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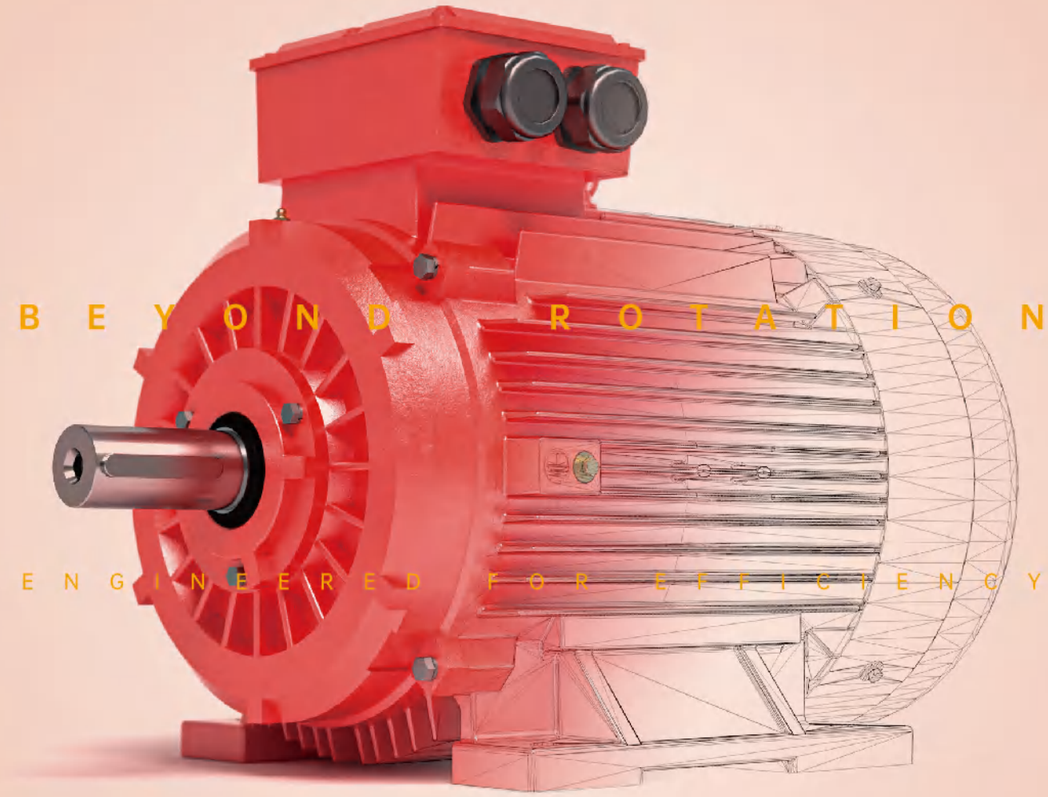
SUNVIM



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

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SUNVIM

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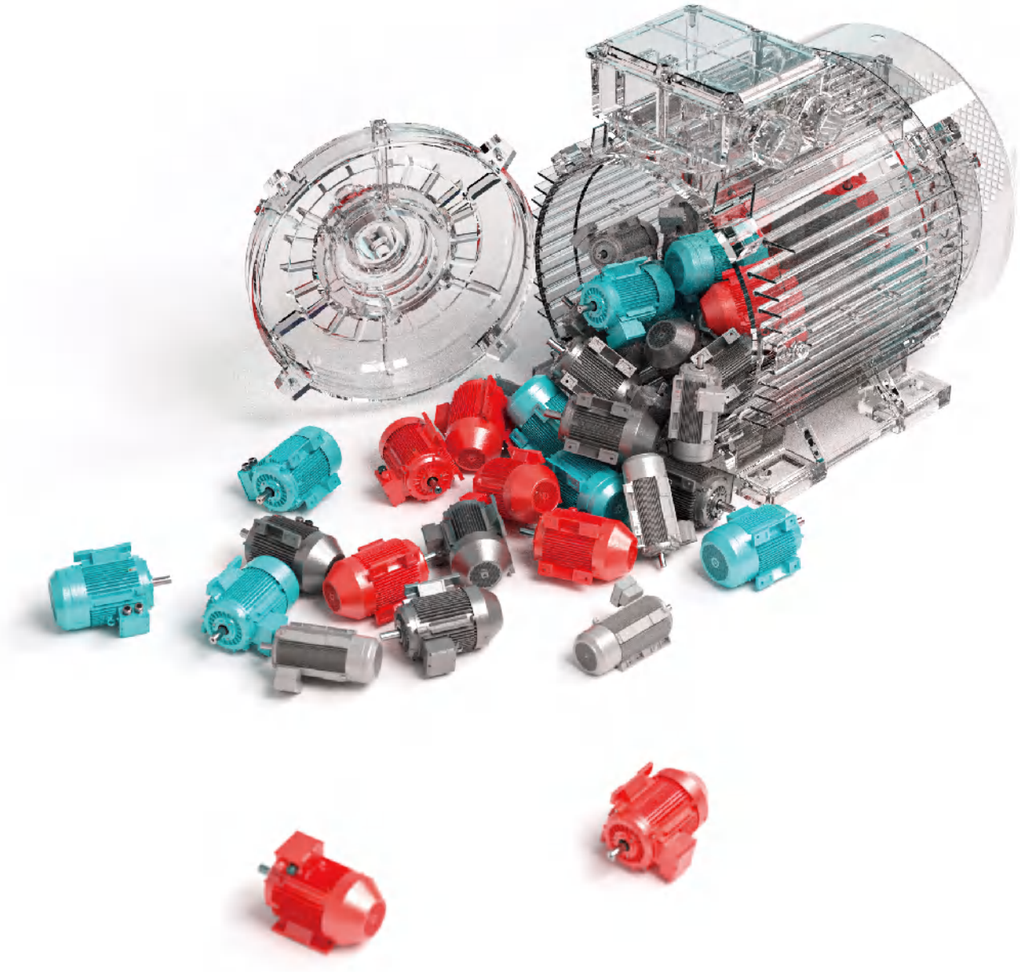


