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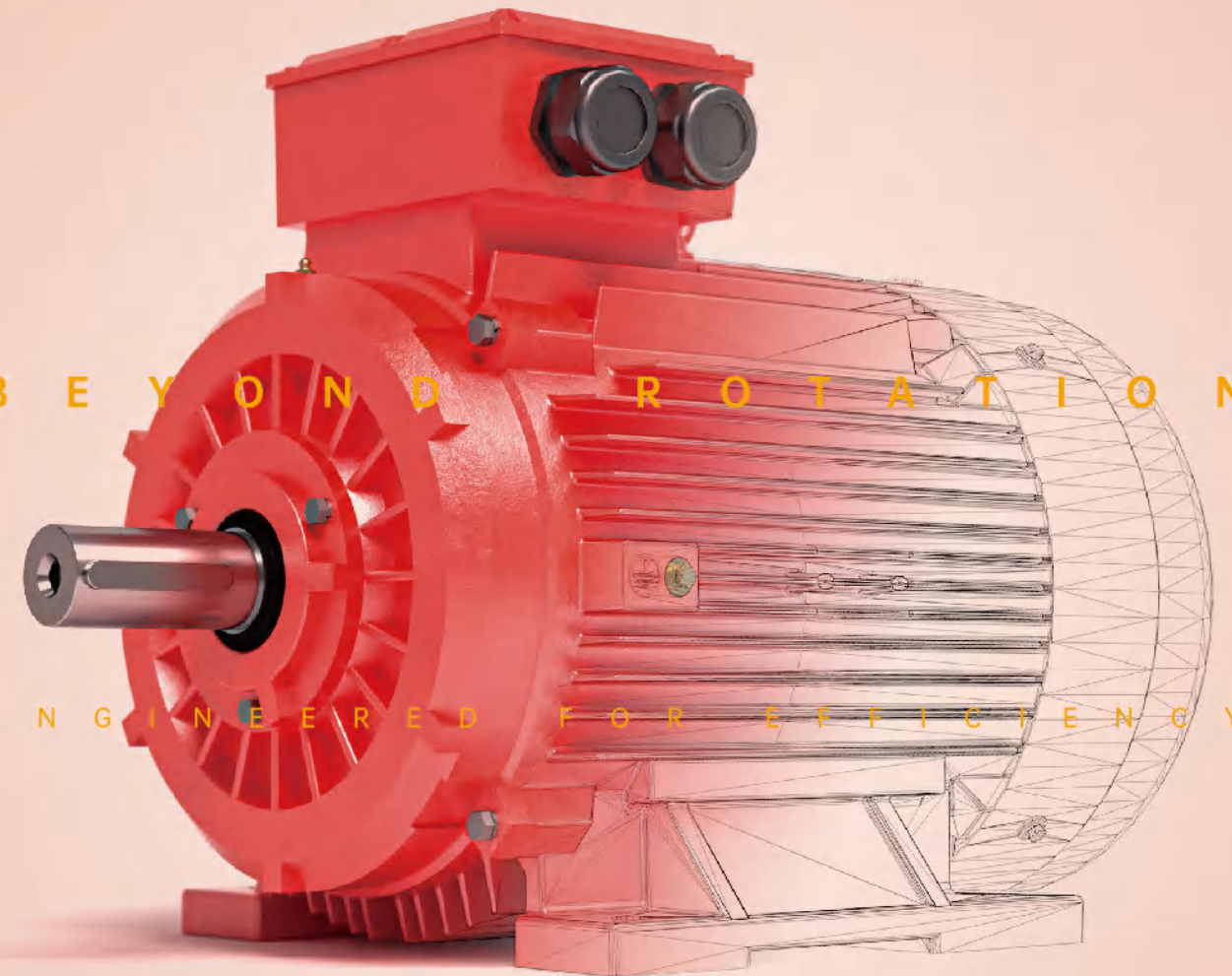
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SUNVIM

