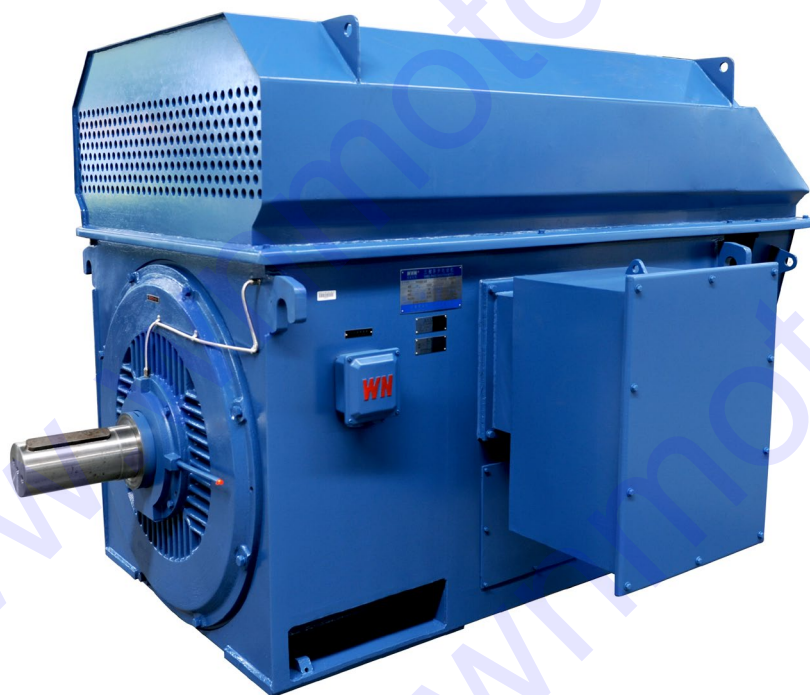


Y .YKS. YKK series

H355-630 medium size high voltage three-phase asynchronous motors



Y Series



YKK Series



YKS Series

1. General description

Y、YKS、YKK Series, medium size high voltage three-phase asynchronous motors (Frame No.355-630) mounting dimensions and tolerance are coincident with China standard GB755 《Rotating Electrical Machines-Rating and Performance》, International Electrical committee standard IEC34-1 《Rotating Electrical Machines-Rating and Performance》 and machinery-profession standards JB/T7593 JB/T10315.1 etc.

The grade of protection for outer cover is in accordance with GB4942 and IEC34-5 《Rotating electrical machines- enclosure ingress protection》 standard, there are four grades IP23, IPW24, IP44 and IP54. The IP23 grade can update to IP44(Tube Ventilation) according to the customer's request. Also provide other protective grade specially.

The cooling method is according to the GB/T1993 and IEC34-6 standard 《Cooling method of Rotating Electrical Machines》. There are three kinds of cooling method IC01、IC611 and IC81W. Also we can provide other cooling method according to the customer request.

The structure and mounting model is IMB3 (horizontal foot mounted) is in accordance with GB997 and IEC34-7 《Classification of types of construction and mounting arrangements for rotating electrical machines》 (IM code) standards.

2. Structure specification

The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity .

Stator is a outer-press-assembly structure, the stator winding is a F grade insulation, at the winding's end part being firm banded.

The whole stator has been treated with VPI technology to make stator with a robust body and good electrical and moisture resistance.

The rotor can be developed into two modes casting aluminum and copper bar mode. Casting aluminum rotor is casted with pure aluminum. Copper-bar rotor is made by copper bars wedges in the slots, then at the bar's each end to be soldered with a end-ring by reliable soldering technology. At the end of process, it must be immersed in lacquer once to strengthen the integration.

Either rolling or sleeve bearing may be adopted, the protection grade of bearing is IP54. For the rolling bearings mode, the rolling bearing must be lubricated with grease, and the motor must have oil-inlet and oil-exhaust devices, motor can also be non-stop oil injection. For the sleeve bearing mode, the oil supply system for the bearing must be prepared by customers. But the efficiency for sleeve bearing motor will be permitted a little decrease with respect of the technical data table and that is permissible in according with the relative stipulates of the standard issued by Ministry of Machine Building.

The main terminal box is designed by Germany DIN standard. The grade of protection is IP54. The terminal box for standard motor is located at the right side (Viewed from axle extension). Also can be mounted at left side according customer's requirement. The outlet hole of terminal box can face up, down, right and left four directions. There is a independent grounded device in the main terminal box.

Normally the motors axle is single extension mode, the key is a planar key mode. We also can provide double shaft extension mode according customer's requirement.

We can install temperature measurements in stator and bearings. And install inner space heaters for moisture protecting during stoppage.

3.The Implication of the symbol

By GB4831 stipulation, the motor's type is composed of product symbol and specification symbol in sequence.

The product symbol is demons treated by motor series symbols, its implication is as following:

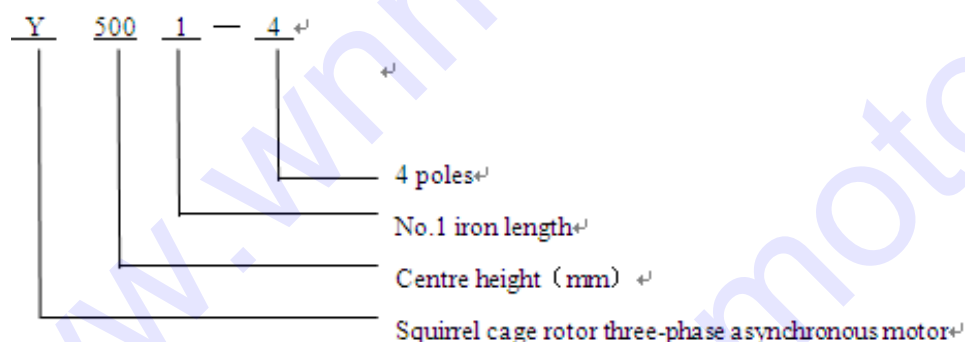
Y-----squirrel-cage rotor three-phase asynchronous motor.

YKS-----Enclosed squirrel-cage rotor three-phase asynchronous motor with air-water cooler

YKK----- Enclosed squirrel-cage rotor three-phase asynchronous motor with air-air cooler

The specification symbol is composed of centre height, iron-core length number and number of poles.

Example:



4. Details

Y series:

- Frame sizes: 355-630
- Insulation class: F
- Enclosure: IC01
- Rotor: Squirrel cage
- Voltage: 6kV, 10Kv
- Rated output: 185-3150kW
- Degree of protection: IP23 /IP44/IP54
- Mounting: Horizontal
- Bearing: Rolling bearing or sleeve bearing

Features: High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade

insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, ball mill and etc.

YKK series:

- | | |
|------------------------|--|
| • Frame sizes: 355-630 | Rated output: 185-2500kW |
| • Insulation class: F | Degree of protection: IP54 /IP55 |
| • Enclosure: IC611 | Mounting: Horizontal |
| • Rotor: Squirrel cage | Bearing: Rolling bearing or sleeve bearing |
| • Voltage: 6kV, 10kV | |

Features: This motor can be processed by the anticorrosion anti-mould-proof process to derive outdoor (W) and outdoor corrosion protection (WF) motors. High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, crusher and etc.

YKS series:

- | | |
|------------------------|--|
| • Frame sizes: 355-630 | Rated output: 185-31500kW |
| • Insulation class: F | Degree of protection: IP54 /IP55 |
| • Enclosure: IC81W | Mounting: Horizontal |
| • Rotor: Squirrel cage | Bearing: Rolling bearing or sleeve bearing |
| • Voltage: 6kV, 10kV | |

Features: High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, ball mill and etc.

Performance Data

Y(IP23) , YKS(IP54)series motor model composition (6kV)

Frame		Synchronous rotation speed r/min					
		3000	1500	1000	750	600	500
		Output kW					
355	1	220	—	—	—	—	—
	2	250					
	3	280	220				
	4	315	250				
	5	355	280	220			
	6	400	315	250			
400	1	450	355	—	220	250	280
	2	500	400	280			
	3	560	450	315			
	4	630	500	355			
	5	—	560	400			
450	1	710	630	450	315	220	220
	2	800	710	500	355	250	
	3	900	800	560	400	280	
	4	1000	900	630	450	315	
	5	—	—	—	—	355	
500	1	1120	1000	710	500	400	280
	2	1250	1120	800	560	450	315
	3	1400	1250	900	630	500	355
	4	1600	1400	1000	710	560	400
	5	—	—	—	—	630	450
560	1	1800	1600	1120	800	710	500
	2	2000	1800	1250	900	800	560
	3	2240	2000	1400	1000	900	630
630	1	2500	2240	1600	1120	1000	710
	2	2800	2500	1800	1250	1120	800
	3	3150	2800	2000	1400	1250	900
	4	—	—	—	1600	1400	1000

YKK(IP44、IP54)series motor model composition (6kV)

Frame		Synchronous rotation speed r/min					
		3000	1500	1000	750	600	500
		Output kW					
355	1	220	185	—	—	—	—
	2	250	200				
	3	280	220				
	4	315	250				
400	1	—	—	185	—	—	—
	2	355	280	200			
	3	400	315	220			
	4	450	355	250			
	5	500	400	280			
	6	—	450	315			
450	1	—	—	—	—	185	—
	2	560	500	355	250	200	
	3	630	560	400	280	220	
	4	710	630	450	315	250	
	5	800	710	500	355	280	
500	1	900	800	560	400	315	220
	2	1000	900	630	450	355	250
	3	1120	1000	710	500	400	280
	4	1250	1120	800	560	450	315
560	1	1400	1250	900	630	500	355
	2	1600	1400	1000	710	560	400
	3	1800	1600	1120	800	630	450
	4	—	—	—	—	710	500
630	1	2000	1800	1250	900	800	560
	2	2240	2000	1400	100	900	630
	3	2500	2240	1600	1120	1000	710
	4	—	—	—	1250	1120	800

Y(IP23), YKS(IP54) series motor model composition (10kV)

Frame		Synchronous rotation speed r/min					
		3000	1500	1000	750	600	500
		Output kW					
450	1	355	355	—	—	—	—
	2	400	400				
	3	450	450	315			
	4	500	500	355			
	5	560	560	400			
	6	630	630	450			
500	1	710	710	500	315	—	—
	2	800	800	560	355		
	3	900	900	630	400		
	4	1000	1000	710	450		
	5	1120	1120	800	500		
	6	—	—	—	560		
560	1	1250	1250	900	630	450	315
	2	1400	1400	1000	710	500	355
	3	1600	1600	1120	800	560	400
	4	—	—	1250	900	630	450
	5	—	—	—	—	710	500
630	1	1800	1800	1400	1000	800	560
	2	2000	2000	1600	1120	900	630
	3	2240	2240	1800	1250	1000	710
	4	—	—	—	—	1120	800

YKK(IP44、IP54)series motor model composition (10kV)

Frame		Synchronous rotation speed r/min					
		3000	1500	1000	750	600	500
		Output kW					
450	1	—	250	—	—	—	—
	2	250	280	—			
	3	280	315	220			
	4	315	355	250			
	5	355	400	280			
	6	400	450	315			
	7	450	500	355			
	8	500	560	400			
500	1	—	—	—	250	—	—
	2	560	560	400	280	—	
	3	630	630	450	315	220	
	4	710	710	500	355	250	
	5	800	800	560	400	280	
	6	900	900	630	450	315	
560	1	—	—	—	—	355	250
	2	—	—	710	500	400	280
	3	1000	1000	800	560	450	315
	4	1120	1120	900	630	500	355
	5	1250	1250	1000	710	560	400
630	1	—	—	—	—	630	450
	2	1400	1400	1120	800	710	500
	3	1600	1600	1250	900	800	560
	4	1800	1800	1400	1000	900	630

Y(IP23) , YKS(IP54) series technical data (6kV)

Type	Output kW	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	Tm Tn	Tst Tn	Ist In	Rotational inertia		Weight (kg)	
									Motor Jm (kg.m ²)	Load J (kg.m ²)	Y	YKS
Y3551-2	220	26.5	2990	92.8	0.86	1.8	0.6	7	2.2	16	1850	2100
Y3552-2	250	30.1	2990	92.9	0.86	1.8	0.6	7	2.4	18	1870	2120
Y3553-2	280	33.7	2990	93.1	0.86	1.8	0.6	7	2.6	20	1890	2140
Y3554-2	315	37.7	2990	93.4	0.86	1.8	0.6	7	2.8	22	1920	2170
Y3555-2	355	42.4	2990	93.7	0.86	1.8	0.6	7	3.0	24	1980	2230
Y3556-2	400	47.6	2990	94.1	0.86	1.8	0.6	7	3.2	27	2030	2280
Y4001-2	450	53.3	2990	94.4	0.86	1.8	0.6	7	4.8	30	2340	2620
Y4002-2	500	58.5	2990	94.6	0.87	1.8	0.6	7	5.2	33	2420	2700
Y4003-2	560	64.5	2990	94.7	0.87	1.8	0.6	7	5.6	36	2510	2790
Y4004-2	630	73.4	2990	94.9	0.87	1.8	0.6	7	6.0	39	2640	2920
Y4501-2	710	82.7	2990	95.0	0.87	1.8	0.6	7	7.4	43	3410	4060
Y4502-2	800	92.9	2990	95.2	0.87	1.8	0.6	7	7.8	51	3460	4110
Y4503-2	900	104.5	2990	95.3	0.87	1.8	0.6	7	8.2	55	3510	4160
Y4504-2	1000	114.6	2990	95.4	0.88	1.8	0.6	7	8.6	57	3590	4240
Y5001-2	1120	128.2	2990	95.5	0.88	1.8	0.6	7	10.2	58	4590	5290
Y5002-2	1250	143.0	2990	95.6	0.88	1.8	0.6	7	10.8	67	4650	5350
Y5003-2	1400	160.0	2990	95.7	0.88	1.8	0.6	7	11.2	73	4730	5430
Y5004-2	1600	182.6	2990	95.8	0.88	1.8	0.6	7	11.8	80	4820	5520
Y5601-2	1800	205.2	2990	95.9	0.88	1.8	0.6	7	20.0	100.0	7900	8650
Y5602-2	2000	227.8	2990	96.0	0.88	1.8	0.6	7	23.0	102.0	8150	8900
Y5603-2	2240	254.9	2990	96.1	0.88	1.8	0.6	7	26.0	104.0	8400	9150
Y6301-2	2500	281.0	2990	96.2	0.89	1.8	0.6	7	35.0	110.0	9150	9950
Y6302-2	2800	314.4	2990	96.3	0.89	1.8	0.6	7	40.0	115.0	9550	10350
Y6303-2	3150	353.7	2990	96.3	0.89	1.8	0.6	7	45.0	120.0	9950	10750
Y3553-4	220	26.7	1490	93.3	0.85	1.8	0.8	6.5	3.0	78	1720	2080
Y3554-4	250	30.3	1490	93.4	0.85	1.8	0.8	6.5	4.0	88	1760	2120
Y3555-4	280	33.5	1490	93.5	0.86	1.8	0.8	6.5	4.0	97	1800	2160
Y3556-4	315	37.7	1490	93.6	0.86	1.8	0.8	6.5	4.0	108	1860	2220
Y4001-4	355	42.3	1490	93.8	0.86	1.8	0.8	6.5	6.0	120	2280	2740
Y4002-4	400	47.6	1490	94.0	0.86	1.8	0.8	6.5	6.0	133	2350	2810
Y4003-4	450	53.5	1490	94.2	0.86	1.8	0.8	6.5	7.0	147	2430	2890
Y4004-4	500	58.6	1490	94.3	0.87	1.8	0.8	6.5	7.0	161	2520	2980
Y4005-4	560	65.5	1490	94.5	0.87	1.8	0.8	6.5	8.0	178	2610	3070
Y4501-4	630	73.5	1490	94.8	0.87	1.8	0.8	6.5	11	197	3170	3700
Y4502-4	710	82.7	1490	95.0	0.87	1.8	0.8	6.5	12	218	3250	3780
Y4503-4	800	93.0	1490	95.1	0.87	1.8	0.8	6.5	13	241	3370	3900
Y4504-4	900	104.6	1490	95.2	0.87	1.8	0.8	6.5	14	266	3590	4120
Y5001-4	1000	116.1	1490	95.3	0.87	1.8	0.7	6.5	24	290	4150	4790
Y5002-4	1120	128.4	1490	95.4	0.88	1.8	0.7	6.5	26	318	4300	4940
Y5003-4	1250	143.1	1490	95.5	0.88	1.8	0.7	6.5	30	347	4600	5240
Y5004-4	1400	160.1	1490	95.6	0.88	1.8	0.7	6.5	32	380	4770	5410
Y5601-4	1600	180.8	1490	95.7	0.89	1.8	0.6	6.5	57	420	6350	6990
Y5602-4	1800	203.2	1490	95.8	0.89	1.8	0.6	6.5	60	460	6580	7220
Y5603-4	2000	225.5	1490	95.9	0.89	1.8	0.6	6.5	66	498	6750	7390

