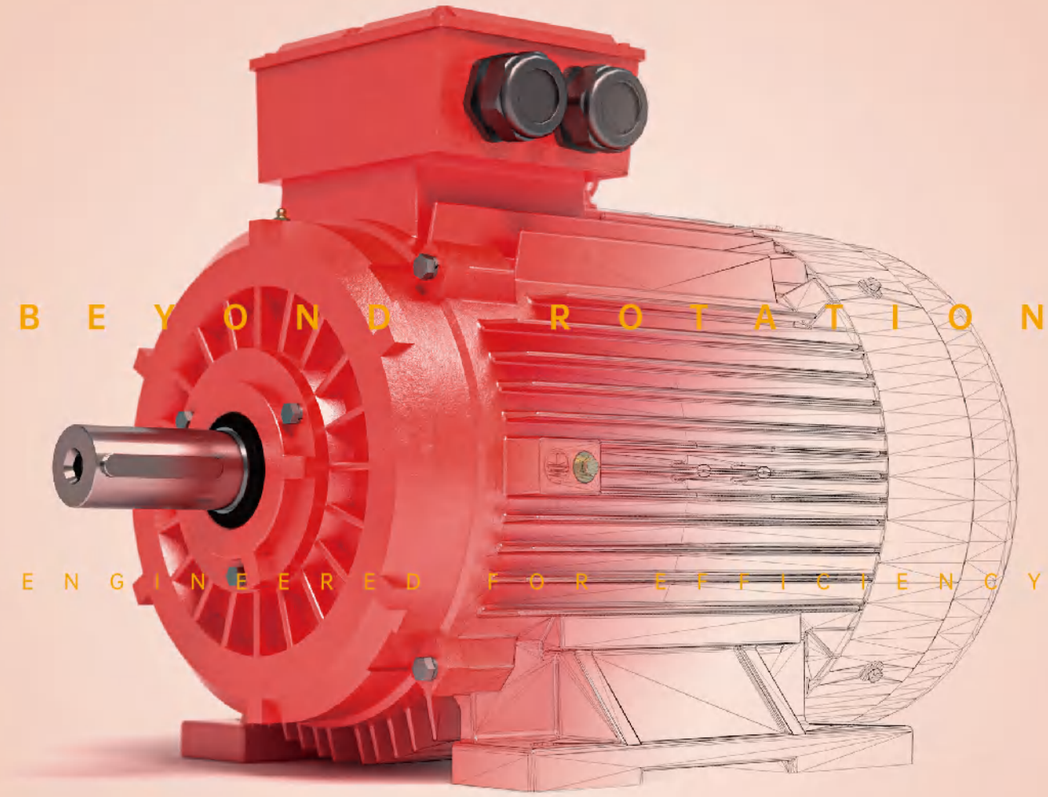
SHANDONG SUNVIM MOTOR CO.,LTD

Add:No.1 Fuyuan Qian Street ,Gaomi,Shandong,261500 China
Tel：0086-536-5827128
https://www.sunvimmotor.com
Export Business Email：motorexport@sunvim.com

SUNVIM



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

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SUNVIM

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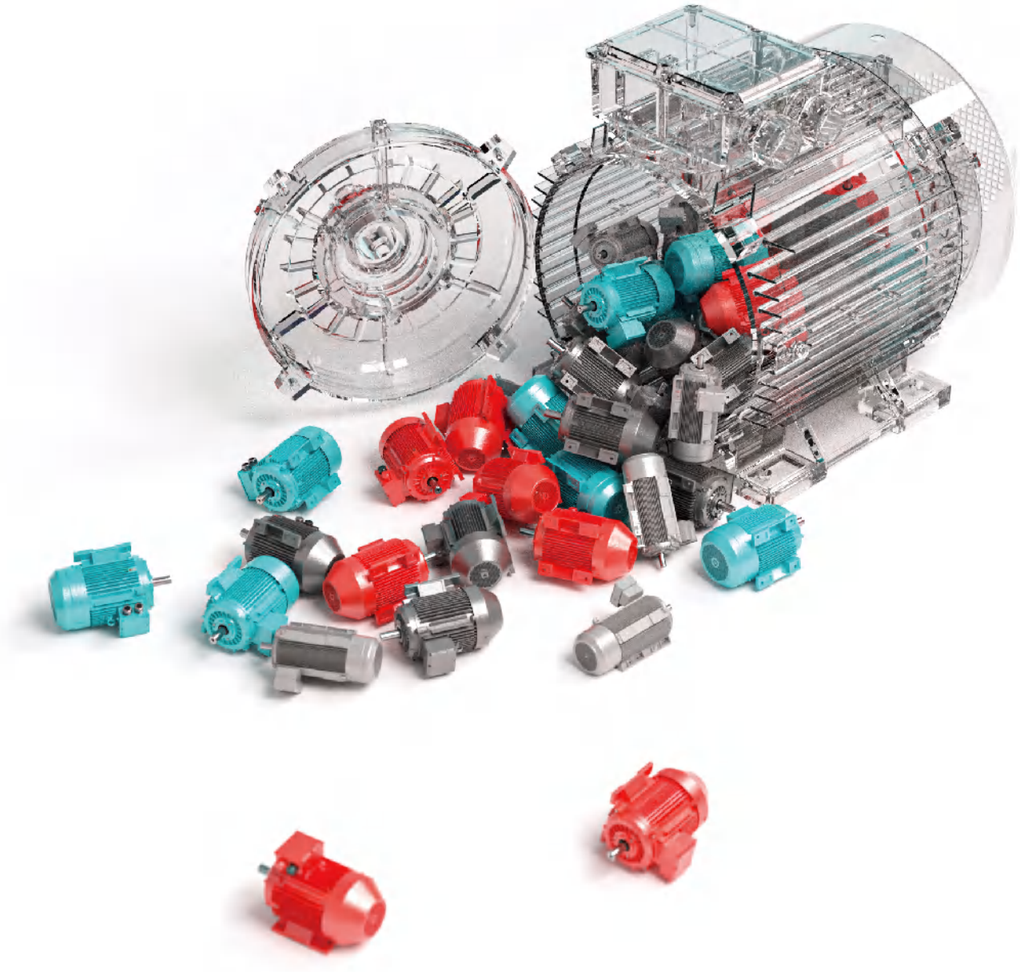


The exporing of Sunvim Home Textiles products have ranked the first in the industry for 24 consecutive years

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.

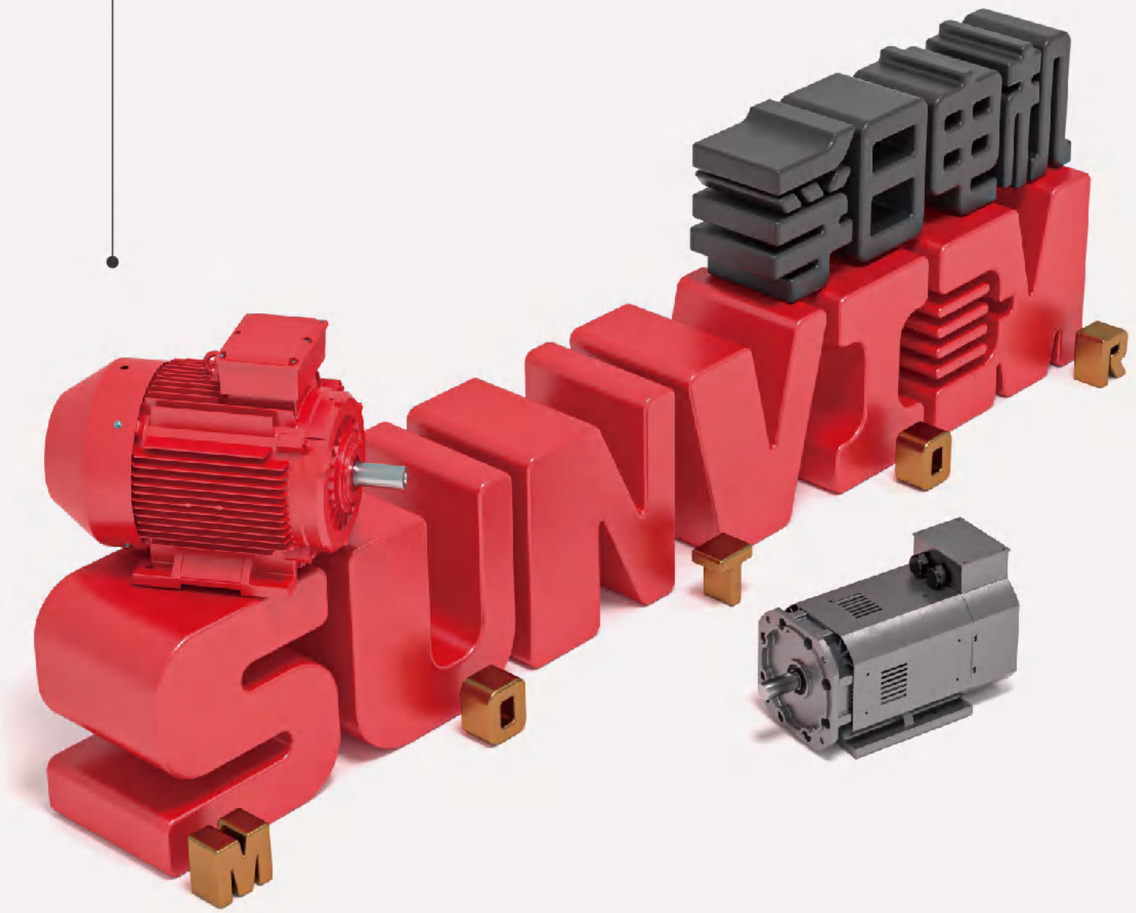
Group industry

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

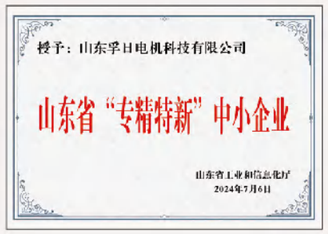
200,000,000

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.

