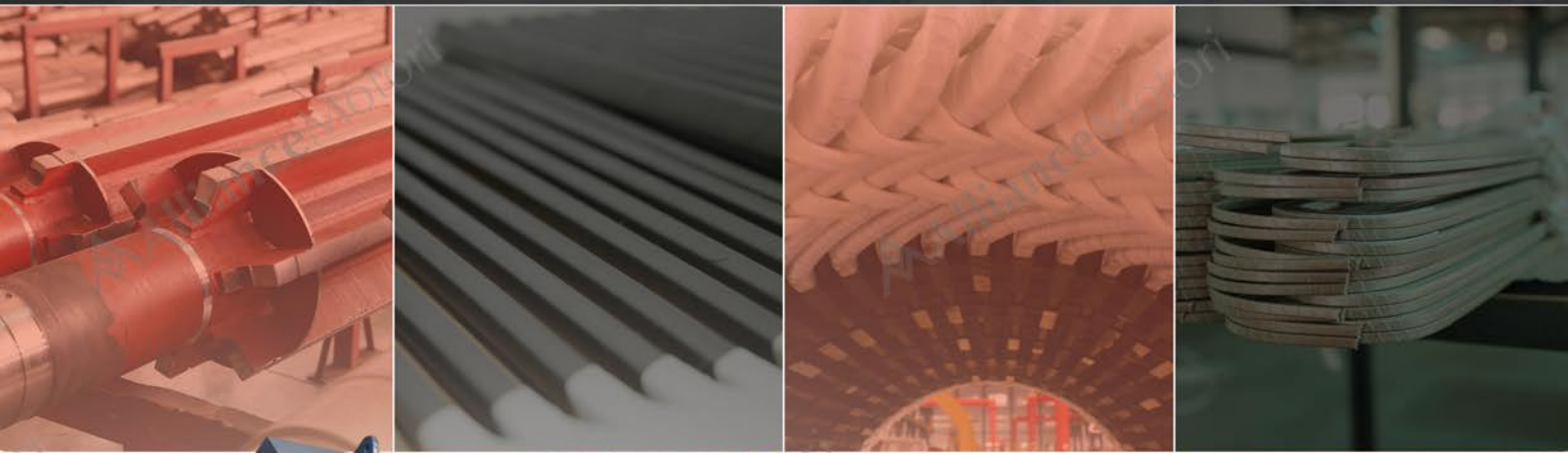


HEAVY INDUSTRY ELECTRIC MOTOR



AC High Voltage
A-YKK / A-YKS
SERIES



Medium/High Voltage Motor - Y

Summarize:

Y, YKK, YKS Series 10000V squirrel cage high voltage three phase asynchronous motor (400-1000mm), 6000V squirrel cage high voltage three phase asynchronous motor (355-1000mm) are general series product which our company recently promoted, its structure is reasonable, with advanced techniques, high efficiency, low noise, slight vibrates, reliable performance, easy installation and convenient maintenance, which is the ideal drive for variety of industrial fields.

the electric motor power rank, mounting dimensions and electrical specification all conform to national standards Gb755 and the IEC standard.

Frame Advantages:

The electric motor uses the box-type structure, its seats uses welded steel plate with light weight and good rigidity.

The YR series uses natural ventilation cooling, protection cap has been fixed on the top of the seats which is disassembled conveniently, with the advantage for the electric motor service.

YKK series is totally enclosed type with air to air cooler at the top of the motor.

YKS series is totally enclosed type with air to water cooler at the top of the motor.

The stator winding uses F Class heat-resisting insulation material, the ends bind reliably, have the good insulating ability and the mechanical strength after the VPI procedure.

The rotor uses reliable cast-aluminium or copper conductor squirrel cage structure. The bearing has two types--rolling bearing and sliding bearing, depends on rotary speed and power of the motor.

Application:

Our electric motor could be widely used to drive all variety of general machinery, for example compressor, water pump, air blower, breaker, cuts the engine bed, transport machinery and other mechanical devices. It could be used to make the prime mover in the mine, mechanical industry, power plant and other kinds of industry and mining enterprises. Please instruct when ordering the motor uses in driving air blower, coal mill, steel rolling mill and hoist.