Y(IP23) , YKS(IP54) series technical data (6kV)

Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (kg)	
									Motor Jm (kg.m ²)	Load J (kg.m ²)	Y	YKS
Y6301-4	2240	252.3	1490	96.0	0.89	1.8	0.6	6.5	102	540	8760	9270
Y6302-4	2500	281.3	1490	96.1	0.89	1.8	0.6	6.5	112	584	9170	9680
Y6303-4	2800	314.7	1490	96.2	0.89	1.8	0.6	6.5	119	631	9390	9900
Y3555-6	220	27.8	990	93.0	0.82	1.8	0.8	6	6.0	210	1850	2210
Y3556-6	250	31.4	990	93.3	0.82	1.8	0.8	6	7.0	236	1910	2280
Y4002-6	280	34.7	990	93.5	0.83	1.8	0.8	6	10	262	2300	2750
Y4003-6	315	39.0	990	93.7	0.83	1.8	0.8	6	11	291	2360	2820
Y4004-6	355	43.8	990	93.9	0.83	1.8	0.8	6	11	324	2440	2900
Y4005-6	400	49.3	990	94.0	0.83	1.8	0.8	6	12	361	2530	2980
Y4501-6	450	54.7	990	94.1	0.84	1.8	0.8	6	15	401	3130	3660
Y4502-6	500	59.9	990	94.5	0.85	1.8	0.8	6	16	440	3210	3740
Y4503-6	560	66.9	990	94.7	0.85	1.8	0.8	6	17	487	3310	3840
Y4504-6	630	75.2	990	94.8	0.85	1.8	0.8	6	20	540	3540	4070
Y5001-6	710	84.6	990	95.0	0.85	1.8	0.7	6	32	599	4070	4710
Y5002-6	800	95.2	990	95.1	0.85	1.8	0.7	6	34	665	4210	4850
Y5003-6	900	107.0	990	95.2	0.85	1.8	0.7	6	40	736	4500	5140
Y5004-6	1000	118.8	990	95.3	0.85	1.8	0.7	6	47	805	4630	5270
Y5601-6	1120	131.4	990	95.4	0.86	1.8	0.7	6.5	70	886	6100	6740
Y5602-6	1250	146.5	990	95.5	0.86	1.8	0.7	6.5	75	972	6400	7030
Y5603-6	1400	163.9	990	95.6	0.86	1.8	0.7	6.5	82	1068	6530	7170
Y6301-6	1600	187.1	990	95.7	0.86	1.8	0.7	6.5	147	1192	8490	9000
Y6302-6	1800	210.2	990	95.8	0.86	1.8	0.7	6.5	162	1312	8930	9440
Y6303-6	2000	233.4	990	95.9	0.86	1.8	0.7	6.5	173	1428	9140	9650
Y4003-8	220	29.2	740	92.9	0.78	1.8	0.8	5.5	11	424	2430	2880
Y4004-8	250	32.7	740	93.0	0.79	1.8	0.8	5.5	12	477	2500	2950
Y4005-8	280	36.6	740	93.2	0.79	1.8	0.8	5.5	13	529	2590	3050
Y4501-8	315	40.6	740	93.4	0.80	1.8	0.8	5.5	16	588	3200	3730
Y4502-8	355	45.7	740	93.5	0.80	1.8	0.8	5.5	17	656	3280	3810
Y4503-8	400	51.3	740	93.7	0.80	1.8	0.8	5.5	18	731	3400	3940
Y4504-8	450	57.0	740	93.8	0.81	1.8	0.8	5.5	19	813	3510	4050
Y5001-8	500	63.0	740	94.3	0.81	1.8	0.8	5.5	30	894	3930	4560
Y5002-8	560	69.6	740	94.4	0.82	1.8	0.8	5.5	34	989	4170	4800
Y5003-8	630	78.2	740	94.5	0.82	1.8	0.8	5.5	38	1099	4340	4980
Y5004-8	710	88.1	740	94.6	0.82	1.8	0.8	5.5	42	1222	4600	5240
Y5601-8	800	96.8	740	94.7	0.84	1.8	0.7	6	87	1357	5910	6550
Y5602-8	900	108.8	740	94.8	0.84	1.8	0.7	6	92	1505	6100	6740
Y5603-8	1000	120.7	740	94.9	0.84	1.8	0.7	6	102	1650	6390	7030
Y6301-8	1120	135.1	740	95.0	0.84	1.8	0.7	6	137	1820	8230	8740
Y6302-8	1250	150.6	740	95.1	0.84	1.8	0.7	6	151	2001	8490	9000
Y6303-8	1400	168.5	740	95.2	0.84	1.8	0.7	6	160	2204	8820	9330
Y6304-8	1600	192.3	740	95.3	0.84	1.8	0.7	6	168	2468	9020	9530

Y(IP23) , YKS(IP54) series technical data (6kV)

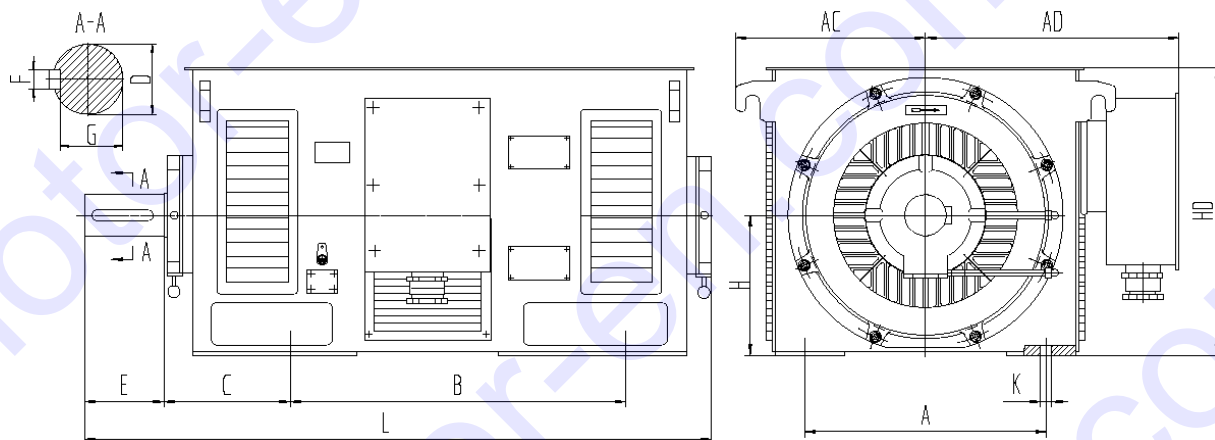
Type	Output (kW)	stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (Kg)	
									Motor Jm (kg.m ²)	Load J (kg.m ²)	Y	YKS
Y4501-10	220	29.9	590	92.1	0.77	1.8	0.8	5.5	19	729	3020	3550
Y4502-10	250	33.4	590	92.3	0.78	1.8	0.8	5.5	20	820	3100	3630
Y4503-10	280	37.3	590	92.5	0.78	1.8	0.8	5.5	22	910	3190	3720
Y4504-10	315	41.4	590	92.6	0.79	1.8	0.8	5.5	24	1014	3290	3830
Y4505-10	355	46.6	590	92.8	0.79	1.8	0.8	5.5	25	1131	3390	3920
Y5001-10	400	51.6	590	93.3	0.80	1.8	0.8	5.5	36	1261	3880	4510
Y5002-10	450	58.0	590	93.4	0.80	1.8	0.8	5.5	38	1404	3980	4620
Y5003-10	500	64.3	590	93.6	0.80	1.8	0.8	5.5	42	1544	4120	4760
Y5004-10	560	71.9	590	93.7	0.80	1.8	0.8	5.5	45	1711	4260	4890
Y5005-10	630	80.8	590	93.8	0.80	1.8	0.8	5.5	52	1902	4580	5220
Y5601-10	710	88.6	590	94.0	0.82	1.8	0.7	6	79	2116	5840	6580
Y5602-10	800	99.7	590	94.2	0.82	1.8	0.7	6	88	2355	6010	6750
Y5603-10	900	112.0	590	94.3	0.82	1.8	0.7	6	93	2615	6170	7810
Y6301-10	1000	124.3	590	94.4	0.82	1.8	0.7	6	140	2870	7830	8340
Y6302-10	1120	138.9	590	94.6	0.82	1.8	0.7	6	152	3170	8120	8630
Y6303-10	1250	154.7	590	94.8	0.82	1.8	0.7	6	167	3489	8430	8940
Y6304-10	1400	173.1	590	94.9	0.82	1.8	0.7	6	175	3850	8630	9140
Y4504-12	220	31.7	490	91.4	0.73	1.8	0.8	5.5	24	1135	3280	3910
Y4505-12	250	35.9	490	91.7	0.73	1.8	0.8	5.5	26	1277	3390	3920
Y5001-12	280	39.3	490	92.7	0.74	1.8	0.8	5.5	40	1418	3900	4540
Y5002-12	315	43.6	490	92.8	0.75	1.8	0.8	5.5	42	1580	3990	4630
Y5003-12	355	49.0	490	93.0	0.75	1.8	0.8	5.5	43	1764	4030	4660
Y5004-12	400	55.0	490	93.3	0.75	1.8	0.8	5.5	47	1967	4180	4820
Y5005-12	450	61.8	490	93.4	0.75	1.8	0.8	5.5	50	2191	4340	4980
Y5601-12	500	65.0	490	93.7	0.79	1.8	0.7	6	103	2411	5660	6330
Y5632-12	560	72.7	490	93.8	0.79	1.8	0.7	6	114	2673	5850	6490
Y5603-12	630	81.7	490	93.9	0.79	1.8	0.7	6	127	2974	6050	6690
Y6301-12	710	92.0	490	94.0	0.79	1.8	0.7	6	191	3312	7620	8130
Y6302-12	800	103.4	490	94.2	0.79	1.8	0.7	6	208	3688	7910	8420
Y6303-12	900	116.3	490	94.3	0.79	1.8	0.7	6	227	4098	8220	8730
Y6304-12	1000	129.0	490	94.4	0.79	1.8	0.7	6	239	4502	8410	9920

Note: These property data shown in table which in correspondence with these guaranteed values are shown in the additive table.

Dimensions

mm

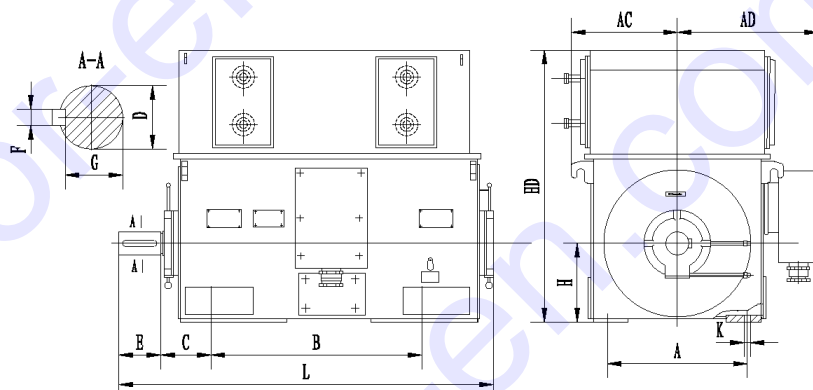
Y series (IP23) medium type asynchronous motor overall and mounting dimensions figure (6kV)



F R A M E	P O L E S	Mounting dimensions and tolerances																		Boundary dimensions									
		mm																		mm									
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L						
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation										
355	2	630	± 1.4	900	± 1.4	315		80	+0.030 +0.011	170	± 0.50	22		71		355		28	+ 0.52 0	505	760	750	1640						
	4、6							100				210		± 0.57									28	0 - 0.052	90	1680			
400	2	710		1000		375		90	+0.035 +0.013		170	± 0.50	25		81		400				555	810	850	1850					
	4~8					335		110							28									100	1860				
450	2	800	± 1.75	1120	± 1.75	400		100		210		28		90	0 - 0.2	450		35				595	850	950	2090				
	4					355		120						32											109	2120			
	6~12							130				+0.040 +0.015		250											32	0 - 0.062	119		
								110				+0.035 +0.013		210											28	0 - 0.052	100		
500	2	900		1250		560	± 4.0	110		± 0.50		28		100	0 - 1.0	500		42				670	910	1050	2320				
	4					475		130						32												119	2280		
	6~12							140						250											36		128	0 - 0.3	
560	2	1000	± 2.1	1400	± 2.1	560		130	+0.040 +0.015	250		32	0 - 0.062	119	0 - 0.2	560						800	1200	1200	2750				
	4					500		150						36												138	2600		
	6~12							160						300											± 0.65	40		147	0 - 0.3
630	2	1120		1600		560		140		250	± 0.57	36		128		630		48				860	1250	1350	2900				
	4					530		170						300											± 0.65	40		157	2750
	6~12							180																		45		165	

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

YKS series(IP54) medium type asynchronous motor overall and mounting dimensions figure (6kV)



F R A M E	P O L E	Mounting dimensions and tolerances																		Boundary dimensions				
		mm																		mm				
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L	
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation					
355	2	630	± 1.4	900	± 1.4	315		80	+0.030 +0.011	170	± 0.5 0	22	0 - 0.052	71		355		28	+ 0.52 0	505	760	1250	1640	
	4、6							100		210	± 0.5 7	28		90									1680	
400	2	710		1000		375		90	+0.035 +0.013	170	± 0.5 0	25		81	0 - 0.2	400				555	810	1400	1850	
	4~8									28	100	1860												
450	2	800	± 1.75	1120	± 1.75	400		100		210		28	0 - 0.062	90	0 - 0.2	450		35		595	850	1500	2090	
	4									32		109		2120										
	6~12							130		+0.040 +0.015		250		32									119	
500	2	900		1250		560	± 4.0	110	+0.035 +0.013	210	± 0.5 0	28	0 - 0.052	100	0 - 1.0	500	- 1.0		+ 0.62 0	600	910	1950	2320	
	4								32	119														
	6~12							140		36	128	0 - 0.3												
560	2	1000	± 2.1	1400	± 2.1	560		130		250		32	0 - 0.062	119	0 - 0.2	560				800	1200	2150	2750	
	4							150		+0.040 +0.015				36	138									
	6~12							160				300		± 0.6 5	40								147	
630	2	1120		1600		560		140		250	± 0.5 7	36	0 - 0.3	128	0 - 0.3	630		48		860	1250	2350	2900	
	4							170			300	± 0.6 5		40									157	
	6~12							180						45									165	

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

YKK(IP44)、(IP54) series technical data (6kV)