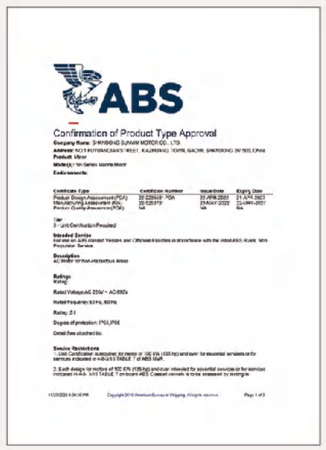
The main products include IE3/IE4 high-efficiency three-phase asynchronous motors and IE5 ultra-high-efficiency energy-saving motors. It possesses the industry leading research, design and production capabilities for ultra-high-efficiency synchronous reluctance motors, permanent magnet synchronous motors, 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



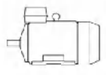
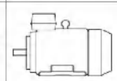
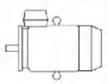
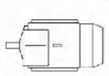
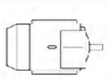
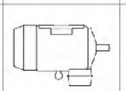
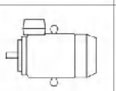
Marine certificates



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.

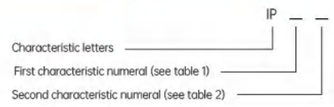


Table 1

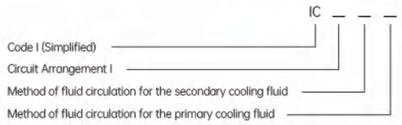
The first numeral	Brief description	Definition
0	Non-protected machine	No specific protection
1	Machine protected against solid objects greater than 50 mm	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such as a hand (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

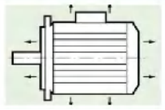
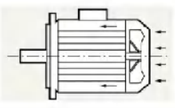
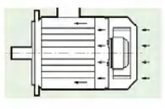
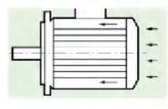
Table 2

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

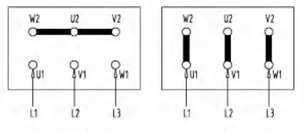
Cooling

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

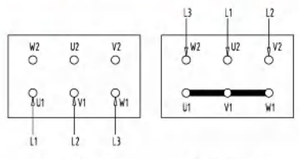


IC code	IC410(TENV)	IC411(TEFC)	IC416(TEBC)	IC418(TEAO)
Figure				
Description	Enclosed machine, surface-cooledby natural convection and radiation.No external fan.	Enclosed machine. Smooth or finned ventilated casingExtemal shaft-mounted fan.	Enclosed machine. Smooth or finned enclosed casing. External 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.

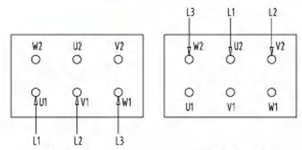
Connection



Single speed motor



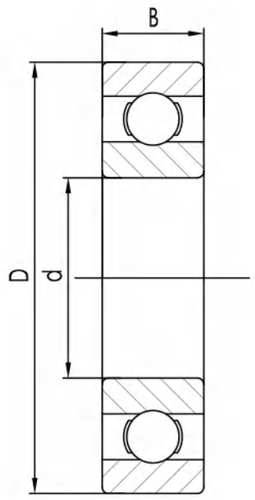
Double speed motor (Single winding with 6 terminals)



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

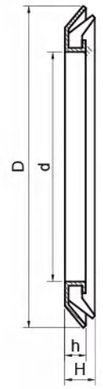
Table

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.