The exporing of Sunvim Home Textiles products have ranked the first in the industry for 24 consecutive years

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

Ranking of Chinese home textile enterprises:
the 1st

Brand value:
5.039 billion

Group introduction

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

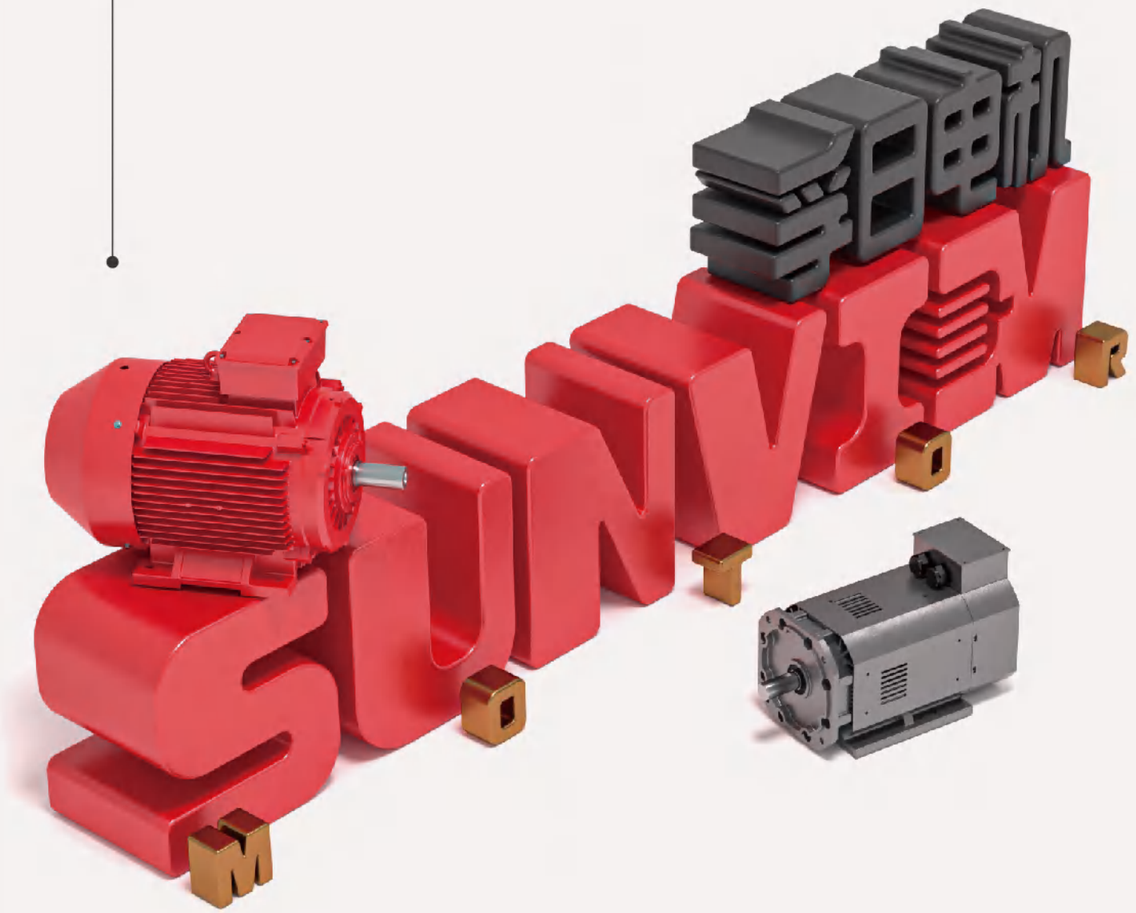
Group industry

SUNVIM GROUP CO.,LTD

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

BEYOND ROTATION

ENGINEERED FOR EFFICIENCY



Land area

102

Total investment

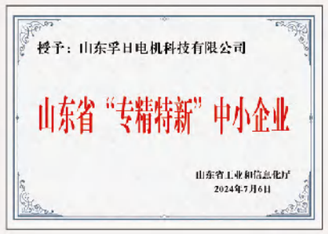
200,000,000

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

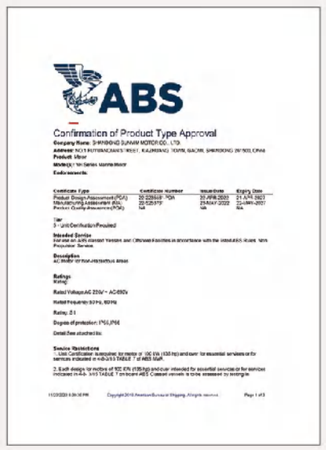
The main products include IE3/IE4 high-efficiency three-phase asynchronous motors and IE5 ultra-high-efficiency energy-saving motors. It possesses the industry leading research, design and production capabilities for ultra-high-efficiency synchronous reluctance motors, permanent magnet synchronous motors,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