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

03 | About Sunvim

Low voltage three-phase induction motors

15 | IE1 motors

29 | IE2 motors

43 | IE3 motors

57 | IE4 motors

71 | IE3/IE4 high output motors

79 | IE5 motors

91 | Y-H marine motors

105 | YVF converter-fed motors

119 | YVF converter-fed high output motors

125 | YD pole-changing motors

137 | YEJ brake motors

Medium/High voltage three-phase induction motors

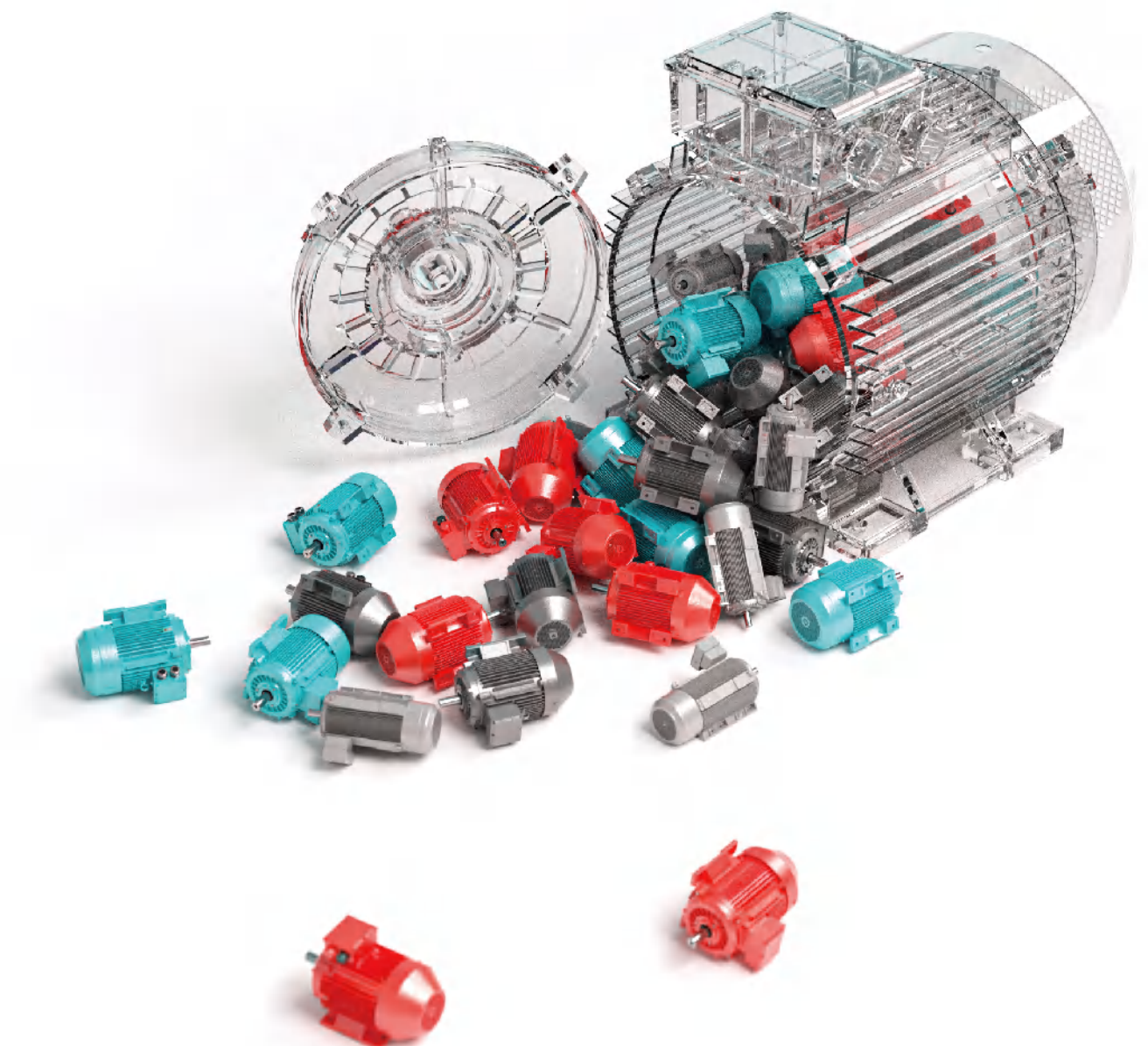
151 | Y2 rib cooled motors

159 | YKK modular motors

167 | YLKK modular motors

173 | Y/YKS modular motors

Contents



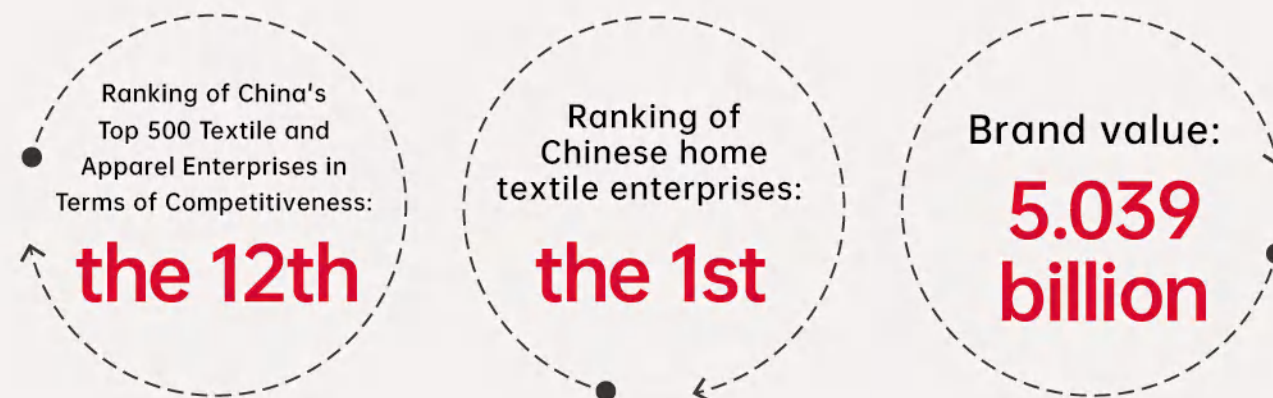


Group introduction

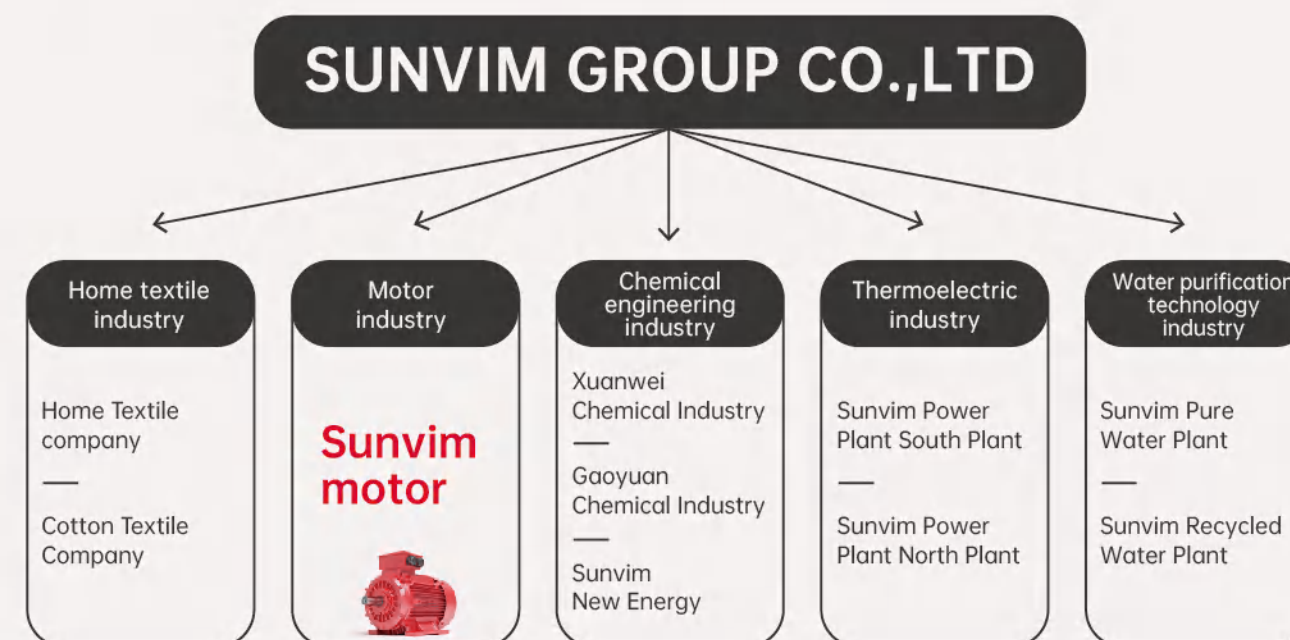
Founded in 1987, Sunvim Group has adhered to the business philosophy of "Pursuing Success with Sincerity and Creating Win-win Cooperation" for nearly 40 years. It has developed into a comprehensive group enterprise with home textiles as its leading business, integrating diversified industries such as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

