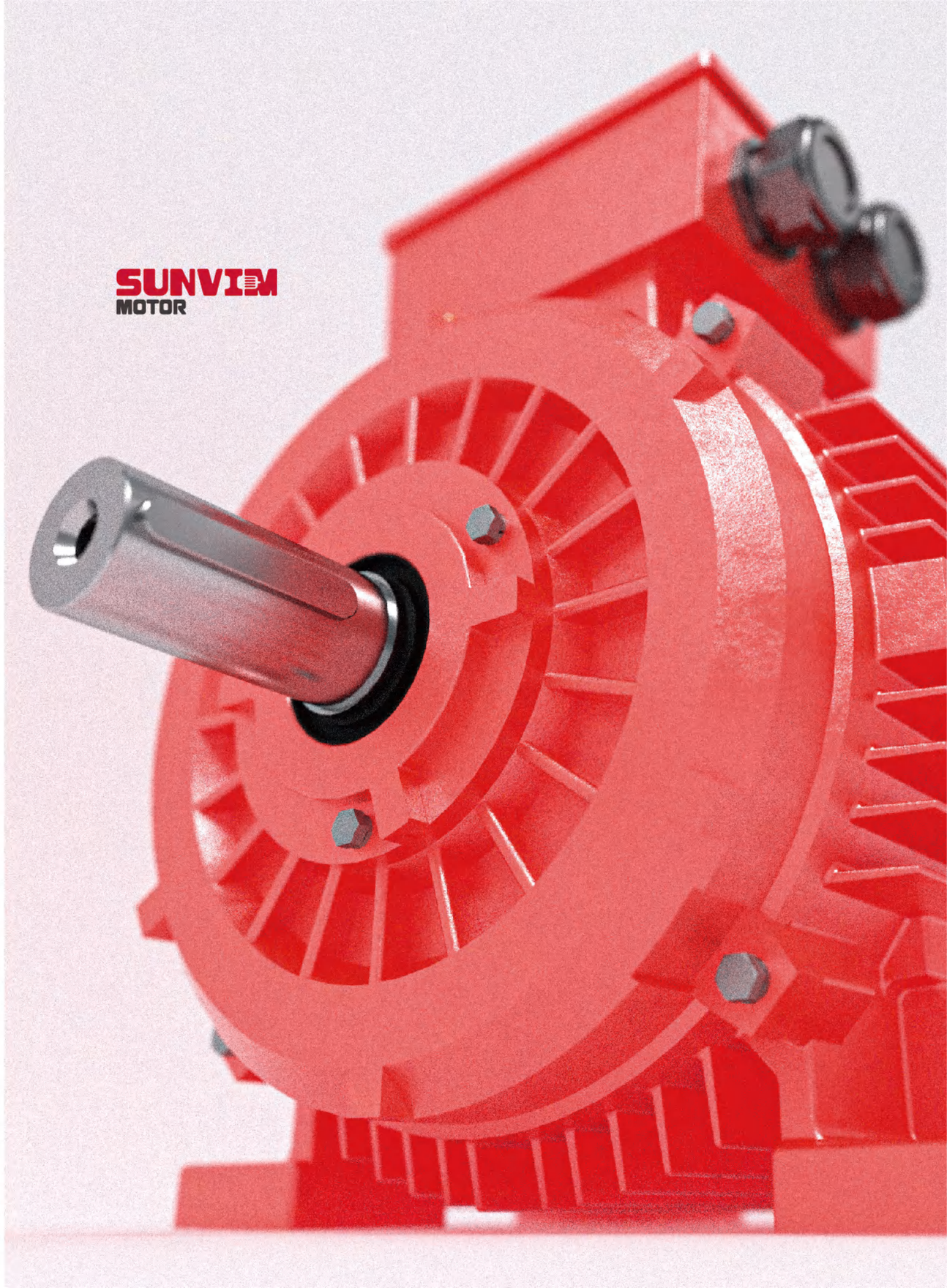
Grade "A" applies to machines with no special vibration requirements.
Grade "B" applies to machines with special vibration requirements.
Rigid mounting is not considered acceptable for machines with shaft heights less than 132 mm.

NOTE:

1. The manufacturer and the purchaser should take into account that the instrumentation can have a measurement tolerance of ± 10 %.
2. The shaft height of a machine without feet, or a machine with raised feet, or any vertical machine is to be taken as the shaft height of a machine in the same basic frame, but of the horizontal shaft foot-mounting type.
3. A machine which is well-balanced in itself and of a grade conforming with Table, may exhibit large vibrations when installed in-situ arising from various causes, such as unsuitable foundations, reaction of the driven machine, current ripple from the power supply, etc. Vibration may also be caused by driving elements with anatural oscillation frequency very close to the excitation due to the small residual unbalance of the rotating masses of the machine. In such cases, checks should be carried out not only on the machine, but also on each element of the installation."



1. Oil seal
2. Outer bearing cap (D)
3. Endshield D.E
4. Flange
5. Shaft retaining ring
6. Grease slinger
7. Bearing
8. Inner bearing cap
9. Key
10. Rotor
11. Stator
12. Housing
13. Terminal box gasket
14. Terminal board
15. Terminal box base
16. Terminal box lid gasket
17. Terminal box lid
18. Removable plate gasket
19. Removable plate
20. Cable gland
21. Wave spring
22. Endshield N.D.E
23. Outer bearing cap (N)
24. Fan
25. Shaft retaining ring
26. Fan cover



IE3 motors

Standard: IEC60034-30
Efficiency class: IE3
Frame size: 80-355
Output: 0.75-315kW
Voltage / Frequency: ⩽1000V/50Hz,60Hz
Insulation class/Temperature rise class: F/B
Protection degree: IP55/IP56/IP65/IP66
Mounting arrangements: IM B3/IM B5/IM B35/IM V1
Cooling methods: IC411
Duty: S1
Service factor: 1.0
Ambient temperature: -15°C ~+40°C
Relative humidity: ⩽90%
Altitude: ⩽ 1000m

Technical data (at 50Hz)