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

Certificates



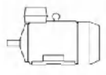
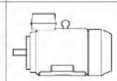
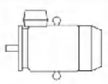
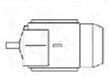
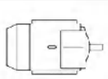
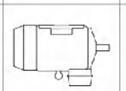
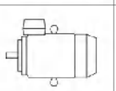
Marine certificates



Standards

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

Mounting and positions

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

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

Protection

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

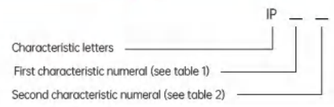


Table 1

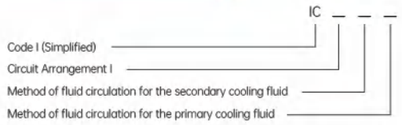
The first numeral	Brief description	Definition
0	Non-protected machine	No specific protection
1	Machine protected against solid objects greater than 50 mm	Accidental or inadvertent contact with or approach to live and moving parts inside the enclosure by a large surface of the human body, such as a hand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

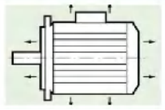
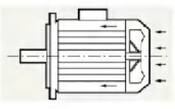
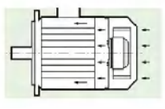
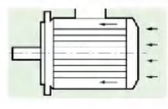
Table 2

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

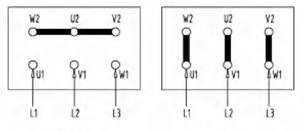
Cooling

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

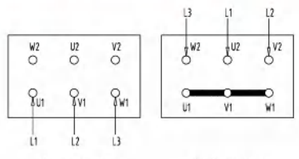


IC code	IC410(TENV)	IC411(TEFC)	IC416(TEBC)	IC418(TEAO)
Figure				
Description	Enclosed machine, surface-cooledby natural convection and radiation.No external fan.	Enclosed machine. Smooth or finned ventilated casingExtemal shaft-mounted fan.	Enclosed machine. Smooth or finned enclosed casing. External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

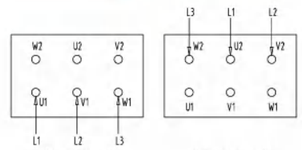
Connection



Single speed motor



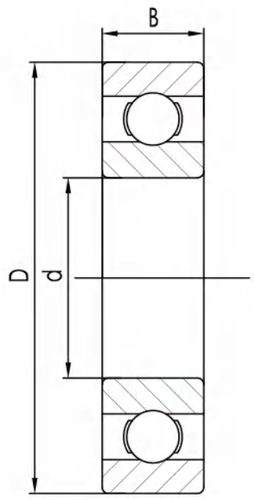
Double speed motor (Single winding with 6 terminals)



Double speed motor (Two separate windings 6 terminals)

