

SHANDONG SUNVIM MOTOR CO.,LTD

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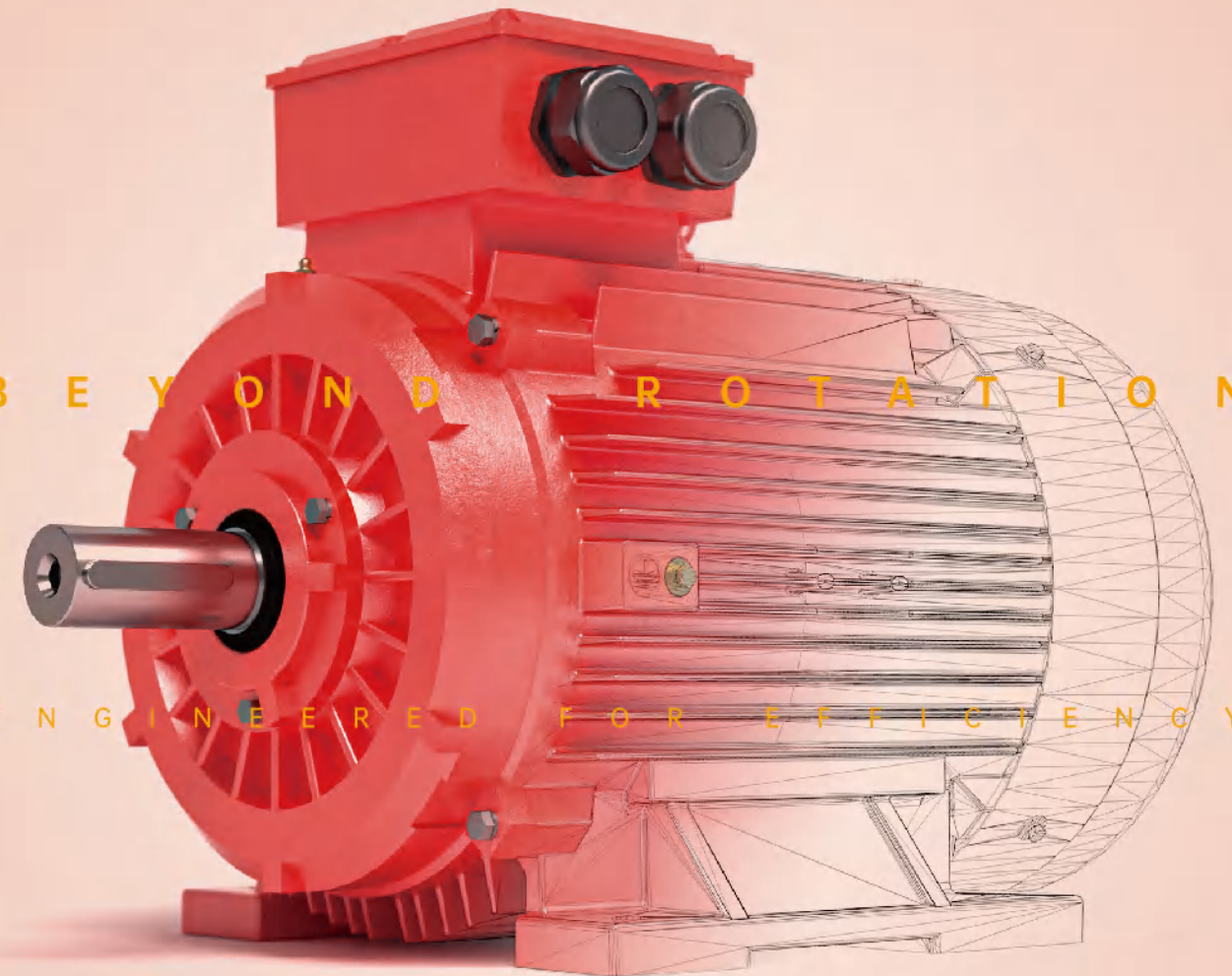
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SUNVIM

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

E N G I N E E R E D F O R E F F I C I E N C Y



SUNVIM

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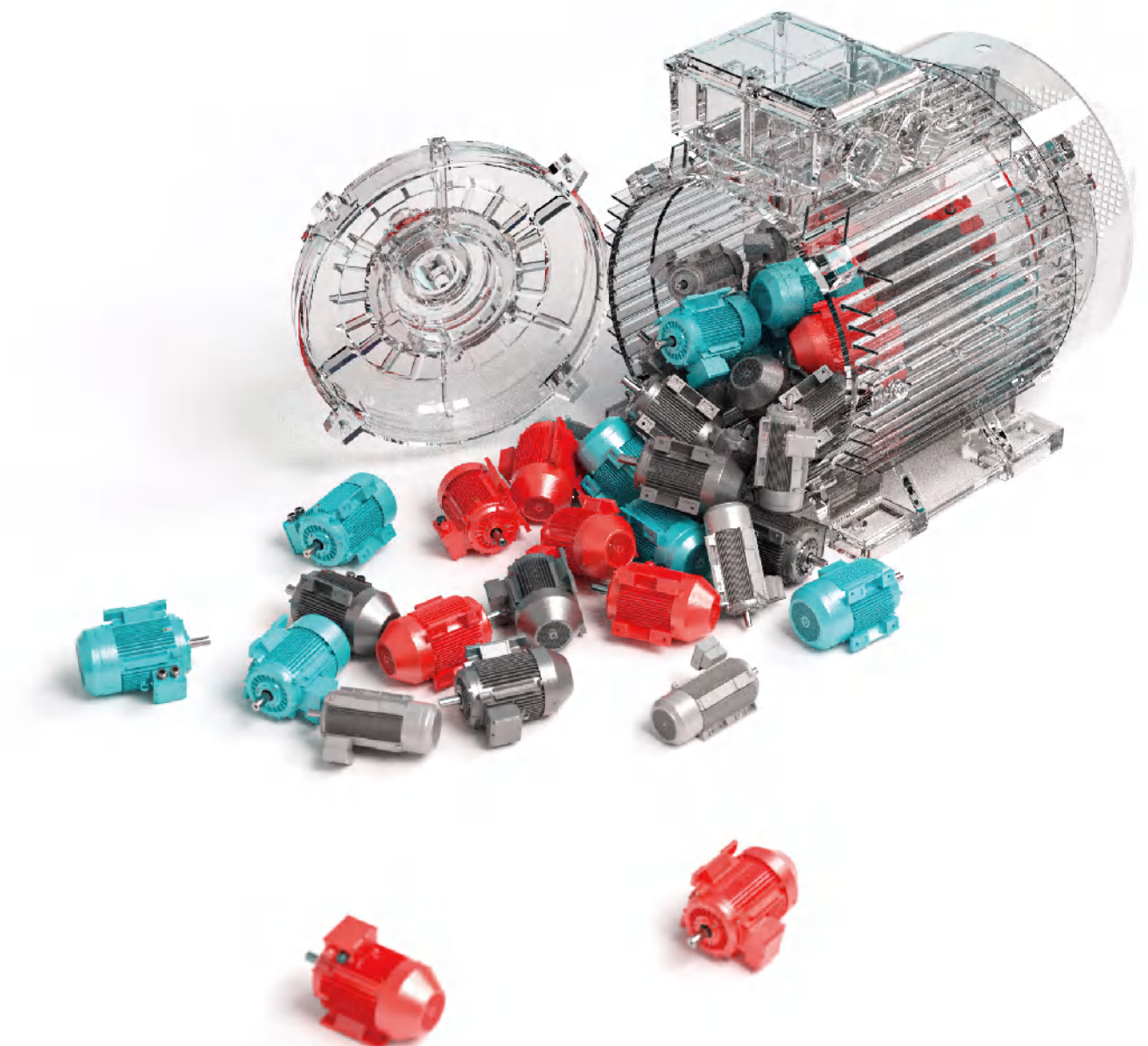
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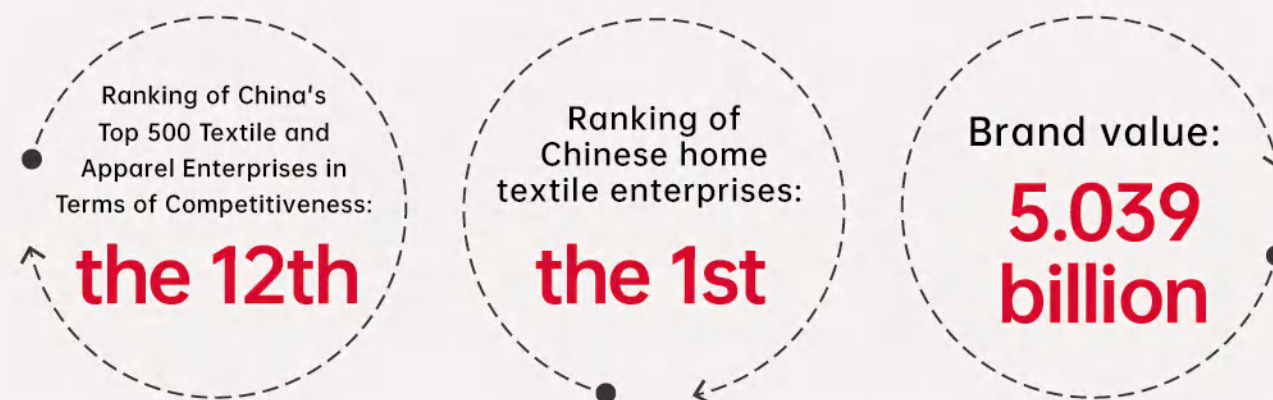