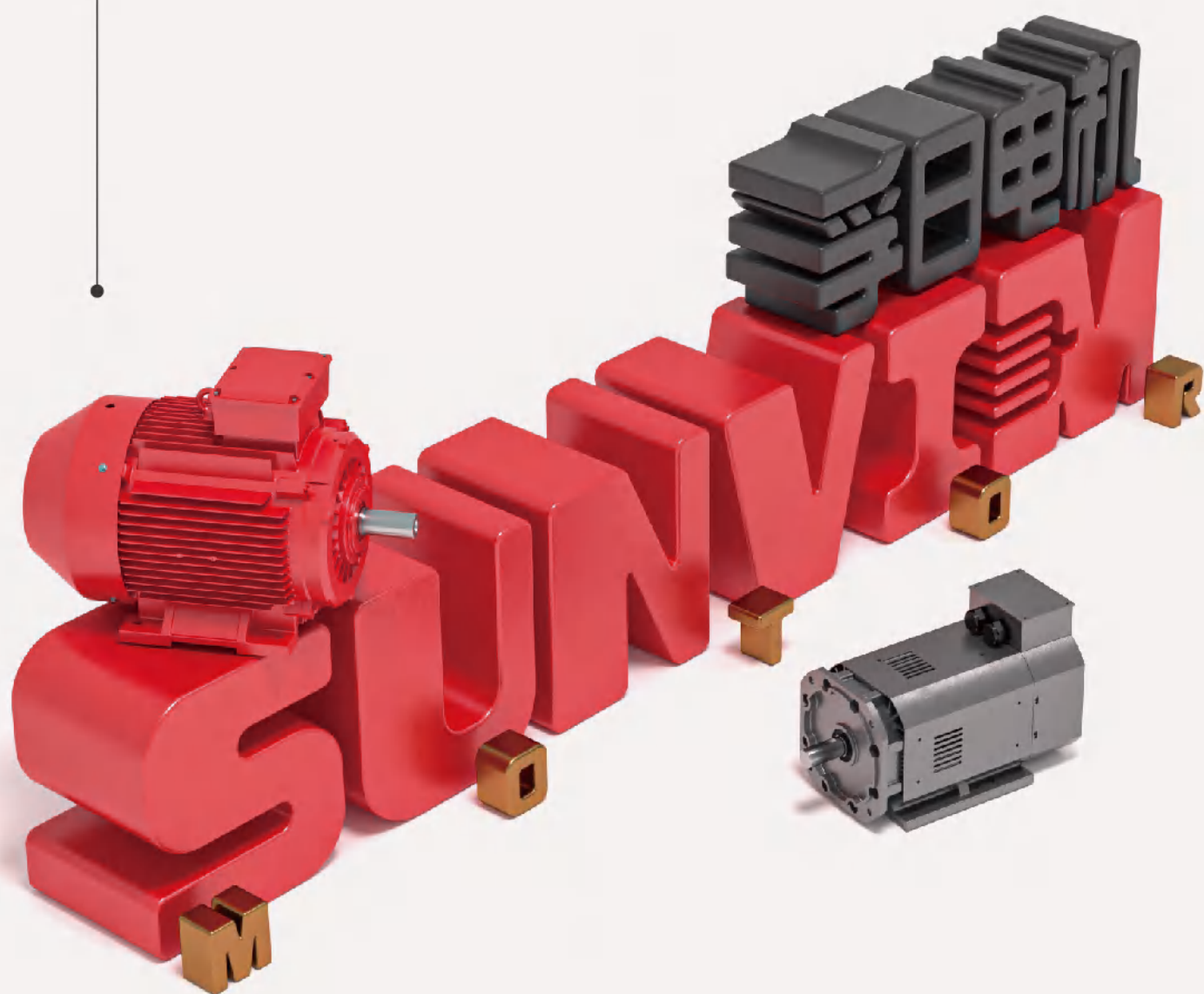


Group industry



BEYOND ROTATION

ENGINEERED FOR EFFICIENCY



Land area
102

Total investment
200,000,000



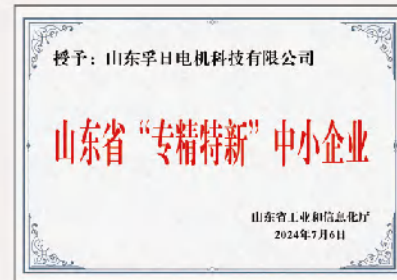
Shandong Sunvim Motor Co., Ltd. mainly engages in the research, development and production of high-efficiency and energy-saving electric motors. With a total investment of 200 million yuan and a land area of 102 acres, the company is equipped with advanced international and domestic facilities such as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

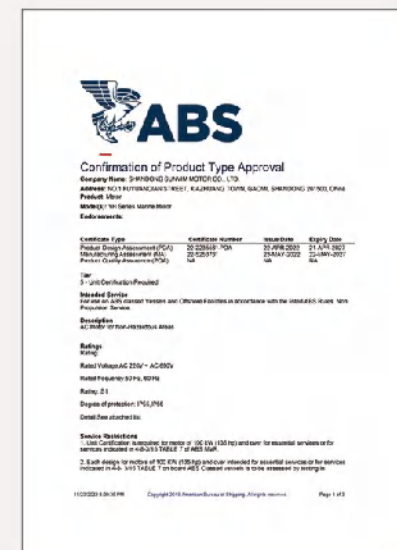
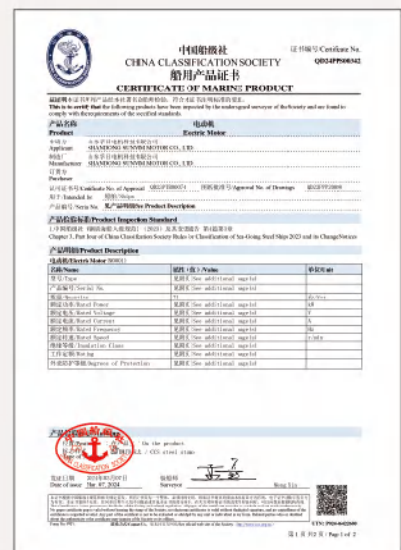


The company has passed certifications of ISO9001:2008 quality management system certification, China Energy-saving Product Certification, UL product certification in the United States, CE certification in the European Union, UKCA certification in the United Kingdom, CCS type certification of China Classification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

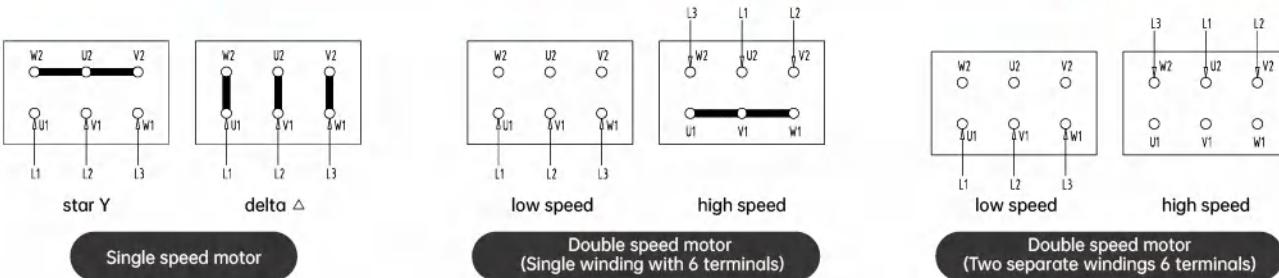
Cooling

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

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

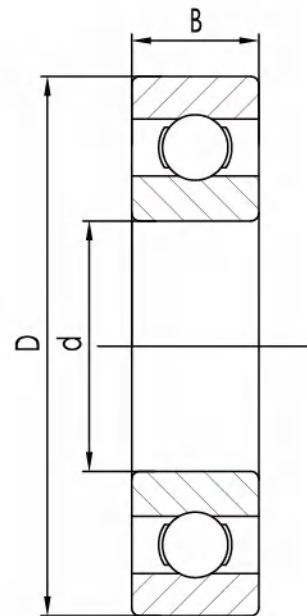
IC code	IC410(TENV)	IC411(TEFC)	IC416(TEBC)	IC418(TEAO)
Figure				
Description	Enclosed machine, surface-cooled by natural convection and radiation. No external fan.	Enclosed machine. Smooth or finned ventilated casing. External shaft-mounted fan.	Enclosed machine. Smooth or finned enclosed casing. External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



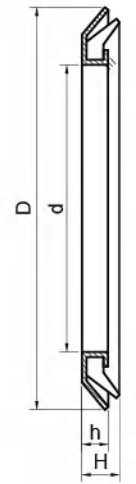
Bearing lubrication interval

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.