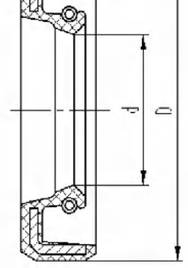
Gamma seal

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



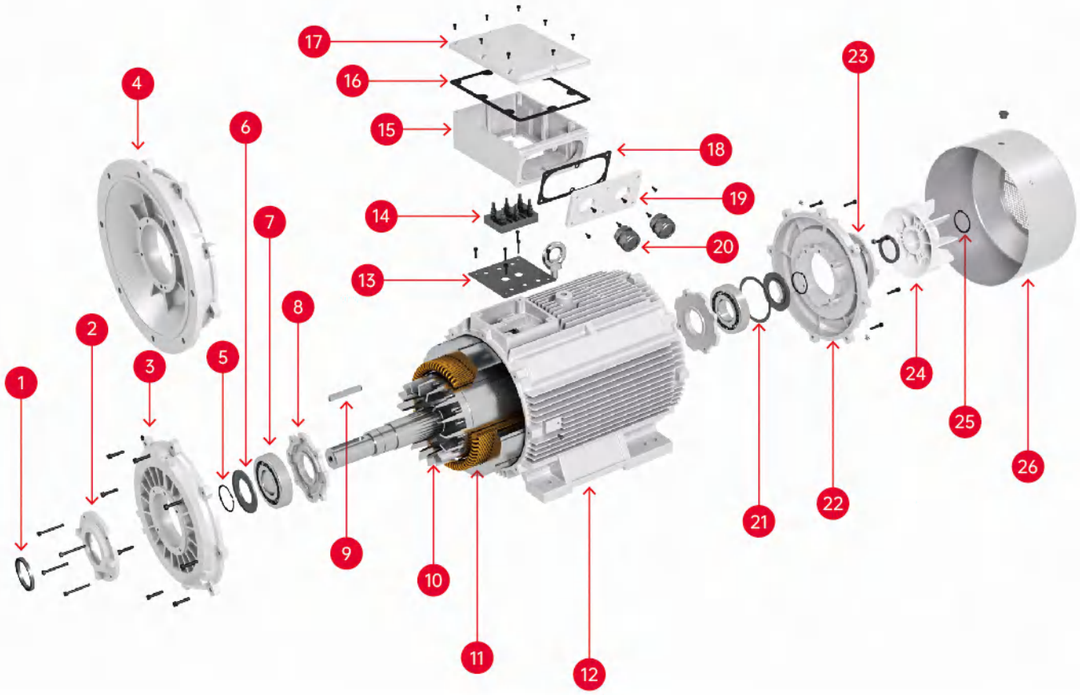
Vibration

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

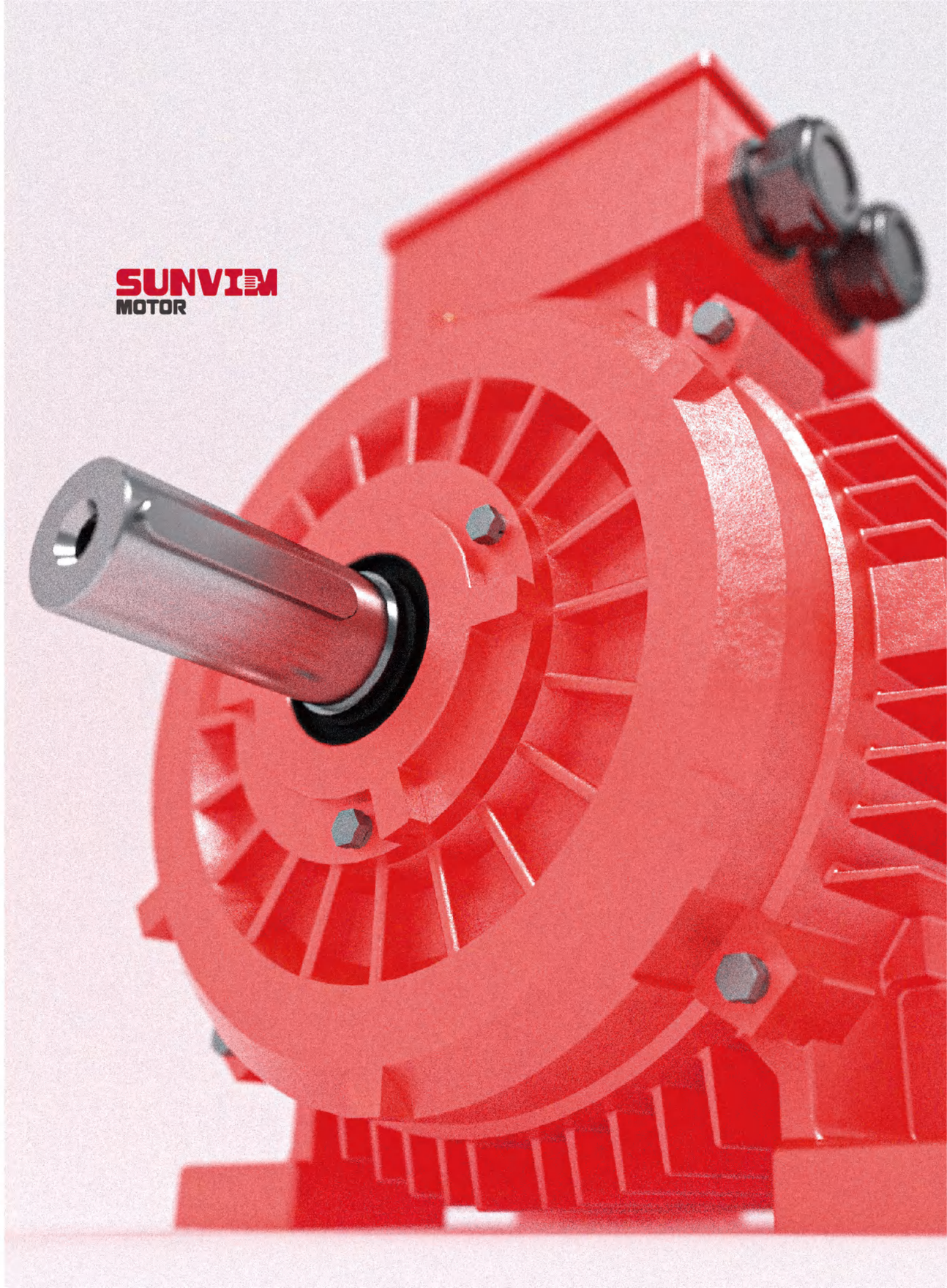
Grade "A" applies to machines with no special vibration requirements.
Grade "B" applies to machines with special vibration requirements.
Rigid mounting is not considered acceptable for machines with shaft heights less than 132 mm.

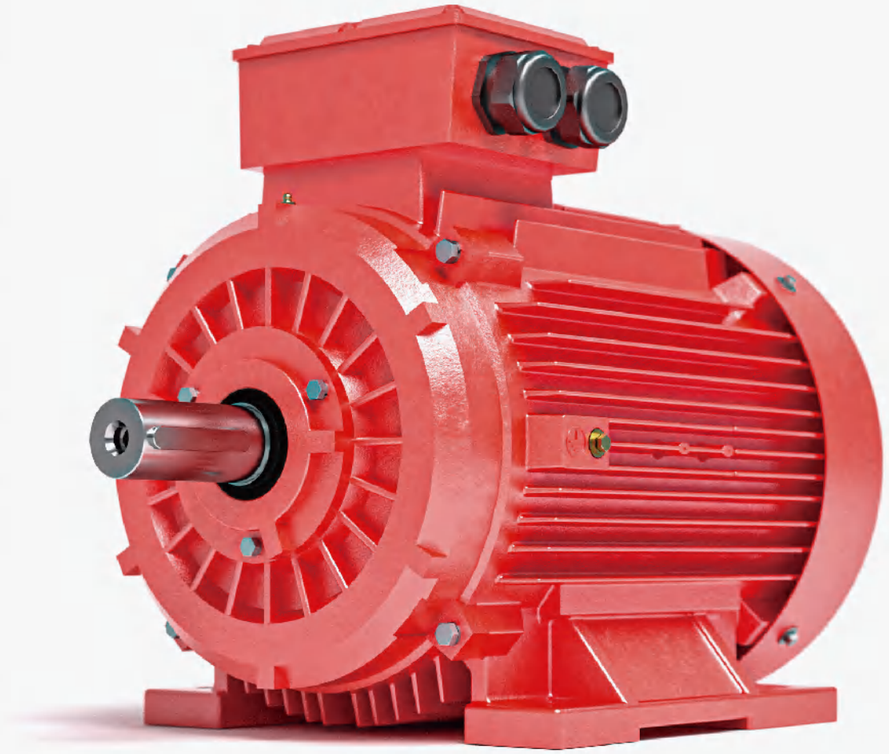
NOTE:

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





IE2 motors

Standard: IEC60034-30
Efficiency class: IE2
Frame size: 80-355
Output: 0.18-355kW
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%							
IE2-63M1-2	0.18	0.98	0.57	0.33	0.94	0.54	0.31	0.9	0.52	0.3	2720	3264	60.4	61.6	60.2	0.80	0.76	0.68	0.6	2.2	2.2	5.6	58	7.6	0.0003
IE2-63M2-2	0.25	1.27	0.73	0.42	1.21	0.7	0.4	1.16	0.67	0.39	2720	3264	64.8	65.2	64.1	0.80	0.76	0.68	0.9	2.2	2.2	5.6	58	8.5	0.0004
IE2-71M1-2	0.37	1.72	1	0.57	1.65	0.9	0.55	1.58	0.9	0.53	2745	3294	69.5	70	69	0.81	0.77	0.69	1.3	2.2	2.2	6.1	62	9.3	0.0005
IE2-71M2-2	0.55	2.4	1.4	0.8	2.3	1.3	0.77	2.2	1.3	0.73	2745	3294	74.1	74	71.3	0.81	0.77	0.69	1.9	2.2	2.2	6.1	62	10	0.0006
IE2-80M1-2	0.75	3.1	1.8	1.03	3.0	1.7	0.99	2.8	1.6	0.95	2830	3396	77.4	77.0	73.8	0.82	0.78	0.70	2.5	2.3	2.3	6.8	62	15	0.0008
IE2-80M2-2	1.1	4.4	2.5	1.46	4.2	2.4	1.39	4.0	2.3	1.34	2830	3396	79.6	79.9	78.1	0.83	0.79	0.71	3.7	2.3	2.3	7.1	62	16	0.0010
IE2-90S-2	1.5	5.8	3.3	1.92	5.5	3.2	1.84	5.3	3.1	1.76	2840	3408	81.3	81.7	80.1	0.84	0.8	0.71	5.0	2.3	2.3	7.3	67	21	0.0015
IE2-90L-2	2.2	8.2	4.7	2.7	7.8	4.5	2.6	7.5	4.3	2.5	2840	3408	83.2	83.9	82.9	0.85	0.81	0.72	7.4	2.3	2.3	7.6	67	24	0.0020
IE2-100L-2	3	10.7	6.2	3.6	10.2	5.9	3.4	9.8	5.7	3.3	2870	3444	84.6	84.7	83.1	0.87	0.83	0.74	10.0	2.2	2.3	7.8	74	31	0.0032
IE2-112M-2	4	13.9	8	4.6	13.3	7.6	4.4	12.7	7.4	4.3	2890	3468	85.8	86.3	85.5	0.88	0.84	0.75	13.2	2.2	2.3	8.1	77	43	0.0076
IE2-132S1-2	5.5	18.9	10.9	6.3	18.0	10.4	6.0	17.3	10	5.8	2900	3480	87.0	87.3	86.3	0.88	0.84	0.75	18.1	2.2	2.3	8.2	79	58	0.0115
IE2-132S2-2	7.5	25.1	14.5	8.4	24.0	13.8	8.0	23.0	13.3	7.7	2900	3480	88.1	88.8	88.4	0.89	0.85	0.76	24.7	2.2	2.3	7.8	79	62	0.0135
IE2-160M1-2	11	36.3	21	12.1	34.7	20	11.6	33.3	19.2	11.1	2935	3522	89.4	88.8	88.4	0.89	0.85	0.76	35.8	2.2	2.3	7.9	81	112	0.0416
IE2-160M2-2	15	49.0	28.4	16.3	46.9	26.9	15.6	44.9	26	15.0	2935	3522	90.3	90.0	88.5	0.89	0.85	0.76	48.8	2.2	2.3	7.9	81	121	0.0510
IE2-160L-2	18.5	60.0	34.7	20.0	57.4	33	19.1	55.0	31.8	18.3	2935	3522	90.9	90.8	89.8	0.89	0.85	0.76	60.2	2.2	2.3	8.0	81	136	0.0604
IE2-180M-2	22	71.1	41.1	23.7	68.0	39.1	22.7	65.1	37.7	21.7	2940	3528	91.3	90.9	89.2	0.89	0.85	0.76	71.5	2.2	2.3	8.1	83	166	0.0857
IE2-200L1-2	30	96.2	55.7	32.1	92.0	52.9	30.7	88.1	51	29.4	2950	3540	92.0	91.7	90.4	0.89	0.85	0.76	97.1	2.0	2.3	7.5	84	232	0.1460
IE2-200L2-2	37	118	68.3	39.3	113	64.9	37.6	108	62.5	36.0	2950	3540	92.5	92.3	91.2	0.89	0.85	0.76	120	2.0	2.3	7.5	84	252	0.1779
IE2-225M-2	45	143	82.7	47.6	137	78.6	45.5	131	75.7	43.6	2970	3564	92.9	92.6	91.4	0.89	0.85	0.76	145	2.2	2.3	7.5	86	286	0.2322
IE2-250M-2	55	174	101	58.0	166	95.7	55.5	160	92.2	53.2	2970	3564	93.2	92.8	91.5	0.89	0.85	0.76	177	2.2	2.3	7.6	89	379	0.3251
IE2-280S-2	75	236	137	78.6	226	130	75.2	216	125	72.0	2975	3570	93.8	93.3	91.9	0.89	0.85	0.76	241	1.8	2.3	6.9	91	477	0.5205
IE2-280M-2	90	282	163	94.0	270	155	89.9	259	150	86.2	2975	3570	94.1	93.7	92.5	0.89	0.85	0.76	289	1.8	2.3	6.9	91	530	0.6310
IE2-315S-2	110	-	197	113	-	187	108	-	180	104	2980	3576	94.3	93.8	92.5	0.90	0.86	0.77	353	1.8	2.2	7.0	92	762	1.2692
IE2-315M-2	132	-	236	136	-	224	130	-	216	124	2980	3576	94.6	94.2	93.1	0.90	0.86	0.77	423	1.8	2.2	7.0	92	871	1.4505
IE2-315L1-2	160	-	282	162	-	268	155	-	258	149	2980	3576	94.8	94.3	93.0	0.91	0.86	0.77	513	1.8	2.2	7.1	92	961	1.8131
IE2-315L2-2	185	-	326	188	-	310	179	-	298	172	2980	3576	94.8	94.3	93.0	0.91	0.86	0.77	593	1.8	2.2	7.1	92	1020	2.3570
IE2-315L3-2	200	-	352	202	-	334	194	-	322	186	2980	3576	95.0	94.6	93.5	0.91	0.86	0.77	641	1.8	2.2	7.1	92	1089	2.3570
IE2-355M1-2	220	-	387	223	-	367	213	-	354	204	2980	3576	95.0	94.6	93.5	0.91	0.86	0.77	705	1.6	2.2	7.1	92	1465	2.7299
IE2-355M2-2	250	-	439	253	-	417	242	-	402	232	2980	3576	95.0	94.7	93.6	0.91	0.86	0.77	801	1.6	2.2	7.1	100	1572	3.2418
IE2-355L1-2	280	-	492	283	-	468	271	-	451	260	2980	3576	95.0	94.7	93.6	0.91	0.86	0.77	897	1.6	2.2	7.1	100	1712	3.9243
IE2-355L2-2	315	-	554	319	-	526	305	-	507	292	2980	3576	95.0	94.7	93.6	0.91	0.86	0.77	1009	1.6	2.2	7.2	100	1789	4.2655