Group introduction

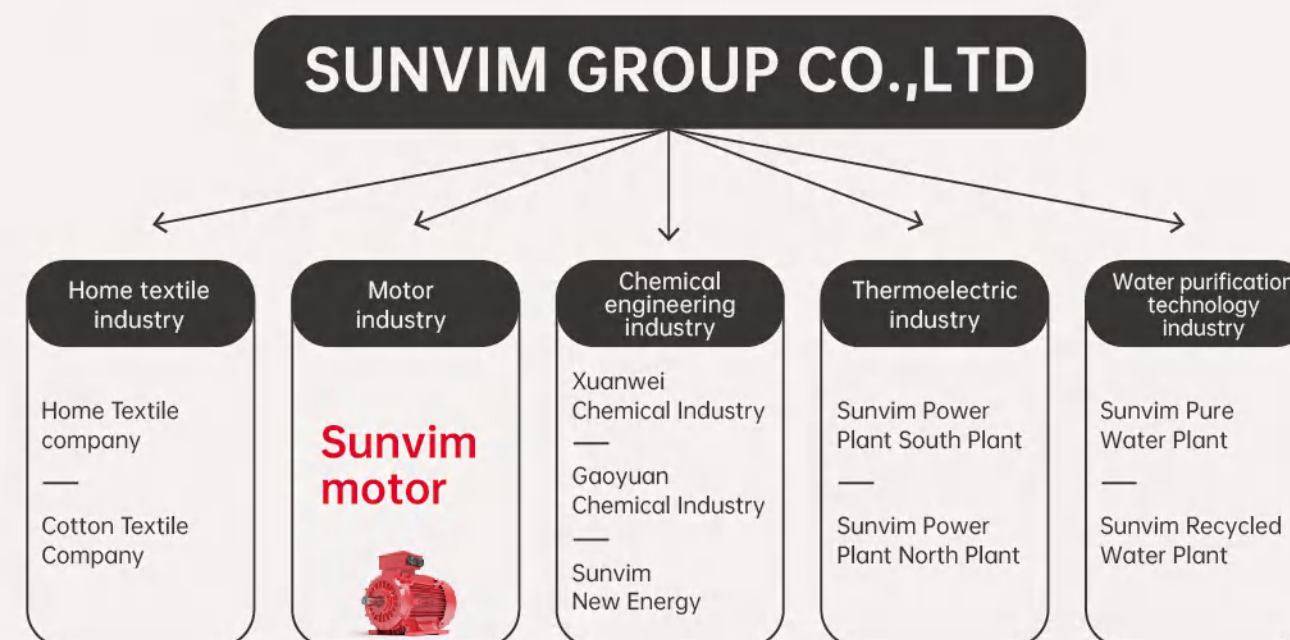
Founded in 1987, Sunvim Group has adhered to the business philosophy of "Pursuing Success with Sincerity and Creating Win-win Cooperation" for nearly 40 years. It has developed into a comprehensive group enterprise with home textiles as its leading business, integrating diversified industries such as 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.