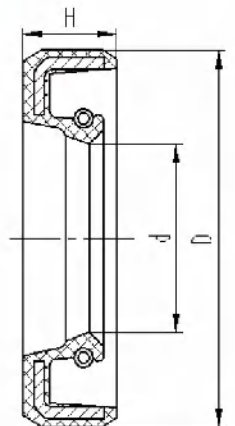
Gamma seal

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

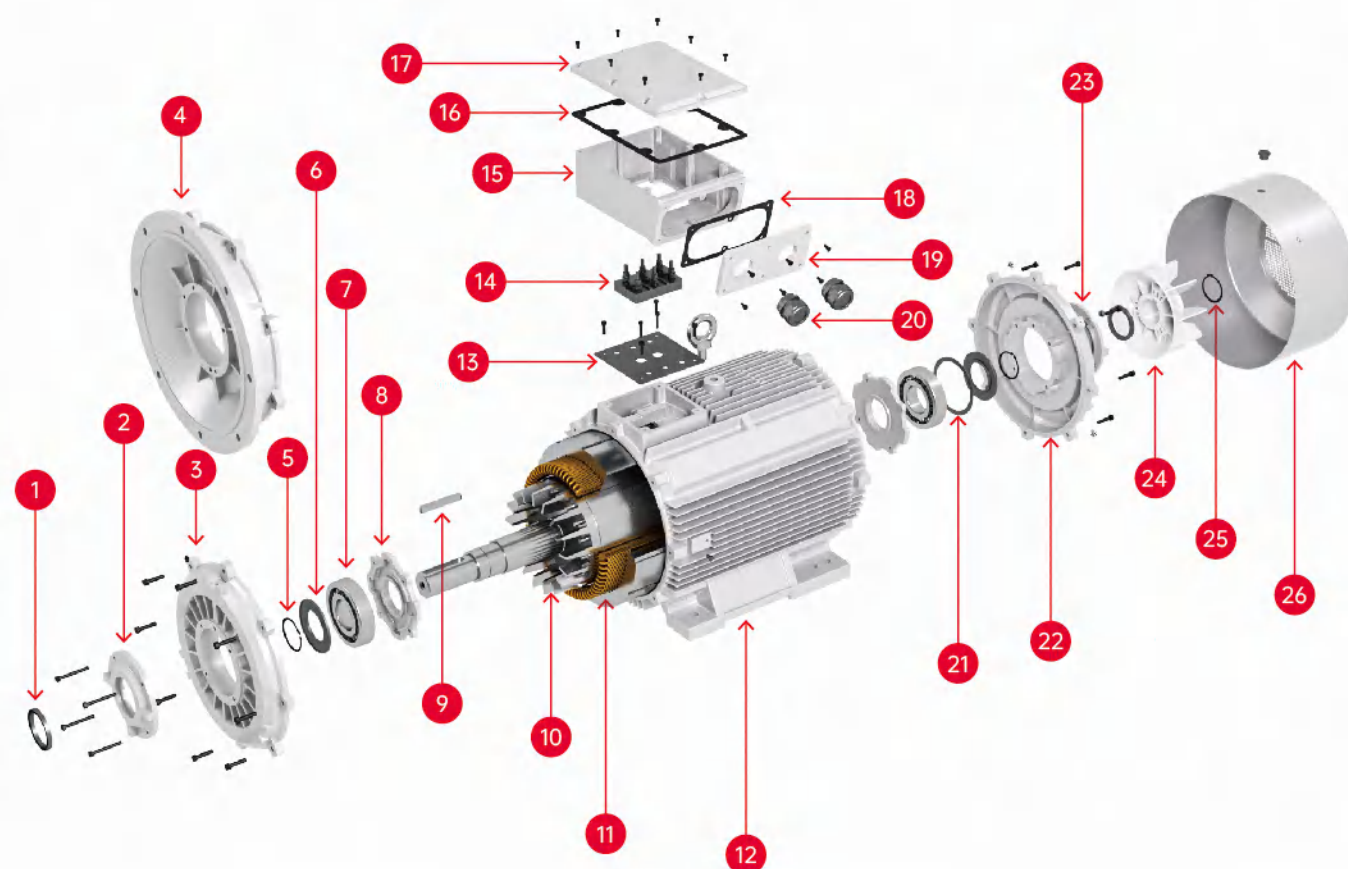
Grade "A" applies to machines with no special vibration requirements.

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

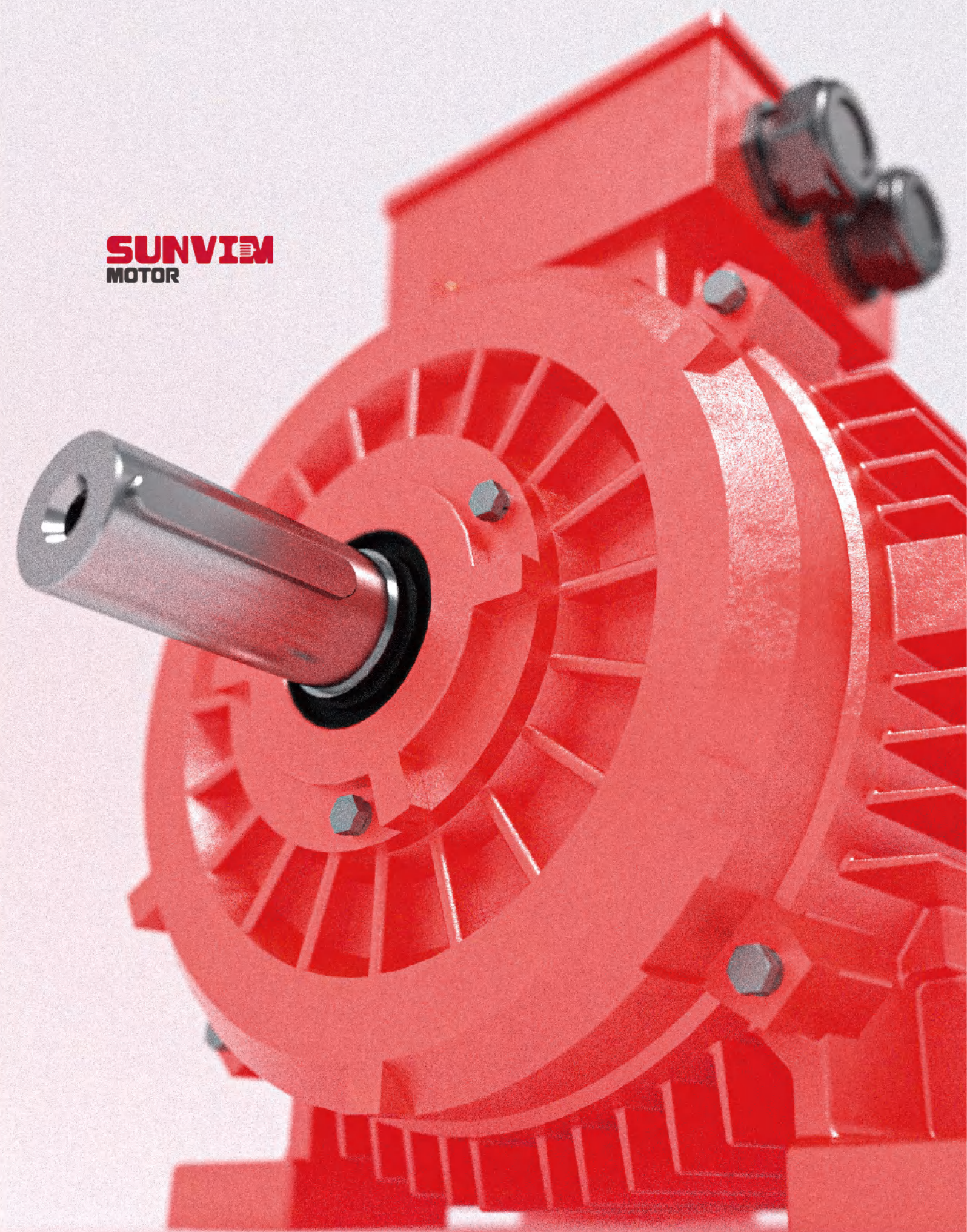
Rigid mounting is not considered acceptable for machines with shaft heights less than 132 mm.

NOTE:

- The manufacturer and the purchaser should take into account that the instrumentation can have a measurement tolerance of ± 10 %.
- 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.
- 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."