Motor Type	Power (kW)	Current (A)									Speed 50Hz (r/min)	Speed 60Hz (r/min)	Eff. η%			P.F. cos φ			Torque (N.m)	Tst Tn	Tmax Tn	Ist In	Noise dB (A) no load	Weight (kg)	Inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V			100%	75%	50%	100%	75%	50%							
IE3-80M1-2	0.75	3.0	1.7	1.0	2.9	1.64	0.95	2.7	1.6	0.91	2910	3492	80.7	80.9	79.0	0.82	0.78	0.70	2.5	2.3	2.3	7.0	62	17	0.001
IE3-80M2-2	1.1	4.2	2.4	1.4	4.0	2.3	1.34	3.9	2.2	1.29	2910	3492	82.7	83.2	82.5	0.83	0.79	0.71	3.6	2.2	2.3	7.3	62	18	0.002
IE3-90S-2	1.5	5.6	3.2	1.9	5.3	3.1	1.77	5.1	3	1.7	2910	3492	84.2	84.6	83.6	0.84	0.80	0.71	4.9	2.2	2.3	7.6	67	23	0.002
IE3-90L-2	2.2	7.9	4.6	2.6	7.6	4.3	2.5	7.3	4.2	2.4	2910	3492	85.9	86.3	84.8	0.85	0.81	0.72	7.2	2.2	2.3	7.6	67	26	0.003
IE3-100L-2	3	10.4	6	3.5	9.9	5.7	3.3	9.5	5.5	3.2	2910	3492	87.1	87.9	87.4	0.87	0.83	0.74	9.8	2.2	2.3	7.8	74	34	0.006
IE3-112M-2	4	13.5	7.8	4.5	13.0	7.4	4.3	12.4	7.2	4.1	2915	3498	88.1	89.8	90.7	0.88	0.84	0.75	13.1	2.2	2.3	8.3	77	41	0.009
IE3-132S1-2	5.5	18.4	10.6	6.1	17.6	10.1	5.9	16.9	9.7	5.6	2920	3504	89.2	89.7	89.0	0.88	0.84	0.75	18.0	2.0	2.3	8.3	79	62	0.024
IE3-132S2-2	7.5	24.8	14.4	8.3	23.8	13.7	7.9	22.8	13.2	7.6	2920	3504	90.1	90.9	90.9	0.88	0.84	0.75	24.5	2.0	2.3	7.9	79	67	0.029
IE3-160M1-2	11	35.6	20.6	11.9	34.0	19.6	11.3	32.6	18.9	10.9	2935	3522	91.2	91.4	88.9	0.89	0.85	0.76	35.8	2.0	2.3	8.1	81	119	0.067
IE3-160M2-2	15	48.1	27.9	16.0	46.0	26.5	15.4	44.1	25.5	14.7	2935	3522	91.9	92.0	89.2	0.89	0.85	0.76	48.8	2.0	2.3	8.1	81	130	0.08
IE3-160L-2	18.5	59.0	34.2	19.7	56.5	32.5	18.8	54.1	31.3	18.0	2935	3522	92.4	91.8	89.5	0.89	0.85	0.76	60.2	2.0	2.3	8.2	81	147	0.097
IE3-180M-2	22	70.0	40.5	23.3	66.9	38.5	22.3	64.2	37.1	21.4	2940	3528	92.7	92.7	89.6	0.89	0.85	0.76	71.5	2.0	2.3	8.2	83	190	0.137
IE3-200L1-2	30	94.8	54.9	31.6	90.7	52.1	30.2	86.9	50.3	29.0	2950	3540	93.3	93.4	89.1	0.89	0.85	0.76	97.1	2.0	2.3	7.6	84	249	0.227
IE3-200L2-2	37	116	67.4	38.8	111	64	37.1	107	61.7	35.6	2950	3540	93.7	93.7	89.4	0.89	0.85	0.76	120	2.0	2.3	7.6	84	266	0.269
IE3-225M-2	45	140	80.8	46.5	134	76.8	44.5	128	74	42.7	2970	3564	94.0	94.2	92.2	0.90	0.86	0.77	145	2.0	2.3	7.7	86	312	0.36
IE3-250M-2	55	170	98.5	56.7	163	93.5	54.2	156	90.2	52.0	2970	3564	94.3	94.1	90.7	0.90	0.86	0.77	177	2.0	2.3	7.7	89	413	0.791
IE3-280S-2	75	231	134	77.0	221	127	73.6	212	122	70.6	2975	3570	94.7	94.7	92.9	0.90	0.86	0.77	241	1.8	2.3	7.1	91	539	0.96
IE3-280M-2	90	276	160	92.1	264	152	88.1	253	146	84.4	2975	3570	95.0	95.5	94.6	0.90	0.86	0.77	289	1.8	2.3	7.1	91	585	1.157
IE3-315S-2	110	-	195	112	-	185	107	-	179	103	2980	3576	95.2	95.1	93.4	0.90	0.86	0.77	353	1.8	2.3	7.1	92	848	1.662
IE3-315M-2	132	-	234	134	-	222	129	-	214	123	2980	3576	95.4	95.4	93.5	0.90	0.86	0.77	423	1.8	2.3	7.1	92	966	1.874
IE3-315L1-2	160	-	279	161	-	265	154	-	256	147	2980	3576	95.6	95.5	93.8	0.91	0.86	0.77	513	1.8	2.3	7.2	92	1028	2.146
IE3-315L2-2	185	-	322	186	-	306	178	-	295	170	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	593	1.8	2.3	7.2	92	1062	2.266
IE3-315L3-2	200	-	349	201	-	331	192	-	319	184	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	641	1.8	2.2	7.2	92	1095	2.448
IE3-355M1-2	220	-	383	221	-	364	211	-	351	202	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	705	1.6	2.2	7.2	100	1573	2.693
IE3-355M2-2	250	-	436	251	-	414	240	-	399	230	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	801	1.6	2.2	7.2	100	1617	4.034
IE3-355L-2	280	-	488	281	-	464	269	-	447	258	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	897	1.6	2.2	7.2	100	1697	4.095
IE3-355L1-2	315	-	549	316	-	522	302	-	503	290	2980	3576	95.8	95.7	94.0	0.91	0.86	0.77	1009	1.6	2.2	7.2	100	1784	4.645

2P

Technical data (at 50Hz)