2P

Technical data (at 50Hz)

4P

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%							
IE2-63M1-4	0.12	0.74	0.43	0.25	0.71	0.41	0.24	0.68	0.39	0.23	1335	1602	59.1	58.8	55.5	0.72	0.68	0.61	0.9	2	2.2	4.4	52	7.6	0.0006
IE2-63M2-4	0.18	1.00	0.58	0.33	0.96	0.55	0.32	0.92	0.53	0.31	1335	1602	64.7	64.9	61.8	0.73	0.69	0.62	1.3	2	2.2	4.4	52	8.5	0.0007
IE2-71M1-4	0.25	1.29	0.75	0.43	1.24	0.71	0.41	1.19	0.69	0.4	1340	1608	68.5	68.5	65.1	0.74	0.7	0.63	1.8	2	2.2	5.2	54	9.3	0.0009
IE2-71M2-4	0.37	1.78	1.03	0.59	1.7	1	0.57	1.63	0.94	0.54	1340	1608	72.7	72.6	69.7	0.75	0.71	0.64	2.6	2	2.2	5.2	54	10	0.0010
IE2-80M1-4	0.55	2.5	1.45	0.83	2.4	1.4	0.8	2.3	1.3	0.76	1390	1668	77.1	77	74.8	0.75	0.71	0.64	3.8	2.3	2.3	6.4	56	14	0.0013
IE2-80M2-4	0.75	3.3	1.9	1.08	3.1	1.8	1.04	3.0	1.7	0.99	1390	1668	79.6	79.5	77.3	0.76	0.72	0.65	5.2	2.3	2.3	6.4	56	17	0.0018
IE2-90S-4	1.1	4.6	2.7	1.54	4.4	2.5	1.47	4.2	2.4	1.41	1400	1680	81.4	82.4	80.8	0.77	0.73	0.65	7.5	2.3	2.3	6.6	59	21	0.0026
IE2-90L-4	1.5	6.1	3.5	2.0	5.8	3.4	1.94	5.6	3.2	1.86	1400	1680	82.8	83.8	83.2	0.78	0.74	0.66	10.2	2.3	2.3	6.7	59	24	0.0031
IE2-100L1-4	2.2	8.6	5	2.9	8.2	4.7	2.7	7.9	4.5	2.6	1430	1716	84.3	84.5	83.0	0.80	0.76	0.68	14.7	2.3	2.3	7.3	64	32	0.0069
IE2-100L2-4	3	11.4	6.6	3.8	10.9	6.3	3.6	10.4	6	3.5	1430	1716	85.5	85.7	84.4	0.81	0.77	0.69	20.0	2.3	2.3	7.5	64	36	0.0089
IE2-112M-4	4	15.0	8.7	5.0	14.3	8.2	4.8	13.7	7.9	4.6	1440	1728	86.6	87.1	86.8	0.81	0.77	0.69	26.5	2.3	2.3	7.5	65	45	0.0137
IE2-132S-4	5.5	19.8	11.5	6.6	19.0	10.9	6.3	18.2	10.5	6.1	1440	1728	87.7	88.3	87.9	0.83	0.79	0.71	36.5	2.0	2.3	7.5	71	63	0.0294
IE2-132M-4	7.5	26.7	15.5	8.9	25.6	14.7	8.5	24.5	14.2	8.2	1440	1728	88.7	89.2	88.6	0.83	0.79	0.71	49.7	2.0	2.3	7.3	71	73	0.0370
IE2-160M-4	11	37.8	21.9	12.6	36.2	20.8	12.1	34.7	20	11.6	1470	1764	89.8	89.9	88.9	0.85	0.81	0.72	71.5	2.0	2.3	7.4	73	117	0.0841
IE2-160L-4	15	50.5	29.3	16.8	48.3	27.8	16.1	46.3	26.8	15.4	1470	1764	90.6	90.7	89.9	0.86	0.82	0.73	97.4	2.0	2.3	7.5	73	137	0.1091
IE2-180M-4	18.5	61.9	35.8	20.6	59.2	34	19.7	56.7	32.8	18.9	1475	1770	91.2	91.4	90.7	0.86	0.82	0.73	120	2.0	2.3	7.6	76	163	0.1460
IE2-180L-4	22	73.3	42.4	24.4	70.1	40.3	23.4	67.2	38.9	22.4	1475	1770	91.6	91.7	91.0	0.86	0.82	0.73	142	2.1	2.3	7.7	76	177	0.1642
IE2-200L-4	30	99.2	57.4	33.1	94.9	54.6	31.6	90.9	52.6	30.3	1475	1770	92.3	92.5	92.0	0.86	0.82	0.73	194	2.1	2.3	7.1	76	236	0.2612
IE2-225S-4	37	122	70.5	40.6	117	67	38.8	112	64.6	37.2	1480	1776	92.7	92.6	91.6	0.86	0.82	0.73	239	2.1	2.3	7.3	78	284	0.4570
IE2-225M-4	45	148	85.4	49.2	141	81.1	47.0	135	78.2	45.1	1480	1776	93.1	92.9	91.8	0.86	0.82	0.73	290	2.2	2.3	7.3	78	312	0.5511
IE2-250M-4	55	180	104	59.8	172	98.7	57.2	165	95.2	54.9	1485	1782	93.5	93.4	92.5	0.86	0.82	0.73	354	2.2	2.3	7.3	79	387	0.6478
IE2-280S-4	75	238	138	79.3	228	131	75.9	218	126	72.7	1485	1782	94.0	93.8	92.8	0.88	0.84	0.75	482	2.2	2.3	6.8	80	502	1.1785
IE2-280M-4	90	285	165	95.0	273	157	90.9	261	151	87.1	1485	1782	94.2	94.0	93.1	0.88	0.84	0.75	579	2.2	2.3	6.9	80	555	1.3900
IE2-315S-4	110	343	199	114	328	189	109	315	182	105	1490	1788	94.5	94.2	93.2	0.89	0.85	0.76	705	2.1	2.2	6.9	88	778	2.5752
IE2-315M-4	132	411	238	137	393	226	131	377	218	126	1490	1788	94.7	94.6	93.8	0.89	0.85	0.76	846	2.1	2.2	6.9	88	891	2.9111
IE2-315L1-4	160	497	288	166	476	273	159	456	264	152	1490	1788	94.9	94.9	94.2	0.89	0.85	0.76	1026	2.1	2.2	6.9	88	973	3.5829
IE2-315L2-4	185	574	332	191	549	316	183	526	304	175	1490	1788	95.0	95.0	94.3	0.89	0.85	0.76	1186	2.1	2.2	6.9	88	1024	4.0308
IE2-315L3-4	200	613	355	204	587	337	196	562	325	187	1490	1788	95.1	95.2	94.7	0.90	0.86	0.77	1282	2.1	2.2	6.9	88	1111	4.7026
IE2-355M1-4	220	-	391	225	-	371	215	-	358	206	1490	1788	95.1	95.0	94.1	0.90	0.86	0.77	1410	2.0	2.2	6.9	95	1508	6.3033
IE2-355M2-4	250	-	444	256	-	422	244	-	406	234	1490	1788	95.1	95.0	94.1	0.90	0.86	0.77	1602	2.0	2.2	6.9	95	1599	6.8763
IE2-355L1-4	280	-	497	286	-	472	274	-	455	262	1490	1788	95.1	95.0	94.1	0.90	0.86	0.77	1795	2.0	2.2	6.9	95	1650	7.8314
IE2-355L2-4	315	-	559	322	-	531	308	-	512	295	1490	1788	95.1	95.0	94.1	0.90	0.86	0.77	2019	2.0	2.2	6.9	95	1749	8.7864
IE2-355L3-4	355	-	645	371	-	612	355	-	590	340	1490	1788	95.1	95.0	94.1	0.88	0.84	0.75	2275	2.0	2.2	6.9	95	1882	10.3145