Type	Output t (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	Tm Tn	Tst Tn	Ist In	Rotational inertia		Weight (Kg)
									Motor Jm (kg.m ²)	Load J (kg.m ²)	
YKK3551-2	220	26.9	2990	92.5	0.85	1.8	0.6	7	2.6	20	1990
YKK3552-2	250	30.6	2990	92.6	0.85	1.8	0.6	7	2.8	22	2040
YKK3553-2	280	34.2	2990	92.8	0.85	1.8	0.6	7	3.0	24	2080
YKK3554-2	315	38.3	2990	93.1	0.85	1.8	0.6	7	3.2	27	2170
YKK4002-2	355	42.5	2990	93.4	0.86	1.8	0.6	7	4.8	30	2540
YKK4003-2	400	47.8	2990	93.7	0.86	1.8	0.6	7	5.2	33	2630
YKK4004-2	450	53.6	2990	94.0	0.86	1.8	0.6	7	5.6	36	2730
YKK4005-2	500	59.4	2990	94.2	0.86	1.8	0.6	7	6.0	39	2860
YKK4502-2	560	66.4	2990	94.4	0.86	1.8	0.6	7	7.4	43	3420
YKK4503-2	630	73.7	2990	94.6	0.87	1.8	0.6	7	7.8	51	3480
YKK4504-2	710	82.9	2990	94.7	0.87	1.8	0.6	7	8.2	55	3620
YKK4505-2	800	93.3	2990	94.8	0.87	1.8	0.6	7	8.6	57	3750
YKK5001-2	900	104.8	2990	95.0	0.87	1.8	0.6	7	10.2	58	4320
YKK5002-2	1000	116.3	2990	95.1	0.87	1.8	0.6	7	10.8	67	4440
YKK5003-2	1120	130.1	2990	95.2	0.87	1.8	0.6	7	11.2	73	4570
YKK5004-2	1250	145.1	2990	95.3	0.87	1.8	0.6	7	11.8	80	4710
YKK5601-2	1400	160.5	2990	95.4	0.88	1.8	0.6	7	20.0	100.0	5890
YKK5602-2	1600	183.2	2990	95.5	0.88	1.8	0.6	7	23.0	102.0	6100
YKK5603-2	1800	205.9	2990	95.6	0.88	1.8	0.6	7	26.0	104.0	6300
YKK6301-2	2000	228.5	2900	95.7	0.88	1.8	0.6	7	35.0	110.0	8600
YKK6302-2	2240	255.7	2990	95.8	0.88	1.8	0.6	7	40.0	115.0	9100
YKK6303-2	2500	285.1	2990	95.9	0.88	1.8	0.6	7	45.0	120.0	9450
YKK3551-4	185	22.6	1490	92.8	0.85	1.8	0.7	6.5	3	78	1880
YKK3552-4	200	24.4	1490	92.9	0.85	1.8	0.7	6.5	3	78	1910
YKK3553-4	220	26.8	1490	93.0	0.85	1.8	0.7	6.5	4	88	1950
YKK3554-4	250	30.4	1490	93.1	0.85	1.8	0.7	6.5	4	97	1990
YKK4002-4	280	33.6	1490	93.2	0.86	1.8	0.7	6.5	6	108	2430
YKK4003-4	315	37.8	1490	93.3	0.86	1.8	0.7	6.5	6	120	2490
YKK4004-4	355	42.5	1490	93.5	0.86	1.8	0.7	6.5	6	133	2560
YKK4005-4	400	47.8	1490	93.7	0.86	1.8	0.7	6.5	7	147	2680
YKK4006-4	450	53.6	1490	93.9	0.86	1.8	0.7	6.5	7	161	2770
YKK4502-4	500	59.5	1490	94.0	0.86	1.8	0.7	6.5	10	178	3370
YKK4503-4	560	66.5	1490	94.2	0.86	1.8	0.7	6.5	11	197	3450
YKK4504-4	630	74.7	1490	94.4	0.86	1.8	0.7	6.5	12	218	3570
YKK4505-4	710	84.0	1490	94.6	0.86	1.8	0.7	6.5	13	241	3690
YKK5001-4	800	93.3	1490	94.8	0.87	1.8	0.7	6.5	22	266	4380
YKK5002-4	900	104.9	1490	94.9	0.87	1.8	0.7	6.5	24	290	4520
YKK5003-4	1000	116.4	1490	95.0	0.87	1.8	0.7	6.5	26	318	4710
YKK5004-4	1120	130.3	1490	95.1	0.87	1.8	0.7	6.5	30	347	5010

YKK(IP44)、(IP54) series technical data (6kV)

Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (kg)
									Motor Jm (kg.m ²)	Load J (kg.m ²)	
YKK5601-4	1250	143.6	1490	95.2	0.88	1.8	0.6	6.5	51	379	6570
YKK5602-4	1400	160.6	1490	95.3	0.88	1.8	0.6	6.5	57	420	6800
YKK5603-4	1600	183.4	1490	95.4	0.88	1.8	0.6	6.5	60	460	7030
YKK6301-4	1800	206.1	1490	95.5	0.88	1.8	0.6	6.5	96	498	9150
YKK6302-4	2000	228.8	1490	95.6	0.88	1.8	0.6	6.5	102	540	9550
YKK6303-4	2240	255.9	1490	95.7	0.88	1.8	0.6	6.5	112	584	9960
YKK4001-6	185	23.5	990	92.4	0.82	1.8	0.7	6	8	193	2320
YKK4002-6	200	25.3	990	92.6	0.82	1.8	0.7	6	9	210	2390
YKK4003-6	220	27.8	990	92.8	0.82	1.8	0.7	6	9	236	2430
YKK4004-6	250	31.5	990	93.0	0.82	1.8	0.7	6	10	262	2540
YKK4005-6	280	35.2	990	93.3	0.82	1.8	0.7	6	11	291	2610
YKK4006-6	315	39.5	990	93.5	0.82	1.8	0.7	6	11	324	2690
YKK4502-6	355	43.9	990	93.7	0.83	1.8	0.7	6	14	361	3320
YKK4503-6	400	49.4	990	93.8	0.83	1.8	0.7	6	15	401	3410
YKK4504-6	450	55.4	990	94.1	0.83	1.8	0.7	6	16	440	3540
YKK4505-6	500	61.5	990	94.3	0.83	1.8	0.7	6	17	487	3630
YKK5001-6	560	68.0	990	94.4	0.84	1.8	0.7	6	27	540	4280
YKK5002-6	630	76.4	990	94.5	0.84	1.8	0.7	6	32	599	4410
YKK5003-6	710	85.8	990	94.8	0.84	1.8	0.7	6	34	665	4590
YKK5004-6	800	96.6	990	94.9	0.84	1.8	0.7	6	40	736	4800
YKK5601-6	900	107.3	990	95.0	0.85	1.8	0.7	6.5	64	805	6420
YKK5602-6	1000	119.0	990	95.1	0.85	1.8	0.7	6.5	70	886	6650
YKK5603-6	1120	133.2	990	95.2	0.85	1.8	0.7	6.5	75	927	6950
YKK6301-6	1250	146.8	990	95.3	0.86	1.8	0.7	6.5	139	1068	9060
YKK6302-6	1400	164.2	990	95.4	0.86	1.8	0.7	6.5	147	1192	9280
YKK6303-6	1600	187.5	990	95.5	0.86	1.8	0.7	6.5	162	1312	9930
YKK4004-8	185	24.7	740	92.5	0.78	1.8	0.8	5.5	11	406	2640
YKK4005-8	200	26.6	740	92.7	0.78	1.8	0.8	5.5	12	450	2710
YKK4006-8	220	29.2	740	92.9	0.78	1.8	0.8	5.5	13	502	2840
YKK4502-8	250	32.7	740	93.0	0.79	1.8	0.8	5.5	16	558	3490
YKK4503-8	280	36.6	740	93.2	0.79	1.8	0.8	5.5	17	622	3610
YKK4504-8	315	41.1	740	93.4	0.79	1.8	0.8	5.5	18	693	3730
YKK4505-8	355	46.2	740	93.5	0.79	1.8	0.8	5.5	19	772	3850
YKK5001-8	400	51.3	740	93.7	0.80	1.8	0.8	5.5	30	853	4310
YKK5002-8	450	57.7	740	93.8	0.80	1.8	0.8	5.5	34	941	4600
YKK5003-8	500	63.8	740	94.2	0.80	1.8	0.8	5.5	38	1044	4750
YKK5004-8	560	71.4	740	94.4	0.80	1.8	0.8	5.5	42	1160	5020
YKK5601-8	630	78.2	740	94.5	0.82	1.8	0.7	6	79	1221	6280
YKK5602-8	710	88.1	740	94.6	0.82	1.8	0.7	6	87	1357	6460
YKK5603-8	800	99.1	740	94.7	0.82	1.8	0.7	6	92	1505	6650

YKK(IP44)、(IP54) series technical data (6kV)

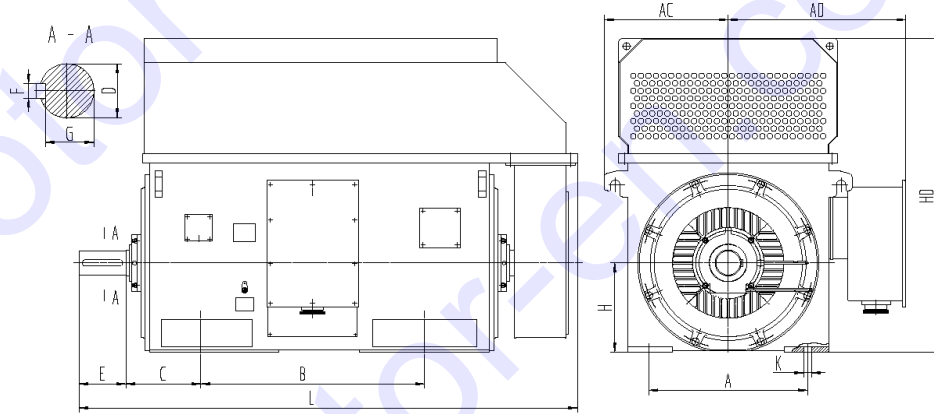
Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (kg)
									Motor J_m (kg.m ²)	Load J_L (kg.m ²)	
YKK6301-8	900	108.8	740	94.8	0.84	1.8	0.7	6	129	1650	8750
YKK6302-8	1000	120.7	740	94.9	0.84	1.8	0.7	6	137	1820	9020
YKK6303-8	1120	135.1	740	95.0	0.84	1.8	0.7	6	151	2001	9280
YKK6304-8	1250	150.6	740	95.1	0.84	1.8	0.7	6	160	2204	9610
YKK4501-10	185	25.9	590	91.7	0.75	1.8	0.8	5.5	19	698	3300
YKK4502-10	200	27.9	590	91.9	0.75	1.8	0.8	5.5	20	775	3390
YKK4503-10	220	30.6	590	92.1	0.75	1.8	0.8	5.5	22	865	3480
YKK4504-10	250	34.8	590	92.3	0.75	1.8	0.8	5.5	24	962	3620
YKK4505-10	280	38.8	590	92.5	0.75	1.8	0.8	5.5	26	1072	3730
YKK5001-10	315	43.0	590	92.8	0.76	1.8	0.8	5.5	36	1196	4260
YKK5002-10	355	48.3	590	93.0	0.76	1.8	0.8	5.5	38	1332	4360
YKK5003-10	400	54.3	590	93.3	0.76	1.8	0.8	5.5	42	1474	4540
YKK5004-10	450	61.0	590	93.4	0.76	1.8	0.8	5.5	45	1627	4680
YKK5601-10	500	65.9	590	93.6	0.78	1.8	0.7	6	67	1710	6030
YKK5602-10	560	73.7	590	93.7	0.78	1.8	0.7	6	74	1902	6210
YKK5603-10	630	82.9	590	93.8	0.78	1.8	0.7	6	79	2116	6390
YKK5604-10	710	93.2	590	94.0	0.78	1.8	0.7	6	88	2355	6560
YKK6301-10	800	102.2	590	94.2	0.80	1.8	0.7	6	132	2615	8380
YKK6302-10	900	114.8	590	94.3	0.80	1.8	0.7	6	140	2870	8620
YKK6303-10	1000	127.4	590	94.4	0.80	1.8	0.7	6	152	3170	8910
YKK6304-10	1120	142.4	590	94.6	0.80	1.8	0.7	6	167	3489	9220
YKK4504-12	185	27.7	490	91.8	0.70	1.8	0.8	5.5	24	1087	3620
YKK4505-12	200	29.9	490	92.0	0.70	1.8	0.8	5.5	26	1206	3710
YKK5001-12	220	31.9	490	92.2	0.72	1.8	0.8	5.5	40	1347	4270
YKK5002-12	250	36.1	490	92.5	0.72	1.8	0.8	5.5	42	1499	4370
YKK5003-12	280	40.4	490	92.7	0.72	1.8	0.8	5.5	43	1672	4450
YKK5004-12	315	45.4	490	92.8	0.72	1.8	0.8	5.5	47	1865	4590
YKK5601-12	355	49.6	490	93.0	0.74	1.8	0.7	6	87	1967	5790
YKK5602-12	400	55.8	490	93.3	0.74	1.8	0.7	6	96	2180	5980
YKK5603-12	450	62.7	490	93.4	0.74	1.8	0.7	6	103	2411	6210
YKK5604-12	500	69.4	490	93.7	0.74	1.8	0.7	6	114	2673	6400
YKK6301-12	560	75.6	490	93.8	0.76	1.8	0.7	6	179	2974	8230
YKK6302-12	630	84.9	490	93.9	0.76	1.8	0.7	6	191	3312	8410
YKK6303-12	710	95.6	490	94.0	0.76	1.8	0.7	6	208	3688	8700
YKK6304-12	800	107.5	490	94.2	0.76	1.8	0.7	6	272	4098	9010

Note: These property data shown in table which in correspondence with these guaranteed values are shown in the additive table.

Dimensions

mm

YKK series (IP54) medium type asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances mm																		Boundary dimensions mm								
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD ^b	L ^b					
		Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit	Basic	Limit									
		Size	deviation	Size	deviation	Size	deviation	Size	deviation	Size	deviation	Size	deviation	Size	deviation	Size	deviation	Size	deviation									
355	2	630	± 1.4	900	± 1.4	315		80	+0.030 +0.011	170	± 0.50	22		71		355		28	+ 0.52 0	505	760	1350	1980					
	4							100		210	± 0.57	28		0 - 0.052									90	2040				
400	2	710		1000		375		90	+0.035 +0.013	170	± 0.50	25		81		400				555	810	1450	2300					
	4~8					110					100	2540																
450	2	800	± 1.75	1120	± 1.75	400		100		210		28		90	0 - 0.2		450		35					2550				
	4					120						109		2540														
	6~12					130		+0.040 +0.015		250				32	0 - 0.062									119				
500	2	900		1250		560	± 4.0	110	+0.035 +0.013	210	± 0.57	28	0 - 0.052	100		500	0 - 1.0						3150					
	4					130		250	32		119	0 - 0.3	2900															
	6~12					140			36		128																	
560	2	1000	± 2.1	1400	± 2.1	560		130	+0.040 +0.015			32	0 - 0.062	119	0 - 0.2	560							3350					
	4					150		36				138		3200														
	6~12					160		300				± 0.65		40	147													
630	2	1120		1600		560		140		250	± 0.57	36		128	0 - 0.3	630							3500					
	4					170		300		± 0.65	40	157																
	6~12					180					45	165																

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

b If the cooling method is IC616, the dimensions HD and/or L are as per the protocol.

Y ,YKS series technical data (10kV)

Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F. CosΦ	Tm Tn	Tst Tn	Ist In	Rotational inertia		Weight (kg)	
									Motor Jm (kg.m ²)	Load J (kg.m ²)	Y	YKS
Y4501-2	355	25.1	2990	93.8	0.87	1.8	0.6	7	6.5	34.5	3000	3480
Y4502-2	400	28.2	2990	94.1	0.87	1.8	0.6	7	7.5	35.1	3130	3610
Y4503-2	450	31.7	2990	94.3	0.87	1.8	0.6	7	8.4	37.2	3260	3740
Y4504-2	500	35.2	2990	94.4	0.87	1.8	0.6	7	9.0	41.2	3390	3870
Y4505-2	560	39.3	2990	94.5	0.87	1.8	0.6	7	9.7	45.2	3520	4000
Y4506-2	630	44.2	2990	94.6	0.87	1.8	0.6	7	10.3	50.1	3650	4130
Y5001-2	710	49.2	2990	94.7	0.88	1.8	0.6	7	13.7	68.8	4250	4830
Y5002-2	800	55.4	2990	94.8	0.88	1.8	0.6	7	14.7	75.5	4370	4950
Y5003-2	900	62.2	2990	94.9	0.88	1.8	0.6	7	16.7	78.4	4530	5110
Y5004-2	1000	69.1	2990	95.0	0.88	1.8	0.6	7	17.7	90.0	4680	5260
Y5005-2	1120	77.2	2990	95.2	0.88	1.8	0.6	7	18.7	97.0	4830	5410
Y5601-2	1250	85.0	2990	95.4	0.89	1.8	0.6	7	30.8	98.0	7850	8450
Y5602-2	1400	95.1	2990	95.5	0.89	1.8	0.6	7	34.7	99.0	8100	8700
Y5603-2	1600	108.6	2990	95.6	0.89	1.8	0.6	7	38.8	100.0	8350	8950
Y6301-2	1800	120.7	2990	95.7	0.90	1.8	0.6	7	39.0	108.0	9350	9950
Y6302-2	2000	133.9	2990	95.8	0.90	1.8	0.6	7	44.0	110.0	9750	10350
Y6303-2	2240	149.7	2990	96.0	0.90	1.8	0.6	7	51.0	114.0	10150	10750
Y4501-4	355	25.5	1490	93.3	0.86	1.8	0.7	7	12	119	2685	3165
Y4502-4	400	28.7	1490	93.5	0.86	1.8	0.7	7	12.9	132	2765	3245
Y4503-4	450	32.2	1490	93.9	0.86	1.8	0.7	7	12.9	147	2845	3325
Y4504-4	500	35.7	1490	94.0	0.86	1.8	0.7	7	13.8	161	2925	3405
Y4505-4	560	39.9	1490	94.2	0.86	1.8	0.7	7	13.8	178	3005	3485
Y4506-4	630	44.8	1490	94.4	0.86	1.8	0.7	7	14.7	196	3085	3565
Y5001-4	710	49.6	1490	95.0	0.87	1.8	0.7	7	22	217	3950	4530
Y5002-4	800	55.8	1490	95.1	0.87	1.8	0.7	7	23	240	4100	4680
Y5003-4	900	62.2	1490	95.2	0.88	1.8	0.7	7	25	265	4250	4830
Y5004-4	1000	68.8	1490	95.3	0.88	1.8	0.7	7	27	289	4400	4980
Y5005-4	1120	77.0	1490	95.4	0.88	1.8	0.7	7	29	317	4550	5130
Y5601-4	1250	84.9	1490	95.5	0.89	1.8	0.7	7	40	347	8270	9070
Y5602-4	1400	94.9	1490	95.7	0.89	1.8	0.7	7	43	379	8490	9290
Y5603-4	1600	108.3	1490	95.8	0.89	1.8	0.7	7	46	421	8710	9510
Y6301-4	1800	121.8	1490	95.9	0.89	1.8	0.6	7	86	460	8580	9165
Y6302-4	2000	135.2	1490	96.0	0.89	1.8	0.6	7	91	498	8930	9515
Y6303-4	2240	151.2	1490	96.1	0.89	1.8	0.6	7	96	540	9280	9865
Y4503-6	315	23.9	990	92.8	0.82	1.8	0.7	6	14.7	291	2960	3440
Y4504-6	355	26.5	990	93.1	0.83	1.8	0.7	6	15.7	324	3040	3520
Y4505-6	400	29.8	990	93.3	0.83	1.8	0.7	6	17.1	361	3120	3600
Y4506-6	450	33.5	990	93.5	0.83	1.8	0.7	6	18.2	400	3200	3680
Y5001-6	500	37.0	990	93.9	0.83	1.8	0.7	6	23	440	3930	4510
Y5002-6	560	40.9	990	94.1	0.84	1.8	0.7	6	25	486	4070	4650
Y5003-6	630	45.9	990	94.4	0.84	1.8	0.7	6	27	539	4230	4810
Y5004-6	710	51.6	990	94.6	0.84	1.8	0.7	6	29	599	4420	5000
Y5005-6	800	58.1	990	94.7	0.84	1.8	0.7	6	31	664	4610	5190