Motor Type	Power (kW)	Current (A)									Speed 50Hz (r/min)	Speed 60Hz (r/min)	Eff. η%			P.F. cos φ			Torque (N.m)	Tst Tn	Tmax Tn	Ist In	Noise dB (A) no load	Weight (kg)	Inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V			100%	75%	50%	100%	75%	50%							
IE3-80M1-4	0.55	2.4	1.38	0.79	2.3	1.32	0.76	2.2	1.26	0.73	1430	1716	80.8	80.9	78.5	0.75	0.71	0.64	3.67	2.3	2.3	6.6	56	16	0.002
IE3-80M2-4	0.75	3.2	1.8	1.06	3.0	1.7	1.01	2.9	1.7	0.97	1430	1716	82.5	82.5	80.3	0.75	0.71	0.64	5.0	2.3	2.3	6.6	56	18	0.003
IE3-90S-4	1.1	4.5	2.6	1.51	4.3	2.5	1.44	4.1	2.4	1.38	1435	1722	84.1	84.1	81.6	0.76	0.72	0.65	7.3	2.3	2.3	6.8	59	23	0.004
IE3-90L-4	1.5	6.0	3.5	2.0	5.7	3.3	1.91	5.5	3.2	1.83	1435	1722	85.3	85.5	83.1	0.77	0.73	0.65	10.0	2.3	2.3	7.0	59	26	0.005
IE3-100L1-4	2.2	8.2	4.8	2.7	7.9	4.5	2.6	7.5	4.4	2.5	1450	1740	86.7	87.0	86.0	0.81	0.77	0.69	14.5	2.3	2.3	7.6	64	36	0.012
IE3-100L2-4	3	11.0	6.3	3.7	10.5	6	3.5	10.0	5.8	3.4	1450	1740	87.7	88.4	87.6	0.82	0.78	0.70	19.8	2.3	2.3	7.6	64	40	0.016
IE3-112M-4	4	14.5	8.4	4.8	13.8	7.9	4.6	13.3	7.7	4.4	1455	1746	88.6	88.4	87.4	0.82	0.78	0.70	26.3	2.2	2.3	7.8	65	48	0.022
IE3-132S-4	5.5	19.4	11.2	6.5	18.6	10.7	6.2	17.8	10.3	5.9	1460	1752	89.6	89.9	89.1	0.83	0.79	0.71	36.0	2.0	2.3	7.9	71	68	0.06
IE3-132M-4	7.5	25.9	15	8.6	24.8	14.3	8.3	23.8	13.7	7.9	1460	1752	90.4	90.9	90.2	0.84	0.80	0.71	49.1	2.0	2.3	7.5	71	80	0.071
IE3-160M-4	11	37.2	21.5	12.4	35.5	20.4	11.9	34.1	19.7	11.4	1470	1764	91.4	91.8	91.1	0.85	0.81	0.72	71.5	2.2	2.3	7.7	73	127	0.137
IE3-160L-4	15	49.7	28.8	16.6	47.5	27.3	15.9	45.6	26.3	15.2	1470	1764	92.1	92.4	91.6	0.86	0.82	0.73	97.4	2.2	2.3	7.8	73	148	0.171
IE3-180M-4	18.5	61.0	35.3	20.3	58.3	33.5	19.4	55.9	32.3	18.6	1475	1770	92.6	93.2	92.9	0.86	0.82	0.73	120	2.0	2.3	7.8	76	179	0.238
IE3-180L-4	22	72.2	41.8	24.1	69.1	39.7	23.0	66.2	38.3	22.1	1475	1770	93.0	93.5	93.3	0.86	0.82	0.73	142	2.0	2.3	7.8	76	197	0.259
IE3-200L-4	30	97.8	56.6	32.6	93.6	53.8	31.2	89.7	51.9	29.9	1475	1770	93.6	93.8	93.4	0.86	0.82	0.73	194	2.0	2.3	7.3	76	258	0.459
IE3-225S-4	37	120	69.6	40.1	115	66.1	38.3	110	63.7	36.7	1480	1776	93.9	94.1	93.8	0.86	0.82	0.73	239	2.0	2.3	7.4	78	314	0.656
IE3-225M-4	45	146	84.4	48.6	139	80.2	46.5	134	77.3	44.5	1480	1776	94.2	94.4	94.0	0.86	0.82	0.73	290	2.0	2.3	7.4	78	340	0.758
IE3-250M-4	55	177	103	59.1	170	97.6	56.6	163	94.1	54.2	1485	1782	94.6	94.7	94.0	0.86	0.82	0.73	354	2.2	2.3	7.4	79	419	1.078
IE3-280S-4	75	235	136	78.5	225	129	75.1	216	125	71.9	1485	1782	95.0	95.1	94.6	0.88	0.84	0.75	482	2.0	2.3	6.9	80	588	1.8
IE3-280M-4	90	282	163	94.0	270	155	89.9	258	149	86.2	1485	1782	95.2	95.4	94.9	0.88	0.84	0.75	579	2.0	2.3	6.9	80	664	2.13
IE3-315S-4	110	340	197	113	325	187	108	312	180	104	1490	1788	95.4	95.4	94.8	0.89	0.85	0.76	705	2.0	2.2	7.0	88	855	3.415
IE3-315M-4	132	407	236	136	389	224	130	373	216	124	1490	1788	95.6	95.7	95.3	0.89	0.85	0.76	846	2.0	2.2	7.0	88	998	3.607
IE3-315L1-4	160	492	285	164	471	271	157	451	261	150	1490	1788	95.8	95.9	95.5	0.89	0.85	0.76	1026	2.0	2.2	7.1	88	1073	3.823
IE3-315L2-4	185	562	325	187	538	309	179	515	298	172	1490	1788	96.0	96.3	96.1	0.90	0.86	0.77	1186	2.0	2.2	7.1	88	1130	4.479
IE3-315L3-4	200	608	352	203	581	334	194	557	322	186	1490	1788	96.0	96.3	96.1	0.90	0.86	0.77	1282	2.0	2.2	7.1	88	1177	5.262
IE3-355M1-4	220	-	387	223	-	368	213	-	354	204	1490	1788	96.0	96.3	96.1	0.90	0.86	0.77	1410	2.0	2.2	7.1	95	1596	5.449
IE3-355M2-4	250	-	440	253	-	418	242	-	403	232	1490	1788	96.0	96.3	96.1	0.90	0.86	0.77	1602	2.0	2.2	7.1	95	1691	6.192
IE3-355L1-4	280	-	492	284	-	468	271	-	451	260	1490	1788	96.0	96.3	96.1	0.90	0.86	0.77	1795	2.0	2.2	7.1	95	1750	6.732
IE3-355L2-4	315	-	554	319	-	526	305	-	507	292	1490	1788	96.0	96.2	95.8	0.90	0.86	0.77	2019	2.0	2.2	7.1	95	1925	7.273
IE3-355L3-4	355	-	624	359	-	593	344	-	572	329	1490	1788	96.0	96.1	95.2	0.90	0.86	0.77	2278	2.0	2.2	7.1	95	2153	7.915

4P

Technical data (at 50Hz)