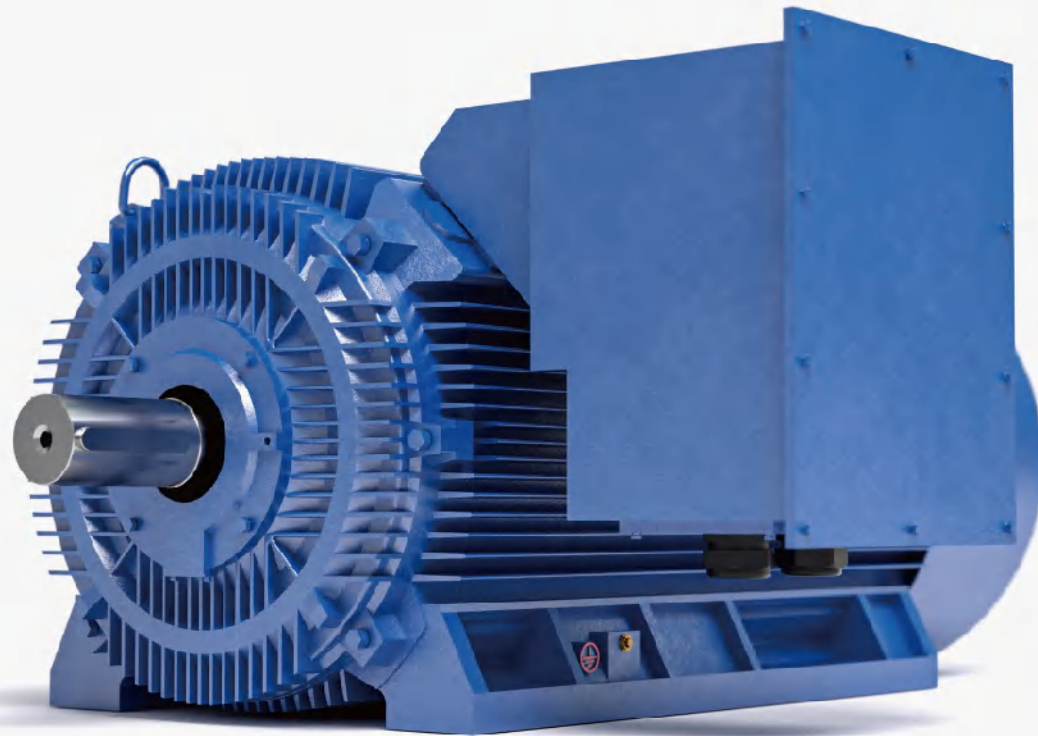


- | | | |
|--------------------------|-----------------------------|----------------------------|
| 1. Oil seal | 10. Rotor | 18. Removable plate gasket |
| 2. Outer bearing cap (D) | 11. Stator | 19. Removable plate |
| 3. Endshield D.E | 12. Housing | 20. Cable gland |
| 4. Flange | 13. Terminal box 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 |



Y2 rib cooled motors

Technical data



Y2 rib cooled motors

Frame size: 355-560(6kV)/400-560(10kV)
 Output: 185kW-2000kW(6kV)/185kW-1600kW(10kV)
 Voltage / Frequency: 6kV,10kV/50Hz
 Insulation class: F
 Protection degree: IP54/IP55/IP56/IP65/IP66
 Mounting arrangements: IM B3/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)	Speed (r/min)	Current (A)	Eff. $\eta\%$	P.F. $\cos \varphi$	Torque (N.m)	T _{st} T _n	I _{st} I _n	T _{max} T _n	Weight (kg)	Inertia (kg·m ²)
Y2-355X-2	185	2985	22.6	92.5	0.85	592	0.7	7.0	2.0	1860	3.6
	200	2985	24.4	92.7	0.85	640	0.7	7.0	2.0	1900	3.8
	220	2985	26.8	92.9	0.85	704	0.7	7.0	2.0	1950	4.1
	250	2985	30.4	93.1	0.85	800	0.7	7.0	2.0	2010	4.6
	280	2985	33.2	93.3	0.87	896	0.7	7.0	2.0	2130	5.4
	315	2985	37.3	93.5	0.87	1008	0.7	7.0	2.0	2200	5.7
Y2-400X-2	355	2985	41.9	93.8	0.87	1136	0.7	7.0	2.0	2290	6.2
	400	2985	47.1	94.0	0.87	1280	0.7	7.0	2.0	3030	9.1
	450	2985	52.8	94.2	0.87	1440	0.7	7.0	2.0	3190	10.4
	500	2985	57.9	94.4	0.88	1600	0.7	7.0	2.0	3320	11.5
Y2-450X-2	560	2985	64.7	94.6	0.88	1792	0.7	7.0	2.0	3460	13.0
	630	2985	72.7	94.8	0.88	2016	0.7	7.0	2.0	4360	15.7
	710	2985	81.7	95.0	0.88	2272	0.7	7.0	2.0	4580	18.0
Y2-500X-2	800	2985	90.9	95.2	0.89	2559	0.7	7.0	2.0	4910	21.1
	900	2985	102.1	95.3	0.89	2879	0.7	7.0	2.0	6010	30.0
	1000	2985	113.3	95.4	0.89	3199	0.7	7.0	2.0	6210	32.0
	1120	2985	126.7	95.6	0.89	3583	0.7	7.0	2.0	6510	34.4
Y2-560X-2	1250	2985	139.7	95.7	0.90	3999	0.7	7.0	2.0	6810	36.0
	1400	2985	156.3	95.8	0.90	4479	0.7	7.0	2.0	7610	72.5
	1600	2985	178.4	95.9	0.90	5119	0.7	7.0	2.0	7910	79.8
	1800	2985	200.3	96.1	0.90	5759	0.7	7.0	2.0	8210	84.2
Y2-355X-4	185	1490	22.7	92.3	0.85	1186	0.8	6.5	2.0	2190	8.0
	200	1490	24.5	92.5	0.85	1282	0.8	6.5	2.0	2250	8.6
	220	1490	26.9	92.7	0.85	1410	0.8	6.5	2.0	2320	9.1
	250	1490	30.5	92.9	0.85	1602	0.8	6.5	2.0	2390	10.1
	280	1490	34.0	93.1	0.85	1795	0.8	6.5	2.0	2490	10.5
	315	1490	37.7	93.4	0.86	2019	0.8	6.5	2.0	2610	11.6
	355	1490	42.4	93.7	0.86	2275	0.8	6.5	2.0	2700	12.4
Y2-400X-4	400	1490	47.7	93.9	0.86	2564	0.8	6.5	2.0	3410	17.8
	450	1490	53.5	94.1	0.86	2884	0.8	6.5	2.0	3510	20.5
	500	1490	58.6	94.3	0.87	3205	0.8	6.5	2.0	3740	23.6
	560	1490	65.5	94.5	0.87	3589	0.8	6.5	2.0	3930	24.6
Y2-450X-4	630	1490	73.6	94.7	0.87	4038	0.8	6.5	2.0	4600	33.6
	710	1490	82.8	94.9	0.87	4551	0.8	6.5	2.0	4740	35.2
	800	1490	93.0	95.1	0.87	5128	0.8	6.5	2.0	5040	40.6
Y2-500X-4	900	1490	104.6	95.2	0.87	5768	0.8	6.5	2.0	6140	64.4
	1000	1490	116.1	95.3	0.87	6409	0.8	6.5	2.0	6340	71.1
	1120	1490	129.7	95.5	0.87	7179	0.8	6.5	2.0	6540	78.7
	1250	1490	143.0	95.6	0.88	8012	0.8	6.5	2.0	6740	87.2
Y2-560X-4	1400	1490	160.0	95.7	0.88	8973	0.7	6.5	2.0	7740	111.0
	1600	1490	182.4	95.9	0.88	10255	0.7	6.5	2.0	8040	122.7
	1800	1490	205.0	96.0	0.88	11537	0.7	6.5	2.0	8340	133.7
	2000	1490	225.0	96.1	0.89	12819	0.7	6.5	2.0	8640	145.0

