

## YRKK series (H355-630) medium-sized high-voltage three-phase asynchronous motor



The YR series medium-sized 6kV wound-rotor three-phase asynchronous motors are a new series of products that our company has optimized and designed by introducing and assimilating advanced technology from Westinghouse Electric Corporation of the United States, combined with our decades of motor manufacturing experience. They are the updated and upgraded products of the old JR series.

The YR series medium-sized 10kV wound-rotor three-phase asynchronous motors are another new series of products meticulously developed by our company, based on the successful development of medium-sized 6kV wound-rotor three-phase asynchronous motors. These motors can be directly used in 10kV power grids. Compared to 6kV motors, they offer advantages such as simplified equipment, reliable operation, investment savings, and reduced energy consumption.

The rotor coils of the YR series motor utilize copper bars coated with Class F insulation material. Silver-copper brazing is employed for welding between coils, as well as between the outgoing copper bars and the coils, to ensure the reliability of the motor's operation.

The YR series motor adopts a box-type structure welded from steel plates, featuring light weight and good rigidity. It is equipped with a protective top cover on the top, which is easy to disassemble and maintain. The stator adopts an external press-fit structure, with stator windings having Class F insulation and VPI impregnation.

## YRKK 系列电动机型谱 (6kV)

## YRKK series motor model composition (6kV)

机座号 Frame		同步转速 r/min					
		1500	1000	750	600	500	
		功率 kW					
355	1	185	—	—	—	—	
	2	200					
	3	220					
400	1	250	185	—	—	—	
	2	280	200	—			
	3	315	220	—			
	4	355	250	185			
	5	400	280	200			
450	1	450	315	220	185		
	2	500	355	250	200		
	3	560	400	280	220		185
	4	630	450	315	250		200
500	1	710	500	355	280	220	
	2	800	560	400	315	250	
	3	900	630	450	355	280	
	4	1000	710	500	400	315	
560	1	—	—	560	450	—	
	2	1120	800	630	500	355	
	3	1250	900	710	560	400	
	4	1400	1000	800	630	450	
630	1	1600	1120	900	710	500	
	2	1800	1250	1000	800	560	
	3	2000	1400	1120	900	630	
	4	—	—	1250	1000	710	

备注：技术数据及外形安装尺寸供参考，如有变动将不另行通知。

## YRKK 系列电动机型谱 (10kV)

## YRKK series motor model composition (10kV)

机座号 Frame		同步转速 r/min				
		1500	1000	750	600	500
		功率 kW				
450	1	250	220	—	—	—
	2	280	250			
	3	315	280			
	4	355	315			
	5	400	355			
	6	450	(400)			
500	1	500	400	220	—	—
	2	560	450	250	—	
	3	630	500	280	220	
	4	710	560	315	250	
	5	800	(630)	355	280	
	6	—	—	400	315	
560	1	900	630	450	355	220
	2	1000	710	500	400	250
	3	1120	800	560	450	280
	4	—	900	630	500	315
	5	—	—	710	(560)	355
630	1	1250	1000	800	560	400
	2	1400	1120	900	630	450
	3	1600	1250	1000	710	500
	4	—	—	—	800	560