Motor Type	Power (kW)	Current (A)									Speed 50Hz (r/min)	Speed 60Hz (r/min)	Eff. η%			P.F. cos φ			Torque (N.m)	Tst Tn	Tmax Tn	Ist In	Noise dB (A) no load	Weight (kg)	Inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V			100%	75%	50%	100%	75%	50%							
IE3-90S-6	0.75	3.5	2	1.17	3.4	1.9	1.12	3.2	1.9	1.07	930	1116	78.9	79.4	77.6	0.71	0.67	0.60	7.7	2.0	2.1	6.0	57	22	0.004
IE3-90L-6	1.1	4.9	2.8	1.63	4.7	2.7	1.56	4.5	2.6	1.49	930	1116	81.0	82.1	80.5	0.73	0.69	0.62	11.3	2.0	2.1	6.0	57	27	0.006
IE3-100L-6	1.5	6.5	3.8	2.2	6.3	3.6	2.1	6.0	3.5	2.0	950	1140	82.5	82.5	80.3	0.73	0.69	0.62	15.1	2.0	2.1	6.5	61	34	0.016
IE3-112M-6	2.2	9.3	5.4	3.1	8.9	5.1	3.0	8.5	4.9	2.8	960	1152	84.3	84.4	83.2	0.74	0.70	0.63	21.9	2.0	2.1	6.6	65	43	0.039
IE3-132S-6	3	12.4	7.2	4.1	11.9	6.8	4.0	11.4	6.6	3.8	970	1164	85.6	85.5	84.0	0.74	0.70	0.63	29.5	2.0	2.1	6.8	69	60	0.035
IE3-132M1-6	4	16.3	9.5	5.5	15.6	9	5.2	15.0	8.7	5.0	970	1164	86.8	86.5	84.9	0.74	0.70	0.63	39.4	2.0	2.1	6.8	69	70	0.043
IE3-132M2-6	5.5	21.9	12.7	7.3	20.9	12	7.0	20.1	11.6	6.7	970	1164	88.0	88.5	88.0	0.75	0.71	0.64	54.1	2.0	2.1	7.0	69	81	0.056
IE3-160M-6	7.5	28.0	16.2	9.3	26.8	15.4	8.9	25.6	14.8	8.5	975	1170	89.1	90.0	90.0	0.79	0.75	0.67	73.5	2.0	2.1	7.0	73	116	0.14
IE3-160L-6	11	40.0	23.1	13.3	38.2	22	12.7	36.6	21.2	12.2	975	1170	90.3	91.1	91.1	0.80	0.76	0.68	108	2.0	2.1	7.2	73	139	0.192
IE3-180L-6	15	53.3	30.9	17.8	51.0	29.3	17.0	48.9	28.2	16.3	985	1182	91.2	91.9	91.6	0.81	0.77	0.69	145	2.0	2.1	7.3	73	192	0.319
IE3-200L1-6	18.5	65.4	37.8	21.8	62.5	36	20.8	59.9	34.7	20.0	980	1176	91.7	91.9	91.2	0.81	0.77	0.69	180	2.0	2.1	7.3	73	233	0.446
IE3-200L2-6	22	77.3	44.8	25.8	74.0	42.5	24.7	70.9	41	23.6	980	1176	92.2	92.4	91.4	0.81	0.77	0.69	214	2.0	2.1	7.4	73	250	0.557
IE3-225M-6	30	102	59.1	34.0	97.7	56.2	32.6	93.6	54.1	31.2	980	1176	92.9	93.0	92.2	0.83	0.79	0.71	292	2.0	2.1	6.9	74	300	0.832
IE3-250M-6	37	124	71.7	41.3	119	68.1	39.5	114	65.7	37.9	980	1176	93.3	93.7	93.5	0.84	0.80	0.71	361	2.0	2.1	7.1	76	400	1.447
IE3-280S-6	45	148	85.8	49.4	142	81.6	47.3	136	78.6	45.3	980	1176	93.7	94.0	93.5	0.85	0.81	0.72	439	2.0	2.0	7.3	78	509	2.252
IE3-280M-6	55	178	103	59.5	171	98.1	56.9	164	94.6	54.5	980	1176	94.1	94.4	93.9	0.86	0.82	0.73	536	2.0	2.0	7.3	78	576	2.726
IE3-315S-6	75	248	143	82.6	237	136	79.0	227	131	75.7	990	1188	94.6	94.8	94.3	0.84	0.80	0.71	723	2.0	2.0	6.6	83	787	3.984
IE3-315M-6	90	293	170	97.6	280	161	93.4	268	155	89.5	990	1188	94.9	95.1	94.5	0.85	0.81	0.72	868	2.0	2.0	6.7	83	935	4.5
IE3-315L1-6	110	357	207	119	342	196	114	327	189	109	990	1188	95.1	95.3	94.8	0.85	0.81	0.72	1061	2.0	2.0	6.7	83	1017	5.607
IE3-315L2-6	132	422	244	141	404	232	135	387	224	129	990	1188	95.4	95.5	94.8	0.86	0.82	0.73	1273	2.0	2.0	6.8	83	1091	6.935
IE3-355M1-6	160	511	296	170	489	281	163	468	271	156	990	1188	95.6	95.8	95.4	0.86	0.82	0.73	1543	1.8	2.0	6.8	85	1617	10.222
IE3-355M2-6	185	583	337	194	557	320	186	534	309	178	990	1188	95.8	96.0	95.7	0.87	0.83	0.74	1785	1.8	2.0	6.8	85	1711	10.75
IE3-355M3-6	200	630	365	210	602	346	201	577	334	192	990	1188	95.8	96.0	95.7	0.87	0.83	0.74	1929	1.8	2.0	6.8	85	1775	11.031
IE3-355M4-6	220	-	401	231	-	381	221	-	367	212	990	1188	95.8	96.0	95.7	0.87	0.83	0.74	2122	1.8	2.0	6.8	85	1873	11.705
IE3-355L1-6	250	-	456	262	-	433	251	-	417	241	990	1188	95.8	96.0	95.7	0.87	0.83	0.74	2412	1.8	2.0	6.8	85	2174	11.897
IE3-355L2-6	280	-	516	297	-	491	284	-	473	273	990	1188	95.8	95.6	94.6	0.86	0.82	0.73	2701	1.8	2.0	6.8	85	2305	14.333

6P

Technical data (at 50Hz)

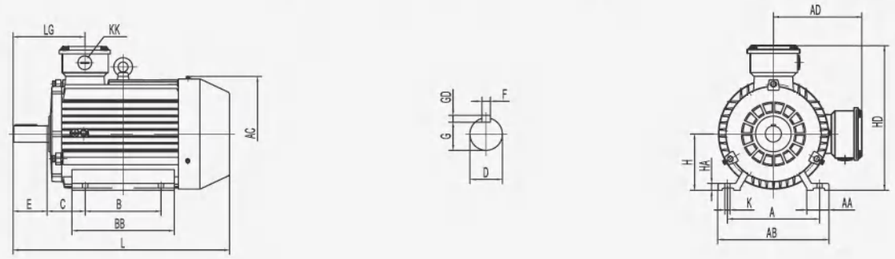
Motor Type	Power (kW)	Current (A)									Speed 50Hz (r/min)	Speed 60Hz (r/min)	Eff. η%			P.F. cos φ			Torque (N.m)	Tst/Tn	Tmax/Tn	Ist/In	Noise dB (A) no load	Weight (kg)	Inertia (kg·m²)
		220V	380V	660V	230V	400V	690V	240V	415V	720V			100%	75%	50%	100%	75%	50%							
IE3-100L1-8	0.75	3.9	2.3	1.31	3.8	2.2	1.25	3.6	2.1	1.2	690	828	75.0	74.4	72.5	0.67	0.64	0.57	10	1.8	2.0	4.0	59	29	0.0070
IE3-100L2-8	1.1	5.4	3.1	1.79	5.2	3	1.72	4.9	2.9	1.65	690	828	77.7	77.4	75.5	0.69	0.66	0.59	15	1.8	2.0	5.0	59	33	0.0104
IE3-112M-8	1.5	7.1	4.1	2.4	6.8	3.9	2.3	6.5	3.7	2.2	690	828	79.7	78.9	77.0	0.70	0.67	0.60	21	1.8	2.0	5.0	61	42	0.0170
IE3-132S-8	2.2	9.9	5.7	3.3	9.5	5.5	3.2	9.1	5.3	3.0	710	852	81.9	81.3	80.2	0.71	0.67	0.60	30	1.8	2.0	6.0	64	59	0.0371
IE3-132M-8	3	12.9	7.5	4.3	12.4	7.1	4.1	11.8	6.8	4.0	710	852	83.5	83.4	81.5	0.73	0.69	0.62	40	1.8	2.0	6.0	64	69	0.0503
IE3-160M1-8	4	17.0	9.8	5.7	16.2	9.3	5.4	15.5	9	5.2	720	864	84.8	84.8	82.1	0.73	0.69	0.62	53	1.9	2.0	6.0	68	102	0.0766
IE3-160M2-8	5.5	22.6	13.1	7.5	21.6	12.4	7.2	20.7	12	6.9	720	864	86.2	85.3	83.5	0.74	0.70	0.63	73	1.9	2.0	6.0	68	113	0.1052
IE3-160L-8	7.5	30.1	17.4	10.0	28.8	16.5	9.6	27.6	15.9	9.2	720	864	87.3	86.4	84.1	0.75	0.71	0.64	99	1.9	2.0	6.0	68	132	0.1435
IE3-180L-8	11	43.4	25.2	14.5	41.6	23.9	13.9	39.8	23	13.3	730	876	88.6	87.7	85.4	0.75	0.71	0.64	144	2.0	2.0	6.5	70	171	0.2493
IE3-200L-8	15	57.8	33.5	19.3	55.3	31.8	18.4	53.0	30.6	17.7	730	876	89.6	88.9	86.6	0.76	0.72	0.65	196	2.0	2.0	6.6	73	226	0.3824
IE3-225S-8	18.5	70.9	41	23.6	67.8	39	22.6	65.0	37.6	21.7	730	876	90.1	89.0	86.9	0.76	0.72	0.65	242	1.9	2.0	6.6	73	269	0.5828
IE3-225M-8	22	81.7	47.3	27.2	78.2	44.9	26.1	74.9	43.3	25.0	740	888	90.6	89.5	87.7	0.78	0.74	0.66	284	1.9	2.0	6.6	73	289	0.6661
IE3-250M-8	30	109	63.2	36.4	104	60	34.8	100	57.9	33.4	740	888	91.3	90.4	88.6	0.79	0.75	0.67	387	1.9	2.0	6.5	75	388	1.0819
IE3-280S-8	37	134	77.5	44.6	128	73.6	42.7	123	71	40.9	740	888	91.8	90.9	89.4	0.79	0.75	0.67	478	1.9	2.0	6.6	76	503	1.8803
IE3-280M-8	45	162	93.9	54.1	155	89.2	51.7	149	86	49.5	740	888	92.2	91.4	90.1	0.79	0.75	0.67	581	1.9	2.0	6.6	76	557	2.2360
IE3-315S-8	55	193	112	64.2	184	106	61.4	177	102	58.9	740	888	92.5	91.6	90.4	0.81	0.77	0.69	710	1.8	2.0	6.6	82	750	4.2151
IE3-315M-8	75	261	151	87.0	250	144	83.2	239	138	79.8	740	888	93.1	92.0	90.9	0.81	0.77	0.69	968	1.8	2.0	6.2	82	900	5.3744
IE3-315L1-8	90	308	179	103	295	170	98.3	283	163	94.2	740	888	93.4	92.3	91.3	0.82	0.78	0.70	1161	1.8	2.0	6.4	82	1011	7.1658
IE3-315L2-8	110	376	218	125	359	207	120	344	199	115	740	888	93.7	92.8	91.7	0.82	0.78	0.70	1420	1.8	2.0	6.4	82	1120	8.8519
IE3-355M1-8	132	449	260	150	430	247	143	412	238	137	740	888	94.0	93.1	92.0	0.82	0.78	0.70	1704	1.8	2.0	6.4	90	1579	13.5754
IE3-355M2-8	160	543	314	181	519	299	173	498	288	166	740	888	94.3	93.6	92.5	0.82	0.78	0.70	2065	1.8	2.0	6.4	90	1695	16.0761
IE3-355L1-8	185	618	358	206	591	340	197	567	328	189	740	888	94.6	94.0	93.0	0.83	0.79	0.71	2388	1.8	2.0	6.4	90	1794	18.9342
IE3-355L2-8	200	668	387	223	639	368	213	613	354	204	740	888	94.6	94.0	93.0	0.83	0.79	0.71	2581	1.8	2.0	6.4	90	1892	20.3631
IE3-355L3-8	220	735	426	245	703	404	234	674	390	225	740	888	94.6	94.0	93.0	0.83	0.79	0.71	2839	2.0	2.0	6.9	90	2012	21.8215