Y2 rib cooled motors

Technical data

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. $\eta\%$	P.F. $\cos \varphi$	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)	Inertia (kg·m ²)
Y2-355X-6	185	990	23.9	92.1	0.81	1785	0.8	6.0	2.0	2290	10.8
	200	990	25.7	92.3	0.81	1929	0.8	6.0	2.0	2400	11.5
	220	990	27.6	92.5	0.83	2122	0.8	6.0	2.0	2640	13.1
	250	990	31.3	92.7	0.83	2412	0.8	6.0	2.0	2620	14.1
	280	990	34.9	92.9	0.83	2701	0.8	6.0	2.0	2730	15.5
Y2-400X-6	315	990	39.2	93.2	0.83	3039	0.8	6.0	2.0	3480	25.5
	355	990	43.5	93.5	0.84	3424	0.8	6.0	2.0	3680	28.5
	400	990	48.9	93.7	0.84	3859	0.8	6.0	2.0	3850	32.0
	450	990	54.9	93.9	0.84	4341	0.8	6.0	2.0	4020	35.9
Y2-450X-6	500	990	60.9	94.1	0.84	4823	0.8	6.0	2.0	4510	48.2
	560	990	68.0	94.3	0.84	5402	0.8	6.0	2.0	4720	54.1
	630	990	76.3	94.6	0.84	6077	0.8	6.0	2.0	4910	58.5
Y2-500X-6	710	990	85.9	94.7	0.84	6849	0.8	6.0	2.0	6010	75.7
	800	990	96.6	94.9	0.84	7717	0.8	6.0	2.0	6210	81.9
	900	990	107.3	95.0	0.85	8682	0.8	6.0	2.0	6410	90.0
	1000	990	118.9	95.2	0.85	9646	0.8	6.0	2.0	6610	99.0
Y2-560X-6	1120	990	133.0	95.3	0.85	10804	0.7	6.0	2.0	7810	149.0
	1250	990	148.2	95.5	0.85	12058	0.7	6.0	2.0	8010	164.0
	1400	990	162.0	95.6	0.87	13505	0.7	6.0	2.0	8210	174.0
	1600	990	184.9	95.7	0.87	15434	0.7	6.0	2.0	8510	182.0
Y2-355X-8	185	745	25.2	91.7	0.77	2371	0.8	5.5	2.0	2560	13.7
	200	745	26.9	91.8	0.78	2564	0.8	5.5	2.0	2610	16.5
Y2-400X-8	220	745	29.5	91.9	0.78	2820	0.8	5.5	2.0	3440	28.3
	250	745	33.0	92.2	0.79	3205	0.8	5.5	2.0	3580	30.8
	280	745	37.0	92.3	0.79	3589	0.8	5.5	2.0	3740	34.1
	315	745	41.4	92.6	0.79	4038	0.8	5.5	2.0	3910	37.5
	355	745	46.5	92.9	0.79	4551	0.8	5.5	2.0	4130	41.8
Y2-450X-8	400	745	51.7	93.1	0.80	5128	0.8	5.5	2.0	4880	65.1
	450	745	58.0	93.4	0.80	5768	0.8	5.5	2.0	5200	73.1
	500	745	63.4	93.7	0.81	6409	0.8	5.5	2.0	5310	75.4
Y2-500X-8	560	745	70.9	93.8	0.81	7179	0.8	5.5	2.0	6410	94.4
	630	745	78.6	94.1	0.82	8076	0.8	5.5	2.0	6610	100.0
	710	745	88.4	94.2	0.82	9101	0.8	5.5	2.0	6800	106.7
Y2-560X-8	800	745	99.5	94.4	0.82	10255	0.7	5.5	2.0	8010	150.0
	900	745	111.8	94.5	0.82	11537	0.7	5.5	2.0	8210	161.0
	1000	745	122.4	94.7	0.83	12819	0.7	5.5	2.0	8410	170.0
	1120	745	137.0	94.8	0.83	14357	0.7	5.5	2.0	8610	176.0

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. $\eta\%$	P.F. $\cos \varphi$	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)	Inertia (kg·m ²)
Y2-400X-10	185	595	25.2	91.6	0.77	2969	0.7	5.5	2.0	3480	30.3
	200	595	26.9	91.7	0.78	3210	0.7	5.5	2.0	3630	33.3
	220	595	29.5	91.9	0.78	3531	0.7	5.5	2.0	3780	36.7
	250	595	33.5	92.1	0.78	4013	0.7	5.5	2.0	3960	40.2
	280	595	37.4	92.3	0.78	4494	0.7	5.5	2.0	4560	57.7
Y2-450X-10	315	595	41.5	92.5	0.79	5056	0.7	5.5	2.0	4860	66.0
	355	595	46.6	92.7	0.79	5698	0.7	5.5	2.0	5220	75.9
	400	595	52.3	93.2	0.79	6420	0.7	5.5	2.0	5490	84.2
	450	595	58.8	93.2	0.79	7223	0.7	5.5	2.0	6590	116.6
Y2-500X-10	500	595	63.5	93.5	0.81	8025	0.7	5.5	2.0	6680	127.5
	560	595	71.1	93.6	0.81	8988	0.7	5.5	2.0	6790	137.2
	630	595	79.9	93.7	0.81	10112	0.7	5.5	2.0	7990	166.0
Y2-560X-10	710	595	89.9	93.8	0.81	11396	0.7	5.5	2.0	8190	176.0
	800	595	99.7	94.2	0.82	12840	0.7	5.5	2.0	8390	185.0
	900	595	112.0	94.3	0.82	14445	0.7	5.5	2.0	8590	191.0
Y2-450X-12	185	495	26.4	91.0	0.74	3569	0.7	5.5	2.0	4210	47.1
	200	495	28.5	91.2	0.74	3859	0.7	5.5	2.0	4380	51.2
	220	495	30.9	91.3	0.75	4244	0.7	5.5	2.0	4550	56.2
	250	495	35.1	91.5	0.75	4823	0.7	5.5	2.0	4840	64.4
	280	495	38.8	92.5	0.75	5402	0.7	5.5	2.0	5040	70.2
	315	495	43.6	92.7	0.75	6077	0.7	5.5	2.0	5320	79.3
	355	495	49.1	92.8	0.75	6849	0.7	5.5	2.0	6420	107.1
	400	495	52.3	93.2	0.79	7717	0.7	5.5	2.0	6510	124.9
Y2-500X-12	450	495	58.8	93.2	0.79	8682	0.7	5.5	2.0	6620	137.3
	500	495	65.1	93.6	0.79	9646	0.7	5.5	2.0	7820	176.0
	560	495	72.8	93.7	0.79	10804	0.7	5.5	2.0	8020	186.0
Y2-560X-12	630	495	80.8	93.8	0.80	12155	0.7	5.5	2.0	8220	195.0
	710	495	91.0	93.8	0.80	13698	0.7	5.5	2.0	8430	200.0