Bearing type

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



Bearing lubrication interval

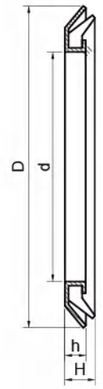
Table

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

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

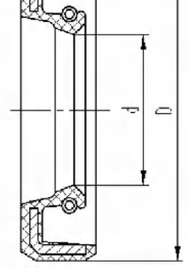
Gamma seal

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



Oil seal

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



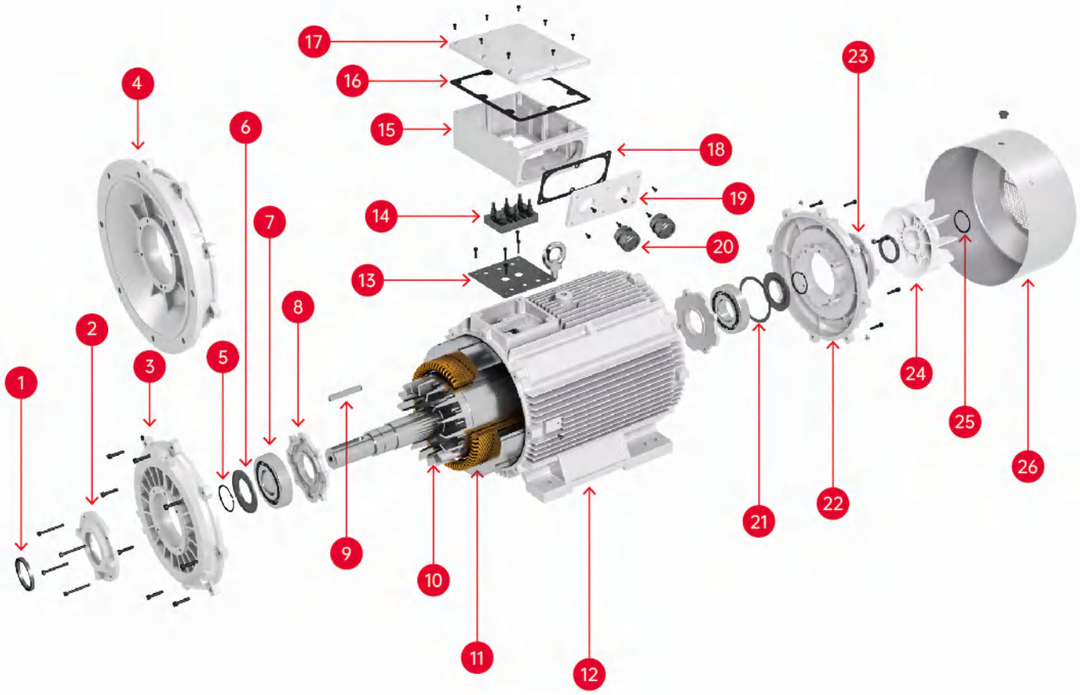
Vibration

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

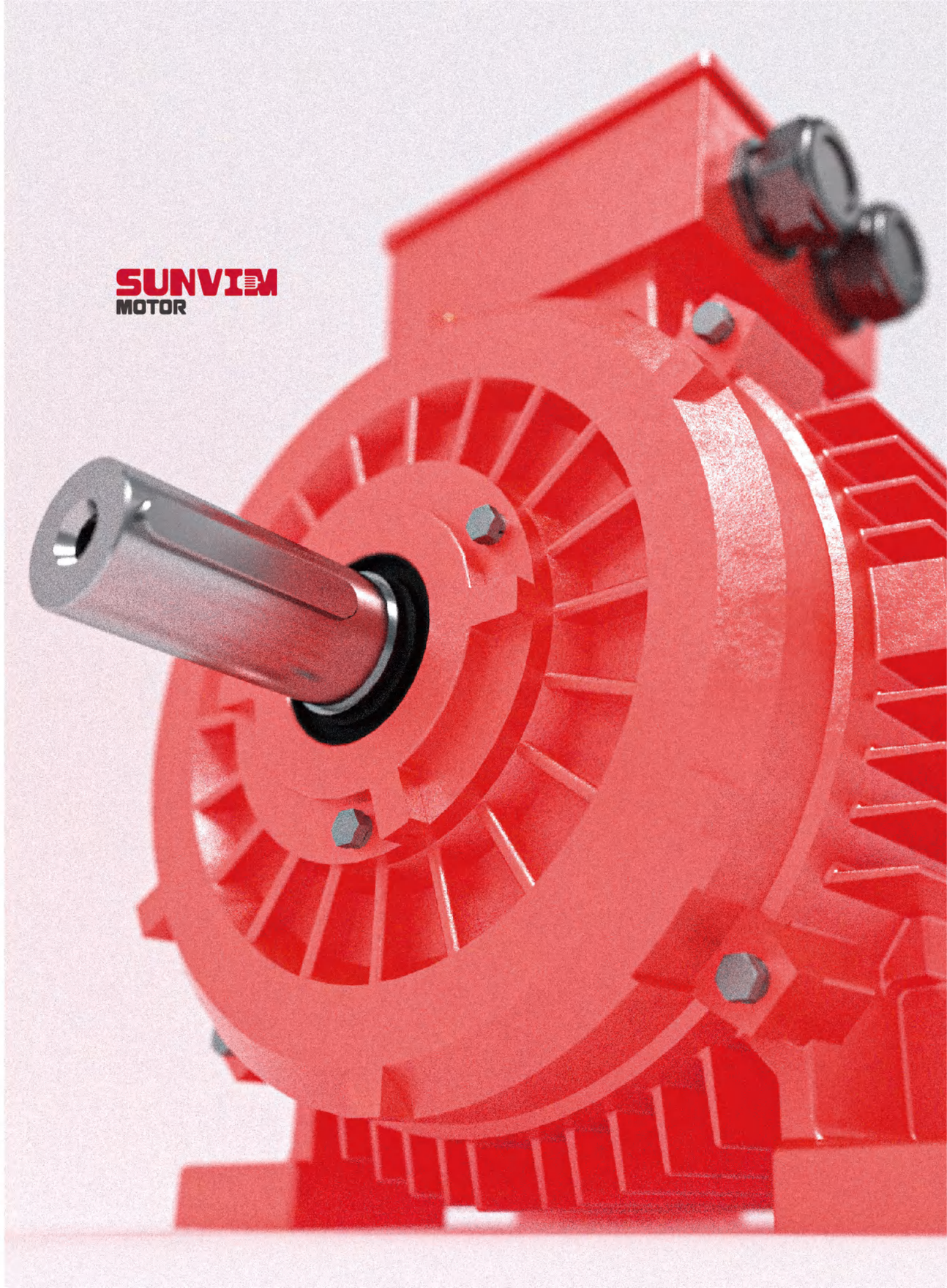
Grade "A" applies to machines with no special vibration requirements.
Grade "B" applies to machines with special vibration requirements.
Rigid mounting is not considered acceptable for machines with shaft heights less than 132 mm.

NOTE:

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



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



YLKK modular motors

Frame size: 355-710(6kV)/400-710(10kV)
Output: 185kW-3150kW(6kV)/220 kW-2500kW(10kV)
Voltage / Frequency: 6kV,10kV/50Hz
Insulation class: F
Protection degree: IP44/IP54/IP55
Cooling methods: IC611/IC616
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. η%	P.F. cos φ	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)
YLKK355-4	185	1490	22.8	91.9	0.85	1186	0.7	6.5	1.8	2650
	200	1490	24.6	92.1	0.85	1282	0.7	6.5	1.8	2700
	220	1490	27.0	92.2	0.85	1410	0.7	6.5	1.8	2730
	250	1490	30.7	92.3	0.85	1602	0.7	6.5	1.8	2770
	280	1490	33.9	92.4	0.86	1795	0.7	6.5	1.8	2850
	315	1490	38.1	92.6	0.86	2019	0.7	6.5	1.8	2930
YLKK400-4	355	1490	42.8	92.8	0.86	2275	0.7	6.5	1.8	3430
	400	1490	48.1	93.0	0.86	2564	0.7	6.5	1.8	3530
	450	1490	54.0	93.2	0.86	2884	0.7	6.5	1.8	3610
	500	1490	59.9	93.4	0.86	3205	0.7	6.5	1.8	3740
	560	1490	66.9	93.6	0.86	3589	0.7	6.5	1.8	3890
YLKK450-4	630	1490	75.2	93.8	0.86	4038	0.7	6.5	1.8	4620
	710	1490	84.5	94.0	0.86	4551	0.7	6.5	1.8	4720
	800	1490	93.8	94.3	0.87	5128	0.7	6.5	1.8	4860
	900	1490	105.5	94.4	0.87	5768	0.7	6.5	1.8	4990
YLKK500-4	1000	1490	117.0	94.5	0.87	6409	0.7	6.5	1.8	5780
	1120	1490	131.0	94.6	0.87	7179	0.7	6.5	1.8	5950
	1250	1490	144.2	94.8	0.88	8012	0.7	6.5	1.8	6140
	1400	1490	161.3	94.9	0.88	8973	0.7	6.5	1.8	6330
YLKK560-4	1600	1490	184.2	95.0	0.88	10255	0.6	6.5	1.8	7530
	1800	1490	207.0	95.1	0.88	11537	0.6	6.5	1.8	7700
	2000	1490	229.5	95.3	0.88	12819	0.6	6.5	1.8	7910
YLKK630-4	2240	1490	256.8	95.4	0.88	14357	0.6	6.5	1.8	9900
	2500	1490	286.3	95.5	0.88	16023	0.6	6.5	1.8	10200
	2800	1490	320.3	95.6	0.88	17946	0.6	6.5	1.8	10600
	3150	1490	359.6	95.8	0.88	20190	0.6	6.5	1.8	10950
YLKK355-6	185	990	23.7	91.5	0.82	1785	0.7	6.0	1.8	2730
	200	990	25.6	91.8	0.82	1929	0.7	6.0	1.8	2770
	220	990	28.1	92.0	0.82	2122	0.7	6.0	1.8	2850
	250	990	31.8	92.2	0.82	2412	0.7	6.0	1.8	2930
YLKK400-6	280	990	35.5	92.5	0.82	2701	0.7	6.0	1.8	3330
	315	990	39.8	92.8	0.82	3039	0.7	6.0	1.8	3380
	355	990	44.3	93.0	0.83	3424	0.7	6.0	1.8	3470
	400	990	49.8	93.1	0.83	3859	0.7	6.0	1.8	3560
YLKK450-6	450	990	55.9	93.4	0.83	4341	0.7	6.0	1.8	4100
	500	990	61.9	93.7	0.83	4823	0.7	6.0	1.8	4250
	560	990	68.4	93.8	0.84	5402	0.7	6.0	1.8	4410
	630	990	76.9	93.9	0.84	6077	0.7	6.0	1.8	4600
YLKK500-6	710	990	86.3	94.2	0.84	6849	0.7	6.0	1.8	5550
	800	990	97.1	94.4	0.84	7717	0.7	6.0	1.8	5750
	900	990	107.8	94.5	0.85	8682	0.7	6.0	1.8	5920
	1000	990	119.7	94.6	0.85	9646	0.7	6.0	1.8	6080
YLKK560-6	1120	990	133.9	94.7	0.85	10804	0.7	6.5	1.8	7400
	1250	990	147.4	94.9	0.86	12058	0.7	6.5	1.8	7610
	1400	990	164.9	95.0	0.86	13505	0.7	6.5	1.8	7830
YLKK630-6	1600	990	188.3	95.1	0.86	15434	0.7	6.5	1.8	9800
	1800	990	211.6	95.2	0.86	17364	0.7	6.5	1.8	10150
	2000	990	234.6	95.4	0.86	19293	0.7	6.5	1.8	10350
	2240	990	262.5	95.5	0.86	21608	0.7	6.5	1.8	10710