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

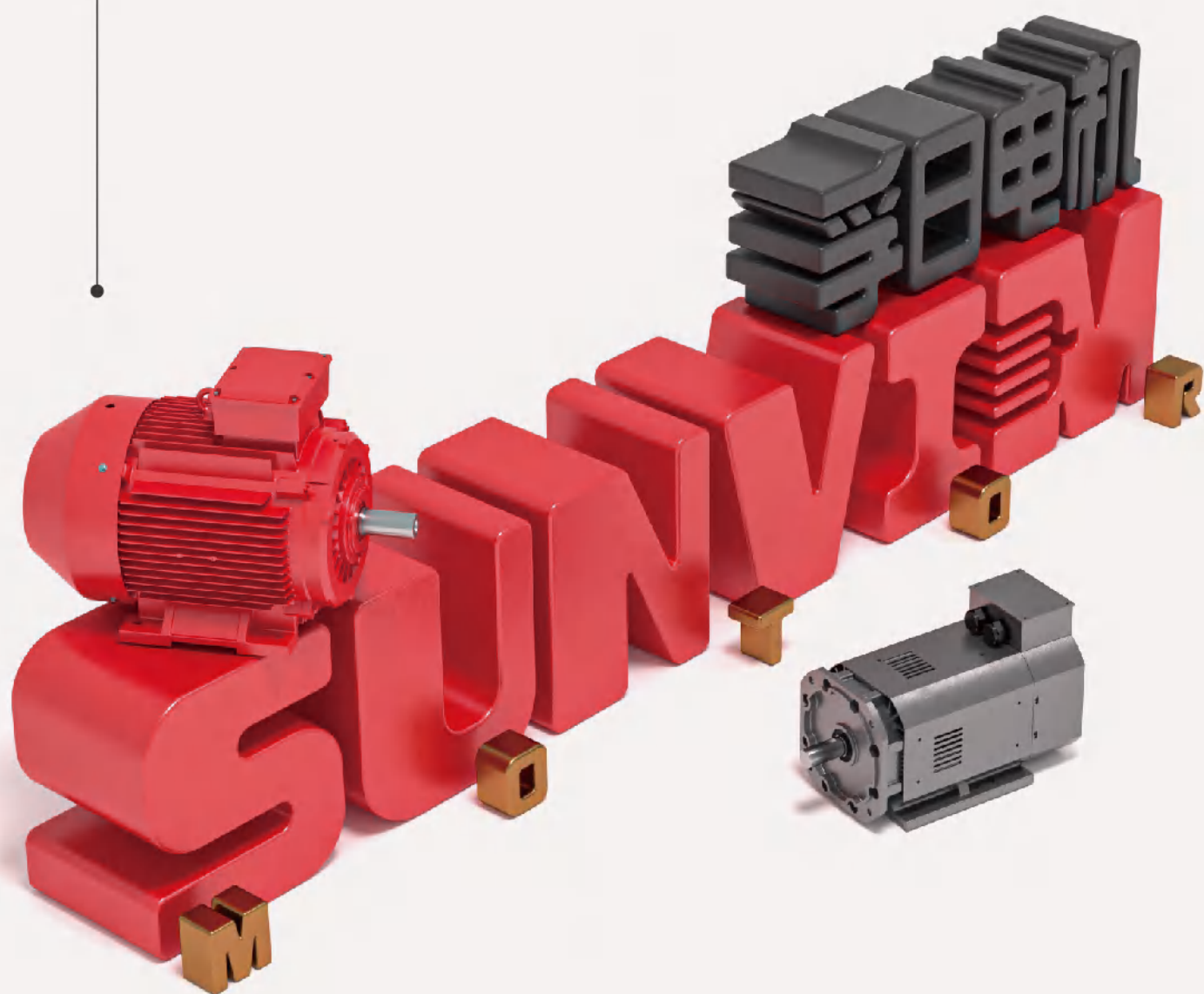


Group industry



BEYOND ROTATION

ENGINEERED FOR EFFICIENCY



Land area
102

Total investment
200,000,000



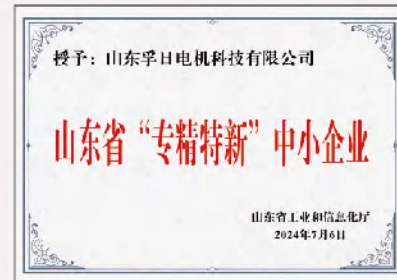
Shandong Sunvim Motor Co., Ltd. mainly engages in the research, development and production of high-efficiency and energy-saving electric motors. With a total investment of 200 million yuan and a land area of 102 acres, the company is equipped with advanced international and domestic facilities such as 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.

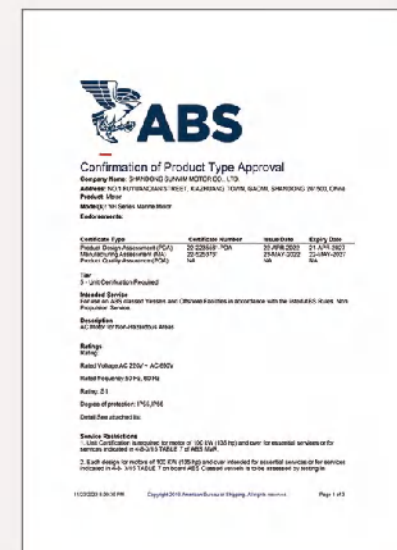
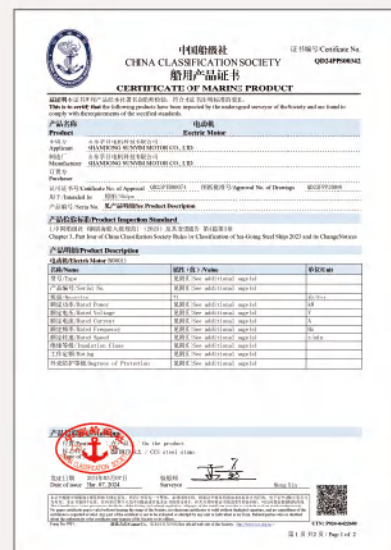


The company has passed certifications of ISO9001:2008 quality management system certification, China Energy-saving Product Certification, UL product certification in the United States, CE certification in the European Union, UKCA certification in the United Kingdom, CCS type certification of China Classification 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



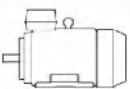
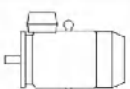
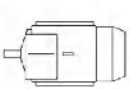
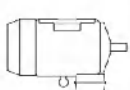
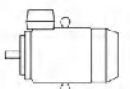
Marine certificates

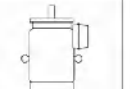
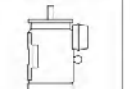
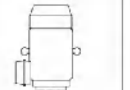
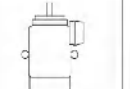


Standards

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.

Characteristic letters IP
First characteristic numeral (see table 1)
Second characteristic numeral (see table 2)

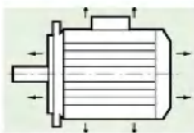
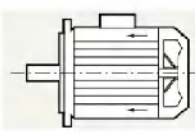
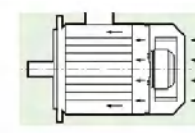
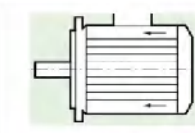
Table 1		
The first numeral	Brief description	Definition
0	Non-protected machine	No specific protection
1	Machine protected against solid objects greater than 50 mm	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such 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 against the 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 against the effects of continuous submersion	The machine is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer

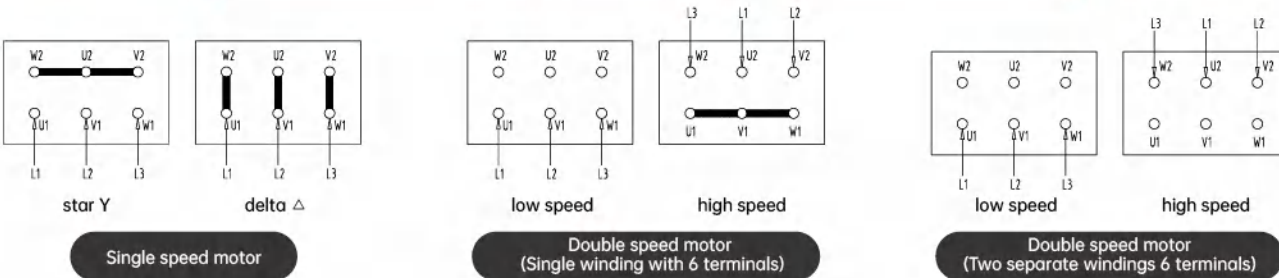
Cooling

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

Code I (Simplified) IC
Circuit Arrangement I
Method of fluid circulation for the secondary cooling fluid
Method of fluid circulation for the primary cooling fluid

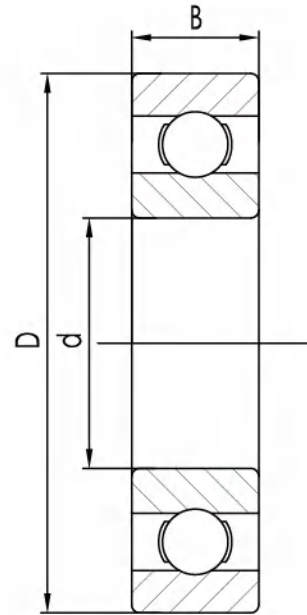
IC code	IC410(TENV)	IC411(TEFC)	IC416(TEBC)	IC418(TEAO)
Figure				
Description	Enclosed machine, surface-cooled by natural convection and radiation. No external fan.	Enclosed machine. Smooth or finned ventilated casing. External shaft-mounted fan.	Enclosed machine. Smooth or finned enclosed casing. External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

Connection



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



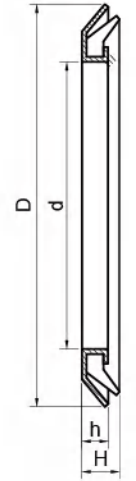
Bearing lubrication interval

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.