Y ,YKS series technical data (10kV)

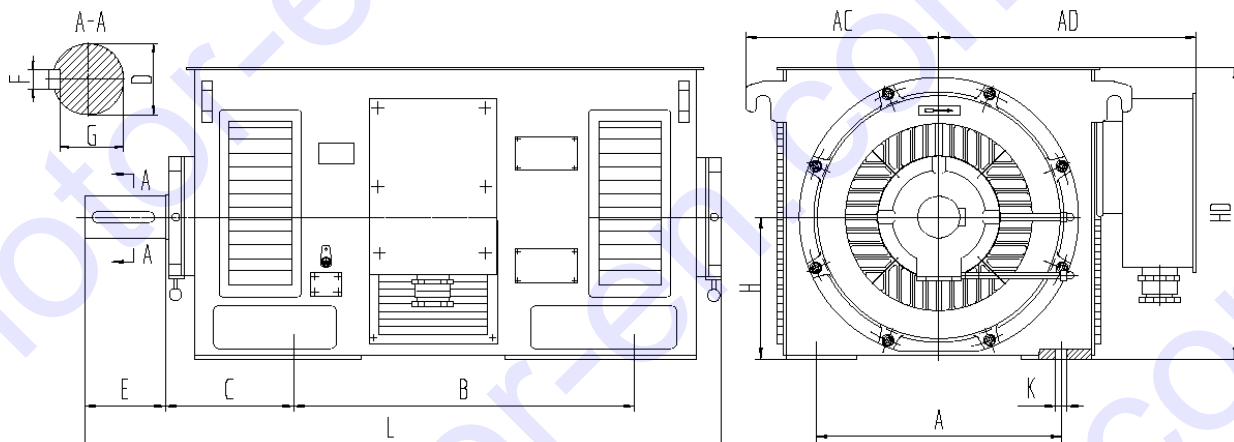
Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	Tm Tn	Tst Tn	Ist In	Rotational inertia		Weight (kg)	
									Motor Jm (kg.m ²)	Load J (kg.m ²)	Y	YKS
Y5601-6	900	64.4	990	94.9	0.85	1.8	0.7	6	49	735	5150	5950
Y5602-6	1000	71.4	990	95.1	0.85	1.8	0.7	6	53	805	5320	6120
Y5603-6	1120	79.8	990	95.3	0.85	1.8	0.7	6	56	886	5490	6290
Y5604-6	1250	88.0	990	95.4	0.86	1.8	0.7	6	60	972	5660	6460
Y6301-6	1400	98.2	990	95.7	0.86	1.8	0.6	6	114	1068	7825	8410
Y6302-6	1600	112.1	990	95.8	0.86	1.8	0.6	6	121	1192	8055	8640
Y6303-6	1800	126.0	990	95.9	0.86	1.8	0.6	6	128	1312	8285	8870
Y5001-8	315	25.5	740	92.8	0.77	1.8	0.7	6	22	588	3500	4010
Y5002-8	355	28.6	740	93.1	0.77	1.8	0.7	6	24	656	3550	4060
Y5003-8	400	31.8	740	93.2	0.78	1.8	0.7	6	26	730	3670	4180
Y5004-8	450	35.7	740	93.4	0.78	1.8	0.7	6	28	812	3820	4330
Y5005-8	500	39.0	740	93.8	0.79	1.8	0.7	6	30	893	3960	4470
Y5006-8	560	43.6	740	93.9	0.79	1.8	0.7	6	32	989	4100	4610
Y5601-8	630	47.0	740	94.4	0.82	1.8	0.7	6	56	1098	5140	5940
Y5602-8	710	52.8	740	94.6	0.82	1.8	0.7	6	60	1221	5310	6110
Y5603-8	800	59.5	740	94.7	0.82	1.8	0.7	6	63	1357	5480	6280
Y5604-8	900	66.8	740	94.8	0.82	1.8	0.7	6	67	1505	5650	6450
Y6301-8	1000	73.2	740	95.0	0.83	1.8	0.7	6	141	1650	8115	8700
Y6302-8	1120	81.8	740	95.2	0.83	1.8	0.7	6	149	1820	8235	8820
Y6303-8	1250	91.2	740	95.3	0.83	1.8	0.7	6	157	2001	8355	8940
Y5003-10	280	23.6	590	92.4	0.74	1.8	0.7	5.5	28	910	4100	4610
Y5004-10	315	26.5	590	92.6	0.74	1.8	0.7	5.5	30	1014	4160	4670
Y5005-10	355	29.4	590	92.8	0.75	1.8	0.7	5.5	32	1131	4230	4740
Y5006-10	400	33.1	590	93.0	0.75	1.8	0.7	5.5	34	1261	4380	4890
Y5601-10	450	36.2	590	93.2	0.77	1.8	0.7	6	75	1403	5050	5850
Y5602-10	500	40.1	590	93.4	0.77	1.8	0.7	6	80	1544	5310	6110
Y5603-10	560	44.3	590	93.5	0.78	1.8	0.7	6	84	1710	5460	6260
Y5604-10	630	49.8	590	93.7	0.78	1.8	0.7	6	89	1902	5600	6400
Y5605-10	710	56.0	590	93.9	0.78	1.8	0.7	6	94	2117	5750	6550
Y6301-10	800	61.2	590	94.3	0.80	1.8	0.7	6	144	2355	7935	8520
Y6302-10	900	68.7	590	94.5	0.80	1.8	0.7	6	153	2614	8165	8750
Y6303-10	1000	76.3	590	94.6	0.80	1.8	0.7	6	161	2870	8365	8950
Y6304-10	1120	85.4	590	94.7	0.80	1.8	0.7	6	169	3170	8565	9150
Y5601-12	315	27.0	490	92.3	0.73	1.8	0.7	6	73	1580	5050	5820
Y5602-12	355	30.4	490	92.5	0.73	1.8	0.7	6	77	1763	5170	5970
Y5603-12	400	34.1	490	92.7	0.73	1.8	0.7	6	82	1967	5310	6110
Y5604-12	450	38.3	490	92.9	0.73	1.8	0.7	6	87	2190	5450	6250
Y5605-12	500	42.4	490	93.2	0.73	1.8	0.7	6	92	2411	5590	6390
Y6301-12	560	46.7	490	93.5	0.74	1.8	0.7	6	119	2672	8120	8705
Y6302-12	630	52.5	490	93.7	0.74	1.8	0.7	6	136	2974	8320	8905
Y6303-12	710	59.0	490	93.9	0.74	1.8	0.7	6	152	3313	8520	9105
Y6304-12	800	66.2	490	94.3	0.74	1.8	0.7	6	160	3688	8720	9305

Note: These property data shown in table which in correspondence with these guaranteed values are shown in the additive table.

Dimensions

mm

Y series medium sized motor overall and mounting dimension figure (10kV)

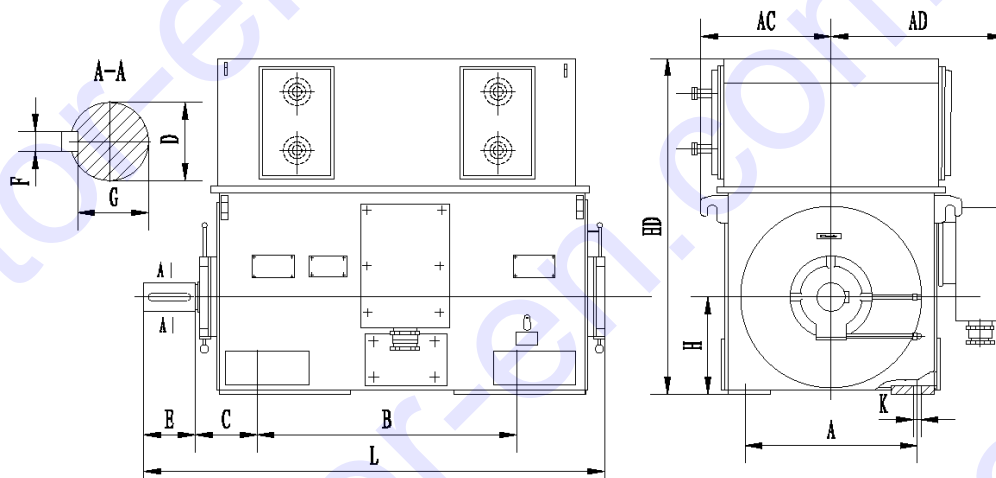


F R A M E	P O L E	Mounting dimensions and tolerances mm																Boundary dimensions mm										
		A		B		C		D		E		F		G		H		K		AC	AD	HD	L					
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation									
450	2	800	± 1.7 5	1120	± 1.7 5	400	± 4.0	90	+0.035 +0.013	170	± 0.5 0	25	0 - 0.052	81	0 - 0.2	450	35	595	1050	950	2090							
	355					110		210		28	100	90	109	119							42	2280						
	560					120																	± 0.5 7	32	138	560	1200	1200
500	2	900	1250	± 2.1	1400	± 2.1	500	130	250	300	± 0.6 5	40	147	0 - 0.3	500	42	660	1110	1050	2320								
	4										475	120	32							119	42	2280						
	6~10																						560	150	36	0 - 0.062	138	560
560	2	1000	± 2.1	1400	± 2.1	500	± 4.0	150	+0.040 +0.015	300	± 0.6 5	40	147	0 - 0.3	560	42	800	1200	1200	2750								
	4										560	160	250							36	128	157	630	48	860	1250	1350	2750
	6~12																											
630	2	1120	1600	530	180	300	± 0.6 5	45	165	2900																		
	4										157	165	630	48	860	1250	1350	2750										
	6~12																		157	165	630	48	860	1250	1350	2750		

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

YKS series medium sized motor overall and mounting dimension figure



F R A M E	P O L E	Mounting dimensions and tolerances mm																Boundary dimensions mm																	
		A		B		C		D		E		F		G		H		K		AC	AD	HD	L												
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation																
45 0	2	800	± 1.7 5	112 0	± 1.7 5	400		90		170	± 0.5 0	25	0 - 0.052	81		450		35		59	105	167	209 0												
	355					110		+0.035 +0.013		28	0 - 0.052	100	0 - 0.2	90						500	42	+ 0.62 0	66 0	1110	195 0	208 0									
						210																													
50 0	2	900		125 0		560	± 4. 0	100		± 0.5 7	32			109	500				66 0	1110	195 0	232 0													
	475					120																										228 0			
	6~1 0																																		
56 0	2	100 0	± 2.1	140 0	± 2.1	560		130		250		36	0 - 0.062	138	560				80 0	120 0	215 0	275 0													
	500					150																													
	6~1 2					160		+0.040 +0.015		300												± 0.6 5	40	147											
63 0	2	112 0		160 0		560		140		250	± 0.5 7	36	0 - 0.3	128	630		48		86 0	125 0	235 0	290 0													
	530					170																													
	6~1 2					180				300	± 0.6 5	45		165																				275 0	
a For sleeve bearing motor, the limit deviation don't include the axial string momentum.																																			

a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

YKK series technical data (10kV)

(Type)	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (kg)
									Motor Jm (kg.m ²)	Load J (kg.m ²)	
YKK4502-2	250	17.5	2990	92.6	0.89	1.8	0.6	7	5.6	30.0	3740
YKK4503-2	280	19.6	2990	92.8	0.89	1.8	0.6	7	6.1	31.1	3800
YKK4504-2	315	21.9	2990	93.1	0.89	1.8	0.6	7	6.6	31.8	3880
YKK4505-2	355	24.7	2990	93.3	0.89	1.8	0.6	7	7.2	32.5	3945
YKK4506-2	400	27.8	2990	93.4	0.89	1.8	0.6	7	8.2	34.3	4090
YKK4507-2	450	31.2	2990	93.5	0.89	1.8	0.6	7	8.7	35.2	4185
YKK4508-2	500	34.7	2990	93.6	0.89	1.8	0.6	7	9.3	37.2	4250
YKK5002-2	560	38.3	2990	93.7	0.90	1.8	0.6	7	14.7	55.4	4380
YKK5003-2	630	43.1	2990	93.8	0.90	1.8	0.6	7	15.7	59.1	4575
YKK5004-2	710	48.5	2990	93.9	0.90	1.8	0.6	7	17.7	63.2	4700
YKK5005-2	800	54.6	2990	94.0	0.90	1.8	0.6	7	18.7	68.8	4780
YKK5006-2	900	61.3	2990	94.2	0.90	1.8	0.6	7	19.7	75.5	4850
YKK5603-2	1000	67.2	2990	94.4	0.91	1.8	0.6	7	31.8	78.4	8250
YKK5604-2	1120	75.2	2990	94.5	0.91	1.8	0.6	7	35.7	90.0	8500
YKK5605-2	1250	83.8	2990	94.6	0.91	1.8	0.6	7	39.8	97.0	8750
YKK6302-2	1400	92.8	2990	94.7	0.92	1.8	0.6	7	42.7	98.0	9500
YKK6303-2	1600	105.9	2990	94.8	0.92	1.8	0.6	7	46.0	99.0	9700
YKK6304-2	1800	118.9	2990	95.0	0.92	1.8	0.6	7	53.0	100.0	10500
YKK4501-4	250	17.8	1490	92.1	0.88	1.8	0.7	7	11.4	78.0	3700
YKK4502-4	280	19.9	1490	92.3	0.88	1.8	0.7	7	12.6	87.0	3760
YKK4503-4	315	22.3	1490	92.5	0.88	1.8	0.7	7	13.1	97.0	3860
YKK4504-4	355	25.1	1490	92.9	0.88	1.8	0.7	7	13.5	107	3890
YKK4505-4	400	28.2	1490	93.0	0.88	1.8	0.7	7	14.0	119	4200
YKK4506-4	450	31.7	1490	93.2	0.88	1.8	0.7	7	14.4	132	4300
YKK4507-4	500	35.1	1490	93.4	0.88	1.8	0.7	7	15.3	147	4490
YKK4508-4	560	38.6	1490	94.0	0.89	1.8	0.7	7	16.0	165	4600
YKK5002-4	560	38.6	1490	94.0	0.89	1.8	0.7	7	25.0	165	5660
YKK5003-4	630	43.4	1490	94.1	0.89	1.8	0.7	7	26.0	182	5850
YKK5004-4	710	48.9	1490	94.2	0.89	1.8	0.7	7	28.0	201	6030
YKK5005-4	800	55.0	1490	94.3	0.89	1.8	0.7	7	30.0	220	6060
YKK5006-4	900	61.8	1490	94.4	0.89	1.8	0.7	7	32.0	242	6160
YKK5603-4	1000	67.9	1490	94.5	0.9	1.8	0.7	7	44.0	270	7800
YKK5604-4	1120	75.9	1490	94.7	0.9	1.8	0.7	7	47.0	292	8050
YKK5605-4	1250	84.6	1490	94.8	0.9	1.8	0.7	7	50.0	320	8300
YKK6302-4	1400	94.6	1490	94.9	0.9	1.8	0.6	7	90.0	350	9900
YKK6303-4	1600	108.0	1490	95.0	0.9	1.8	0.6	7	95.0	382	10300
YKK6304-4	1800	121.4	1490	95.1	0.9	1.8	0.6	7	101.0	423	10400
YKK4503-6	220	16.5	990	91.8	0.84	1.8	0.7	6	15.5	210	3950
YKK4504-6	250	18.7	990	92.0	0.84	1.8	0.7	6	16.3	235	4090
YKK4505-6	280	20.9	990	92.2	0.84	1.8	0.7	6	17.4	260	4210
YKK4506-6	315	23.5	990	92.3	0.84	1.8	0.7	6	18.4	290	4420
YKK4507-6	355	26.4	990	92.5	0.84	1.8	0.7	6	19.5	320	4560
YKK4508-6	400	29.6	990	92.9	0.84	1.8	0.7	6	22.0	350	4760
YKK5002-6	400	29.6	990	92.9	0.84	1.8	0.7	6	27.0	362	5360
YKK5003-6	450	32.8	990	93.1	0.85	1.8	0.7	6	29.0	400	5440
YKK5004-6	500	36.4	990	93.4	0.85	1.8	0.7	6	31.0	446	5700
YKK5005-6	560	40.6	990	93.6	0.85	1.8	0.7	6	33.0	485	5880
YKK5006-6	630	45.6	990	93.9	0.85	1.8	0.7	6	35.0	525	6110