备注：技术数据及外形安装尺寸供参考，如有变动将不另行通知。

## YRKK ( IP44 ) ( IP54 ) 系列技术数据 ( 6kV )

## YRKK(IP44).(IP54) series technical data (6kV)

型号 Type	额定 功率 (kW)	定子 电流 (A)	转速 (r/min)	效率 (%)	功率 因数 CosΦ	最大转矩 额定转矩 $\frac{T_m}{T_n}$	转子 电压 (V)	转子 电流 (A)	电机 转动惯量 $J_m$ (kg.m <sup>2</sup> )	重量 (kg)
YRKK355 1-4	185	23.3	1490	92.0	0.83	1.8	267	438	5	1960
YRKK355 2-4	200	25.1	1490	92.2	0.83	1.8	286	439	5	2030
YRKK355 3-4	220	27.6	1490	92.4	0.83	1.8	306	452	6	2070
YRKK400 1-4	250	30.9	1490	92.7	0.84	1.8	337	465	8	2540
YRKK400 2-4	280	34.6	1490	92.8	0.84	1.8	362	484	8	2600
YRKK400 3-4	315	38.8	1490	92.9	0.84	1.8	392	501	9	2670
YRKK400 4-4	355	43.7	1490	93.0	0.84	1.8	428	516	10	2800
YRKK400 5-4	400	49.2	1490	93.2	0.84	1.8	458	544	11	2890
YRKK450 1-4	450	54.5	1490	93.4	0.85	1.8	648	433	15	3530
YRKK450 2-4	500	60.5	1490	93.6	0.85	1.8	713	435	16	3610
YRKK450 3-4	560	67.5	1490	93.9	0.85	1.8	792	437	17	3730
YRKK450 4-4	630	75.7	1490	94.2	0.85	1.8	866	448	18	3860
YRKK500 1-4	710	84.2	1490	94.3	0.86	1.8	737	595	31	4580
YRKK500 2-4	800	94.8	1490	94.4	0.86	1.8	798	618	33	4720
YRKK500 3-4	900	106.6	1490	94.5	0.86	1.8	872	635	36	4920
YRKK500 4-4	1000	118.3	1490	94.6	0.86	1.8	982	624	41	5230
YRKK560 2-4	1120	130.8	1490	94.7	0.87	1.8	1167	591	75	7170
YRKK560 3-4	1250	145.8	1490	94.8	0.87	1.8	1275	602	82	7390
YRKK560 4-4	1400	163.2	1490	94.9	0.87	1.8	1401	612	87	7620
YRKK630 1-4	1600	186.3	1490	95.0	0.87	1.8	1440	678	106	9600
YRKK630 2-4	1800	209.4	1490	95.1	0.87	1.8	1600	685	113	9980
YRKK630 3-4	2000	232.4	1490	95.2	0.87	1.8	1800	674	124	10380
YRKK400 1-6	185	23.6	990	91.9	0.82	1.8	271	432	13	2500
YRKK400 2-6	200	25.5	990	92.1	0.82	1.8	289	437	14	2540
YRKK400 3-6	220	27.9	990	92.3	0.82	1.8	310	447	15	2650
YRKK400 4-6	250	31.7	990	92.5	0.82	1.8	334	471	16	2720
YRKK400 5-6	280	35.5	990	92.6	0.82	1.8	362	486	16	2810
YRKK450 1-6	315	39.4	990	92.8	0.83	1.8	606	326	20	3460
YRKK450 2-6	355	44.3	990	93.0	0.83	1.8	661	335	21	3560
YRKK450 3-6	400	49.7	990	93.3	0.83	1.8	727	343	22	3690
YRKK450 4-6	450	55.9	990	93.4	0.83	1.8	808	346	24	3780
YRKK500 1-6	500	61.2	990	93.6	0.84	1.8	731	427	39	4460
YRKK500 2-6	560	68.4	990	93.8	0.84	1.8	849	410	44	4600
YRKK500 3-6	630	76.7	990	94.1	0.84	1.8	916	427	48	4780
YRKK500 4-6	710	86.3	990	94.3	0.84	1.8	1049	419	55	5000
YRKK560 2-6	800	95.8	990	94.5	0.85	1.8	1050	496	91	6930
YRKK560 3-6	900	107.7	990	94.6	0.85	1.8	1130	490	100	7170
YRKK560 4-6	1000	119.4	990	94.8	0.85	1.8	1225	502	107	7450
YRKK630 1-6	1120	133.6	990	94.9	0.85	1.8	1305	528	149	9480
YRKK630 2-6	1250	149.0	990	95.0	0.85	1.8	1435	534	158	9690
YRKK630 3-6	1400	166.7	990	95.1	0.85	1.8	1595	537	175	10120
YRKK400 4-8	185	24.9	740	91.8	0.78	1.8	406	291	16	2650
YRKK440 5-8	200	26.8	740	92.0	0.78	1.8	434	294	18	2830
YRKK450 1-8	220	29.1	740	92.2	0.79	1.8	497	281	21	3560
YRKK450 2-8	250	33.0	740	92.3	0.79	1.8	533	298	23	3640
YRKK450 3-8	280	36.9	740	92.5	0.79	1.8	575	310	24	3730
YRKK450 4-8	315	41.4	740	92.6	0.79	1.8	624	322	26	3890