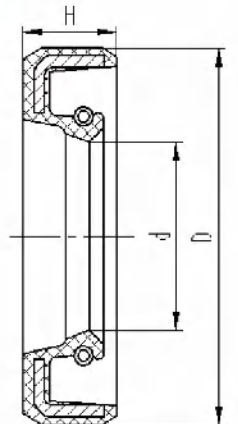
Gamma seal

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

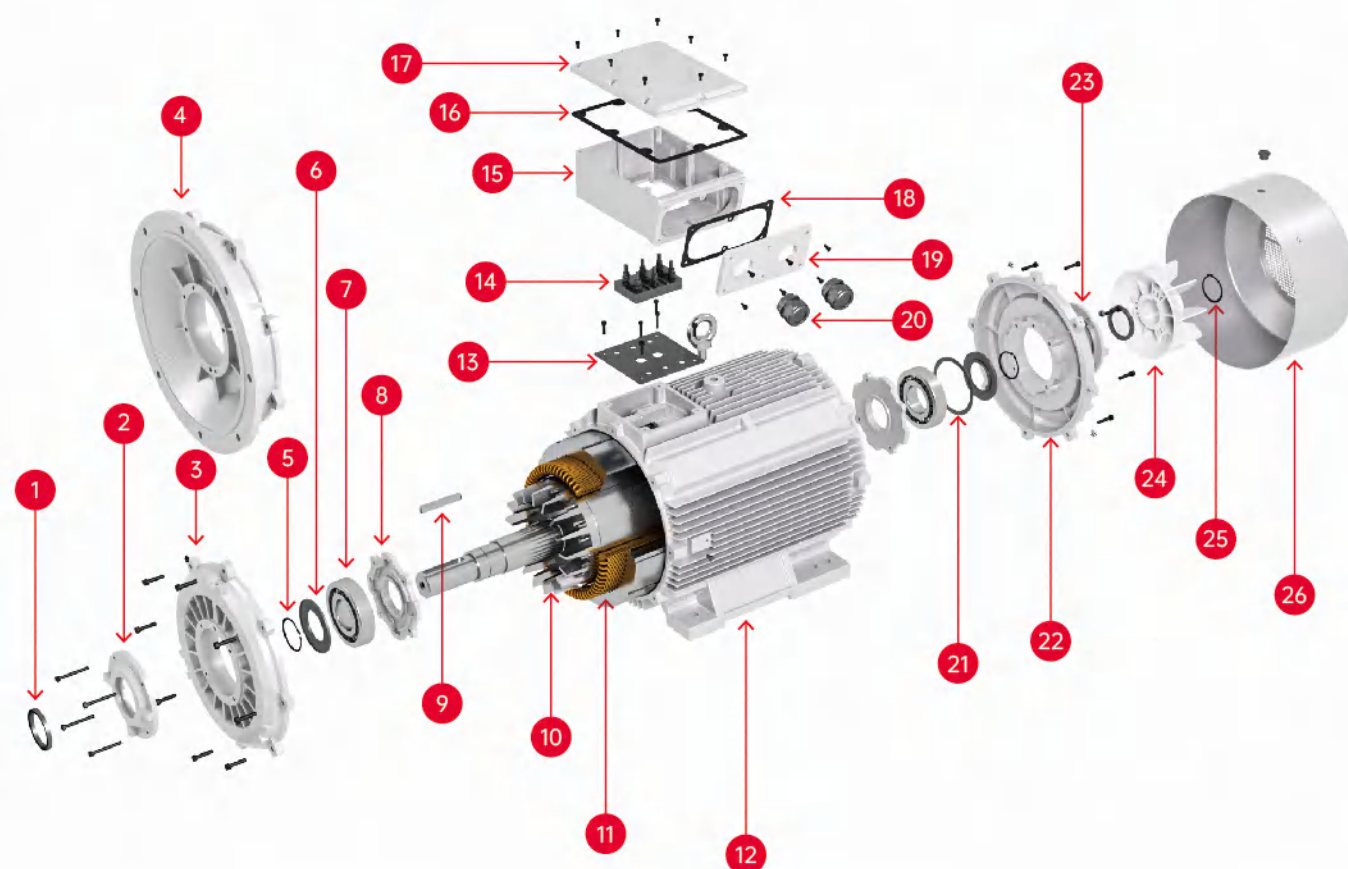
Grade "A" applies to machines with no special vibration requirements.

Grade "B" applies to machines with special vibration requirements.

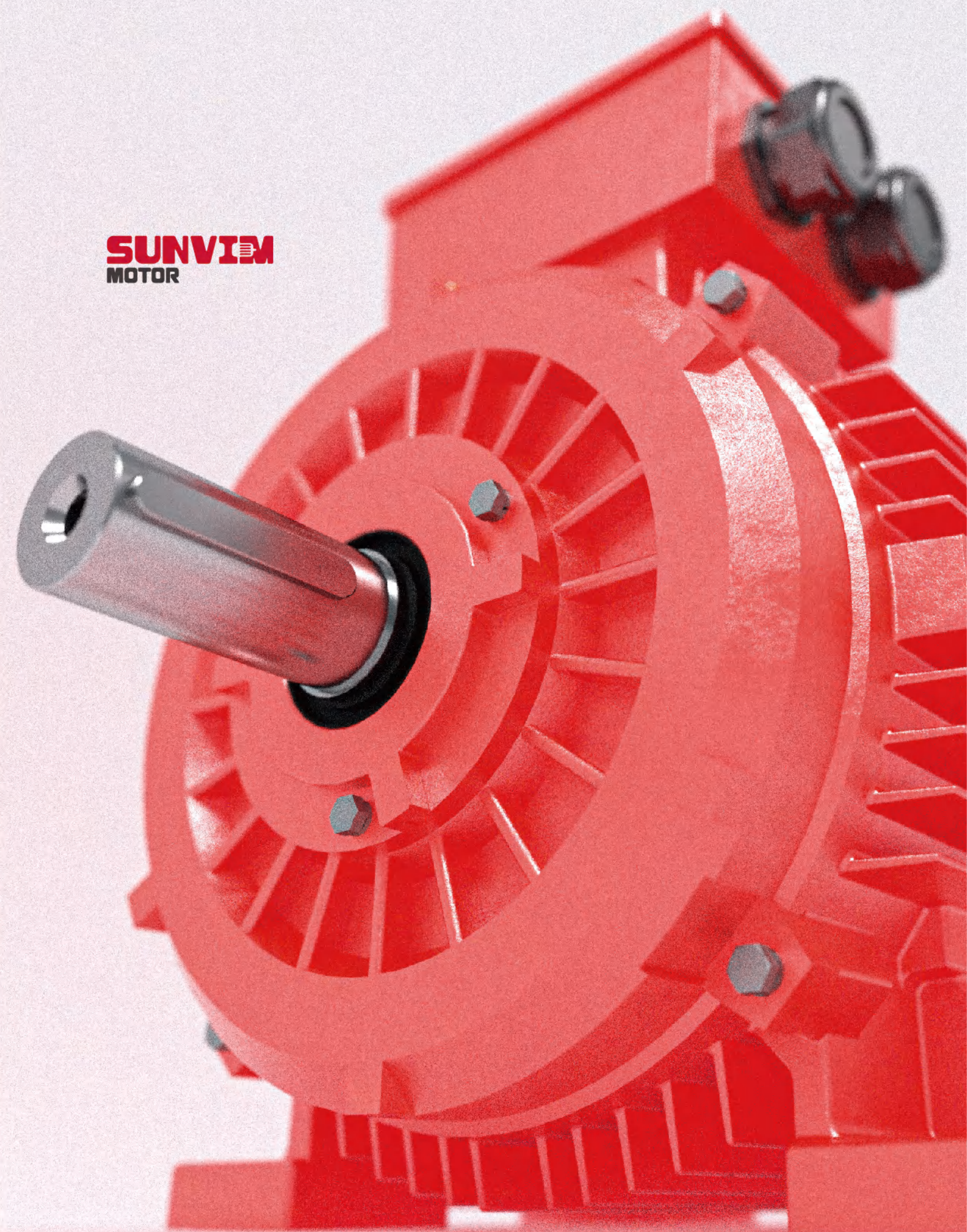
Rigid mounting is not considered acceptable for machines with shaft heights less than 132 mm.