8P

Dimension drawings

B3

80-132



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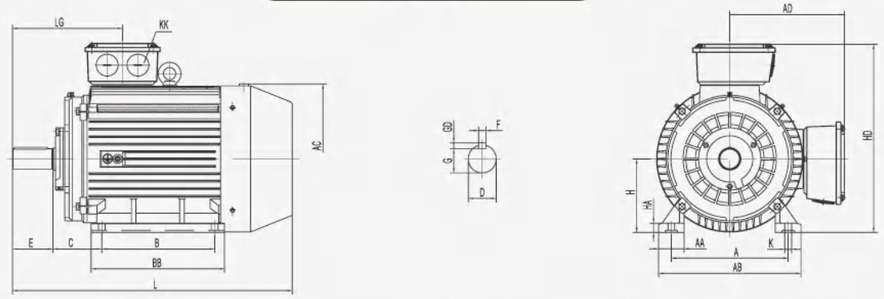

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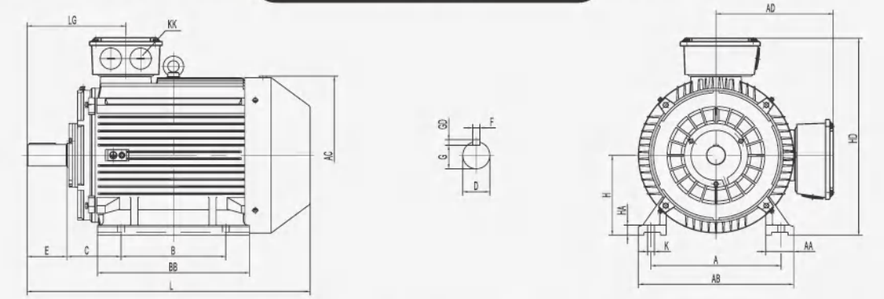
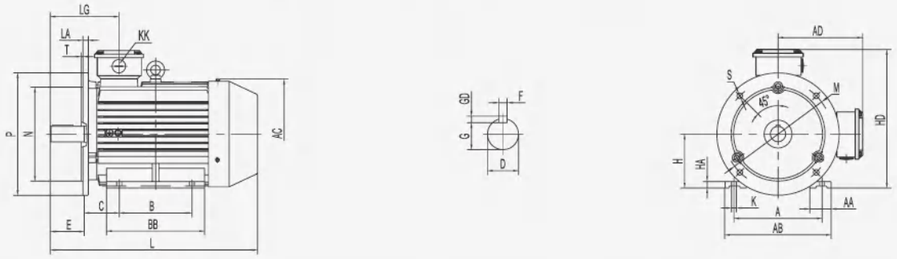


Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	KK	L	LG
80	125	34	160	180	160	100	130	50	19	40	6	15.5	6	80	10	240	10	1-M25X1.5	305	112
90S	140	36	180	210	170	100	160	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	340	126
90L	140	36	180	210	170	125	185	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	365	126
100L	160	40	200	220	185	140	206	63	28	60	8	24	7	100	14	285	12	1-M25X1.5	410	139
112M	190	45	230	236	198	140	180	70	28	60	8	24	7	112	14	310	12	2-M32X1.5	410	144
132S	216	53	265	275	223	140	200	89	38	80	10	33	8	132	16	355	12	2-M32X1.5	485	167
132M	216	53	265	275	223	178	238	89	38	80	10	33	8	132	16	355	12	2-M32X1.5	525	167
160M	254	65	320	340	265	210	307	108	42	110	12	37	8	160	19	430	14.5	2-M40X1.5	665	260
160L	254	65	320	340	265	254	341	108	42	110	12	37	8	160	19	430	14.5	2-M40X1.5	711	260
180M	279	70	350	390	285	241	320	121	48	110	14	42.5	9	180	22	465	14.5	2-M40X1.5	730	277
180L	279	70	350	390	285	279	367	121	48	110	14	42.5	9	180	22	465	14.5	2-M40X1.5	777	277
200L	318	80	390	420	310	305	355	133	55	110	16	49	10	200	25	510	18.5	2-M50X1.5	790	298
225S(4-8P)	356	75	435	465	335	286	350	149	60	140	18	53	11	225	28	560	18.5	2-M50X1.5	840	338
225M(2P)	356	75	435	465	335	311	375	149	55	110	16	49	10	225	28	560	18.5	2-M50X1.5	835	308
225M(4-8P)	356	75	435	465	335	311	375	149	60	140	18	53	11	225	28	560	18.5	2-M50X1.5	865	338
250M(2P)	406	100	485	520	385	349	445	168	60	140	18	53	11	250	33	635	24	2-M63X1.5	945	357
250M(4-8P)	406	100	485	520	385	349	445	168	65	140	18	58	11	250	33	635	24	2-M63X1.5	945	357
280S(2P)	457	105	550	570	415	368	490	190	65	140	18	58	11	280	35	695	24	2-M63X1.5	990	357
280S(4-8P)	457	105	550	570	415	368	490	190	75	140	20	67.5	12	280	35	695	24	2-M63X1.5	990	357
280M(2P)	457	105	550	570	415	419	540	190	65	140	18	58	11	280	35	695	24	2-M63X1.5	1045	357
280M(4-8P)	457	105	550	570	415	419	540	190	75	140	20	67.5	12	280	35	695	24	2-M63X1.5	1045	357
315S(2P)	508	125	630	650	500	406	515	216	65	140	18	58	11	315	45	815	28	2-M63X1.5	1185	391
315M(2P)	508	125	630	650	500	457	625	216	65	140	18	58	11	315	45	815	28	2-M63X1.5	1295	391
315L(2P)	508	125	630	650	500	508	625	216	65	140	18	58	11	315	45	815	28	2-M63X1.5	1295	391
315S(4-8P)	508	125	630	650	500	406	515	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1215	421
315M(4-8P)	508	125	630	650	500	457	625	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1325	421
315L(4-8P)	508	125	630	650	500	508	625	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1325	421
355M(2P)	610	115	725	735	645	560	750	254	75	140	20	67.5	12	355	52	1000	28	2-M63X1.5	1650	420
355L(2P)	610	115	725	735	645	630	750	254	75	140	20	67.5	12	355	52	1000	28	2-M63X1.5	1650	420
355M(4-8P)	610	115	725	735	645	560	750	254	95	170	25	86	14	355	52	1000	28	2-M63X1.5	1680	450
355L(4-8P)	610	115	725	735	645	630	750	254	95	170	25	86	14	355	52	1000	28	2-M63X1.5	1680	450

B35

80-132



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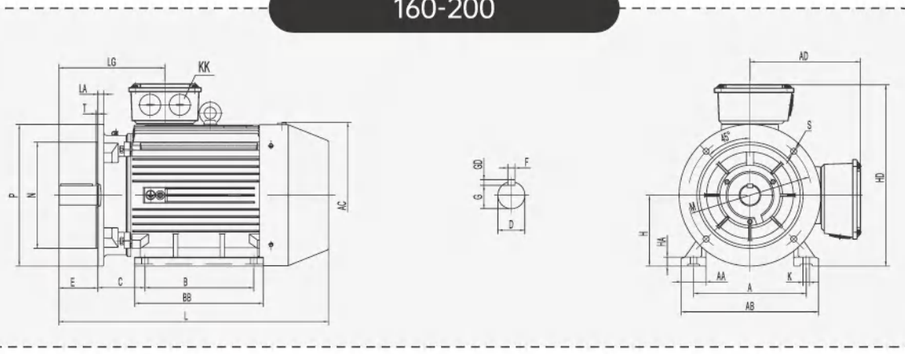

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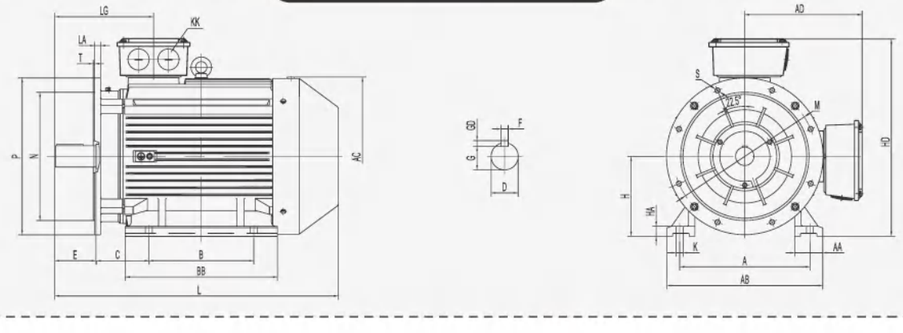
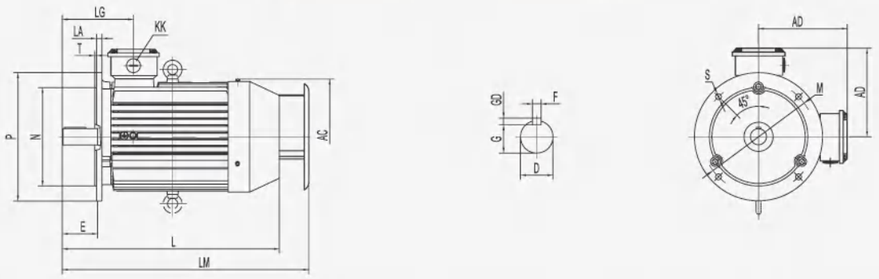