Technical data (at 50Hz)

6P

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%							
IE2-71M1-6	0.18	1.26	0.73	0.42	1.21	0.7	0.4	1.16	0.67	0.39	860	1032	56.6	56.7	52.5	0.66	0.63	0.56	2	1.9	2	4	51	10	0.0013
IE2-71M2-6	0.25	1.57	0.91	0.52	1.5	0.9	0.5	1.44	0.83	0.48	860	1032	61.6	61.9	59.1	0.68	0.65	0.58	2.8	1.9	2	4	51	11	0.0015
IE2-80M1-6	0.37	2.1	1.2	0.68	1.96	1.1	0.65	1.88	1.09	0.63	880	1056	67.6	68	64.5	0.7	0.67	0.60	4	1.9	2	4.7	54	13	0.0018
IE2-80M2-6	0.55	2.8	1.6	0.93	2.7	1.5	0.89	2.6	1.5	0.85	880	1056	73.1	73.9	71.2	0.71	0.67	0.60	6	1.9	2.1	4.7	54	15	0.0024
IE2-90S-6	0.75	3.7	2.1	1.22	3.5	2	1.16	3.4	1.9	1.12	910	1092	75.9	76.2	73.1	0.71	0.67	0.60	7.9	2.0	2.1	5.8	57	21	0.0033
IE2-90L-6	1.1	5.1	3	1.71	4.9	2.8	1.64	4.7	2.7	1.57	910	1092	78.1	77.8	75.1	0.72	0.68	0.61	11.5	2.0	2.1	5.9	57	24	0.0045
IE2-100L-6	1.5	6.9	4	2.3	6.6	3.8	2.2	6.3	3.6	2.1	940	1128	79.8	80.1	78.0	0.72	0.68	0.61	15.2	2.0	2.1	5.9	61	31	0.0080
IE2-112M-6	2.2	9.8	5.7	3.3	9.4	5.4	3.1	9.0	5.2	3.0	940	1128	81.8	82.5	81.3	0.72	0.68	0.61	22.4	2.0	2.1	6.2	65	40	0.0147
IE2-132S-6	3	13.1	7.6	4.4	12.6	7.2	4.2	12.0	7	4.0	960	1152	83.3	84.1	83.1	0.72	0.68	0.61	29.8	2.0	2.1	6.4	69	55	0.0286
IE2-132M1-6	4	16.8	9.7	5.6	16.0	9.2	5.4	15.4	8.9	5.1	960	1152	84.6	85.5	84.8	0.74	0.7	0.63	39.8	2.0	2.1	6.6	69	63	0.0376
IE2-132M2-6	5.5	22.4	13	7.5	21.4	12.3	7.1	20.5	11.9	6.8	960	1152	86.0	86.8	86.3	0.75	0.71	0.64	54.7	2.0	2.1	6.8	69	73	0.0537
IE2-160M-6	7.5	28.9	16.8	9.7	27.7	15.9	9.2	26.5	15.3	8.8	970	1164	87.2	87.4	86.3	0.78	0.74	0.66	73.8	2.0	2.1	6.8	73	107	0.0862
IE2-160L-6	11	41.2	23.9	13.7	39.4	22.7	13.1	37.8	21.8	12.6	970	1164	88.7	88.8	87.7	0.79	0.75	0.67	108	2.0	2.1	6.9	73	131	0.1292
IE2-180L-6	15	53.5	31	17.8	51.2	29.4	17.1	49.1	28.4	16.4	970	1164	89.7	90.0	89.2	0.82	0.78	0.70	148	2.0	2.1	7.3	73	169	0.2174
IE2-200L1-6	18.5	67.1	38.9	22.4	64.2	36.9	21.4	61.5	35.6	20.5	970	1164	90.4	90.7	90.0	0.80	0.76	0.68	182	2.0	2.1	7.2	73	217	0.3132
IE2-200L2-6	22	78.4	45.4	26.1	75.0	43.1	25.0	71.9	41.6	24.0	970	1164	90.9	91.2	90.6	0.81	0.77	0.69	217	2.0	2.1	7.3	73	231	0.3654
IE2-225M-6	30	105	60.6	34.9	100	57.6	33.4	96.0	55.5	32.0	980	1176	91.7	92.0	91.4	0.82	0.78	0.70	292	2.0	2.1	6.8	74	292	0.6137
IE2-250M-6	37	127	73.5	42.3	121	69.8	40.5	116	67.3	38.8	980	1176	92.2	92.4	92.0	0.83	0.79	0.71	361	2.0	2.1	7.0	76	366	0.8368
IE2-280S-6	45	150	86.8	50.0	143	82.4	47.8	137	79.5	45.8	980	1176	92.7	92.8	92.1	0.85	0.81	0.72	439	2.0	2.0	7.2	78	469	1.4151
IE2-280M-6	55	180	104	60.1	172	99.2	57.5	165	95.6	55.1	980	1176	93.1	93.2	92.6	0.86	0.82	0.73	536	2.0	2.0	7.2	78	518	1.6649
IE2-315S-6	75	250	145	83.4	239	138	79.7	229	133	76.4	990	1188	93.7	93.6	92.8	0.84	0.8	0.71	723	2.0	2.0	6.5	83	723	2.9510
IE2-315M-6	90	296	171	98.5	283	163	94.3	271	157	90.3	990	1188	94.0	93.9	93.2	0.85	0.81	0.72	868	2.0	2.0	6.6	83	857	3.6887
IE2-315L1-6	110	360	209	120	345	198	115	330	191	110	990	1188	94.3	94.2	93.5	0.85	0.81	0.72	1061	2.0	2.0	6.6	83	933	4.5740
IE2-315L2-6	132	426	247	142	407	234	136	390	226	130	990	1188	94.6	94.4	94.0	0.86	0.82	0.73	1273	2.0	2.0	6.6	83	1008	5.4593
IE2-355M1-6	160	515	298	172	493	283	164	472	273	157	990	1188	94.8	94.7	93.7	0.86	0.82	0.73	1543	2.0	2.0	6.7	85	1439	7.6441
IE2-355M2-6	185	595	344	198	569	327	190	545	315	182	990	1188	94.9	94.8	93.8	0.86	0.82	0.73	1785	2.0	2.0	6.7	85	1507	8.5996
IE2-355M3-6	200	642	372	214	615	353	205	589	341	196	990	1188	95.0	94.9	94.2	0.86	0.82	0.73	1929	2.0	2.0	6.8	85	1570	9.5551
IE2-355L1-6	220	-	409	236	-	389	225	-	375	216	990	1188	95.0	94.9	94.2	0.86	0.82	0.73	2122	2.0	2.0	6.8	85	1631	10.5106
IE2-355L2-6	250	-	465	268	-	442	256	-	426	245	990	1188	95.0	94.9	94.2	0.86	0.82	0.73	2412	2.0	2.0	6.8	85	1731	11.9439
IE2-355L3-6	280	-	521	300	-	495	287	-	477	275	990	1188	95.0	94.9	94.2	0.86	0.82	0.73	2701	2.0	2.0	6.8	85	1832	13.3771
IE2-355L4-6	315	-	586	337	-	557	323	-	536	309	991	1189	95.0	94.8	93.8	0.86	0.82	0.73	3036	2.0	2.0	6.8	85	2060	15.2145