NOTE:

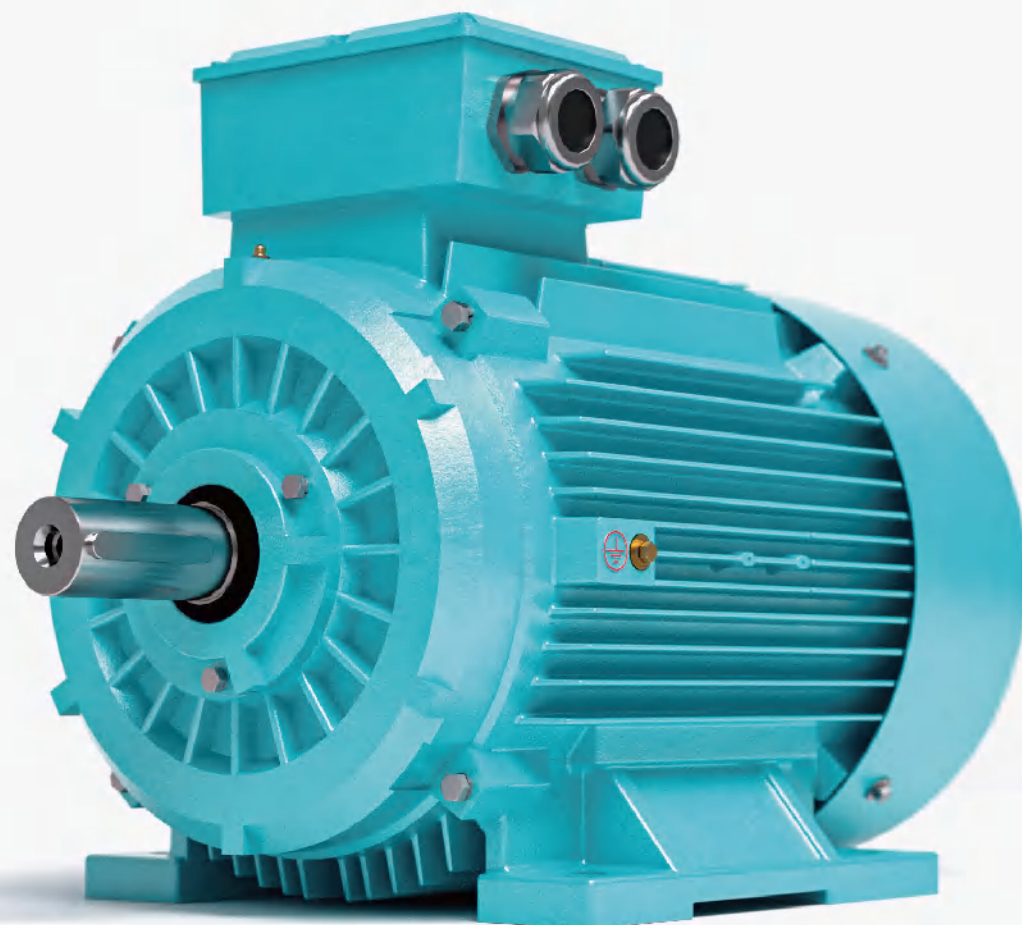
1. The manufacturer and the purchaser should take into account that the instrumentation can have a measurement tolerance of ± 10 %.
2. The shaft height of a machine without feet, or a machine with raised feet, or any vertical machine is to be taken as the shaft height of a machine in the same basic frame, 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 | 10. Rotor | 18. Removable plate gasket |
| 2. Outer bearing cap (D) | 11. Stator | 19. Removable plate |
| 3. Endshield D.E | 12. Housing | 20. Cable gland |
| 4. Flange | 13. Terminal box gasket | 21. Wave spring |
| 5. Shaft retaining ring | 14. Terminal board | 22. Endshield N.D.E |
| 6. Grease slinger | 15. Terminal box base | 23. Outer bearing cap (N) |
| 7. Bearing | 16. Terminal box lid gasket | 24. Fan |
| 8. Inner bearing cap | 17. Terminal box lid | 25. Shaft retaining ring |
| 9. Key | | 26. Fan cover |



SUNVIM
MOTOR



Y-H marine motors

Standard: IEC60092

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: 0°C ~45°C

Relative humidity: ≤90%

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Ist In	Tst Tn	Tmax Tn	Noise dB (A) no load	Weight (kg)
Y80M1-2	0.75	2840	1.8	75.2	0.83	2.5	6.1	2.2	2.3	67	16
Y80M2-2	1.1	2840	2.6	76.3	0.84	3.7	6.9	2.2	2.3	67	17
Y90S-2	1.5	2850	3.5	78.6	0.84	5	7.0	2.2	2.3	72	20
Y90L-2	2.2	2850	4.9	81.1	0.85	7.4	7.0	2.2	2.3	72	25
Y100L-2	3	2880	6.3	82.8	0.87	10	7.5	2.2	2.3	76	30
Y112M1-2	4	2880	8.2	84.4	0.88	13.3	7.5	2.2	2.3	77	38
Y132S1-2	5.5	2900	11.1	85.8	0.88	18.1	7.5	2.2	2.3	80	57
Y132S2-2	7.5	2900	14.9	87.2	0.88	24.5	7.5	2.2	2.3	80	60
Y160M1-2	11	2930	21.2	88.5	0.89	35.8	7.5	2.2	2.3	86	100
Y160M2-2	15	2930	28.5	89.6	0.89	48.8	7.5	2.2	2.3	86	110
Y160L-2	18.5	2930	34.7	90.1	0.90	60.4	7.5	2.2	2.3	86	125
Y180M-2	22	2940	41	90.6	0.90	71.4	7.5	2.0	2.3	89	175
Y200L1-2	30	2950	55.3	91.5	0.90	97.2	7.5	2.0	2.3	92	225
Y200L2-2	37	2950	67.8	92.2	0.90	120	7.5	2.0	2.3	92	245
Y225M-2	45	2970	82	92.7	0.90	145	7.5	2.0	2.3	92	280
Y250M-2	55	2970	99.5	93.3	0.90	177	7.5	2.0	2.3	93	380
Y280S-2	75	2970	135	93.8	0.90	241	7.0	2.0	2.3	94	510
Y280M-2	90	2970	160	94.0	0.91	290	7.1	2.0	2.3	94	580
Y315S-2	110	2980	195	94.2	0.91	353	7.1	1.8	2.2	96	850
Y315M-2	132	2980	233	94.7	0.91	423	7.1	1.8	2.2	96	945
Y315L1-2	160	2980	281	94.8	0.91	513	7.1	1.8	2.2	99	1020
Y315L2-2	200	2980	347	95.0	0.92	641	7.1	1.8	2.2	99	1180
Y355M-2	250	2980	433	95.4	0.92	802	7.1	1.6	2.2	103	1740
Y355L-2	315	2980	544	95.5	0.92	1010	7.1	1.6	2.2	103	1900