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)
YLKK400-8	185	740	24.9	91.6	0.78	2388	0.8	5.5	1.8	3280
	200	740	26.8	91.9	0.78	2581	0.8	5.5	1.8	3350
	220	740	29.5	92.1	0.78	2839	0.8	5.5	1.8	3390
	250	740	33.0	92.2	0.79	3226	0.8	5.5	1.8	3480
	280	740	36.9	92.4	0.79	3614	0.8	5.5	1.8	3600
YLKK450-8	315	740	41.4	92.7	0.79	4065	0.8	5.5	1.8	4270
	355	740	46.6	92.8	0.79	4581	0.8	5.5	1.8	4400
	400	740	51.7	93.0	0.80	5162	0.8	5.5	1.8	4530
	450	740	58.1	93.1	0.80	5807	0.8	5.5	1.8	4630
YLKK500-8	500	740	64.3	93.6	0.80	6453	0.8	5.5	1.8	5800
	560	740	71.8	93.8	0.80	7227	0.8	5.5	1.8	5950
	630	740	78.7	93.9	0.82	8130	0.8	5.5	1.8	6100
	710	740	88.6	94.0	0.82	9163	0.8	5.5	1.8	6250
YLKK560-8	800	740	99.7	94.2	0.82	10324	0.7	6.0	1.8	7150
	900	740	109.3	94.3	0.84	11615	0.7	6.0	1.8	7400
	1000	740	121.4	94.4	0.84	12905	0.7	6.0	1.8	7670
YLKK630-8	1120	740	135.8	94.5	0.84	14454	0.7	6.0	1.8	10100
	1250	740	151.2	94.7	0.84	16132	0.7	6.0	1.8	10350
	1400	740	169.2	94.8	0.84	18068	0.7	6.0	1.8	10530
	1600	740	193.1	94.9	0.84	20649	0.7	6.0	1.8	10700
	1800	740	217.1	95.0	0.84	23230	0.7	6.0	1.8	10850
YLKK400-10	185	590	26.1	90.8	0.75	2994	0.8	5.5	1.8	3480
	200	590	28.2	91.1	0.75	3237	0.8	5.5	1.8	3580
YLKK450-10	220	590	30.9	91.3	0.75	3561	0.8	5.5	1.8	4050
	250	590	35.1	91.5	0.75	4047	0.8	5.5	1.8	4100
	280	590	39.2	91.7	0.75	4532	0.8	5.5	1.8	4150
	315	590	43.3	92.1	0.76	5099	0.8	5.5	1.8	4230
	355	590	48.7	92.3	0.76	5746	0.8	5.5	1.8	4550
YLKK500-10	400	590	54.7	92.6	0.76	6475	0.8	5.5	1.8	5780
	450	590	61.5	92.7	0.76	7284	0.8	5.5	1.8	5920
	500	590	66.3	93.0	0.78	8093	0.8	5.5	1.8	6060
	560	590	74.2	93.1	0.78	9064	0.8	5.5	1.8	6140
	630	590	83.4	93.2	0.78	10197	0.8	5.5	1.8	6260
YLKK560-10	710	590	93.8	93.4	0.78	11492	0.7	6.0	1.8	7210
	800	590	102.7	93.7	0.80	12949	0.7	6.0	1.8	7400
	900	590	115.4	93.8	0.80	14568	0.7	6.0	1.8	7660
YLKK630-10	1000	590	128.1	93.9	0.80	16186	0.7	6.0	1.8	10170
	1120	590	143.2	94.1	0.80	18129	0.7	6.0	1.8	10350
	1250	590	159.3	94.4	0.80	20233	0.7	6.0	1.8	10530
	1400	590	178.2	94.5	0.80	22661	0.7	6.0	1.8	10690
	1600	590	203.4	94.6	0.80	25898	0.7	6.0	1.8	10800
YLKK450-12	185	495	28.0	90.9	0.70	3569	0.8	5.5	1.8	4100
	200	495	30.1	91.2	0.70	3859	0.8	5.5	1.8	4150
	220	495	32.2	91.4	0.72	4244	0.8	5.5	1.8	4230
	250	495	36.4	91.7	0.72	4823	0.8	5.5	1.8	4550
YLKK500-12	280	495	40.7	91.9	0.72	5402	0.8	5.5	1.8	5830
	315	495	45.7	92.1	0.72	6077	0.8	5.5	1.8	5930
	355	495	50.0	92.3	0.74	6849	0.8	5.5	1.8	6060
	400	495	56.2	92.6	0.74	7717	0.8	5.5	1.8	6280
	450	495	63.1	92.7	0.74	8682	0.8	5.5	1.8	6360
YLKK560-12	500	495	69.8	93.1	0.74	9646	0.7	6.0	1.8	7550
	560	495	76.1	93.2	0.76	10804	0.7	6.0	1.8	7710
	630	495	85.5	93.3	0.76	12155	0.7	6.0	1.8	7870
YLKK630-12	710	495	96.2	93.4	0.76	13698	0.7	6.0	1.8	9990
	800	495	108.1	93.7	0.76	15434	0.7	6.0	1.8	10270
	900	495	121.5	93.8	0.76	17364	0.7	6.0	1.8	10510
	1000	495	134.8	93.9	0.76	19293	0.7	6.0	1.8	10710
	1120	495	150.9	94.0	0.76	21608	0.7	6.0	1.8	10900