YKK series technical data (10kV)

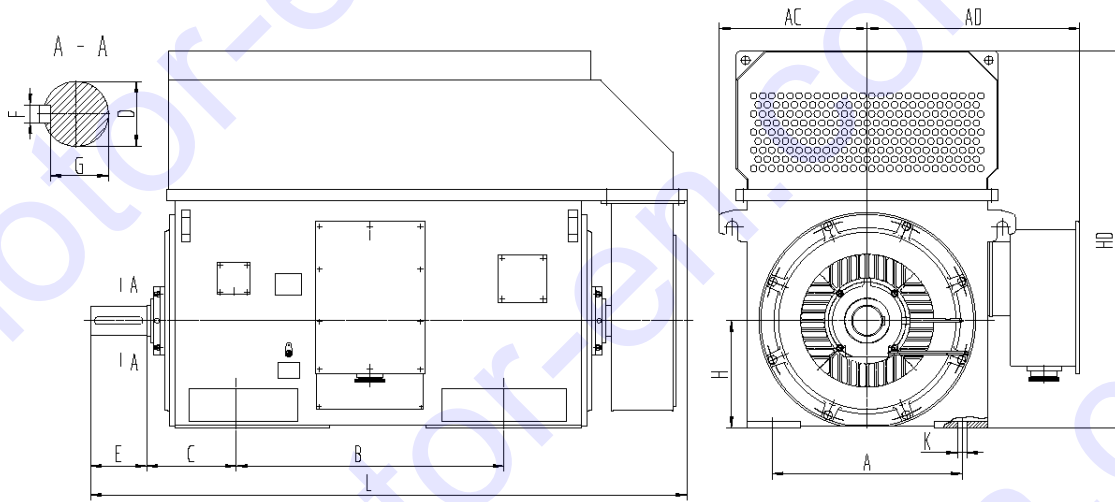
Type	Output (kW)	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Rotational inertia		Weight (kg)
									Motor Jm (kg.m ²)	Load J (kg.m ²)	
YKK5602-6	710	50.7	990	94.0	0.86	1.8	0.7	6	50.0	540	7500
YKK5603-6	800	57.0	990	94.2	0.86	1.8	0.7	6	60.0	599	7850
YKK5604-6	900	64.1	990	94.3	0.86	1.8	0.7	6	63.0	665	8100
YKK5605-6	1000	71.1	990	94.4	0.86	1.8	0.7	6	67.0	736	8300
YKK6302-6	1120	79.4	990	94.7	0.86	1.8	0.6	6	121.0	805	10750
YKK6303-6	1250	88.5	990	94.8	0.86	1.8	0.6	6	128.0	886	11150
YKK6304-6	1400	99.0	990	94.9	0.86	1.8	0.6	6	135.0	970	11500
YKK5001-8	250	18.9	740	91.8	0.83	1.8	0.7	6	28.0	423	5280
YKK5002-8	280	21.1	740	92.2	0.83	1.8	0.7	6	30.0	476	5340
YKK5003-8	315	23.7	740	92.3	0.83	1.8	0.7	6	32.0	530	5660
YKK5004-8	355	26.7	740	92.6	0.83	1.8	0.7	6	34.0	588	5700
YKK5005-8	400	30.0	740	92.8	0.83	1.8	0.7	6	36.0	656	5760
YKK5006-8	450	33.6	740	93.1	0.83	1.8	0.7	6	38.0	730	5820
YKK5602-8	500	37.2	740	93.4	0.83	1.8	0.7	6	63.0	810	7850
YKK5603-8	560	41.6	740	93.6	0.83	1.8	0.7	6	67.0	890	8100
YKK5604-8	630	46.8	740	93.7	0.83	1.8	0.7	6	70.0	988	8300
YKK5605-8	710	52.7	740	93.8	0.83	1.8	0.7	6	74.0	1098	8500
YKK6302-8	800	59.2	740	94.0	0.83	1.8	0.7	6	145.0	1221	10400
YKK6303-8	900	66.5	740	94.2	0.83	1.8	0.7	6	151.0	1357	10800
YKK6304-8	1000	73.8	740	94.3	0.83	1.8	0.7	6	166.0	1505	11200
YKK5003-10	220	18.8	590	91.5	0.74	1.8	0.7	5.5	38.0	698	5580
YKK5004-10	250	21.3	590	91.7	0.74	1.8	0.7	5.5	39.3	775	5760
YKK5005-10	280	23.8	590	91.9	0.74	1.8	0.7	5.5	40.0	865	5930
YKK5006-10	315	26.6	590	92.3	0.74	1.8	0.7	5.5	42.0	965	6120
YKK5601-10	355	27.0	590	92.5	0.82	1.8	0.7	6	78.0	1015	7350
YKK5602-10	400	30.4	590	92.7	0.82	1.8	0.7	6	83.0	1131	7500
YKK5603-10	450	34.1	590	92.8	0.82	1.8	0.7	6	87.0	1261	7850
YKK5604-10	500	37.9	590	92.9	0.82	1.8	0.7	6	92.0	1403	8100
YKK5605-10	560	42.4	590	93.0	0.82	1.8	0.7	6	97.0	1545	8300
YKK6301-10	630	47.5	590	93.3	0.82	1.8	0.7	6	153.0	1710	10600
YKK6302-10	710	53.5	590	93.5	0.82	1.8	0.7	6	162.0	1902	11000
YKK6303-10	800	60.2	590	93.6	0.82	1.8	0.7	6	169.0	2116	11400
YKK6304-10	900	67.6	590	93.7	0.82	1.8	0.7	6	178.0	2355	11800
YKK5601-12	250	20.7	490	91.7	0.76	1.8	0.7	6	88.0	1135	7350
YKK5602-12	280	23.2	490	91.8	0.76	1.8	0.7	6	97.0	1210	7500
YKK5603-12	315	26.0	490	91.9	0.76	1.8	0.7	6	100.0	1418	7850
YKK5604-12	355	29.3	490	92.0	0.76	1.8	0.7	6	108.0	1580	8100
YKK5605-12	400	33.0	490	92.2	0.76	1.8	0.7	6	115.0	1763	8300
YKK6301-12	450	37.0	490	92.5	0.76	1.8	0.7	6	139.0	1967	10600
YKK6302-12	500	41.0	490	92.7	0.76	1.8	0.7	6	156.0	2190	11000
YKK6303-12	560	45.8	490	92.9	0.76	1.8	0.7	6	172.0	2411	11400
YKK6304-12	630	51.3	490	93.3	0.76	1.8	0.7	6	180.0	2672	11800

Note: These property data shown in table which in correspondence with these guaranteed values are shown in the additive table.

Dimensions

mm

YKK series (IP54) medium type asynchronous motor overall and mounting dimensions figure 10V



FRAME	POLE	Mounting dimensions and tolerances mm																		Boundary dimensions mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD ^b	L ^b
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation				
450	2					400		90		170		25		81									2550
	4	800	± 1.75	1120	± 1.75						± 0.50					450		35		595	1050	1670	2540
	6~12					355		110	$+0.035$ $+0.013$				0 -0.052	100									
500	2					560		100		210				90	0 -0.2								3150
	4	900		1250				120			± 0.57			109		500				660	1110	1950	2900
	6~12					475						32											
560	2					560	± 4.0	130		250				119			0 -1.0	42	$+0.62$ 0				3350
	4	1000	± 2.1	1400	± 2.1			150				36	0 -0.062	138		560				800	1200	2150	3200
	6~12					500		160	$+0.040$ $+0.015$	300	± 0.65	40		147									
630	2					560		140		250	± 0.57	36		128	0 -0.3								3550
	4	1120		1600				170				40		157		630		48		860	1250	2350	3400
	6~12					530		180		300	± 0.65	45		165									

^a For sleeve bearing motor, the limit deviation don't include the axial string momentum.

^b If the cooling method is IC616, the dimensions HD and/or L are as per the protocol.

Y .YKS. YKK series

H710-1000 large size high voltage three-phase asynchronous motors



Y Series



YKK Series



YKS Series

1. General description

The power rating, electric performance, mounting size and tolerance of the Y、YKS series (frame No.710-1000) large size three-phase asynchronous motors are coincident with the China standard GB755 《Rotating Electrical Machines-Rating and Performance》 and the international Electric Committee standard IEC 34-1 《Rotating Electrical Machines-Rating and Performance》 and China motor industry standard GB/T13957 《Technical Requirement for the Fundamental Series of Three-phase Large Asynchronous Motor》 .

2. Structure specification

The stator windings are F grade insulation and stator is a outer-press-assembly structure. The whole stator has been treated with VPI technology to make stator with a robust body and good electrical and moisture resistance.

The squirrel cage rotor is made of copper bar and a reliable weld technology has been adopted. Normally the shaft is made up a single extension, but also can provide the double extension mode according customer's requirements. The bearing of the motor have two types, one is rolling bearing and the another one is spherical surface slide bearing. It's easy for maintenance and has strong loading capability.

The main terminal box is designed by Germany DIN standard. The grade of protection is IP54. The terminal box for standard motor is located at the right side (Viewed from axle extension). Also can be mounted at left side according customer's requirement. There is a secondary terminal box for leading out the neutral point of stator three-phase winding on the other side of the main terminal box when the motor's power is 2000kW and above.

The stator windings of the motor and each bearing are equipped with resistance temperature measuring elements for monitoring the temperature of the motor.

3.The Implication of the symbol

By GB4831 stipulation, the motor's type is composed of product symbol and specification symbol in sequence.

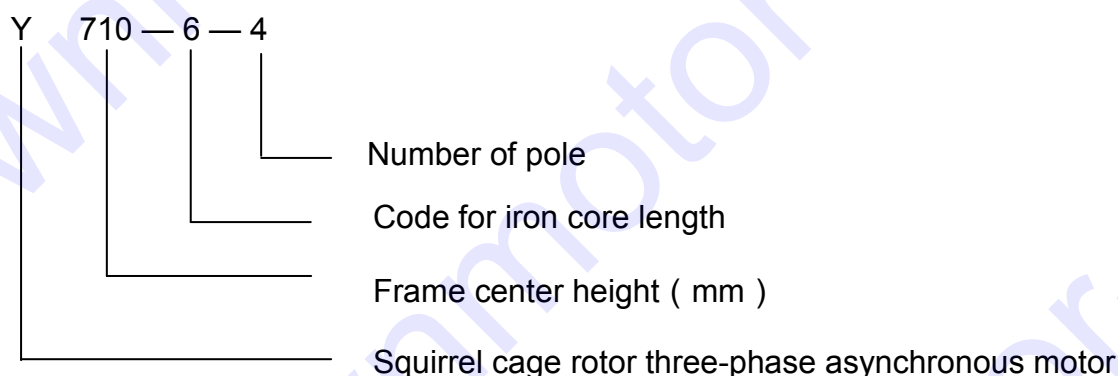
The product symbol is demons treated by motor series symbols, its implication is as following:

Y-----squirrel-cage rotor three-phase asynchronous motor.

YKS-----Enclosed squirrel-cage rotor three-phase asynchronous motor with air-water cooler

YKK-----Enclosed squirrel-cage rotor three-phase asynchronous motor with air-air cooler

The specification symbol is composed of centre height, iron-core length number and number of poles.



4. Details

Y series:

- | | |
|-------------------------|--|
| • Frame sizes: 710-1000 | Rated output: 500-10000kW |
| • Insulation class: F | Degree of protection: IP23 /IP44/IP54 |
| • Enclosure: IC01 | Mounting: Horizontal |
| • Rotor: Squirrel cage | Bearing: Rolling bearing or sleeve bearing |
| • Voltage: 6kV, 10 kV | |

Features: High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, ball mill and etc.

YKK series:

- Frame sizes: 710-1000
 - Insulation class: F
 - Enclosure: IC611
 - Rotor: Squirrel cage
 - Voltage: 6kV, 10kV
- Rated output: 500-8000kW
Degree of protection: IP54 /IP55
Mounting: Horizontal
Bearing: Rolling bearing or sleeve bearing

Features: This motor can be processed by the anticorrosion anti-mould-proof process to derive outdoor (W) and outdoor corrosion protection (WF) motors. High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, crusher and etc.

YKS series:

- Frame sizes: 710-1000
 - Insulation class: F
 - Enclosure: IC81W
 - Rotor: Squirrel cage
 - Voltage: 6kV, 10kV
- Rated output: 500-10000kW
Degree of protection: IP54 /IP55
Mounting: Horizontal
Bearing: Rolling bearing or sleeve bearing

Features: High efficiency, energy saving, low vibration, small size, light weight, reliable performance and easy installation and maintenance. The frame is made of steel plate being welded up into form of square tank shape with light weight and firm rigidity. Stator is an outer-press-assembly structure. The stator winding is F grade insulation at the winding's end part being firm banded. The whole stator has been treated with VPI technology to make stator with a robust body and good electric and moisture proof. The rotor can be developed into casting aluminum rotor or copper bar rotor. The copper cage rotor guide bar and end ring are welded by intermediate frequency, and the copper guide bar diameter groove is treated with solid technology to make it have high reliability.

Applications: Ideal for driving all kinds of general machinery, such as water pump, fan, compressor, ball mill and etc.