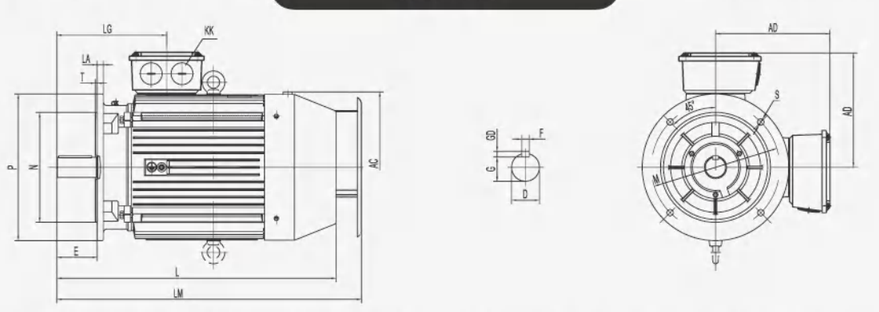
Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L	LA	LG	M	N	P	S	T	KK
80	125	34	160	180	160	100	130	50	19	40	6	15.5	6	80	10	240	10	305	14	112	165	130	200	12	3.5	1-M25X1.5
90S	140	36	180	210	170	100	160	56	24	50	8	20	7	90	12.5	260	10	340	12	126	165	130	200	12	3.5	1-M25X1.5
90L	140	36	180	210	170	125	185	56	24	50	8	20	7	90	12.5	260	10	365	12	126	165	130	200	12	3.5	1-M25X1.5
100L	160	40	200	220	185	140	206	63	28	60	8	24	7	100	14	285	12	410	14	139	215	180	250	14.5	4	1-M25X1.5
112M	190	45	230	236	198	140	180	70	28	60	8	24	7	112	14	310	12	410	14	144	215	180	250	14.5	4	2-M32X1.5
132S	216	53	265	275	223	140	200	89	38	80	10	33	8	132	16	355	12	485	14	167	265	230	300	14.5	4	2-M32X1.5
132M	216	53	265	275	223	178	238	89	38	80	10	33	8	132	16	355	12	525	14	167	265	230	300	14.5	4	2-M32X1.5
160M	254	65	320	340	265	210	307	108	42	110	12	37	8	160	19	430	14.5	665	15	260	300	250	350	18.5	5	2-M40X1.5
160L	254	65	320	340	265	254	341	108	42	110	12	37	8	160	19	430	14.5	711	15	260	300	250	350	18.5	5	2-M40X1.5
180M	279	70	350	390	285	241	320	121	48	110	14	42.5	9	180	22	465	14.5	730	15	277	300	250	350	18.5	5	2-M40X1.5
180L	279	70	350	390	285	279	367	121	48	110	14	42.5	9	180	22	465	14.5	777	15	277	300	250	350	18.5	5	2-M40X1.5
200L	318	80	390	420	310	305	355	133	55	110	16	49	10	200	25	510	18.5	790	17	298	350	300	400	18.5	5	2-M50X1.5
225S(4-8P)	356	75	435	465	335	286	350	149	60	140	18	53	11	225	28	560	18.5	840	19	338	400	350	450	18.5	5	2-M50X1.5
225M(2P)	356	75	435	465	335	311	375	149	55	110	16	49	10	225	28	560	18.5	835	19	308	400	350	450	18.5	5	2-M50X1.5
225M(4-8P)	356	75	435	465	335	311	375	149	60	140	18	53	11	225	28	560	18.5	865	19	338	400	350	450	18.5	5	2-M50X1.5
250M(2P)	406	100	485	520	385	349	445	168	60	140	18	53	11	250	33	635	24	945	20	357	500	450	550	18.5	5	2-M63X1.5
250M(4-8P)	406	100	485	520	385	349	445	168	65	140	18	58	11	250	33	635	24	945	20	357	500	450	550	18.5	5	2-M63X1.5
280S(2P)	457	105	550	570	415	368	490	190	65	140	18	58	11	280	35	695	24	990	22	357	500	450	550	18.5	5	2-M63X1.5
280S(4-8P)	457	105	550	570	415	368	490	190	75	140	20	67.5	12	280	35	695	24	990	22	357	500	450	550	18.5	5	2-M63X1.5
280M(2P)	457	105	550	570	415	419	540	190	65	140	18	58	11	280	35	695	24	1045	22	357	500	450	550	18.5	5	2-M63X1.5
280M(4-8P)	457	105	550	570	415	419	540	190	75	140	20	67.5	12	280	35	695	24	1045	22	357	500	450	550	18.5	5	2-M63X1.5
315S(2P)	508	125	630	650	500	406	515	216	65	140	18	58	11	315	45	815	28	1185	24	391	600	550	660	24	6	2-M63X1.5
315M(2P)	508	125	630	650	500	457	625	216	65	140	18	58	11	315	45	815	28	1295	24	391	600	550	660	24	6	2-M63X1.5
315L(2P)	508	125	630	650	500	508	625	216	65	140	18	58	11	315	45	815	28	1295	24	391	600	550	660	24	6	2-M63X1.5
315S(4-8P)	508	125	630	650	500	406	515	216	80	170	22	71	14	315	45	815	28	1215	24	421	600	550	660	24	6	2-M63X1.5
315M(4-8P)	508	125	630	650	500	457	625	216	80	170	22	71	14	315	45	815	28	1325	24	421	600	550	660	24	6	2-M63X1.5
315L(4-8P)	508	125	630	650	500	508	625	216	80	170	22	71	14	315	45	815	28	1325	24	421	600	550	660	24	6	2-M63X1.5
355M(2P)	610	115	725	735	645	560	750	254	75	140	20	67.5	12	355	52	1000	28	1650	25	420	740	680	800	24	6	2-M63X1.5
355L(2P)	610	115	725	735	645	630	750	254	75	140	20	67.5	12	355	52	1000	28	1650	25	420	740	680	800	24	6	2-M63X1.5
355M(4-8P)	610	115	725	735	645	560	750	254	95	170	25	86	14	355	52	1000	28	1680	25	450	740	680	800	24	6	2-M63X1.5
355L(4-8P)	610	115	725	735	645	630	750	254	95	170	25	86	14	355	52	1000	28	1680	25	450	740	680	800	24	6	2-M63X1.5