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%							
IE2-80M1-8	0.18	1.69	0.98	0.56	1.61	0.93	0.54	1.55	0.89	0.52	630	756	45.9	46.2	42.2	0.61	0.58	0.52	2.7	1.8	1.9	3.3	52	16	0.0021
IE2-80M2-8	0.25	2.1	1.2	0.7	2	1.15	0.67	1.92	1.11	0.64	640	768	50.6	50.8	46.5	0.62	0.59	0.53	3.7	1.8	1.9	3.3	52	17	0.0025
IE2-90S-8	0.37	2.8	1.6	0.92	2.6	1.5	0.88	2.5	1.46	0.84	660	792	56.1	57.2	55.0	0.63	0.6	0.54	5.4	1.8	1.9	4.0	56	21	0.0039
IE2-90L-8	0.55	3.6	2.1	1.2	3.4	2	1.15	3.3	1.9	1.1	660	792	61.7	61.8	57.5	0.65	0.62	0.55	8.0	1.8	2.0	4.0	56	23	0.0045
IE2-100L1-8	0.75	4.4	2.6	1.48	4.2	2.4	1.41	4.1	2.4	1.36	690	828	66.2	65.6	63.7	0.67	0.64	0.57	10.4	1.8	2.0	4.0	59	27	0.0063
IE2-100L2-8	1.1	5.9	3.4	2.0	5.7	3.3	1.88	5.4	3.1	1.81	690	828	70.8	70.5	68.6	0.69	0.66	0.59	15.2	1.8	2.0	5.0	59	31	0.0094
IE2-112M-8	1.5	7.6	4.4	2.5	7.3	4.2	2.4	7.0	4.0	2.3	690	828	74.1	73.3	71.4	0.7	0.67	0.60	20.8	1.8	2.0	5.0	61	39	0.0153
IE2-132S-8	2.2	10.5	6.1	3.5	10.0	5.8	3.3	9.6	5.6	3.2	710	852	77.6	77.0	75.9	0.71	0.67	0.60	29.6	1.8	2.0	6.0	64	56	0.0334
IE2-132M-8	3	13.5	7.8	4.5	12.9	7.4	4.3	12.4	7.1	4.1	710	852	80.0	79.9	78.0	0.73	0.69	0.62	40.4	1.8	2.0	6.0	64	66	0.0453
IE2-160M1-8	4	17.6	10.2	5.9	16.8	9.7	5.6	16.1	9.3	5.4	720	864	81.9	81.9	79.2	0.73	0.69	0.62	53.1	1.9	2.0	6.0	68	97	0.0690
IE2-160M2-8	5.5	23.3	13.5	7.8	22.3	12.8	7.4	21.3	12.3	7.1	720	864	83.8	82.9	81.1	0.74	0.7	0.63	73.0	1.9	2.0	6.0	68	108	0.0948
IE2-160L-8	7.5	30.8	17.8	10.3	29.4	16.9	9.8	28.2	16.3	9.4	720	864	85.3	84.4	82.1	0.75	0.71	0.64	99.5	1.9	2.0	6.0	68	127	0.1293
IE2-180L-8	11	44.3	25.6	14.8	42.4	24.4	14.1	40.6	23.5	13.5	730	876	86.9	86.0	83.7	0.75	0.71	0.64	144	2.0	2.0	6.5	70	166	0.2246
IE2-200L-8	15	58.9	34.1	19.6	56.3	32.4	18.8	54.0	31.2	18.0	730	876	88.0	87.3	85.0	0.76	0.72	0.65	196	2.0	2.0	6.6	73	217	0.3445
IE2-225S-8	18.5	72.1	41.7	24.0	69.0	39.7	23.0	66.1	38.2	22.0	730	876	88.6	87.5	85.4	0.76	0.72	0.65	242	1.9	2.0	6.6	73	259	0.5250
IE2-225M-8	22	83.1	48.1	27.7	79.5	45.7	26.5	76.2	44.0	25.4	740	888	89.1	88.0	86.2	0.78	0.74	0.66	284	1.9	2.0	6.6	73	278	0.6001
IE2-250M-8	30	111	64.3	37.0	106	61	35.4	102	58.8	33.9	740	888	89.8	88.9	87.1	0.79	0.75	0.67	387	1.9	2.0	6.5	75	373	0.9747
IE2-280S-8	37	136	78.8	45.4	130	74.9	43.4	125	72.2	41.6	740	888	90.3	89.4	87.9	0.79	0.75	0.67	478	1.9	2.0	6.6	76	484	1.6940
IE2-280M-8	45	165	95.4	54.9	158	90.7	52.6	151	87.4	50.4	740	888	90.7	89.9	88.6	0.79	0.75	0.67	581	1.9	2.0	6.6	76	536	2.0144
IE2-315S-8	55	196	113	65.3	187	108	62.4	180	104	59.8	740	888	91.0	90.1	88.9	0.81	0.77	0.69	710	1.8	2.0	6.6	82	721	3.7974
IE2-315M-8	75	265	154	88.4	254	146	84.6	243	141	81.1	740	888	91.6	90.5	89.4	0.81	0.77	0.69	968	1.8	2.0	6.2	82	865	4.8418
IE2-315L1-8	90	313	181	104	300	172	99.9	287	166	95.8	740	888	91.9	90.8	89.8	0.82	0.78	0.70	1161	1.8	2.0	6.4	82	972	6.4557
IE2-315L2-8	110	381	221	127	365	210	122	350	202	117	740	888	92.3	91.4	90.3	0.82	0.78	0.70	1420	1.8	2.0	6.4	82	1077	7.9747
IE2-355M1-8	132	456	264	152	436	251	145	418	242	139	740	888	92.6	91.2	90.1	0.82	0.78	0.70	1704	1.8	2.0	6.4	90	1520	12.2301
IE2-355M2-8	160	551	319	184	527	303	176	505	292	168	740	888	93.0	92.3	91.2	0.82	0.78	0.70	2065	1.8	2.0	6.4	90	1630	14.4830
IE2-355M3-8	185	626	362	209	598	344	199	573	332	191	740	888	93.5	92.9	91.9	0.83	0.79	0.71	2388	1.8	2.0	6.4	90	1725	17.0578
IE2-355L1-8	200	676	392	225	647	372	216	620	359	207	740	888	93.5	92.9	91.9	0.83	0.79	0.71	2581	1.8	2.0	6.4	90	1819	18.3451
IE2-355L2-8	220	744	431	248	712	409	237	682	394	227	740	888	93.5	92.9	91.9	0.83	0.79	0.71	2839	1.8	2.0	6.4	90	1935	19.6590

8P

Dimension drawings

B3

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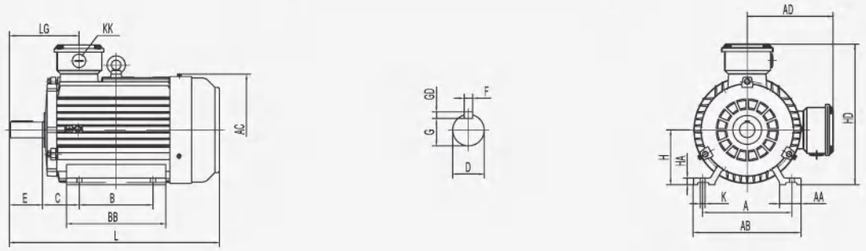