Technical data (at 50Hz)											
Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Ist In	Tst Tn	Tmax Tn	Noise dB (A) no load	Weight (kg)
Y80M1-4	0.55	1390	1.6	71.1	0.75	3.8	5.2	2.4	2.3	58	17
Y80M2-4	0.75	1390	2.1	73.2	0.76	5.2	6.0	2.3	2.3	58	18
Y90S-4	1.1	1400	2.8	76.3	0.77	7.5	6.0	2.3	2.3	61	20
Y90L-4	1.5	1400	3.7	78.7	0.78	10.2	6.0	2.3	2.3	61	23
Y100L1-4	2.2	1420	5.1	81.2	0.81	14.8	7.0	2.3	2.3	64	30
Y100L2-4	3	1420	6.7	82.7	0.82	20.2	7.0	2.3	2.3	64	35
Y112M-4	4	1440	8.8	84.4	0.82	26.5	7.0	2.3	2.3	65	40
Y132S-4	5.5	1440	11.7	86.0	0.83	36.5	7.0	2.3	2.3	71	60
Y132M-4	7.5	1440	15.6	87.2	0.84	49.8	7.0	2.3	2.3	71	70
Y160M-4	11	1460	22.5	88.5	0.84	72	7.0	2.2	2.3	75	110
Y160L-4	15	1460	30	89.6	0.85	98.2	7.5	2.2	2.3	75	130
Y180M-4	18.5	1470	36.2	90.2	0.86	120	7.5	2.2	2.3	76	165
Y180L-4	22	1470	42.9	90.6	0.86	143	7.5	2.2	2.3	76	180
Y200L-4	30	1470	58	91.6	0.86	195	7.2	2.2	2.3	79	240
Y225S-4	37	1480	70	92.2	0.87	239	7.2	2.2	2.3	81	280
Y225M-4	45	1480	84.8	92.7	0.87	291	7.2	2.2	2.3	81	310
Y250M-4	55	1480	103	93.2	0.87	355	7.2	2.2	2.3	83	400
Y280S-4	75	1480	138	93.8	0.88	484	6.8	2.2	2.3	86	540
Y280M-4	90	1480	165	94.0	0.88	581	6.8	2.2	2.3	86	620
Y315S-4	110	1480	201	94.7	0.88	710	6.9	2.1	2.2	93	870
Y315M-4	132	1480	240	95.0	0.88	852	6.9	2.1	2.2	93	990
Y315L1-4	160	1480	287	95.1	0.89	1032	6.9	2.1	2.2	97	1050
Y315L2-4	200	1480	359	95.2	0.89	1290	6.9	2.1	2.2	97	1250
Y355M1-4	220	1490	382	95.2	0.90	1411	6.9	2.1	2.2	101	1650
Y355M2-4	250	1490	443	95.3	0.90	1603	6.9	2.1	2.2	101	1750
Y355L1-4	280	1490	480	95.3	0.90	1796	7.1	2.1	2.2	101	1790
Y355L2-4	315	1490	558	95.3	0.90	2020	7.1	2.1	2.2	101	1900

Technical data (at 50Hz)											
Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Ist In	Tst Tn	Tmax Tn	Noise dB (A) no load	Weight (kg)
Y80M1-6	0.37	890	1.3	62.2	0.70	4.0	4.7	1.9	2.0	54	15
Y80M2-6	0.55	890	1.8	65.2	0.72	5.9	4.7	1.9	2.1	54	17
Y90S-6	0.75	910	2.3	69.1	0.72	7.9	4.7	2.0	2.1	57	20
Y90L-6	1.1	910	3.2	72.2	0.73	11.5	5.3	2.0	2.1	57	23
Y100L-6	1.5	920	4	76.2	0.75	15.6	5.5	2.0	2.1	61	30
Y112M-6	2.2	940	5.6	79.1	0.76	22.4	5.5	2.0	2.1	65	38
Y132S-6	3	960	7.4	81.3	0.76	29.9	6.5	2.1	2.1	69	55
Y132M1-6	4	960	9.8	82.2	0.76	39.8	6.5	2.1	2.1	69	63
Y132M2-6	5.5	960	12.9	84.1	0.77	54.7	6.5	2.1	2.1	69	70
Y160M-6	7.5	970	17.2	86.3	0.77	73.9	6.5	2.0	2.1	73	105
Y160L-6	11	970	24.5	87.7	0.78	108	6.5	2.0	2.1	73	120
Y180L-6	15	970	31.6	89.2	0.81	148	7.0	2.0	2.1	73	175
Y200L1-6	18.5	970	38.6	90.1	0.81	182	7.0	2.1	2.1	76	220
Y200L2-6	22	970	44.6	90.2	0.83	217	7.0	2.0	2.1	76	235
Y225M-6	30	980	59.2	91.6	0.84	293	7.0	2.0	2.1	76	300
Y250M-6	37	980	71	92.1	0.86	361	7.0	2.1	2.1	78	370
Y280S-6	45	980	85.8	92.6	0.86	439	7.0	2.1	2.0	80	480
Y280M-6	55	980	105	93.0	0.86	536	7.0	2.1	2.0	80	535
Y315S-6	75	990	142	93.7	0.86	724	6.7	2.0	2.0	85	790
Y315M-6	90	990	170	94.0	0.86	869	6.7	2.0	2.0	85	880
Y315L1-6	110	990	207	94.1	0.86	1062	6.7	2.0	2.0	85	997
Y315L2-6	132	990	245	94.3	0.87	1274	6.7	2.0	2.0	85	1100
Y355M1-6	160	990	291	94.7	0.88	1544	6.7	1.9	2.0	92	1400
Y355M2-6	200	990	364	94.7	0.88	1930	6.7	1.9	2.0	92	1750
Y355L-6	250	990	456	94.7	0.88	2413	6.7	1.9	2.0	92	1950

Technical data (at 50Hz)											
Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η %	P.F. $\cos \varphi$	Torque (N.m)	Ist In	Tst Tn	Tmax Tn	Noise dB (A) no load	Weight (kg)
Y80M1-8	0.18	630	0.9	51.1	0.61	2.8	3.3	1.8	1.9	52	15
Y80M2-8	0.25	640	1.2	54.2	0.61	3.7	3.3	1.8	1.9	52	17
Y90S-8	0.37	660	1.5	62.2	0.61	5.4	4	1.8	1.9	56	20
Y90L-8	0.55	660	2.2	63.1	0.61	8.0	4	1.8	2.0	56	23
Y100L1-8	0.75	690	2.4	70.2	0.67	10.4	4	1.8	2.0	59	30
Y100L2-8	1.1	690	3.4	72.1	0.69	15.2	5	1.8	2.0	59	35
Y112M-8	1.5	690	4.4	74.2	0.70	20.8	5	1.8	2.0	61	40
Y132S-8	2.2	710	5.9	79.2	0.71	29.6	6	1.8	2.0	64	52
Y132M-8	3	710	7.8	80.2	0.73	40.4	6	1.8	2.0	64	60
Y160M1-8	4	720	10.2	81.1	0.73	53.1	6	1.9	2.0	68	90
Y160M2-8	5.5	720	13.6	83.2	0.74	73.0	6	1.9	2.0	68	105
Y160L-8	7.5	720	17.7	85.7	0.75	99.5	6	1.9	2.0	68	120
Y180L-8	11	730	25.4	87.6	0.75	144	6.5	2.0	2.0	70	150
Y200L-8	15	730	34	88.2	0.76	196	6.6	2.0	2.0	73	215
Y225S-8	18.5	730	41	90.1	0.76	242	6.6	1.9	2.0	73	265
Y225M-8	22	740	47.2	90.6	0.78	284	6.6	1.9	2.0	73	295
Y250M-8	30	740	63.3	91.2	0.79	387	6.5	1.9	2.0	75	380
Y280S-8	37	740	77.5	91.6	0.79	478	6.6	1.9	2.0	76	485
Y280M-8	45	740	94.1	92.1	0.79	581	6.6	1.9	2.0	76	570
Y315S-8	55	740	111	92.9	0.81	710	6.6	1.8	2.0	82	750
Y315M-8	75	740	150	93.6	0.81	968	6.2	1.8	2.0	82	810
Y315L1-8	90	740	177	94.0	0.82	1162	6.4	1.8	2.0	82	1000
Y315L2-8	110	740	216	94.1	0.82	1420	6.4	1.8	2.0	82	1180
Y355M1-8	132	740	259	94.2	0.82	1704	6.4	1.8	2.0	90	1500
Y355M2-8	160	740	314	94.3	0.82	2066	6.4	1.8	2.0	90	1800
Y355L-8	200	740	385	94.7	0.83	2582	6.4	1.8	2.0	90	1900