Standard motor specification:

Voltage: 10000V, 6000V, 50Hz

Protection Class: Y series is IP23(IP44 is available if uses pipeline to ventilate) YKK, YKS series is Ip44 or Ip54.

Insulation Class: F

Working style: S1(continuously)

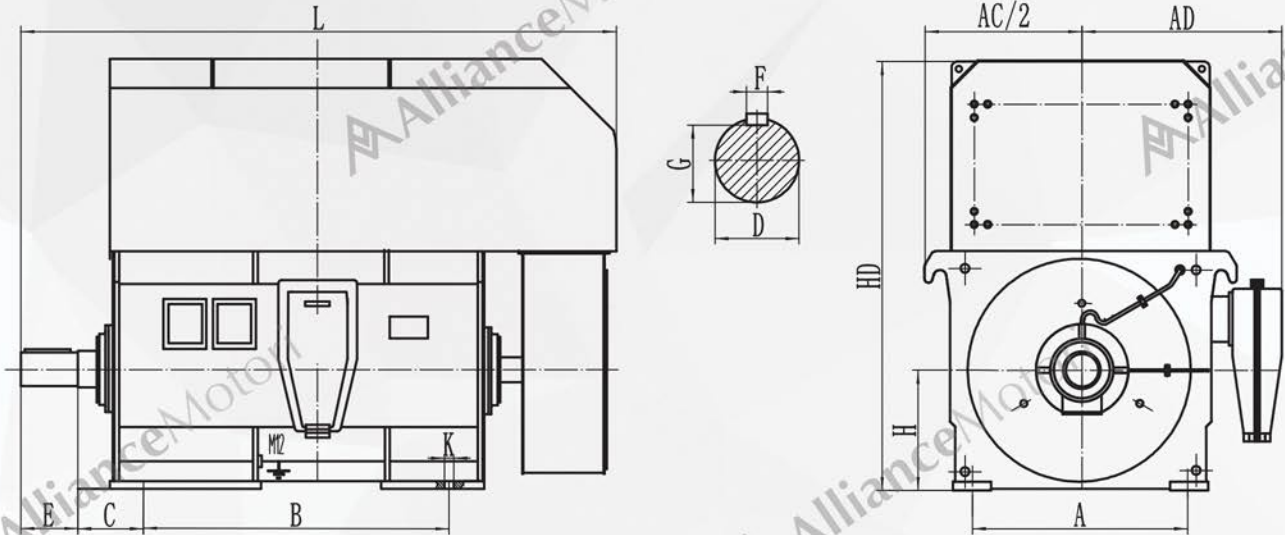
Cooling method: Y series is IC01(or IC11, IC21, IC31) YKK series is IC611, YKS series is IC81W

Mounting type: IMB3

Connection: Y(star type, three connectors in terminal box, terminal box is located at the right side of the motor frame viewing from the shaft extension end).

Medium/High Voltage Motor - Y

A-YKK series 6kV IP44/IP54/IP55 (H355-1000mm) IMB3 Outline and mounting dimensions table



IC611

mm

Frame	No. of poles	Mounting dimensions									Outline dimensions			
		A	B	C	D	E	F	G	H	K	AC	AD	HD	L
355	2	630	900	315	80	170	22	71	355	28	1120	1000	1500	2200
	100				210	28	90							
400	2	710	1000	375	90	170	25	81	400	35	1260	1050	1700	2400
	335			110	210	28	100							
450	2	800	1120	400	100	210	28	90	450	35	1420	1100	1900	2600
	4			120	210	32	109							
	6-12			355	130	250	32	119						
500	2	900	1250	560	110	210	28	100	500	42	1600	1150	2200	2900
	4			475	130	250	32	119						
	6-12			475	140	250	36	128						
560	2	1000	1400	560	130	250	32	119	560	42	1800	1250	2400	3200
	4			500	150	300	36	138						
	6-12			500	160	300	40	147						
630	2	1120	1600	560	140	250	36	128	630	48	2000	1300	2700	3500
	4			530	170	300	40	157						
	6-12			530	180	300	45	165						
710	4-12	1400	1800	530	200	350	45	185	710	56	1924	1270	2750	3650
800	4-12	1600	2000	(355)	220	350	50	203	800	56	2140	1420	2850	3700
900	4-12	1800	2240	600	250	410	56	230	900	66	2360	1650	2900	3750
1000	4-12	2000	2500	600	280	470	63	260	1000	66	2700	1800	2950	3800

Note 1: When using sliding bearings, the C dimension deviation of ± 4.0 does not include axial movement. Frame sizes 900-1000 are supplied with sliding bearings.