B5&V1

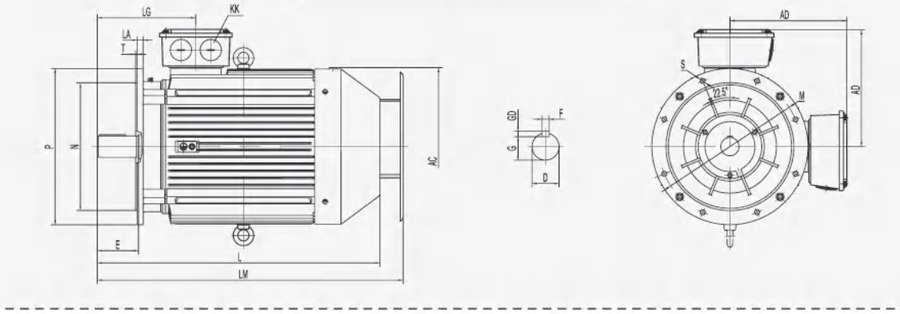
80-132



160-200



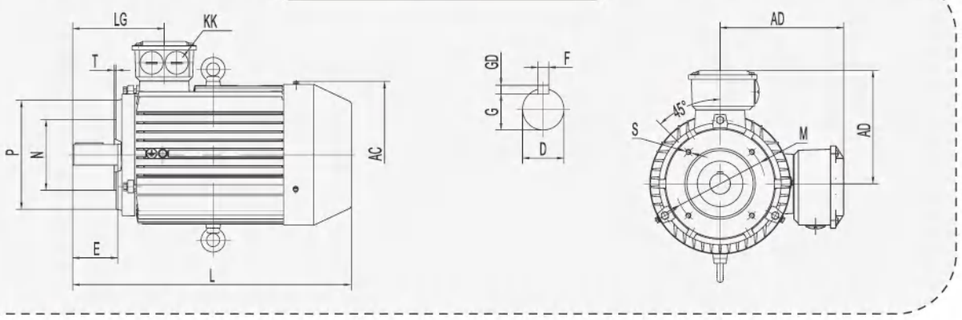
225-355



Frame size	AC	AD	D	E	F	G	GD	L	LA	LG	LM	M	N	P	S	T	KK
80	180	160	19	40	6	15.5	6	305	14	112	345	165	130	200	12	3.5	1-M25X1.5
90S	210	170	24	50	8	20	7	340	12	126	380	165	130	200	12	3.5	1-M25X1.5
90L	210	170	24	50	8	20	7	365	12	126	405	165	130	200	12	3.5	1-M25X1.5
100L	220	185	28	60	8	24	7	410	14	139	450	215	180	250	14.5	4	1-M25X1.5
112M	236	198	28	60	8	24	7	410	14	144	460	215	180	250	14.5	4	2-M32X1.5
132S	275	223	38	80	10	33	8	485	14	167	535	265	230	300	14.5	4	2-M32X1.5
132M	275	223	38	80	10	33	8	525	14	167	575	265	230	300	14.5	4	2-M32X1.5
160M	340	265	42	110	12	37	8	665	15	260	715	300	250	350	18.5	5	2-M40X1.5
160L	340	265	42	110	12	37	8	711	15	260	761	300	250	350	18.5	5	2-M40X1.5
180M	390	285	48	110	14	42.5	9	730	15	277	800	300	250	350	18.5	5	2-M40X1.5
180L	390	285	48	110	14	42.5	9	777	15	277	847	300	250	350	18.5	5	2-M40X1.5
200L	420	310	55	110	16	49	10	790	17	298	860	350	300	400	18.5	5	2-M50X1.5
225S(4-8P)	465	335	60	140	18	53	11	840	19	338	910	400	350	450	18.5	5	2-M50X1.5
225M(2P)	465	335	55	110	16	49	10	835	19	308	905	400	350	450	18.5	5	2-M50X1.5
225M(4-8P)	465	335	60	140	18	53	11	865	19	338	935	400	350	450	18.5	5	2-M50X1.5
250M(2P)	520	385	60	140	18	53	11	945	20	357	1025	500	450	550	18.5	5	2-M63X1.5
250M(4-8P)	520	385	65	140	18	58	11	945	20	357	1025	500	450	550	18.5	5	2-M63X1.5
280S(2P)	570	415	65	140	18	58	11	990	22	357	1070	500	450	550	18.5	5	2-M63X1.5
280S(4-8P)	570	415	75	140	20	67.5	12	990	22	357	1070	500	450	550	18.5	5	2-M63X1.5
280M(2P)	570	415	65	140	18	58	11	1045	22	357	1125	500	450	550	18.5	5	2-M63X1.5
280M(4-8P)	570	415	75	140	20	67.5	12	1045	22	357	1125	500	450	550	18.5	5	2-M63X1.5
315S(2P)	650	500	65	140	18	58	11	1185	24	391	1275	600	550	660	24	6	2-M63X1.5
315M(2P)	650	500	65	140	18	58	11	1295	24	391	1385	600	550	660	24	6	2-M63X1.5
315L(2P)	650	500	65	140	18	58	11	1295	24	391	1385	600	550	660	24	6	2-M63X1.5
315S(4-8P)	650	500	80	170	22	71	14	1215	24	421	1305	600	550	660	24	6	2-M63X1.5
315M(4-8P)	650	500	80	170	22	71	14	1325	24	421	1415	600	550	660	24	6	2-M63X1.5
315L(4-8P)	650	500	80	170	22	71	14	1325	24	421	1415	600	550	660	24	6	2-M63X1.5
355M(2P)	735	645	75	140	20	67.5	12	1650	25	420	1740	740	680	800	24	6	2-M63X1.5
355L(2P)	735	645	75	140	20	67.5	12	1650	25	420	1740	740	680	800	24	6	2-M63X1.5
355M(4-8P)	735	645	95	170	25	86	14	1680	25	450	1770	740	680	800	24	6	2-M63X1.5
355L(4-8P)	735	645	95	170	25	86	14	1680	25	450	1770	740	680	800	24	6	2-M63X1.5

B14

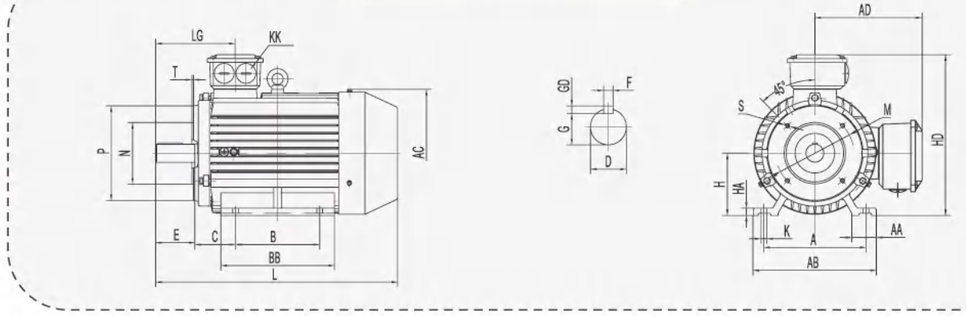
80-160



Frame size	AC	AD	D	E	F	G	GD	L	LG	M	N	P	S	T	KK
80	180	160	19	40	6	15.5	6	305	112	100	80	120	M6	3	1-M25X1.5
90S	210	170	24	50	8	20	7	340	126	115	95	140	M8	3	1-M25X1.5
90L	210	170	24	50	8	20	7	365	126	115	95	140	M8	3	1-M25X1.5
100L	220	185	28	60	8	24	7	410	139	130	110	160	M8	3.5	1-M25X1.5
112M	236	198	28	60	8	24	7	410	144	130	110	160	M8	3.5	2-M32X1.5
132S	275	223	38	80	10	33	8	485	167	165	130	200	M10	3.5	2-M32X1.5
132M	275	223	38	80	10	33	8	525	167	165	130	200	M10	3.5	2-M32X1.5
160M	340	265	42	110	12	37	8	665	260	215	180	250	M12	4	2-M40X1.5
160L	340	265	42	110	12	37	8	711	260	215	180	250	M12	4	2-M40X1.5

B34

80-160



Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L	LG	M	N	P	S	T	KK
80	125	34	160	180	160	100	130	50	19	40	6	15.5	6	80	10	240	10	305	112	100	80	120	M6	3	1-M25X1.5
90S	140	36	180	210	170	100	160	56	24	50	8	20	7	90	12.5	260	10	340	126	115	95	140	M8	3	1-M25X1.5
90L	140	36	180	210	170	125	185	56	24	50	8	20	7	90	12.5	260	10	365	126	115	95	140	M8	3	1-M25X1.5
100L	160	40	200	220	185	140	206	63	28	60	8	24	7	100	14	285	12	410	139	130	110	160	M8	3.5	1-M25X1.5
112M	190	45	230	236	198	140	180	70	28	60	8	24	7	112	14	310	12	410	144	130	110	160	M8	3.5	2-M32X1.5
132S	216	53	265	275	223	140	200	89	38	80	10	33	8	132	16	355	12	485	167	165	130	200	M10	3.5	2-M32X1.5
132M	216	53	265	275	223	178	238	89	38	80	10	33	8	132	16	355	12	525	167	165	130	200	M10	3.5	2-M32X1.5
160M	254	65	320	340	265	210	307	108	42	110	12	37	8	160	19	430	14.5	665	260	215	180	250	M12	4	2-M40X1.5
160L	254	65	320	340	265	254	341	108	42	110	12	37	8	160	19	430	14.5	711	260	215	180	250	M12	4	2-M40X1.5

ORDERING INFORMATION

When placing an order, please provide the rated data of the required product, including model, power, voltage, speed, insulation class, protection class, and installation type. The following motors can be designed and customized according to customer's request:

1. Motors with different voltage, frequency, and power;
2. Motors with special installation dimensions, double extension shaft, and special shaft;
3. High-temperature and low-temperature resistant motors;
4. Motors for high-altitude and outdoor use;
5. Various compact and increased power motors and motors with different service factor;
6. Motors equipped with heaters, bearing temperature sensors, winding temperature sensors, and thermal protection switches;
7. Motors with photoelectric encoders, insulated bearings, or insulated bearing structures;
8. Other motors with various special requirements.

This catalogue is for reference only.
Any changes in specific data will not be notified separately.

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