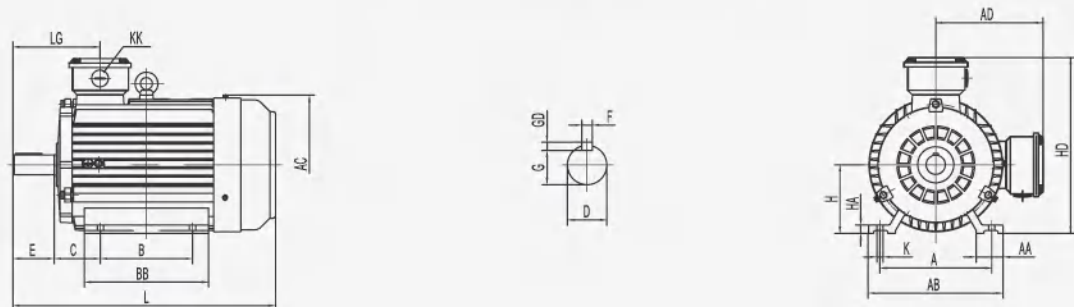
8P

Dimension drawings

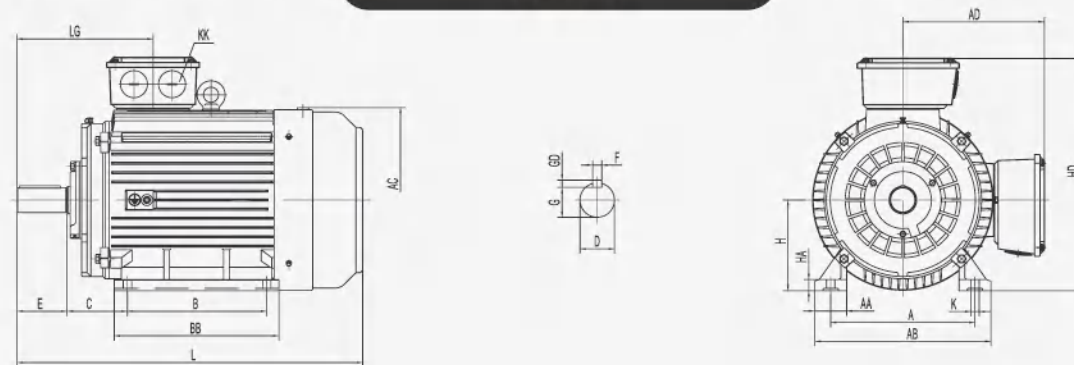


B3

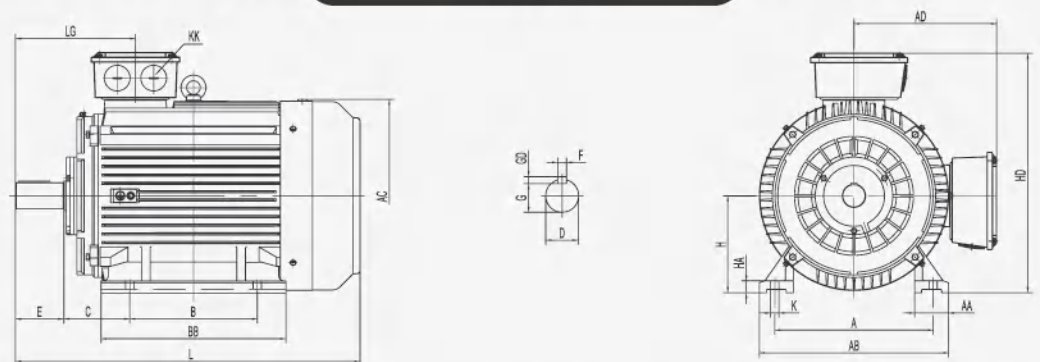
80-132



160-200



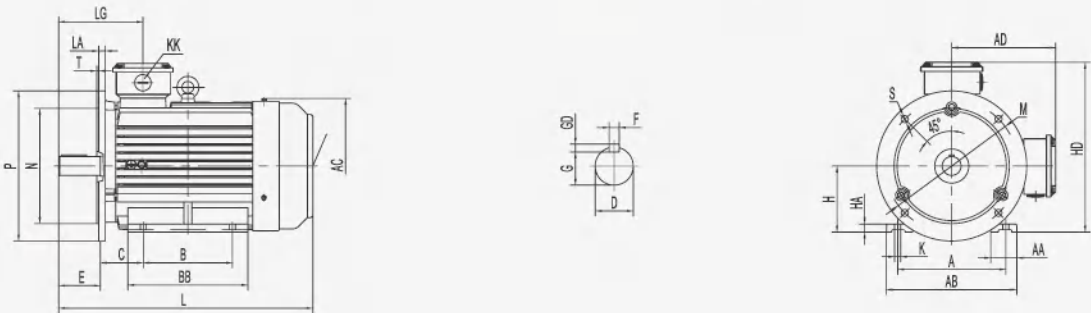
225-355



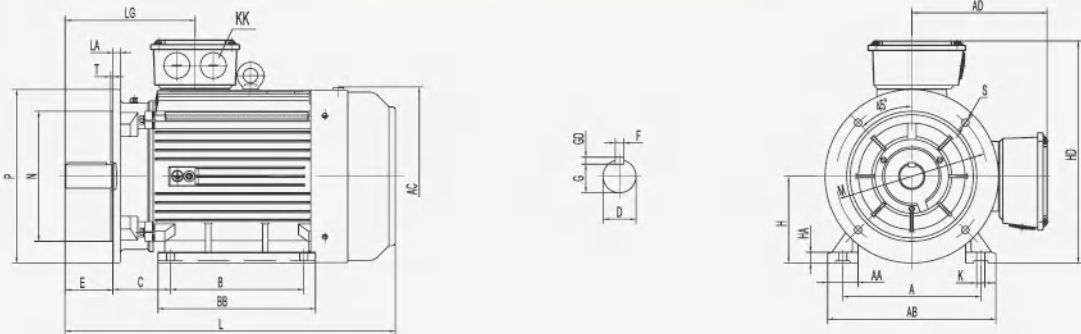
Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	KK	L	LG
80	125	34	160	175	150	100	130	50	19	40	6	15.5	6	80	10	230	10	1-M25X1.5	295	112
90S	140	36	180	190	170	100	135	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	320	126
90L	140	36	180	190	170	125	160	56	24	50	8	20	7	90	12.5	260	10	1-M25X1.5	345	126
100L	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