Note 2: The dimensions shown in the figure are for reference only. The actual dimensions and installation dimensions provided by the manufacturer shall prevail when ordering.

Note 3: Rolling bearing structure products are available for frame sizes 710 (6P-16P) and 800 (8P-16P). In this case, the C dimension is referenced from the dimension in parentheses.

Medium/High Voltage Motor - Y

A-YKK series high voltage three phase asynchronous motor (H355-1000mm) 6kV technical specification

Model	Output	Synchronous Speed	Rated Current	Efficiency	Power Factor	Locked rotor current Multiple	Locked rotor Torque Multiple	Max.Torque Multiple
YKK450-10	185	600	25.9	91.7	0.75	5.5	0.8	1.8
	200		27.9	91.9				
	220		30.6	92.1				
	250		34.5	92.3				
	280		38.8	92.5				
YKK500-10	315	600	43.0	92.8	0.76	5.5	0.8	1.8
	355		48.3	93.0				
	400		54.2	93.3				
	450		61.0	93.4				
YKK560-10	500	600	65.9	93.6	0.78	6.0	0.7	1.8
	560		73.7	93.7				
	630		82.8	93.8				
	710		93.1	94.0				
YKK630-10	800	600	102.2	94.2	0.80	6.0	0.7	1.8
	900		114.8	94.3				
	1000		127.4	94.4				
	1120		142.4	94.6				
YKK710-10	1250	600	158.8	94.7	0.83	6.0	0.6	1.8
	1400		177.6	94.8				
	1600		195.3	95.0				
	1800		219.7	95.0				
YKK800-10	2000	600	243.8	95.1	0.83	6.0	0.6	1.8
	2240		272.8	95.2				
	2500		304.1	95.3				
	2800		340.3	95.4				
YKK900-10	3150	600	377.9	95.5	0.84	6.0	0.6	1.8
	3550		425.4	95.6				
	4000		478.8	95.7				
YKK1000-10	4500	600	538.1	95.8	0.84	6.0	0.6	1.8
	5000		597.9	95.8				
	5600		668.9	95.9				
YKK450-12	185	500	27.7	91.8	0.70	5.5	0.8	1.8
	200		29.9	92.0				
	220		31.9	92.2				
YKK500-12	250	500	36.1	92.5	0.72	5.5	0.8	1.8
	280		40.3	92.7				
	315		45.3	92.8				
	355		49.6	93.0				
	400		55.8	93.3				
YKK560-12	450	500	62.7	93.4	0.74	6.0	0.7	1.8
	500		69.4	93.7				
	560		75.6	93.8				
	630		84.9	93.9				
YKK630-12	710	500	95.6	94.0	0.76	6.0	0.7	1.8
	800		107.5	94.2				
	900		119.3	94.3				
	1000		132.5	94.3				
YKK710-12	1120	500	146.4	94.4	0.77	6.0	0.6	1.8
	1250		163.2	94.5				
	1400		182.6	94.6				
	1600		205.8	94.7				
YKK800-12	1800	500	231.5	94.7	0.78	6.0	0.6	1.8
	2000		257.0	94.8				
	2240		287.5	94.9				
	2500		316.5	95.0				
YKK900-12	2800	500	353.8	95.2	0.79	6.0	0.6	1.8
	3150		397.6	95.3				
	3550		447.6	95.4				
YKK1000-12	4000	500	503.8	95.5	0.80	6.0	0.6	1.8

Medium/High Voltage Motor - Y

A-YKK series high voltage three phase asynchronous motor (H355-1000mm) 6kV technical specification