Y2 rib cooled motors

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. $\eta\%$	P.F. $\cos \varphi$	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)	Inertia (kg·m ²)
Y2-400X-2	185	2985	13.8	92.2	0.84	592	0.7	7.0	2.0	3020	5
	200	2985	14.9	92.4	0.84	640	0.7	7.0	2.0	3050	5.7
	220	2985	16.3	92.6	0.84	704	0.7	7.0	2.0	3090	6.5
	250	2985	18.5	92.8	0.84	800	0.7	7.0	2.0	3150	7
	280	2985	20.2	93.0	0.86	896	0.7	7.0	2.0	3210	7.5
	315	2985	22.7	93.2	0.86	1008	0.7	7.0	2.0	3280	8.3
	355	2985	25.5	93.5	0.86	1136	0.7	7.0	2.0	3360	8.8
	400	2985	28.7	93.7	0.86	1280	0.7	7.0	2.0	3450	9.2
Y2-450X-2	450	2985	32.2	93.9	0.86	1440	0.7	7.0	2.0	4350	14.3
	500	2985	35.3	94.1	0.87	1600	0.7	7.0	2.0	4510	15
	560	2985	39.4	94.3	0.87	1792	0.7	7.0	2.0	4690	15.7
	630	2985	44.2	94.6	0.87	2016	0.7	7.0	2.0	4900	16.2
Y2-500X-2	710	2985	49.8	94.7	0.87	2272	0.7	7.0	2.0	6000	28
	800	2985	55.3	94.9	0.88	2559	0.7	7.0	2.0	6240	29.2
	900	2985	62.2	95.0	0.88	2879	0.7	7.0	2.0	6520	31.5
	1000	2985	69.0	95.1	0.88	3199	0.7	7.0	2.0	6800	33
Y2-560X-2	1120	2985	77.1	95.3	0.88	3583	0.7	7.0	2.0	7600	62.7
	1250	2985	85.0	95.4	0.89	3999	0.7	7.0	2.0	7760	67.7
	1400	2985	95.1	95.5	0.89	4479	0.7	7.0	2.0	7950	71.8
	1600	2985	107.3	95.7	0.90	5119	0.7	7.0	2.0	8200	76.2
Y2-400X-4	185	1490	14.0	92.0	0.83	1186	0.8	6.5	2.0	3400	11.5
	200	1490	15.1	92.2	0.83	1282	0.8	6.5	2.0	3320	12.5
	220	1490	16.6	92.4	0.83	1410	0.8	6.5	2.0	3370	13
	250	1490	18.8	92.6	0.83	1602	0.8	6.5	2.0	3450	13.5
	280	1490	21.0	92.9	0.83	1795	0.8	6.5	2.0	3530	14.5
	315	1490	23.3	93.1	0.84	2019	0.8	6.5	2.0	3620	16.5
	355	1490	26.1	93.4	0.84	2275	0.8	6.5	2.0	3710	18.5
	400	1490	29.4	93.6	0.84	2564	0.8	6.5	2.0	3800	19.5
Y2-450X-4	450	1490	33.0	93.8	0.84	2884	0.8	6.5	2.0	4590	31.5
	500	1490	36.1	94.0	0.85	3205	0.8	6.5	2.0	4780	33.7
	560	1490	40.4	94.2	0.85	3589	0.8	6.5	2.0	4900	35.5
	630	1490	45.3	94.4	0.85	4038	0.8	6.5	2.0	5000	37
Y2-500X-4	710	1490	51.0	94.6	0.85	4551	0.8	6.5	2.0	6130	60.5
	800	1490	56.7	94.8	0.86	5128	0.8	6.5	2.0	6330	62
	900	1490	63.7	94.9	0.86	5768	0.8	6.5	2.0	6530	63.5
	1000	1490	70.7	95.0	0.86	6409	0.8	6.5	2.0	6700	64.5
Y2-560X-4	1120	1490	79.0	95.2	0.86	7179	0.8	6.5	2.0	7730	116
	1250	1490	87.0	95.3	0.87	8012	0.8	6.5	2.0	7970	120
	1400	1490	97.3	95.5	0.87	8973	0.7	6.5	2.0	8250	126.8
	1600	1490	111.1	95.6	0.87	10255	0.7	6.5	2.0	8600	133.7

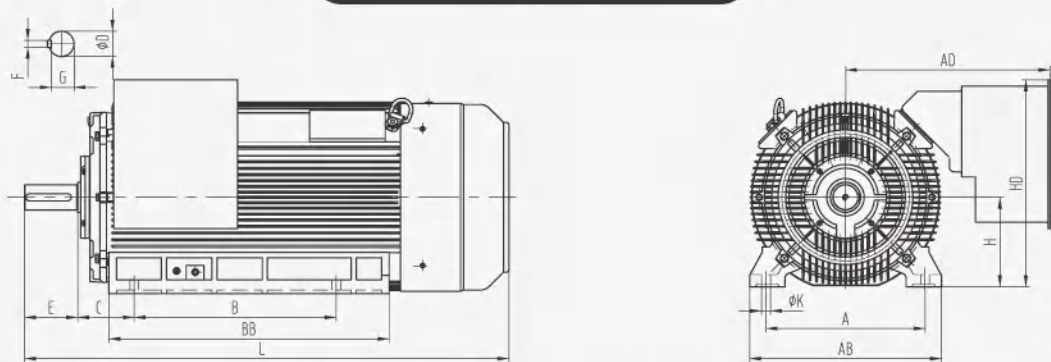
Technical data

Technical data (at 50Hz)