B35

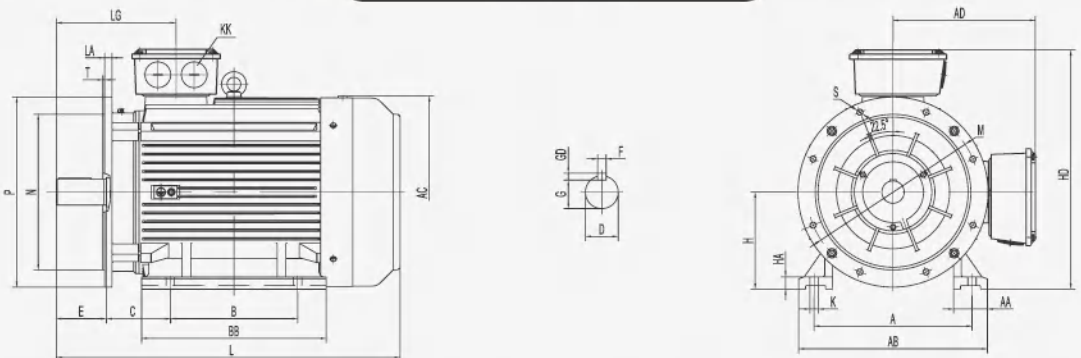
80-132



160-200



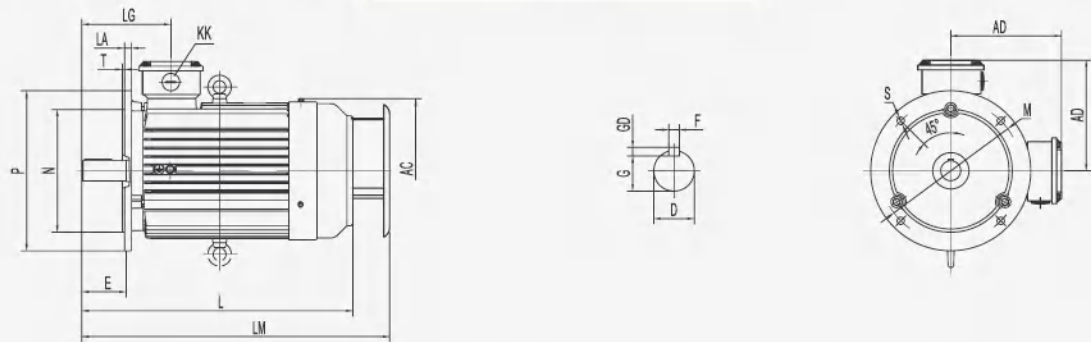
225-355



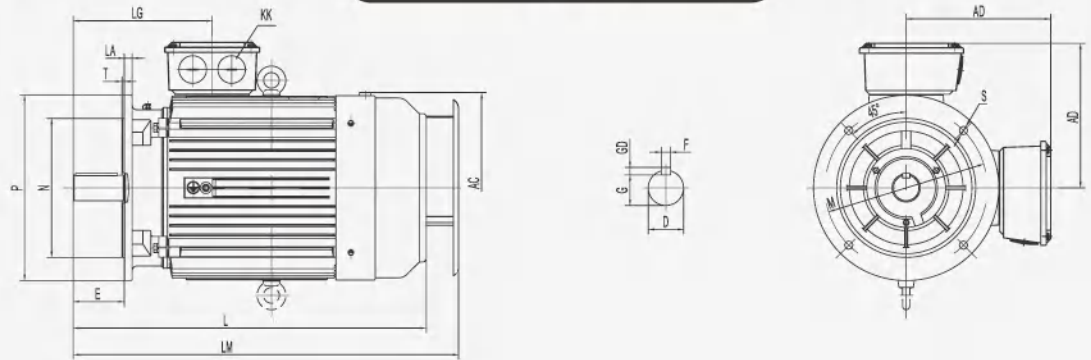
Frame size	A	AA	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L	LA	LG	M	N	P	S	T	KK
80	125	34	160	175	150	100	130	50	19	40	6	15.5	6	80	10	230	10	295	14	112	165	130	200	12	3.5	1-M25X1.5
90S	140	36	180	190	170	100	135	56	24	50	8	20	7	90	12.5	260	10	320	12	126	165	130	200	12	3.5	1-M25X1.5
90L	140	36	180	190	170	125	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

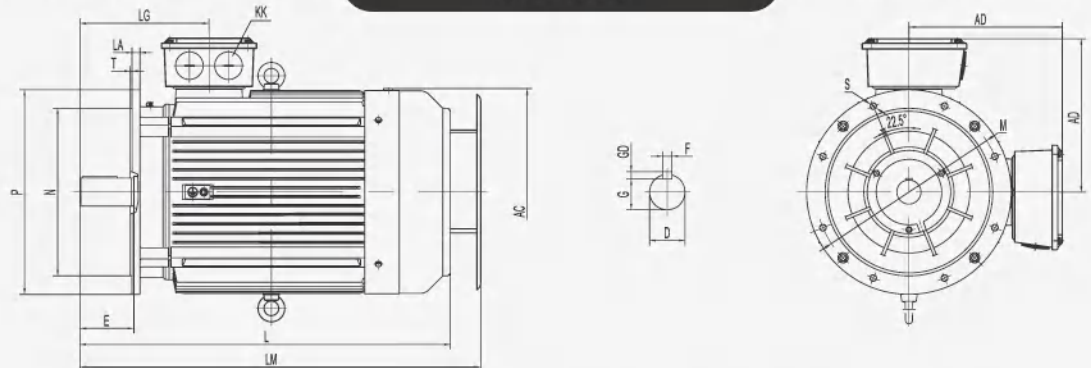
80-132



160-200



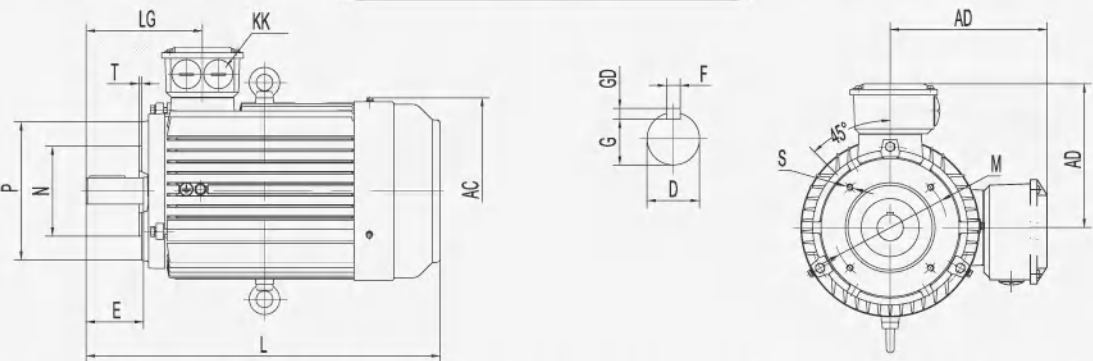
225-355



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

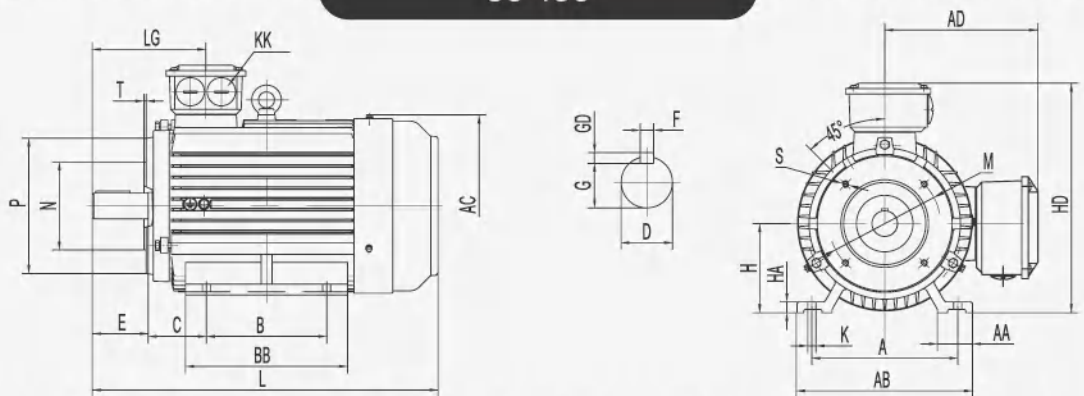
80-160



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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