Y ,YKS series motor model composition (6kV)

Frame		Synchronous rotation speed (r/min)					
		1500	1000	750	600	500	375
		Output kW					
710	1	3150	2240	1800	1600	1120	630
	2	3550	2500	2000	1800	1250	710
	3	4000	2800	2240	2000	1400	800
	4	4500	3150	—	—	—	900
800	1	5000	3550	2500	2240	1600	1000
	2	5600	4000	2800	2500	1800	1120
	3	6300	4500	3150	2800	2000	1250
	4	—	5000	3550	—	2240	1400
900	1	7100	5600	4000	3150	2500	1600
	2	8000	6300	4500	3550	2800	1800
	3	9000	7100	5000	4000	3150	2000
	4	—	—	—	4500	—	—
1000	1	—	8000	5600	5000	3550	2240
	2	—	9000	6300	5600	4000	2500
	3	—	10000	7100	6300	4500	2800
	4	—	—	8000	7100	5000	—

YKK series motor model composition (6kV)

Frame		Synchronous rotation speed (r/min)					
		1500	1000	750	600	500	375
		Output kW					
710	1	2500	1800	1400	1250	900	500
	2	2800	2000	1600	1400	1000	560
	3	3150	2240	1800	1600	1120	630
	4	3550	2500	—	—	—	710
800	1	4000	2800	2000	1800	1250	800
	2	4500	3150	2240	2000	1400	900
	3	5000	3550	2500	2240	1600	1000
	4	—	4000	2800	—	1800	1120
900	1	5600	4500	3150	2500	2000	1250
	2	6300	5000	3550	2800	2240	1400
	3	7100	5600	4000	3150	2500	1600
	4	—	—	—	3550	—	—
1000	1	—	6300	4500	4000	2800	1800
	2	—	7100	5000	4500	3150	2000
	3	—	8000	5600	5000	3550	2240
	4	—	—	6300	5600	—	—

Y , YKS series motor model composition (10kV)

Frame		Synchronous rotation speed (r/min)					
		1500	1000	750	600	500	375
		Output kW					
710	1	2500	2000	1400	1250	900	500
	2	2800	2240	1600	1400	1000	560
	3	3150	2500	1800	1600	1120	630
	4	3550	—	—	—	—	710
800	1	4000	2800	2000	1800	1250	800
	2	4500	3150	2240	2000	1400	900
	3	5000	3550	2500	2240	1600	1000
	4	5600	—	2800	—	—	1120
900	1	6300	4000	3150	2500	1800	1250
	2	7100	4500	3550	2800	2000	1400
	3	8000	5000	—	—	2240	1600
	4	—	5600	—	—	2500	—
1000	1	9000	6300	4000	3150	2800	1800
	2	10000	7100	4500	3550	3150	2000
	3	—	8000	5000	—	3550	2240
	4	—	—	—	—	—	2500

YKK series motor model composition (10kV)

Frame		Synchronous rotation speed (r/min)					
		1500	1000	750	600	500	375
		Output kW					
710	1	2240	1800	1250	1120	800	500
	2	2500	2000	1400	1250	900	560
	3	2800	2240	1600	1400	1000	630
	4	3150	—	—	—	—	—
800	1	3550	2500	1800	1600	1120	710
	2	4000	2800	2000	1800	1250	800
	3	4500	3150	2240	2000	1400	900
	4	5000	—	—	—	—	1000
900	1	5600	3550	2500	2240	1600	1120
	2	6300	4000	2800	2500	1800	1250
	3	7100	4500	3150	2800	2000	1400
	4	—	5000	—	—	—	—
1000	1	—	5600	3550	3150	2240	1600
	2	—	6300	4000	3550	2500	1800
	3	—	7100	4500	—	2800	2000
	4	—	—	—	—	3150	—

Note: Technical data and external mounting dimensions are for reference only.

Y(IP23),YKS (IP44) 6kV series large sized asynchronous electric motor technical data

Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Load rotating inertia kg.m ²	Weight (kg)	
										Y	YKS
Y710 1-4	3150	362	1500	96.3	0.87	1.8	0.5	6.5	530	10900	11500
Y710 2-4	3550	408	1500	96.3	0.87	1.8	0.5	6.5	588	11400	12000
Y710 3-4	4000	459	1500	96.4	0.87	1.8	0.5	6.5	589	11900	12500
Y710 4-4	4500	516	1500	96.4	0.87	1.8	0.5	6.5	589	12400	13000
Y800 1-4	5000	567	1500	96.5	0.88	1.8	0.5	6.5	695	15800	16800
Y800 2-4	5600	635	1500	96.5	0.88	1.8	0.5	6.5	810	16600	17600
Y800 3-4	6300	713	1500	96.6	0.88	1.8	0.5	6.5	935	17400	18400
Y900 1-4	7100	803	1500	96.7	0.88	1.8	0.5	6.5	1180	24400	25700
Y900 2-4	8000	904	1500	96.8	0.88	1.8	0.5	6.5	1230	25700	27000
Y900 3-4	9000	1016	1500	96.9	0.88	1.8	0.5	6.5	1280	27000	28300
Y710 1-6	2240	260	1000	96.0	0.86	1.8	0.6	6.5	1911	10800	11400
Y710 2-6	2500	291	1000	96.1	0.86	1.8	0.6	6.5	2156	11300	11900
Y710 3-6	2800	326	1000	96.1	0.86	1.8	0.6	6.5	2499	11800	12400
Y710 4-6	3150	366	1000	96.2	0.86	1.8	0.6	6.5	2891	12300	12900
Y800 1-6	3550	413	1000	96.2	0.86	1.8	0.6	6.5	3080	15200	16200
Y800 2-6	4000	465	1000	96.3	0.86	1.8	0.6	6.5	3450	16000	17000
Y800 3-6	4500	523	1000	96.3	0.86	1.8	0.6	6.5	3550	16800	17800
Y800 4-6	5000	580	1000	96.4	0.86	1.8	0.6	6.5	3580	17600	18600
Y900 1-6	5600	643	1000	96.4	0.87	1.8	0.6	6.5	3780	24300	25600
Y900 2-6	6300	722	1000	96.5	0.87	1.8	0.6	6.5	4200	25600	26900
Y900 3-6	7100	813	1000	96.6	0.87	1.8	0.6	6.5	4230	26900	28200
Y1000 1-6	8000	915	1000	96.7	0.87	1.8	0.6	6.5	4250	28500	29800
Y1000 2-6	9000	1028	1000	96.8	0.87	1.8	0.6	6.5	5100	30000	31300
Y1000 3-6	10000	1141.4	1000	96.9	0.87	1.8	0.6	6.5	6200	31500	32800
Y710 1-8	1800	214	750	95.4	0.85	1.8	0.6	6.5	3038	11200	11800
Y710 2-8	2000	237	750	95.5	0.85	1.8	0.6	6.5	3085	11700	12300
Y710 3-8	2240	265	750	95.6	0.85	1.8	0.6	6.5	3136	12200	12800
Y800 1-8	2500	296	750	95.7	0.85	1.8	0.6	6.5	5200	15200	16200
Y800 2-8	2800	331	750	95.8	0.85	1.8	0.6	6.5	5450	16000	17000
Y800 3-8	3150	372	750	95.8	0.85	1.8	0.6	6.5	5500	16800	17800
Y800 4-8	3550	419	750	95.9	0.85	1.8	0.6	6.5	5600	17600	18600
Y900 1-8	4000	466	750	96.0	0.86	1.8	0.6	6.5	5700	24100	25400
Y900 2-8	4500	524	750	96.1	0.86	1.8	0.6	6.5	5800	25400	26700
Y900 3-8	5000	582	750	96.2	0.86	1.8	0.6	6.5	5900	26700	28000
Y1000 1-8	5600	651	750	96.2	0.86	1.8	0.6	6.5	6000	27500	28800
Y1000 2-8	6300	732	750	96.3	0.86	1.8	0.6	6.5	6400	29000	30300
Y1000 3-8	7100	824	750	96.4	0.86	1.8	0.6	6.5	6800	30500	31800
Y1000 4-8	8000	928	750	96.5	0.86	1.8	0.6	6.5	7100	32000	33300

Note: Whole data in table are guarantee values.

Y(IP23),YKS (IP44) 6kV series large sized asynchronous electric motor technical data

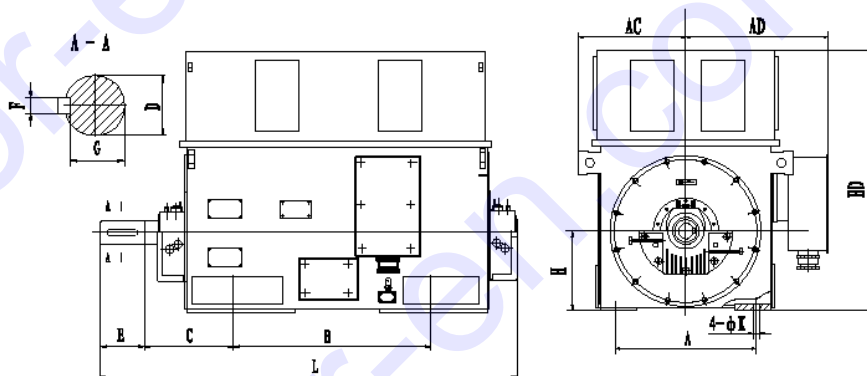
Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Load rotating inertia kg.m ²	Weight (kg)	
										Y	YKS
Y710 1-10	1600	195	600	95.0	0.83	1.8	0.6	6.0	4802	11100	11700
Y710 2-10	1800	219	600	95.1	0.83	1.8	0.6	6.0	5547	11600	12200
Y710 3-10	2000	244	600	95.2	0.83	1.8	0.6	6.0	6664	12100	12700
Y800 1-10	2240	272	600	95.3	0.83	1.8	0.6	6.0	7600	15500	26500
Y800 2-10	2500	304	600	95.4	0.83	1.8	0.6	6.0	8500	16300	27800
Y800 3-10	2800	340	600	95.5	0.83	1.8	0.6	6.0	9200	17100	29100
Y900 1-10	3150	377.5	600	95.6	0.84	1.8	0.6	6.0	10900	23900	25200
Y900 2-10	3550	425	600	95.7	0.84	1.8	0.6	6.0	11000	25200	26500
Y900 3-10	4000	478	600	95.8	0.84	1.8	0.6	6.0	11000	26500	27800
Y900 4-10	4500	538	600	95.8	0.84	1.8	0.6	6.0	11000	27800	29100
Y1000 1-10	5000	597	600	95.9	0.84	1.8	0.6	6.0	11200	27300	28600
Y1000 2-10	5600	669	600	95.9	0.84	1.8	0.6	6.0	12500	28800	30100
Y1000 3-10	6300	752	600	96.0	0.84	1.8	0.6	6.0	14300	30300	31600
Y1000 4-10	7100	847	600	96.0	0.84	1.8	0.6	6.0	16000	31800	33100
Y710 1-12	1120	144	500	94.5	0.79	1.8	0.6	6.0	6272	11000	11600
Y710 2-12	1250	161	500	94.6	0.79	1.8	0.6	6.0	7350	11500	12100
Y710 3-12	1400	180	500	94.7	0.79	1.8	0.6	6.0	8330	12000	12600
Y800 1-12	1600	203	500	94.7	0.80	1.8	0.6	6.0	10500	15000	16000
Y800 2-12	1800	228	500	94.8	0.80	1.8	0.6	6.0	11500	15700	16700
Y800 3-12	2000	253	500	94.9	0.80	1.8	0.6	6.0	12000	16400	17400
Y800 4-12	2240	284	500	95.0	0.80	1.8	0.6	6.0	12500	17100	18100
Y900 1-12	2500	312	500	95.2	0.81	1.8	0.6	6.0	12800	24800	26100
Y900 2-12	2800	349	500	95.3	0.81	1.8	0.6	6.0	13400	26000	27300
Y900 3-12	3150	392	500	95.4	0.81	1.8	0.6	6.0	14200	27200	28500
Y1000 1-12	3550	442	500	95.5	0.81	1.8	0.6	6.0	14500	27100	28400
Y1000 2-12	4000	497	500	95.6	0.81	1.8	0.6	6.0	16500	28600	29900
Y1000 3-12	4500	559	500	95.6	0.81	1.8	0.6	6.0	18500	30100	31400
Y1000 4-12	5000	621	500	95.7	0.81	1.8	0.6	6.0	21000	31600	32900
Y710 1-16	630	89	375	93.1	0.73	1.8	0.6	6.0	9310	10400	11000
Y710 2-16	710	100	375	93.3	0.73	1.8	0.6	6.0	9650	10900	11500
Y710 3-16	800	113	375	93.4	0.73	1.8	0.6	6.0	9996	11400	12000
Y710 4-16	900	127	375	93.5	0.73	1.8	0.6	6.0	10780	11900	12500
Y800 1-16	1000	139	375	93.6	0.74	1.8	0.6	6.0	11200	15000	16000
Y800 2-16	1120	155	375	93.7	0.74	1.8	0.6	6.0	12100	15700	16700
Y800 3-16	1250	173	375	93.8	0.74	1.8	0.6	6.0	13000	16400	17400
Y800 4-16	1400	194	375	93.9	0.74	1.8	0.6	6.0	14800	17100	18100
Y900 1-16	1600	218	375	94.0	0.75	1.8	0.6	6.0	18000	24800	26000
Y900 2-16	1800	245	375	94.1	0.75	1.8	0.6	6.0	19500	26000	27200
Y900 3-16	2000	272	375	94.2	0.75	1.8	0.6	6.0	21000	27200	28500
Y1000 1-16	2240	301	375	94.3	0.75	1.8	0.6	6.0	22000	28400	29700
Y1000 2-16	2500	340	375	94.4	0.75	1.8	0.6	6.0	23000	29900	31200
Y1000 3-16	2800	380	375	94.5	0.75	1.8	0.6	6.0	24500	31400	32700

Note: Whole data in table are guarantee values.

Dimensions

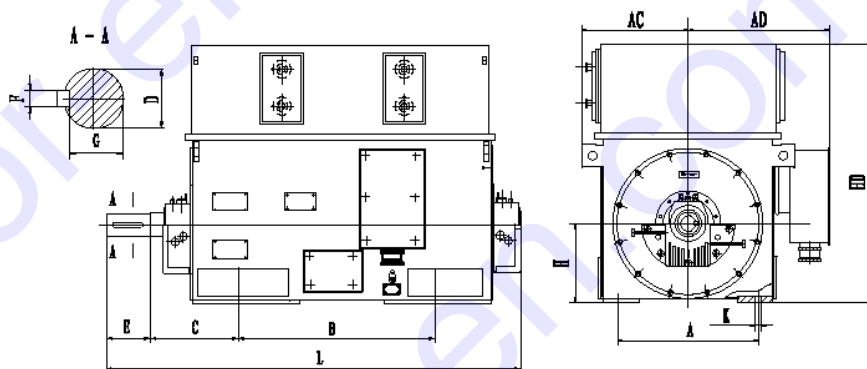
mm

Y series 6kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances mm																		Boundary dimensions mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		Basic Size	Limit deviatio n	Basic Size	Limit deviatio n	Basi c Size	Limit deviatio n	Basi c Size	Limit deviation	Basi c Size	Limit deviation	Basi c Size	Limit deviatio n	Basi c Size	Limit deviatio n	Basic Size	Limit deviatio n	Basi c Size	Limit deviatio n				
710	4~1 6	140 0	± 2. 0	180 0	± 2. 0	53 0	± 4. 2	20 0	± 0.0	35 0	± 0.7 0	45 0	-0.06 2	18 5	0 -0.3	710	0 -1.5	56	+0.6 2	950	132 0	250 0	320 0
800	4~1 6	160 0	8	200 0	8	0		22 0	46 ± 0.0	0	0	50	20 3	800		109 0		142 0		270 0	350 0		
900	4~1 6	180 0	± 3. 5	224 0	± 3. 5	60 0		25 0	17	41 0	± 0.7 7	56 0	-0.07 4	23 0		900		121 0		152 0	290 0	380 0	
1000	4~1 6	200 0		250 0		28 0		52 ± 0.0 20	47 0	63		26 0		100 0		140 0		162 0		320 0	410 0		

YKS series 6kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances mm																		Boundary dimensions mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		Basic Size	Limit deviatio n	Basic Size	Limit deviatio n	Basi c Size	Limit deviatio n	Bas i c Size	Limit deviation	Bas i c Size	Limit deviation	Bas i c Size	Limit deviatio n	Bas i c Size	Limit deviatio n	Basic Size	Limit deviatio n	Basi c Size	Limit deviatio n				
710	4~1 6	140 0	± 2. 0	180 0	± 2. 0	53 0	± 4. 2	20 0	± 0.0	35	± 0.7	45 0	-0.06	18 5	0 -0.3	710	0 -1.5	56	+0.6 2	950	132 0	250 0	320 0
800	4~1 6	160 0	8	200 0	8	0		22 0	46 ± 0.0	0	0	50	2	20 3		800		109 0		142 0	270 0	350 0	
900	4~1 6	180 0	± 3. 5	224 0	± 3. 5	60 0		25 0	17	41 0	56 0	± 0.7 7	63	-0.07 4		23 0		900		121 0	152 0	290 0	380 0
1000	4~1 6	200 0		250 0		28 0		52 ± 0.0 20	47 0	26 0						100 0		140 0		162 0	320 0	410 0	