Model	Output	Synchronous Speed	Rated Current	Efficiency	Power Factor	Locked rotor current Multiple	Locked rotor Torque Multiple	Max.Torque Multiple
YKK450-6	355	1000	43.9	93.7	0.83	6.0	0.7	1.8
	400		49.4	93.8				
	450		55.4	94.1				
	500		61.4	94.3				
YKK500-6	560	1000	68.0	94.4	0.84	6.0	0.7	1.8
	630		76.4	94.5				
	710		85.8	94.8				
	800		96.6	94.9				
YKK560-6	900	1000	107.2	95.0	0.85	6.5	0.7	1.8
	1000		119.0	95.1				
	1120		133.2	95.2				
YKK630-6	1250	1000	146.8	95.3	0.86	6.5	0.7	1.8
	1400		164.2	95.4				
	1600		187.5	95.5				
YKK710-6	1800	1000	210.7	95.6	0.86	6.5	0.6	1.8
	2000		233.8	95.7				
	2240		261.6	95.8				
YKK800-6	2500	1000	291.7	95.9	0.86	6.5	0.6	1.8
	2800		326.4	96.0				
	3150		366.8	96.1				
	3550		412.9	96.2				
YKK900-6	4000	1000	465.3	96.2	0.87	6.5	0.6	1.8
	4500		522.9	96.3				
	5000		581.0	96.3				
YKK1000-6	5600	1000	650.0	96.4	0.87	6.5	0.6	1.8
	6300		722.8	96.4				
	7100		813.8	96.5				
YKK400-8	8000	1000	916.0	96.6	0.87	6.5	0.6	1.8
	185		24.6	92.5				
	200		26.6	92.7				
YKK450-8	220	750	29.6	92.9	0.78	5.5	0.8	1.8
	250		32.7	93.0				
	280		36.6	93.2				
	315		41.0	93.4				
YKK500-8	355	750	46.2	93.5	0.79	5.5	0.8	1.8
	400		51.3	93.7				
	450		57.7	93.8				
YKK560-8	500	750	63.8	94.2	0.80	5.5	0.8	1.8
	560		71.4	94.4				
	630		78.2	94.5				
YKK630-8	710	750	88.0	94.6	0.82	6.0	0.7	1.8
	800		99.1	94.7				
	900		108.8	94.8				
YKK710-8	1000	750	120.7	94.9	0.84	6.0	0.7	1.8
	1120		135.1	95.0				
	1250		150.6	95.1				
	1400		168.6	95.1				
YKK800-8	1600	750	192.5	95.2	0.85	6.5	0.6	1.8
	1800		213.8	95.3				
	2000		237.3	95.4				
YKK900-8	2240	750	265.5	95.5	0.85	6.5	0.6	1.8
	2500		296.0	95.6				
	2800		331.2	95.7				
YKK1000-8	3150	750	372.2	95.8	0.86	6.5	0.6	1.8
	3350		419.5	95.8				
	4000		466.7	95.9				
YKK1000-8	4500	750	524.5	96.0	0.86	6.5	0.6	1.8
	5000		582.2	96.1				
	5600		651.4	96.2				
	6300		732.8	96.2				

Medium/High Voltage Motor - Y

A-YKK series high voltage three phase asynchronous motor (H355-1000mm) 6kV technical specification