6KV

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)
YLKK400-4	220	1490	16.7	91.4	0.83	1410	0.7	7.0	1.8	3080
	250	1490	19.0	91.6	0.83	1602	0.7	7.0	1.8	3150
	280	1490	21.2	91.8	0.83	1795	0.7	7.0	1.8	3230
	315	1490	23.8	92.1	0.83	2019	0.7	7.0	1.8	3350
	355	1490	25.8	92.3	0.86	2275	0.7	7.0	1.8	3480
	400	1490	29.0	92.5	0.86	2564	0.7	7.0	1.8	3530
YLKK450-4	450	1490	32.5	92.9	0.86	2884	0.7	7.0	1.8	4350
	500	1490	36.1	93.0	0.86	3205	0.7	7.0	1.8	4420
	560	1490	40.3	93.3	0.86	3589	0.7	7.0	1.8	4570
	630	1490	45.2	93.5	0.86	4038	0.7	7.0	1.8	4620
	710	1490	50.7	94.1	0.86	4551	0.7	7.0	1.8	4870
YLKK500-4	800	1490	56.3	94.3	0.87	5128	0.7	7.0	1.8	5970
	900	1490	63.3	94.4	0.87	5768	0.7	7.0	1.8	6070
	1000	1490	70.2	94.5	0.87	6409	0.7	7.0	1.8	6260
	1120	1490	78.6	94.6	0.87	7179	0.7	7.0	1.8	6420
YLKK560-4	1250	1490	86.6	94.7	0.88	8012	0.7	7.0	1.8	7240
	1400	1490	96.7	95.0	0.88	8973	0.7	7.0	1.8	7490
	1600	1490	110.4	95.1	0.88	10255	0.7	7.0	1.8	7670
	1800	1490	124.1	95.2	0.88	11537	0.7	7.0	1.8	7870
YLKK630-4	2000	1490	137.5	95.4	0.88	12819	0.6	7.0	1.8	10270
	2240	1490	153.9	95.5	0.88	14357	0.6	7.0	1.8	10670
	2500	1490	171.8	95.5	0.88	16023	0.6	7.0	1.8	10980
YLKK400-6	220	990	17.4	91.2	0.80	2122	0.7	6.0	1.8	3330
	250	990	19.7	91.4	0.80	2412	0.7	6.0	1.8	3460
	280	990	22.0	91.7	0.80	2701	0.7	6.0	1.8	3510
YLKK450-6	315	990	24.1	92.0	0.82	3039	0.7	6.0	1.8	4250
	355	990	26.8	92.2	0.83	3424	0.7	6.0	1.8	4370
	400	990	30.1	92.4	0.83	3859	0.7	6.0	1.8	4470
	450	990	33.8	92.6	0.83	4341	0.7	6.0	1.8	4630
	500	990	37.4	93.0	0.83	4823	0.7	6.0	1.8	4810
YLKK500-6	560	990	41.3	93.3	0.84	5402	0.7	6.0	1.8	5780
	630	990	46.3	93.6	0.84	6077	0.7	6.0	1.8	5960
	710	990	52.0	93.8	0.84	6849	0.7	6.0	1.8	6180
	800	990	58.5	94.0	0.84	7717	0.7	6.0	1.8	6320
	900	990	64.9	94.2	0.85	8682	0.7	6.0	1.8	6440
YLKK560-6	1000	990	72.0	94.4	0.85	9646	0.7	6.0	1.8	7350
	1120	990	80.4	94.6	0.85	10804	0.7	6.0	1.8	7500
	1250	990	88.6	94.7	0.86	12058	0.7	6.0	1.8	7730
	1400	990	98.8	95.1	0.86	13505	0.7	6.0	1.8	7880
YLKK630-6	1600	990	112.8	95.2	0.86	15434	0.6	6.0	1.8	10300
	1800	990	126.8	95.3	0.86	17364	0.6	6.0	1.8	10600
	2000	990	140.7	95.4	0.86	19293	0.6	6.0	1.8	10850
	2240	990	157.6	95.4	0.86	21608	0.6	6.0	1.8	11130

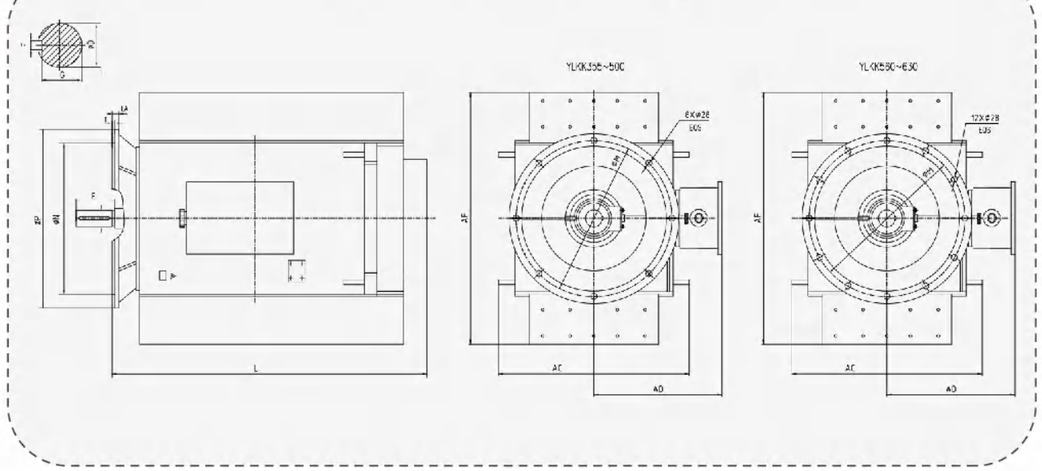
10KV

Technical data (at 50Hz)