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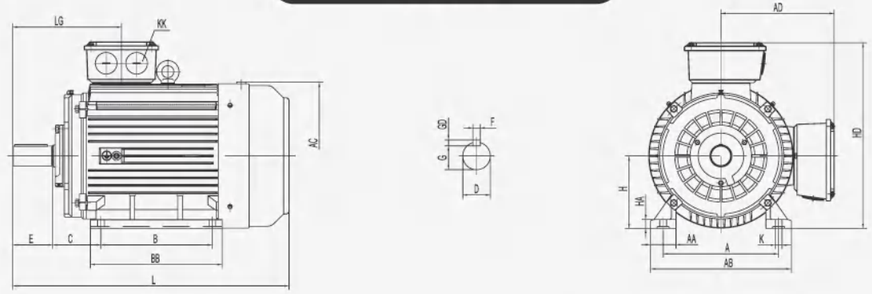

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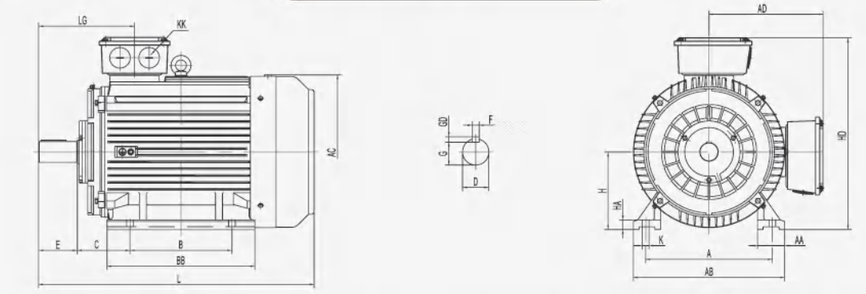

Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	KK	L	LG
80	125	34	160	175	150	100	130	50	19	40	6	15.5	6	80	10	230	10	1-M25X1.5	295	112
90S	140	36	180	190	170	100	135	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	320	126
90L	140	36	180	190	170	125	160	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	345	126
100L	160	40	200	215	180	140	176	63	28	60	8	24	7	100	14	280	12	1-M25X1.5	385	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	330	265	210	258	108	42	110	12	37	8	160	19	430	14.5	2-M40X1.5	610	260
160L	254	65	320	330	265	254	302	108	42	110	12	37	8	160	19	430	14.5	2-M40X1.5	655	260
180M	279	70	350	380	285	241	282	121	48	110	14	42.5	9	180	22	465	14.5	2-M40X1.5	680	277
180L	279	70	350	380	285	279	320	121	48	110	14	42.5	9	180	22	465	14.5	2-M40X1.5	720	277
200L	318	80	390	420	310	305	355	133	55	110	16	49	10	200	25	510	18.5	2-M50X1.5	770	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	825	338
225M(2P)	356	75	435	465	335	311	375	149	55	110	16	49	10	225	28	560	18.5	2-M50X1.5	820	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	850	338
250M(2P)	406	100	485	520	385	349	445	168	60	140	18	53	11	250	33	635	24	2-M63X1.5	925	357
250M(4-8P)	406	100	485	520	385	349	445	168	65	140	18	58	11	250	33	635	24	2-M63X1.5	925	357
280S(2P)	457	105	550	570	415	368	490	190	65	140	18	58	11	280	35	695	24	2-M63X1.5	970	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	1025	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	1160	391
315M(2P)	508	125	630	650	500	457	625	216	65	140	18	58	11	315	45	815	28	2-M63X1.5	1270	391
315L(2P)	508	125	630	650	500	508	625	216	65	140	18	58	11	315	45	815	28	2-M63X1.5	1270	391
315S(4-8P)	508	125	630	650	500	406	515	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1190	421
315M(4-8P)	508	125	630	650	500	457	625	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1300	421
315L(4-8P)	508	125	630	650	500	508	625	216	80	170	22	71	14	315	45	815	28	2-M63X1.5	1300	421
355M(2P)	610	115	725	735	645	560	750	254	75	140	20	67.5	12	355	52	1000	28	2-M63X1.5	1600	420
355L(2P)	610	115	725	735	645	630	750	254	75	140	20	67.5	12	355	52	1000	28	2-M63X1.5	1600	420
355M(4-8P)	610	115	725	735	645	560	750	254	95	170	25	86	14	355	52	1000	28	2-M63X1.5	1630	450
355L(4-8P)	610	115	725	735	645	630	750	254	95	170	25	86	14	355	52	1000	28	2-M63X1.5	1630	450

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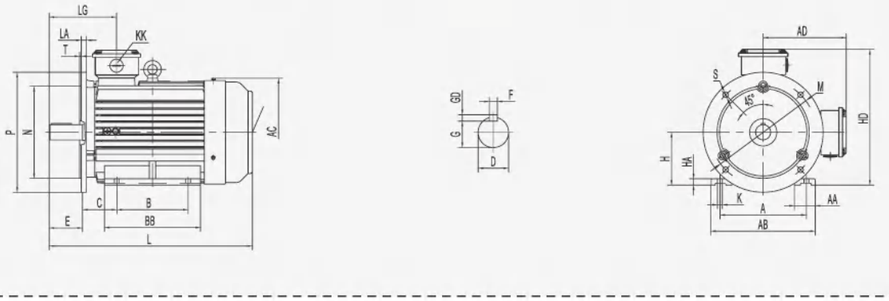
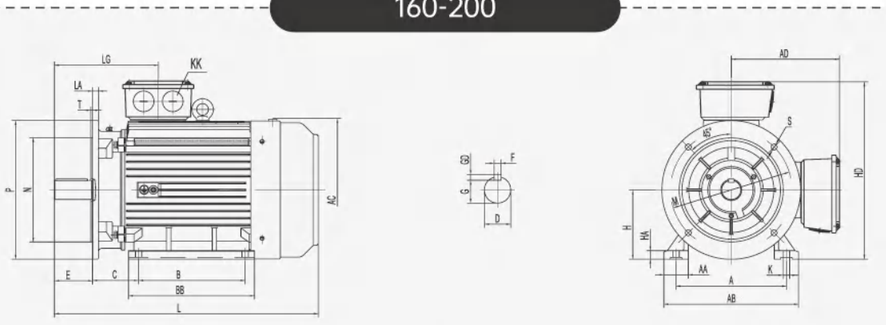
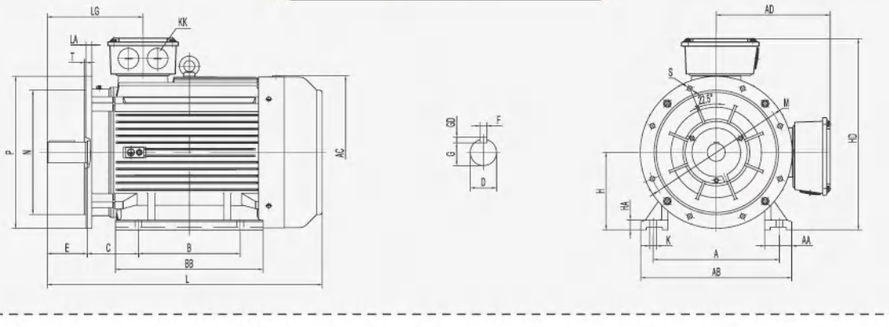


160-200



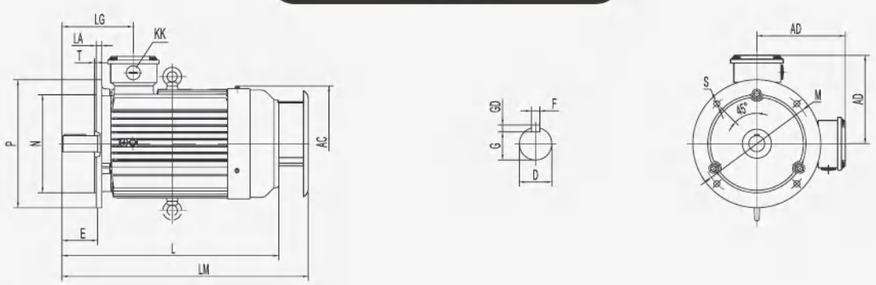
225-355



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	175	150	100	130	50	19	40	6	15.5	6	80	10	230	10	295	14	112	165	130	200	12	3.5	1-M25X1.5
90S	140	36	180	190	170	100	135	56	24	50	8	20	7	90	12.5	260	10	320	12	126	165	130	200	12	3.5	1-M25X1.5
90L	140	36	180	190	170	125	160	56	24	50	8	20	7	90	12.5	260	10	345	12	126	165	130	200	12	3.5	1-M25X1.5
100L	160	40	200	215	180	140	176	63	28	60	8	24	7	100	14	280	12	385	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	330	265	210	258	108	42	110	12	37	8	160	19	430	14.5	610	15	260	300	250	350	18.5	5	2-M40X1.5
160L	254	65	320	330	265	254	302	108	42	110	12	37	8	160	19	430	14.5	655	15	260	300	250	350	18.5	5	2-M40X1.5
180M	279	70	350	380	285	241	282	121	48	110	14	42.5	9	180	22	465	14.5	680	15	277	300	250	350	18.5	5	2-M40X1.5
180L	279	70	350	380	285	279	320	121	48	110	14	42.5	9	180	22	465	14.5	720	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	770	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	825	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	820	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	850	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	925	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	925	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	970	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	1025	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	1160	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	1270	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	1270	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	1190	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	1300	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	1300	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	1600	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	1600	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	1630	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	1630	25	450	740	680	800	24	6	2-M63X1.5