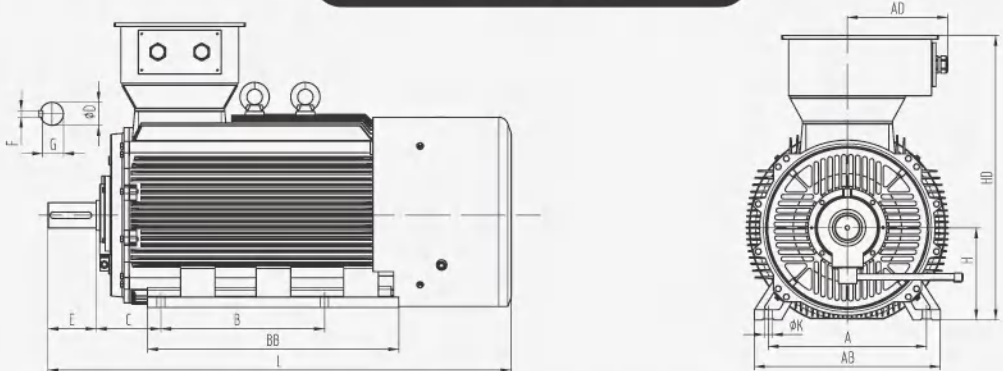
Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. $\eta\%$	P.F. $\cos \varphi$	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)	Inertia (kg·m ²)
Y2-400X-6	185	990	14.7	91.8	0.79	1785	0.8	6.0	2.0	3460	18.5
	200	990	15.9	92.0	0.79	1929	0.8	6.0	2.0	3730	19.5
	220	990	17.0	92.2	0.81	2122	0.8	6.0	2.0	3770	21
	250	990	19.3	92.4	0.81	2412	0.8	6.0	2.0	3850	22.3
	280	990	21.6	92.6	0.81	2701	0.8	6.0	2.0	3920	24.7
	315	990	24.2	92.9	0.81	3039	0.8	6.0	2.0	4000	26
Y2-450X-6	355	990	26.8	93.2	0.82	3424	0.8	6.0	2.0	4500	36.5
	400	990	30.2	93.4	0.82	3859	0.8	6.0	2.0	4620	38.8
	450	990	33.9	93.6	0.82	4341	0.8	6.0	2.0	4760	42.5
Y2-450X-6	500	990	37.5	93.8	0.82	4823	0.8	6.0	2.0	4900	46.5
	560	990	41.9	94.1	0.82	5402	0.8	6.0	2.0	6000	68.5
	630	990	47.0	94.3	0.82	6077	0.8	6.0	2.0	6210	71.8
Y2-450X-6	710	990	53.0	94.4	0.82	6849	0.8	6.0	2.0	6370	78.5
	800	990	59.5	94.6	0.82	7717	0.8	6.0	2.0	6600	83.5
Y2-560X-6	900	990	66.1	94.7	0.83	8682	0.8	6.0	2.0	7800	160.6
	1000	990	73.3	94.9	0.83	9646	0.8	6.0	2.0	8000	164.5
	1120	990	82.0	95.0	0.83	10804	0.7	6.0	2.0	8240	172.5
	1250	990	90.2	95.2	0.84	12058	0.7	6.0	2.0	8500	178.5
Y2-400X-8	185	745	15.6	91.4	0.75	2371	0.8	5.5	2.0	3430	22.3
	200	745	16.6	91.5	0.76	2564	0.8	5.5	2.0	3770	24.8
	220	745	18.2	91.6	0.76	2820	0.8	5.5	2.0	4100	26
	250	745	20.4	91.9	0.77	3205	0.8	5.5	2.0	4870	35.5
Y2-450X-8	280	745	22.8	92.1	0.77	3589	0.8	5.5	2.0	4950	37.5
	315	745	25.6	92.4	0.77	4038	0.8	5.5	2.0	5050	39.5
	355	745	28.7	92.6	0.77	4551	0.8	5.5	2.0	5170	42.5
	400	745	31.9	92.8	0.78	5128	0.8	5.5	2.0	5300	46.5
Y2-500X-8	450	745	35.8	93.1	0.78	5768	0.8	5.5	2.0	6400	75
	500	745	39.1	93.4	0.79	6409	0.8	5.5	2.0	6520	78.5
	560	745	43.8	93.5	0.79	7179	0.8	5.5	2.0	6640	83.5
	630	745	47.9	93.8	0.81	8076	0.8	5.5	2.0	6750	91
Y2-560X-8	710	745	53.8	94.0	0.81	9101	0.8	5.5	2.0	8000	155.5
	800	745	60.6	94.1	0.81	10255	0.7	5.5	2.0	8200	160.5
	900	745	68.0	94.3	0.81	11537	0.7	5.5	2.0	8400	169.2
	1000	745	75.5	94.4	0.81	12819	0.7	5.5	2.0	8600	175
Y2-450X-10	185	595	16.5	91.3	0.71	2969	0.7	5.5	2.0	5230	42.8
	200	595	17.5	91.4	0.72	3210	0.7	5.5	2.0	5270	44.5
	220	595	19.3	91.6	0.72	3531	0.7	5.5	2.0	5320	46
	250	595	21.5	91.8	0.73	4013	0.7	5.5	2.0	5400	50.8
Y2-500X-10	280	595	23.7	92.0	0.74	4494	0.7	5.5	2.0	5450	55.5
	315	595	26.7	92.2	0.74	5056	0.7	5.5	2.0	6580	85.5
	355	595	29.6	92.4	0.75	5698	0.7	5.5	2.0	6610	87.5
	400	595	33.1	92.9	0.75	6420	0.7	5.5	2.0	6660	91
Y2-560X-10	450	595	36.8	92.9	0.76	7223	0.7	5.5	2.0	6720	96
	500	595	40.2	93.2	0.77	8025	0.7	5.5	2.0	6800	103.5
	560	595	45.0	93.3	0.77	8988	0.7	5.5	2.0	7980	168.8
	630	595	50.6	93.4	0.77	10112	0.7	5.5	2.0	8150	175.5
Y2-450X-12	710	595	56.9	93.5	0.77	11396	0.7	5.5	2.0	8350	184.2
	800	595	63.9	93.9	0.77	12840	0.7	5.5	2.0	8600	190
Y2-500X-12	185	495	16.4	90.7	0.72	3569	0.7	5.5	2.0	4800	48.5
	200	495	17.6	90.9	0.72	3859	0.7	5.5	2.0	5000	53.2
	220	495	19.4	91.0	0.72	4244	0.7	5.5	2.0	5300	58
	250	495	22.0	91.2	0.72	4823	0.7	5.5	2.0	6400	92.5
Y2-560X-12	280	495	24.0	92.2	0.73	5402	0.7	5.5	2.0	6460	96
	315	495	27.0	92.4	0.73	6077	0.7	5.5	2.0	6530	101
	355	495	30.4	92.5	0.73	6849	0.7	5.5	2.0	6600	108.5
	400	495	34.1	92.9	0.73	7717	0.7	5.5	2.0	7810	174
Y2-560X-12	450	495	37.8	92.9	0.74	8682	0.7	5.5	2.0	7930	178
	500	495	41.8	93.3	0.74	9646	0.7	5.5	2.0	8060	183
	560	495	46.8	93.4	0.74	10804	0.7	5.5	2.0	8210	191.8
	630	495	52.6	93.5	0.74	12155	0.7	5.5	2.0	8400	197.5

B3

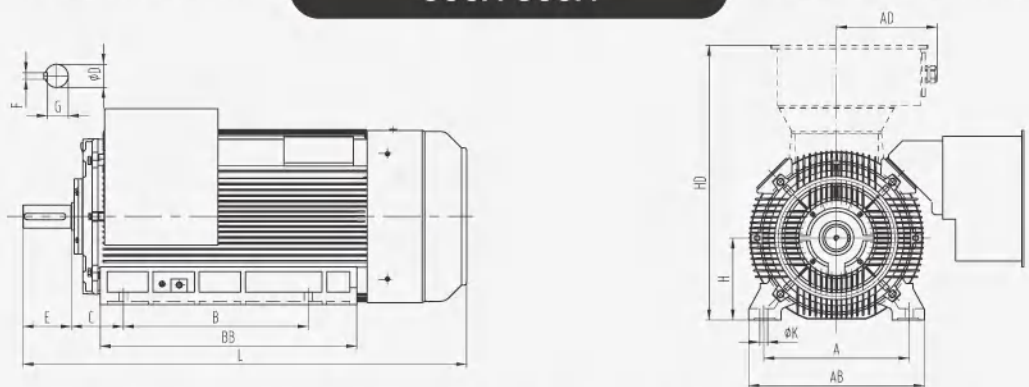
355X



400X-450X



500X-560X



Frame size	极数	A	B	C	D	E	F	G	H	K	AB	AD (BB)	HD	L	
355	2	630	800	224	75	140	20	67.5	355	35	760	890	1110	840	1860
	4、6、8	630	800	224	100	210	28	90	355	35	760	890	1110	840	1930
400	2	686	900	280	80	170	22	71	400	35	806	560	1240	1280	2120
	4、6、8、10	686	900	280	110	210	28	100	400	35	806	560	1240	1280	2160
450	2	800	1000	280	95	170	25	86	450	42	990	560	1500	1450	2440
	4、6、8、10、12	800	1000	280	130	210	32	119	450	42	990	560	1500	1450	2480
500	2	900	1250	425	110	210	28	100	500	42	1080	970	1600	1590	2650
	4	900	1250	315	130	250	32	119	500	42	1080	970	1600	1590	2650
	6、8、10、12	900	1250	315	140	250	36	128	500	42	1080	970	1600	1590	2650
560	2	1000	1400	530	130	250	32	119	560	42	1180	1030	1680	1690	3150
	4	1000	1400	355	150	250	36	138	560	42	1180	1030	1680	1690	3150
	6、8、10、12	1000	1400	355	160	300	40	147	560	42	1180	1030	1680	1690	3150
400	2	686	900	280	80	170	22	71	400	35	806	660	1240	1380	2120
	4、6、8	686	900	280	110	210	28	100	400	35	806	660	1240	1380	2160
450	2	800	1000	280	95	170	25	86	450	42	990	660	1500	1550	2440
	4、6、8、10、12	800	1000	280	130	210	32	119	450	42	990	660	1500	1550	2480
500	2	900	1250	425	110	210	28	100	500	42	1080	1070	1600	1690	2650
	4	900	1250	315	130	250	32	119	500	42	1080	1070	1600	1690	2650
	6、8、10、12	900	1250	315	140	250	36	128	500	42	1080	1070	1600	1690	2650
560	2	1000	1400	530	130	250	32	119	560	42	1180	1130	1680	1790	3150
	4	1000	1400	355	150	250	36	138	560	42	1180	1130	1680	1790	3150
	6、8、10、12	1000	1400	355	160	300	40	147	560	42	1180	1130	1680	1790	3150

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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