Motor Type	Power (kW)	Speed (r/min)	Current (A)	Eff. η%	P.F. cos φ	Torque (N.m)	Tst Tn	Ist In	Tmax Tn	Weight (kg)
YLKK450-8	220	740	18.6	91.1	0.75	2839	0.7	6.0	1.8	4250
	250	740	21.1	91.3	0.75	3226	0.7	6.0	1.8	4370
	280	740	23.2	91.6	0.76	3614	0.7	6.0	1.8	4470
	315	740	25.7	92.0	0.77	4065	0.7	6.0	1.8	4630
YLKK500-8	355	740	28.8	92.4	0.77	4581	0.7	6.0	1.8	5600
	400	740	32.0	92.5	0.78	5162	0.7	6.0	1.8	5780
	450	740	35.9	92.7	0.78	5807	0.7	6.0	1.8	5850
	500	740	39.3	93.1	0.79	6453	0.7	6.0	1.8	5950
	560	740	43.9	93.3	0.79	7227	0.7	6.0	1.8	6060
	630	740	47.3	93.8	0.82	8130	0.7	6.0	1.8	6180
YLKK560-8	710	740	53.2	94.0	0.82	9163	0.7	6.0	1.8	7180
	800	740	59.8	94.2	0.82	10324	0.7	6.0	1.8	7300
	900	740	67.2	94.3	0.82	11615	0.7	6.0	1.8	7480
	1000	740	75.4	94.5	0.81	12905	0.7	6.0	1.8	7730
YLKK630-8	1120	740	82.3	94.7	0.83	14454	0.7	6.0	1.8	10100
	1250	740	91.7	94.8	0.83	16132	0.7	6.0	1.8	10300
	1400	740	102.6	94.9	0.83	18068	0.7	6.0	1.8	10610
	1600	740	117.3	94.9	0.83	20649	0.7	6.0	1.8	10900
YLKK450-10	220	590	19.4	91.0	0.72	3561	0.7	5.5	1.8	4610
YLKK500-10	250	590	22.0	91.2	0.72	4047	0.7	5.5	1.8	5600
	280	590	23.9	91.5	0.74	4532	0.7	5.5	1.8	5750
	315	590	26.8	91.7	0.74	5099	0.7	5.5	1.8	5820
	355	590	29.7	92.1	0.75	5746	0.7	5.5	1.8	5930
	400	590	33.4	92.3	0.75	6475	0.7	5.5	1.8	6020
	450	590	37.0	92.5	0.76	7284	0.7	5.5	1.8	6150
YLKK560-10	500	590	40.4	92.7	0.77	8093	0.7	6.0	1.8	7000
	560	590	44.6	92.9	0.78	9064	0.7	6.0	1.8	7230
	630	590	50.1	93.1	0.78	10197	0.7	6.0	1.8	7400
	710	590	56.3	93.3	0.78	11492	0.7	6.0	1.8	7610
	800	590	63.1	93.8	0.78	12949	0.7	6.0	1.8	7770
YLKK630-10	900	590	69.1	94.0	0.80	14568	0.7	6.0	1.8	10310
	1000	590	76.7	94.1	0.80	16186	0.7	6.0	1.8	10500
	1120	590	85.8	94.2	0.80	18129	0.7	6.0	1.8	10730
	1250	590	95.8	94.2	0.80	20233	0.7	6.0	1.8	10840
	1400	590	107.1	94.3	0.80	22661	0.7	6.0	1.8	11000
YLKK500-12	220	495	19.4	90.9	0.72	4244	0.7	5.5	1.8	5800
	250	495	22.0	91.1	0.72	4823	0.7	5.5	1.8	5920
	280	495	24.6	91.3	0.72	5402	0.7	5.5	1.8	6020
	315	495	27.6	91.5	0.72	6077	0.7	5.5	1.8	6160
YLKK560-12	355	495	31.0	91.8	0.72	6849	0.7	6.0	1.8	7000
	400	495	34.4	92.0	0.73	7717	0.7	6.0	1.8	7150
	450	495	38.6	92.2	0.73	8682	0.7	6.0	1.8	7410
	500	495	42.8	92.5	0.73	9646	0.7	6.0	1.8	7620
	560	495	47.0	92.9	0.74	10804	0.7	6.0	1.8	7830
YLKK630-12	630	495	52.8	93.1	0.74	12155	0.7	6.0	1.8	10250
	710	495	59.4	93.3	0.74	13698	0.7	6.0	1.8	10470
	800	495	66.5	93.8	0.74	15434	0.7	6.0	1.8	10700
	900	495	74.9	93.8	0.74	17364	0.7	6.0	1.8	10830
	1000	495	83.2	93.8	0.74	19293	0.7	6.0	1.8	11000

10kV

355~630



Frame size	pole	D	E	F	G	M	N	P	LA	T	L	AF	AD	AC
355	4、6	100	210	28	90	940	880	1000	30	6	2350	1550	750	1100
400	4、6、8、10	110	210	28	100	1080	1000	1150	30	6	2550	1750	800	1200
450	4	120	210	32	109	1180	1120	1250	33	6	2800	2050	850	1350
	6、8、10、12	130	250	32	119	1180	1120	1250	33	6	2800	2050	850	1350
500	4	130	250	32	119	1320	1250	1400	35	8	2950	2200	900	1500
	6、8、10、12	140	250	36	128	1320	1250	1400	35	8	2950	2200	900	1500
560	4	150	250	36	138	1500	1400	1600	42	8	3200	2350	1000	1550
	6、8、10、12	160	300	40	147	1500	1400	1600	42	8	3200	2350	1000	1550
630	4	170	300	40	157	1700	1600	1800	45	8	3500	2600	1100	1700
	6、8、10、12	180	300	45	165	1700	1600	1800	45	8	3500	2600	1100	1700
400	4、6	110	210	28	100	1080	1000	1150	30	6	2550	1750	900	1200
450	4	110	210	28	100	1180	1120	1250	33	6	2800	2050	950	1350
	6、8、10	110	210	28	100	1180	1120	1250	33	6	2800	2050	950	1350
500	4	130	210	32	119	1320	1250	1400	35	8	2950	2200	1000	1500
	6、8、10、12	130	250	32	119	1320	1250	1400	35	8	2950	2200	1000	1500
560	4	150	250	36	138	1500	1400	1600	42	8	3200	2350	1100	1550
	6、8、10、12	160	300	40	147	1500	1400	1600	42	8	3200	2350	1100	1550
630	4	170	300	40	157	1700	1600	1800	45	8	3500	2600	1200	1700
	6、8、10、12	180	300	45	165	1700	1600	1800	45	8	3500	2600	1200	1700

6kV
10kV

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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BEYOND ROTATION

ENGINEERED FOR EFFICIENCY