B5&V1

80-132



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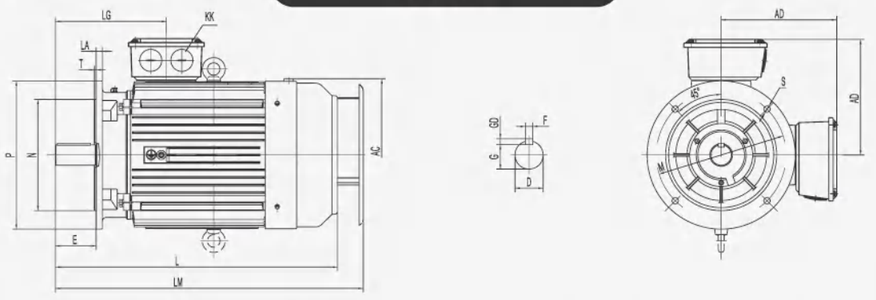

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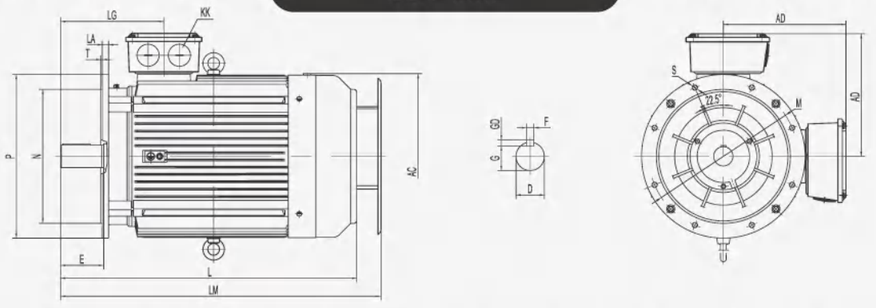
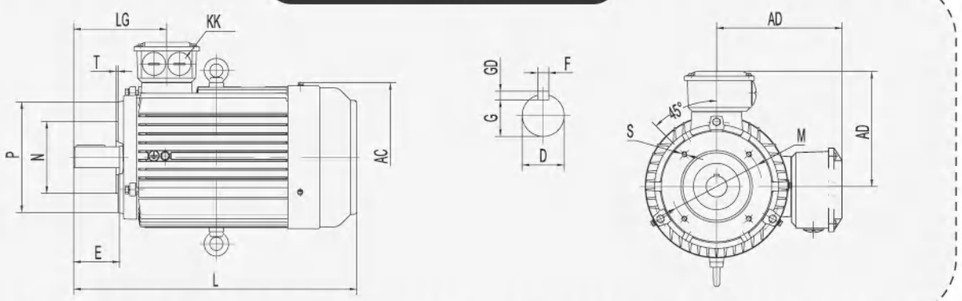


Frame size	AC	AD	D	E	F	G	GD	L	LA	LG	LM	M	N	P	S	T	KK
80	175	150	19	40	6	15.5	6	295	14	112	330	165	130	200	12	3.5	1-M25X1.5
90S	190	170	24	50	8	20	7	320	12	126	360	165	130	200	12	3.5	1-M25X1.5
90L	190	170	24	50	8	20	7	345	12	126	385	165	130	200	12	3.5	1-M25X1.5
100L	215	180	28	60	8	24	7	385	14	139	425	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	330	265	42	110	12	37	8	610	15	260	660	300	250	350	18.5	5	2-M40X1.5
160L	330	265	42	110	12	37	8	655	15	260	705	300	250	350	18.5	5	2-M40X1.5
180M	380	285	48	110	14	42.5	9	680	15	277	750	300	250	350	18.5	5	2-M40X1.5
180L	380	285	48	110	14	42.5	9	720	15	277	790	300	250	350	18.5	5	2-M40X1.5
200L	420	310	55	110	16	49	10	770	17	298	840	350	300	400	18.5	5	2-M50X1.5
225S(4-8P)	465	335	60	140	18	53	11	825	19	338	895	400	350	450	18.5	5	2-M50X1.5
225M(2P)	465	335	55	110	16	49	10	820	19	308	890	400	350	450	18.5	5	2-M50X1.5
225M(4-8P)	465	335	60	140	18	53	11	850	19	338	920	400	350	450	18.5	5	2-M50X1.5
250M(2P)	520	385	60	140	18	53	11	925	20	357	1005	500	450	550	18.5	5	2-M63X1.5
250M(4-8P)	520	385	65	140	18	58	11	925	20	357	1005	500	450	550	18.5	5	2-M63X1.5
280S(2P)	570	415	65	140	18	58	11	970	22	357	1050	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	1025	22	357	1105	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	1160	24	391	1250	600	550	660	24	6	2-M63X1.5
315M(2P)	650	500	65	140	18	58	11	1270	24	391	1360	600	550	660	24	6	2-M63X1.5
315L(2P)	650	500	65	140	18	58	11	1270	24	391	1360	600	550	660	24	6	2-M63X1.5
315S(4-8P)	650	500	80	170	22	71	14	1190	24	421	1280	600	550	660	24	6	2-M63X1.5
315M(4-8P)	650	500	80	170	22	71	14	1300	24	421	1390	600	550	660	24	6	2-M63X1.5
315L(4-8P)	650	500	80	170	22	71	14	1300	24	421	1390	600	550	660	24	6	2-M63X1.5
355M(2P)	735	645	75	140	20	67.5	12	1600	25	420	1690	740	680	800	24	6	2-M63X1.5
355L(2P)	735	645	75	140	20	67.5	12	1600	25	420	1690	740	680	800	24	6	2-M63X1.5
355M(4-8P)	735	645	95	170	25	86	14	1630	25	450	1720	740	680	800	24	6	2-M63X1.5
355L(4-8P)	735	645	95	170	25	86	14	1630	25	450	1720	740	680	800	24	6	2-M63X1.5

B14

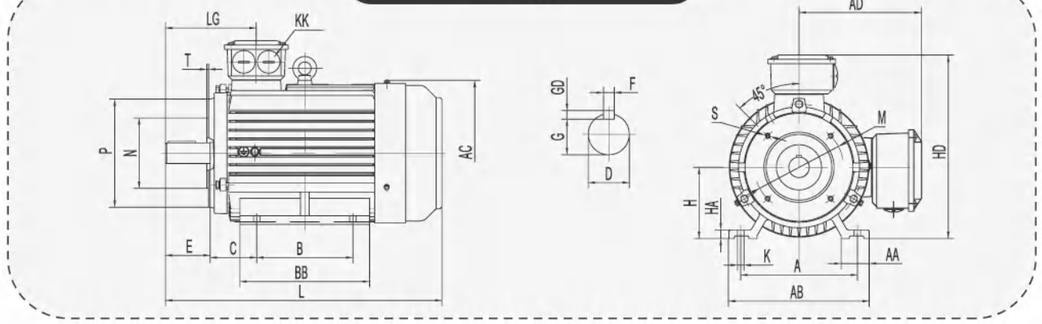
80-160



Frame size	AC	AD	D	E	F	G	GD	L	LG	M	N	P	S	T	KK
80	175	150	19	40	6	15.5	6	295	112	100	80	120	M6	3	1-M25X1.5
90S	190	170	24	50	8	20	7	320	126	115	95	140	M8	3	1-M25X1.5
90L	190	170	24	50	8	20	7	345	126	115	95	140	M8	3	1-M25X1.5
100L	215	180	28	60	8	24	7	385	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	330	265	42	110	12	37	8	610	260	215	180	250	M12	4	2-M40X1.5
160L	330	265	42	110	12	37	8	655	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	175	150	100	130	50	19	40	6	15.5	6	80	10	230	10	295	112	100	80	120	M6	3	1-M25X1.5
90S	140	36	180	190	170	100	135	56	24	50	8	20	7	90	12.5	260	10	320	126	115	95	140	M8	3	1-M25X1.5
90L	140	36	180	190	170	125	160	56	24	50	8	20	7	90	12.5	260	10	345	126	115	95	140	M8	3	1-M25X1.5
100L	160	40	200	215	180	140	176	63	28	60	8	24	7	100	14	280	12	385	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	330	265	210	258	108	42	110	12	37	8	160	19	430	14.5	610	260	215	180	250	M12	4	2-M40X1.5
160L	254	65	320	330	265	254	302	108	42	110	12	37	8	160	19	430	14.5	655	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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