Model	Output	Synchronous Speed	Rated Current	Efficiency	Power Factor	Locked rotor current Multiple	Locked rotor Torque Multiple	Max.Torque Multiple				
YKK355-2	220	3000	26.9	92.5	0.85	7.0	0.6	1.8				
	250		30.6	92.6								
	280		34.2	92.8								
	315		38.3	93.1								
YKK400-2	355	3000	42.5	93.4	0.86	7.0	0.6	1.8				
	400		47.7	93.7								
	450		53.5	94.0								
	500		59.3	94.2								
YKK450-2	560	3000	66.3	94.4	0.87	7.0	0.6	1.8				
	630		73.6	94.6								
	710		82.9	94.7								
	800		93.3	94.8								
YKK500-2	900	3000	104.8	95.0	0.88	7.0	0.6	1.8				
	1000		116.3	95.1								
	1120		130.3	95.2								
	1250		145.1	95.3								
YKK560-2	1400	3000	160.4	95.4	0.88	7.0	0.6	1.8				
	1600		183.2	95.5								
	1800		205.9	95.6								
	2000		228.5	95.7								
YKK630-2	2240	3000	255.7	95.8	0.88	7.0	0.6	1.8				
	2500		285.4	95.9								
	185		22.6	92.8					0.85	6.5	0.7	1.8
	200		24.4	92.9								
220	26.8	93.0										
250	30.4	93.1										
YKK400-4	280	1500	33.6	93.2	0.86	6.5	0.7	1.8				
	315		37.8	93.3								
	355		42.5	93.5								
	400		47.5	93.7								
YKK450-4	450	1500	53.6	93.9	0.86	6.5	0.7	1.8				
	500		59.9	94.0								
	560		66.5	94.2								
	630		74.6	94.4								
YKK500-4	710	1500	84.0	94.6	0.87	6.5	0.7	1.8				
	800		93.3	94.8								
	900		104.9	94.9								
	1000		116.4	95.0								
YKK560-4	1120	1500	130.3	95.1	0.88	6.5	0.6	1.8				
	1250		143.5	95.2								
	1400		160.5	95.3								
	1600		184.3	95.4								
YKK630-4	1800	1500	206.4	95.5	0.88	6.5	0.6	1.8				
	2000		228.9	95.6								
	2240		255.9	95.7								
	2500		281.6	96.0								
YKK710-4	2800	1500	315.0	96.1	0.89	6.5	0.5	1.8				
	3150		353.7	96.3								
	3550		398.6	96.3								
	4000		449.1	96.3								
YKK800-4	4500	1500	504.7	96.4	0.90	6.5	0.5	1.8				
	5000		554.6	96.4								
	5600		620.5	96.5								
	6300		698.0	96.5								
YKK900-4	7100	1500	785.8	96.6	0.90	6.5	0.5	1.8				
	8000		884.5	96.7								
	9000		994.1	96.8								
	185		23.5	92.4					0.82	6.0	0.7	1.8
200	25.3	92.6										
220	27.8	92.8										
250	31.5	93.0										
280	35.2	93.3										
YKK400-6	315	1000	39.5	93.5								

Medium/High Voltage Motor - Y

Correspondence between frame size, speed and power of A-YKK series 6kV motors

Base number		Speed r/min					
		2P-3000	4P-1500	6P-1000	8P-750	10P-600	12P-500
		Power kW					
355	1	220	185	—	—	—	—
	2	250	200	—	—	—	—
	3	280	220	—	—	—	—
	4	315	250	—	—	—	—
400	1	355	280	200	185	—	—
	2	400	315	220	200	—	—
	3	450	355	250	220	—	—
	4	500	400	280	—	—	—
	5	—	450	315	—	—	—
450	1	560	500	355	250	185	160
	2	630	560	400	280	200	185
	3	710	630	450	315	220	200
	4	800	710	500	355	250	220
	5	—	—	—	—	280	—
500	1	900	800	560	400	315	250
	2	1000	900	630	450	355	280
	3	1120	1000	710	500	400	315
	4	1250	1120	800	560	450	355
560	1	1400	1250	900	630	500	400
	2	1600	1400	1000	710	560	450
	3	1800	1600	1120	800	630	500
630	1	2000	1800	1250	900	710	560
	2	2240	2000	1400	1000	900	630
	3	2500	2240	1600	1120	1000	710
	4	—	—	—	1250	1120	800
710	1	—	2500	1800	1400	1250	900
	2	—	2800	2000	1600	1400	1000
	3	—	3150	2240	1800	1600	1120
	4	—	3550	2500	2000	1800	1250
800	1	—	4000	2800	2240	2000	1400
	2	—	4500	3150	2500	2240	1600
	3	—	5000	3550	2800	2500	1800
	4	—	—	4000	3150	2800	2000
900	1	—	5600	4500	3550	3150	2240
	2	—	6300	5000	4000	3550	2500
	3	—	7100	5600	4500	4000	2800
1000	1	—	—	6300	5000	4500	3150
	2	—	8000	7100	5600	5000	3550
	3	—	9000	8000	6300	5600	4000



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