YKK 6kV series large sized asynchronous electric motor technical data

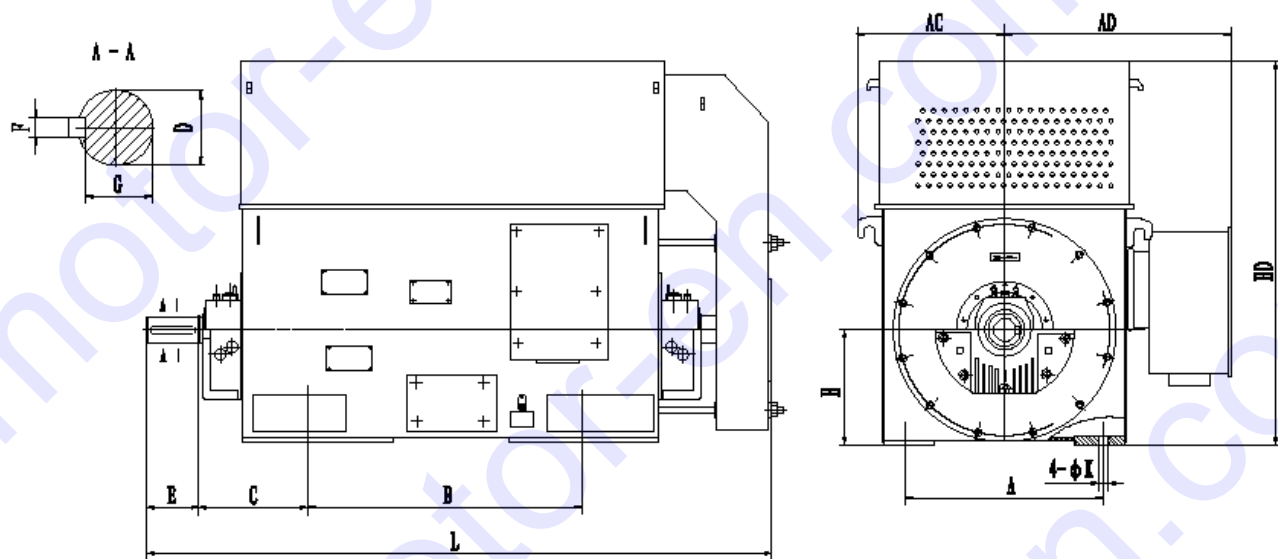
Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Weight (kg)
YKK710 1-4	2500	270.8	1500	96.67	0.919	1.8	0.5	6.5	12600
YKK710 2-4	2800	302.6	1500	96.68	0.921	1.8	0.5	6.5	13100
YKK710 3-4	3150	339	1500	96.72	0.924	1.8	0.5	6.5	13600
YKK710 4-4	3550	382	1500	96.71	0.925	1.8	0.5	6.5	14100
YKK800 1-4	4000	449	1500	96.73	0.886	1.8	0.5	6.5	16450
YKK800 2-4	4500	504	1500	96.77	0.888	1.8	0.5	6.5	17000
YKK800 3-4	5000	558	1500	96.81	0.890	1.8	0.5	6.5	17700
YKK900 1-4	5600	626	1500	96.57	0.891	1.8	0.5	6.5	21500
YKK900 2-4	6300	701	1500	96.58	0.895	1.8	0.5	6.5	22800
YKK900 3-4	7100	789	1500	96.62	0.896	1.8	0.5	6.5	23600
YKK710 1-6	1800	199	1000	96.28	0.903	1.8	0.6	6.5	12500
YKK710 2-6	2000	221	1000	96.40	0.903	1.8	0.6	6.5	13000
YKK710 3-6	2240	247	1000	96.51	0.904	1.8	0.6	6.5	13500
YKK710 4-6	2500	275	1000	96.56	0.906	1.8	0.6	6.5	14100
YKK800 1-6	2800	322	1000	96.27	0.869	1.8	0.6	6.5	16500
YKK800 2-6	3150	362	1000	96.31	0.869	1.8	0.6	6.5	17670
YKK800 3-6	3550	406	1000	96.42	0.873	1.8	0.6	6.5	18120
YKK800 4-6	4000	455	1000	96.49	0.877	1.8	0.6	6.5	18460
YKK900 1-6	4500	511	1000	96.56	0.877	1.8	0.6	6.5	22800
YKK900 2-6	5000	566	1000	96.68	0.879	1.8	0.6	6.5	23760
YKK900 3-6	5600	631	1000	96.77	0.882	1.8	0.6	6.5	25000
YKK1000 1-6	6300	715	1000	96.66	0.878	1.8	0.6	6.5	32080
YKK1000 2-6	7100	806	1000	96.69	0.879	1.8	0.6	6.5	33800
YKK1000 3-6	8000	905	1000	96.72	0.882	1.8	0.6	6.5	34950
YKK710 1-8	1400	161.5	750	95.87	0.870	1.8	0.6	6.5	12680
YKK710 2-8	1600	184.0	750	95.93	0.872	1.8	0.6	6.5	13890
YKK710 3-8	1800	206.4	750	96.12	0.873	1.8	0.6	6.5	14450
YKK800 1-8	2000	235.3	750	95.68	0.855	1.8	0.6	6.5	16500
YKK800 2-8	2240	259.7	750	96.73	0.858	1.8	0.6	6.5	17120
YKK800 3-8	2500	292.4	750	95.78	0.859	1.8	0.6	6.5	18890
YKK800 4-8	2800	325.8	750	95.81	0.863	1.8	0.6	6.5	19180
YKK900 1-8	3150	366.9	750	95.82	0.862	1.8	0.6	6.5	22500
YKK900 2-8	3550	413.0	750	95.84	0.863	1.8	0.6	6.5	23850
YKK900 3-8	4000	465.3	750	95.85	0.863	1.8	0.6	6.5	24660
YKK1000 1-8	4500	518	750	96.15	0.871	1.8	0.6	6.5	32580
YKK1000 2-8	5000	575	750	96.23	0.875	1.8	0.6	6.5	33120
YKK1000 3-8	5600	645	750	96.35	0.877	1.8	0.6	6.5	34900
YKK1000 4-8	6300	725	750	96.42	0.880	1.8	0.6	6.5	35450

YKK 6kV series large sized asynchronous electric motor technical data

Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Weight (kg)
YKK710 1-10	1250	148.6	600	95.22	0.850	1.8	0.6	6.0	12800
YKK710 2-10	1400	165.3	600	95.31	0.853	1.8	0.6	6.0	13250
YKK710 3-10	1600	188.9	600	95.33	0.855	1.8	0.6	6.0	14300
YKK800 1-10	1800	219.4	600	95.35	0.855	1.8	0.6	6.0	16800
YKK800 2-10	2000	227.5	600	95.37	0.857	1.8	0.6	6.0	17500
YKK800 3-10	2240	263.3	600	95.38	0.858	1.8	0.6	6.0	18000
YKK900 1-10	2500	299.1	600	95.40	0.843	1.8	0.6	6.0	22800
YKK900 2-10	2800	333.2	600	95.47	0.847	1.8	0.6	6.0	23580
YKK900 3-10	3150	364.3	600	95.52	0.848	1.8	0.6	6.0	24500
YKK900 4-10	3550	412.8	600	95.58	0.848	1.8	0.6	6.0	25570
YKK1000 1-10	4000	473	600	95.78	0.850	1.8	0.6	6.0	31870
YKK1000 2-10	4500	532	600	95.80	0.853	1.8	0.6	6.0	32920
YKK1000 3-10	5000	591	600	95.82	0.855	1.8	0.6	6.0	33055
YKK1000 3-10	5600	662	600	95.84	0.857	1.8	0.6	6.0	34890
YKK710 1-12	900	111.9	500	94.55	0.818	1.8	0.6	6.0	11450
YKK710 2-12	1000	124.3	500	94.58	0.819	1.8	0.6	6.0	12800
YKK710 3-12	1120	139.8	500	94.59	0.823	1.8	0.6	6.0	13200
YKK800 1-12	1250	155.4	500	94.63	0.805	1.8	0.6	6.0	16210
YKK800 2-12	1400	175.0	500	94.72	0.809	1.8	0.6	6.0	17230
YKK800 3-12	1600	198.6	500	94.75	0.811	1.8	0.6	6.0	18620
YKK800 4-12	1800	223.2	500	94.81	0.813	1.8	0.6	6.0	19560
YKK900 1-12	2000	248.3	500	94.90	0.812	1.8	0.6	6.0	22500
YKK900 2-12	2240	278.8	500	95.02	0.816	1.8	0.6	6.0	22900
YKK900 3-12	2500	307.5	500	95.15	0.820	1.8	0.6	6.0	23500
YKK1000 1-12	2800	348	500	95.30	0.812	1.8	0.6	6.0	31050
YKK1000 2-12	3150	392	500	95.34	0.825	1.8	0.6	6.0	32320
YKK1000 3-12	3550	440	500	95.42	0.817	1.8	0.6	6.0	34380
YKK710 1-16	500	70.5	375	93.21	0.732	1.8	0.6	6.0	11800
YKK710 2-16	560	77.9	375	93.33	0.741	1.8	0.6	6.0	12340
YKK710 3-16	630	85.9	375	93.43	0.755	1.8	0.6	6.0	12890
YKK710 4-16	710	96.1	375	93.51	0.760	1.8	0.6	6.0	13300
YKK800 1-16	800	110.8	375	93.61	0.741	1.8	0.6	6.0	15120
YKK800 2-16	900	124.6	375	93.68	0.742	1.8	0.6	6.0	15800
YKK800 3-16	1000	137.4	375	93.72	0.747	1.8	0.6	6.0	16230
YKK800 4-16	1120	153.4	375	93.80	0.749	1.8	0.6	6.0	16890
YKK900 1-16	1250	170.7	375	93.95	0.750	1.8	0.6	6.0	21890
YKK900 2-16	1400	189.8	375	94.03	0.755	1.8	0.6	6.0	22990
YKK900 3-16	1600	215.8	375	94.12	0.758	1.8	0.6	6.0	23680
YKK1000 1-16	1800	244	375	94.23	0.755	1.8	0.6	6.0	30580
YKK1000 2-16	2000	272	375	94.35	0.758	1.8	0.6	6.0	31495
YKK1000 3-16	2240	304	375	94.50	0.760	1.8	0.6	6.0	32750

Note: Whole data in table are guarantee values.

YKK series 6kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances mm																		Boundary dimensions mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation				
		n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n				
710	4~1	140	± 2.0	180	± 2.0	53	± 0.0	20	± 0.0	35	± 0.7	45	0	18	5	710	0	56	0	950	132	270	350
800	4~1	160	8	200	8	0	± 0.0	22	46	0	0	50	-0.06	20	3	800	0	56	0	109	142	300	390
900	4~1	180	± 3.0	224	± 3.0	± 4.2	± 0.0	25	17	41	± 0.7	56	0	23	0	900	0	+0.6	0	121	152	325	400
1000	4~1	200	5	250	5	60	± 0.0	28	52	47	7	63	-0.07	26	4	1000	0	66	0	140	162	365	480

Note: Technical data and external mounting dimensions are for reference only. Changes are subject to change without prior notice

Y(IP23) , YKS (IP44) 10kV series large sized asynchronous electric motor technical data

Type	Output kW	Stator current (A)	RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Load rotating inertia kg.m ²	Weight (kg)	
										Y	YKS
Y710 1-4	2500	175	1500	95.8	0.86	1.8	0.5	6.5	500	11000	11600
Y710 2-4	2800	196	1500	95.9	0.86	1.8	0.5	6.5	580	11500	12100
Y710 3-4	3150	220	1500	96.0	0.86	1.8	0.5	6.5	670	12000	12600
Y710 4-4	3550	248	1500	96.1	0.86	1.8	0.5	6.5	780	12500	13100
Y800 1-4	4000	276	1500	96.2	0.87	1.8	0.5	6.5	800	13000	14000
Y800 2-4	4500	310	1500	96.2	0.87	1.8	0.5	6.5	850	13500	14500
Y800 3-4	5000	345	1500	96.3	0.87	1.8	0.5	6.5	900	14000	15000
Y800 4-4	5600	386	1500	96.3	0.87	1.8	0.5	6.5	930	14800	15800
Y900 1-4	6300	434	1500	96.4	0.87	1.8	0.5	6.5	1150	16000	17300
Y900 2-4	7100	488	1500	96.5	0.87	1.8	0.5	6.5	1200	17000	18300
Y900 3-4	8000	550	1500	96.6	0.87	1.8	0.5	6.5	1300	18000	19300
Y1000 1-4	9000	618	1500	96.7	0.87	1.8	0.5	6.5	1380	19500	20800
Y1000 7-4	10000	685	1500	96.8	0.87	1.8	0.5	6.5	1450	21000	22300
Y710 1-6	2000	144	1000	95.5	0.84	1.8	0.6	6.5	1200	11500	12800
Y710 2-6	2240	161	1000	95.6	0.84	1.8	0.6	6.5	1300	12000	13300
Y710 3-6	2500	180	1000	95.7	0.84	1.8	0.6	6.5	1400	12500	13800
Y800 1-6	2800	201	1000	95.8	0.84	1.8	0.6	6.5	2250	13500	14800
Y800 7-6	3150	228	1000	95.9	0.84	1.8	0.6	6.5	2400	14300	15600
Y00 3-6	3550	254	1000	96.0	0.84	1.8	0.6	6.5	2520	15000	16300
Y900 1-6	4000	286	1000	96.1	0.84	1.8	0.6	6.5	2850	15500	16800
Y900 2-6	4500	314	1000	96.1	0.84	1.8	0.6	6.5	3200	16000	17300
Y900 3-6	5000	349	1000	96.2	0.86	1.8	0.6	6.5	3550	17000	18300
Y900 4-6	5600	391	1000	96.2	0.86	1.8	0.6	6.5	4000	18000	19300
Y1000 1-6	6300	439	1000	96.3	0.86	1.8	0.6	6.5	4200	19000	20300
Y1000 2-6	7100	495	1000	96.4	0.86	1.8	0.6	6.5	4600	19800	21100
Y1000 3-6	8000	557	1000	96.5	0.86	1.8	0.6	6.5	5000	21000	22300
Y710 1-8	1400	104	750	94.9	0.82	1.8	0.6	6.5	1750	11500	12800
Y710 2-8	1600	118	750	95.0	0.82	1.8	0.6	6.5	2000	12000	13300
Y710 3-8	1800	133	750	95.1	0.82	1.8	0.6	6.5	2250	12500	13800
Y800 1-8	2000	146	750	95.2	0.83	1.8	0.6	6.5	3000	13500	14800
Y800 2-8	2240	163	750	95.3	0.83	1.8	0.6	6.5	3400	14000	15300
Y800 3-8	2500	182	750	95.4	0.83	1.8	0.6	6.5	3750	14500	15800
Y800 4-8	2800	204	750	95.5	0.83	1.8	0.6	6.5	4200	15000	16300
Y900 1-8	3150	226	750	95.6	0.84	1.8	0.6	6.0	4700	17000	18300
Y900 2-8	3550	255	750	95.7	0.84	1.8	0.6	6.0	5300	18000	19300
Y1000 1-8	4000	287	750	95.8	0.84	1.8	0.6	6.0	5600	18500	19800
Y1000 2-8	4500	322	750	95.9	0.84	1.8	0.6	6.0	6200	19500	20800
Y1000 3-8	5000	358	750	96.0	0.84	1.8	0.6	6.0	7000	20500	21800

Y(IP23) , YKS (IP44) 10kV series large sized asynchronous electric motor technical data

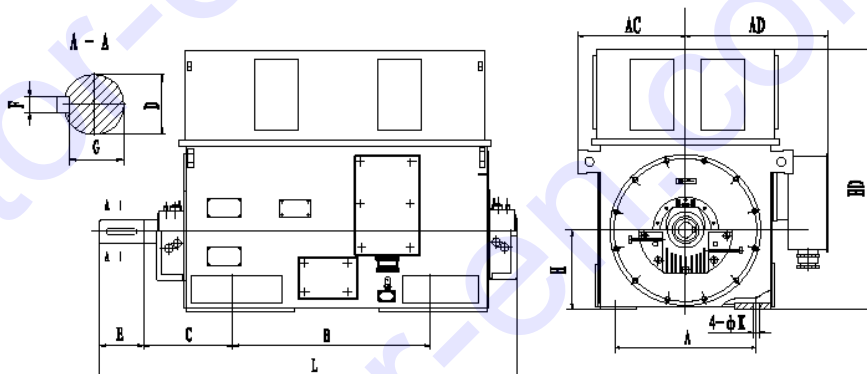
Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Load rotating inertia kg.m ²	Weight (kg)	
										Y	YKS
Y710 1-10	1250	94	600	94.5	0.81	1.8	0.6	6.0	3650	11500	12800
Y710 2-10	1400	105	600	94.6	0.81	1.8	0.6	6.0	4100	12000	13300
Y710 3-10	1600	120	600	94.7	0.81	1.8	0.6	6.0	4650	12500	13800
Y800 1-10	1800	134	600	94.8	0.82	1.8	0.6	6.0	5250	14000	15300
Y800 2-10	2000	148	600	94.9	0.82	1.8	0.6	6.0	5830	14500	15800
Y800 3-10	2240	166	600	95.0	0.82	1.8	0.6	6.0	6230	15000	16300
Y900 1-10	2500	185	600	95.1	0.82	1.8	0.6	6.0	6500	17000	18300
Y900 2-10	2800	207	600	95.2	0.82	1.8	0.6	6.0	7000	18000	19300
Y1000 1-10	3150	230	600	95.3	0.83	1.8	0.6	6.0	7500	19500	20800
Y1000 2-10	3550	259	600	95.4	0.83	1.8	0.6	6.0	8200	20500	21800
Y710 1-12	900	71	500	94.0	0.78	1.8	0.6	6.0	3700	11000	12300
Y710 2-12	1000	79	500	94.1	0.78	1.8	0.6	6.0	4500	11500	12800
Y710 3-12	1120	88	500	94.2	0.78	1.8	0.6	6.0	5200	12000	13300
Y800 1-12	1250	98	500	94.3	0.78	1.8	0.6	6.0	5800	13000	14300
Y800 2-12	1400	110	500	94.3	0.78	1.8	0.6	6.0	6300	14000	15300
Y800 3-12	1600	125	500	94.4	0.78	1.8	0.6	6.0	7200	15000	16300
Y900 1-12	1800	139	500	94.5	0.79	1.8	0.6	6.0	7800	15500	16800
Y900 2-12	2000	154	500	94.6	0.79	1.8	0.6	6.0	8600	16000	17300
Y900 3-12	2240	173	500	94.7	0.79	1.8	0.6	6.0	9500	17000	18300
Y900 4-12	2500	190	500	94.8	0.79	1.8	0.6	6.0	10400	18500	19800
Y1000 1-12	2800	213	500	94.9	0.80	1.8	0.6	6.0	11400	19000	20300
Y1000 2-12	3150	239	500	95.0	0.80	1.8	0.6	6.0	12700	19500	20800
Y1000 3-12	3550	269	500	95.1	0.80	1.8	0.6	6.0	14000	20500	21800
Y710 1-16	500	43	375	92.8	0.72	1.8	0.6	6.0	3500	10500	11800
Y710 2-16	560	48	375	92.9	0.72	1.8	0.6	6.0	4400	11000	12300
Y710 3-16	630	54	375	93.0	0.72	1.8	0.6	6.0	5000	11500	12800
Y710 4-16	710	61	375	93.1	0.72	1.8	0.6	6.0	5700	12000	13300
Y800 1-16	800	68	375	93.2	0.73	1.8	0.6	6.0	6500	13000	14300
Y800 2-16	900	76	375	93.3	0.73	1.8	0.6	6.0	7500	13700	15000
Y800 3-16	1000	85	375	93.4	0.73	1.8	0.6	6.0	8500	14500	15800
Y800 4-16	1120	95	375	93.5	0.73	1.8	0.6	6.0	9500	15000	16300
Y900 1-16	1250	106	375	93.6	0.73	1.8	0.6	6.5	10200	15500	16800
Y900 2-16	1400	118	375	93.7	0.73	1.8	0.6	6.5	11800	16500	17800
Y900 3-16	1600	135	375	93.8	0.73	1.8	0.6	6.5	13800	17000	18300
Y1000 1-16	1800	150	375	93.9	0.74	1.8	0.6	6.5	15000	18500	19800
Y1000 2-16	2000	166	375	94.0	0.74	1.8	0.6	6.5	16500	19000	20300
Y1000 3-16	2240	186	375	94.1	0.74	1.8	0.6	6.5	18500	19500	20800
Y1000 4-16	2500	207	375	94.2	0.74	1.8	0.6	6.5	21000	20500	21800

Note: Whole data in table are guarantee values.

Dimensions

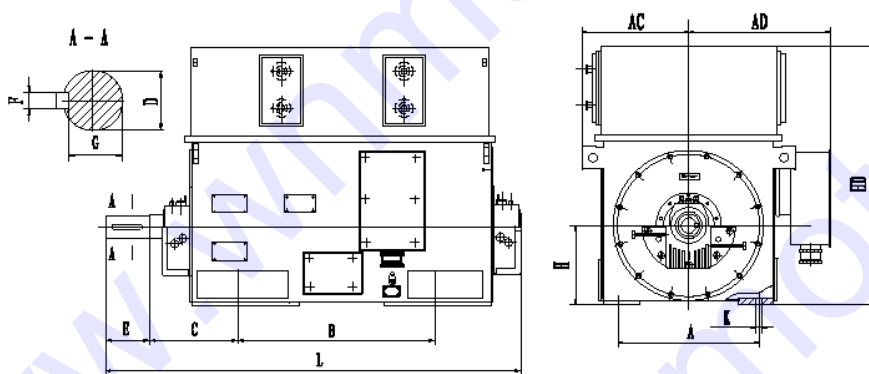
mm

Y series 10kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances																		Boundary dimensions			
		mm																		mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation				
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0	710	0	56	+0.62	950	1320	2500	3200
800	4~16	1600		2000				220				50		203		800				1090	1420	2700	3500
900	4~16	1800	± 3.5	2240	± 3.5	600	± 4.2	250	± 0.017	410	± 0.77	56	0	230	-0.3	900	-1.5	66	+0.62	1210	1520	2900	3800
1000	4~16	2000		2500				280				63		260		1000				1400	1620	3200	4100

YKS series 10kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances																		Boundary dimensions			
		mm																		mm			
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation				
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0	710	0	56	+0.62	950	1320	2500	3200
800	4~16	1600		2000				220				50		203		800				1090	1420	2700	3500
900	4~16	1800	± 3.5	2240	± 3.5	600	± 4.2	250	± 0.017	410	± 0.77	56	0	230	-0.3	900	-1.5	66	+0.62	1210	1520	2900	3800
1000	4~16	2000		2500				280				63		260		1000				1400	1620	3200	4100

YKK 10kV series large sized asynchronous electric motor technic data

Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Weight (kg)
YKK710 1-4	2240	154.6	1500	95.91	0.872	1.8	0.5	6.5	11200
YKK710 2-4	2500	171.8	1500	95.99	0.875	1.8	0.5	6.5	13500
YKK710 3-4	2800	191.5	1500	96.02	0.879	1.8	0.5	6.5	14000
YKK710 4-4	3150	215.7	1500	96.11	0.877	1.8	0.5	6.5	14650
YKK800 1-4	3550	244.3	1500	95.87	0.875	1.8	0.5	6.5	15100
YKK800 2-4	4000	275.6	1500	95.99	0.876	1.8	0.5	6.5	15650
YKK800 3-4	4500	308.4	1500	96.05	0.880	1.8	0.5	6.5	16200
YKK800 4-4	5000	340.5	1500	96.11	0.882	1.8	0.5	6.5	16780
YKK900 1-4	5600	383	1500	96.21	0.877	1.8	0.5	6.5	17320
YKK900 2-4	6300	430	1500	96.30	0.879	1.8	0.5	6.5	17890
YKK900 3-4	7100	483	1500	96.42	0.881	1.8	0.5	6.5	18250
YKK710 1-6	1800	129.7	1000	95.28	0.841	1.8	0.8	6.5	11200
YKK710 2-6	2000	144	1000	95.52	0.843	1.8	0.8	6.5	12400
YKK710 3-6	2240	161	1000	95.67	0.847	1.8	0.8	6.5	12850
YKK800 1-6	2500	181	1000	95.72	0.842	1.8	0.8	6.5	13350
YKK800 2-6	2800	201	1000	95.81	0.847	1.8	0.8	6.5	13830
YKK800 3-6	3150	229	1000	95.94	0.845	1.8	0.8	6.5	14125
YKK900 1-6	3550	254	1000	96.12	0.847	1.8	0.8	6.5	18050
YKK900 2-6	4000	286	1000	96.15	0.849	1.8	0.8	6.5	20000
YKK900 3-6	4500	314	1000	96.19	0.851	1.8	0.8	6.5	22400
YKK900 4-6	5000	351	1000	96.20	0.855	1.8	0.8	6.5	26500
YKK1000 1-6	5600	362	1000	96.30	0.860	1.8	0.6	6.5	27050
YKK1000 2-6	6300	412	1000	96.42	0.866	1.8	0.6	6.5	27990
YKK1000 3-6	7100	457	1000	96.55	0.867	1.8	0.6	6.5	28540
YKK710 1-8	1250	88.7	750	94.53	0.825	1.8	0.6	6.5	12500
YKK710 2-8	1400	105	750	94.75	0.828	1.8	0.6	6.5	13100
YKK710 3-8	1600	119	750	94.92	0.829	1.8	0.6	6.5	13650
YKK800 1-8	1800	134	750	95.11	0.830	1.8	0.6	6.5	14430
YKK800 2-8	2000	147	750	95.18	0.833	1.8	0.6	6.5	15570
YKK800 3-8	2240	164	750	95.25	0.837	1.8	0.6	6.5	16280
YKK900 1-8	2500	183	750	95.37	0.839	1.8	0.6	6.5	16790
YKK900 2-8	2800	205	750	95.42	0.842	1.8	0.6	6.5	18500
YKK900 3-8	3150	224	750	95.48	0.846	1.8	0.6	6.5	19870
YKK1000 1-8	3550	243	750	95.62	0.840	1.8	0.6	6.5	20105
YKK1000 2-8	4000	271	750	95.67	0.842	1.8	0.6	6.5	20980
YKK1000 3-8	4500	302	750	95.68	0.846	1.8	0.6	6.5	21565

YKK 10kV series large sized asynchronous electric motor technical data

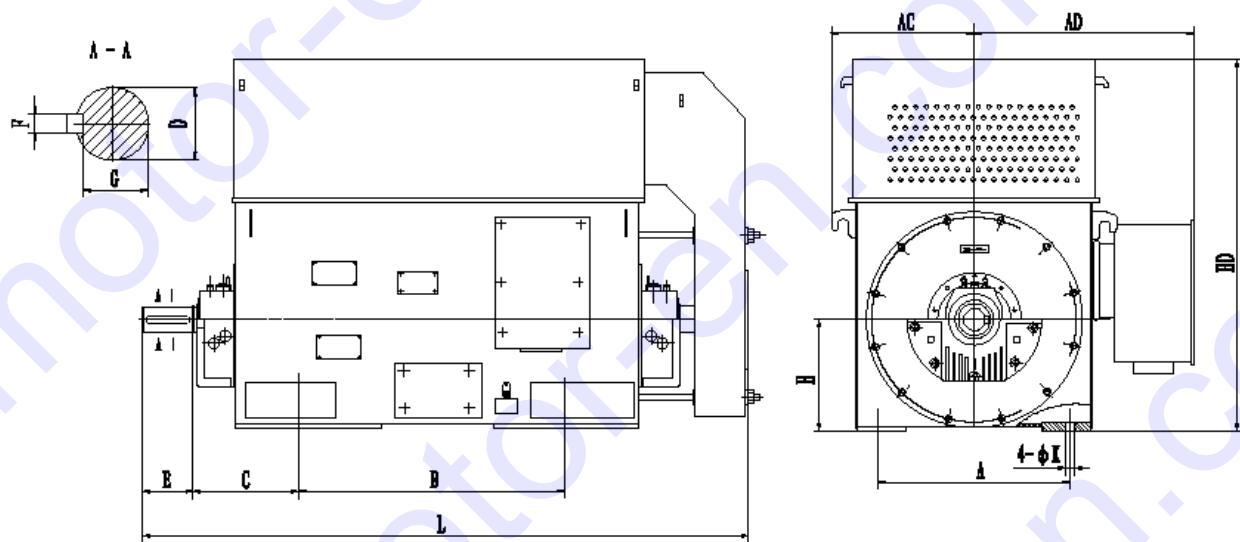
Type	Output (kW)	Stator current (A)	Synchronous RPM (r/min)	Eff. (%)	P.F CosΦ	$\frac{T_m}{T_n}$	$\frac{T_{st}}{T_n}$	$\frac{I_{st}}{I_n}$	Weight (kg)
YKK710 1-10	1120	85.2	600	94.63	0.802	1.8	0.6	6.0	12000
YKK710 2-10	1250	93.7	600	94.68	0.813	1.8	0.6	6.0	12540
YKK710 3-10	1400	104.7	600	94.69	0.815	1.8	0.6	6.0	13200
YKK800 1-10	1600	119.2	600	94.70	0.818	1.8	0.6	6.0	15000
YKK800 2-10	1800	133.4	600	94.75	0.822	1.8	0.6	6.0	16500
YKK800 3-10	2000	147.6	600	94.81	0.825	1.8	0.6	6.0	18230
YKK900 1-10	2240	165.6	600	94.90	0.823	1.8	0.6	6.0	21500
YKK900 2-10	2500	183.5	600	95.07	0.827	1.8	0.6	6.0	23550
YKK900 3-10	2800	205.1	600	95.12	0.829	1.8	0.6	6.0	25050
YKK1000 1-10	3150	218	600	95.35	0.835	1.8	0.6	6.0	25980
YKK1000 2-10	3550	243	600	95.42	0.838	1.8	0.6	6.0	26535
YKK710 1-12	800	64.8	500	94.00	0.758	1.8	0.6	6.0	11500
YKK710 2-12	900	72.8	500	94.23	0.776	1.8	0.6	6.0	12500
YKK710 3-12	1000	78.0	500	94.35	0.781	1.8	0.6	6.0	13100
YKK800 1-12	1120	87.9	500	94.31	0.780	1.8	0.6	6.0	15200
YKK800 2-12	1250	97.8	500	94.35	0.782	1.8	0.6	6.0	16000
YKK800 3-12	1400	109	500	94.38	0.785	1.8	0.6	6.0	16850
YKK900 1-12	1600	123.5	500	94.43	0.792	1.8	0.6	6.0	19500
YKK900 2-12	1800	137.8	500	94.50	0.798	1.8	0.6	6.0	20800
YKK900 3-12	2000	152.8	500	94.57	0.799	1.8	0.6	6.0	22000
YKK1000 1-12	2240	167	500	94.60	0.803	1.8	0.6	6.0	22500
YKK1000 2-12	2500	184	500	94.68	0.808	1.8	0.6	6.0	22750
YKK1000 3-12	2800	205	500	94.80	0.810	1.8	0.6	6.0	22980
YKK1000 4-12	3150	230	500	94.85	0.814	1.8	0.6	6.0	23355
YKK710 1-16	500	43.6	375	92.83	0.722	1.8	0.6	6.0	13000
YKK710 2-16	560	48.8	375	92.86	0.725	1.8	0.6	6.0	13850
YKK710 3-16	630	54.7	375	92.89	0.729	1.8	0.6	6.0	14700
YKK800 1-16	710	60.2	375	93.11	0.731	1.8	0.6	6.0	15400
YKK800 2-16	800	67.3	375	93.23	0.736	1.8	0.6	6.0	16500
YKK800 3-16	900	75.6	375	93.24	0.737	1.8	0.6	6.0	17700
YKK800 4-16	1000	83.8	375	93.43	0.737	1.8	0.6	6.0	18500
YKK900 1-16	1120	94.1	375	93.53	0.735	1.8	0.6	6.0	18900
YKK900 2-16	1250	105	375	93.61	0.735	1.8	0.6	6.0	20500
YKK900 3-16	1400	117	375	93.70	0.739	1.8	0.6	6.0	21500
YKK1000 1-16	1600	128	375	94.00	0.740	1.8	0.6	6.0	22050
YKK1000 2-16	1800	133	375	94.12	0.745	1.8	0.6	6.0	22375
YKK1000 3-16	2000	148	375	94.22	0.748	1.8	0.6	6.0	22660

Note: Whole data in table are guarantee values.

Dimensions

mm

YKK series 10kV large sized asynchronous motor overall and mounting dimensions figure



F R A M E	P O L E	Mounting dimensions and tolerances																		Boundary dimensions					
		mm																		mm					
		A		B		C ^a		D		E		F		G		H		K		AC	AD	HD	L		
		Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation	Basic Size	Limit deviation						
710	4~16	1400	± 2.8	1800	± 2.8	530	± 4.2	200	± 0.046	350	± 0.70	45	0	185	0 -0.3	710	0 -1.5	56 66	+0.62	950	1320	2700	3500		
800	4~16	1600		2000				220				± 0.017	50	-0.062		203				800	1090	1420	3000	3900	
900	4~16	1800	± 3.5	2240	± 3.5			600	250	± 0.052 ± 0.020	410	± 0.77	56	0		230				900	1000	1210	1520	3250	4000
1000	4~16	2000		2500																		280	63	-0.074	260
Note: Technical data and external mounting dimensions are for reference only. Changes are subject to change without prior notice																									

Note: Technical data and external mounting dimensions are for reference only. Changes are subject to change without prior notice