YR KK ( IP44 ) ( IP54 ) 系列技术数据 ( 6kV )  
 YRKK(IP44).(IP54) series technical data (6kV)

型号 Type	额定 功率 (kW)	定子 电流 (A)	转速 (r/min)	效率 (%)	功率 因数 Cos Φ	最大转矩 额定转矩 $\frac{T_m}{T_n}$	转子 电压 (V)	转子 电流 (A)	电机 转动惯量 $J_m$ ( $kg \cdot m^2$ )	重量 (kg)
YRKK500 1-8	355	46.1	740	92.7	0.80	1.8	579	389	38	4420
YRKK500 2-8	400	51.7	740	93.0	0.80	1.8	627	404	40	4490
YRKK500 3-8	450	58.1	740	93.1	0.80	1.8	752	374	48	4790
YRKK500 4-8	500	64.3	740	93.5	0.80	1.8	835	373	51	4950
YRKK560 1-8	560	71.0	740	93.7	0.81	1.8	796	439	110	6560
YRKK560 2-8	630	79.7	740	93.9	0.81	1.8	885	444	121	6730
YRKK560 3-8	710	89.7	740	94.0	0.81	1.8	996	443	128	6930
YRKK560 4-4	800	100.9	740	94.2	0.81	1.8	1136	434	141	7150
YRKK630 1-8	900	113.4	740	94.3	0.81	1.8	1165	476	149	9200
YRKK630 2-8	1000	125.8	740	94.4	0.81	1.8	1264	488	164	9420
YRKK630 3-8	1120	140.8	740	94.5	0.81	1.8	1380	500	175	9660
YRKK630 4-8	1250	157.0	740	94.6	0.81	1.8	1515	506	183	9970
YRKK450 1-10	185	26.1	590	90.9	0.75	1.8	533	220	27	3440
YRKK450 2-10	200	28.2	590	91.1	0.75	1.8	574	220	29	3540
YRKK450 3-10	220	30.9	590	91.3	0.75	1.8	623	222	32	3630
YRKK450 4-10	250	35.1	590	91.5	0.75	1.8	679	231	34	3770
YRKK5001-10	280	38.6	590	91.8	0.76	1.8	571	310	50	4350
YRKK500 2-10	315	43.4	590	91.9	0.76	1.8	619	322	53	4440
YRKK500 3-10	355	48.8	590	92.1	0.76	1.8	676	332	57	4540
YRKK500 4-10	400	54.6	590	92.8	0.76	1.8	744	338	62	4730
YRKK560 1-10	450	60.4	590	93.1	0.77	1.8	933	301	95	6460
YRKK560 2-10	500	67.0	590	93.3	0.77	1.8	1000	313	106	6680
YRKK560 3-10	560	74.8	590	93.5	0.77	1.8	1072	327	113	6830
YRKK560 4-10	630	84.1	590	93.6	0.77	1.8	1247	314	125	6990
YRKK630 1-10	710	93.5	590	93.7	0.78	1.8	1158	382	143	8870
YRKK630 2-10	800	105.2	590	93.8	0.78	1.8	1255	397	153	9150
YRKK630 3-10	900	118.2	590	93.9	0.78	1.8	1370	409	166	9540
YRKK630 4-10	1000	131.1	590	94.1	0.78	1.8	1508	412	182	9860
YRKK450 3-12	185	28.1	490	90.6	0.70	1.8	516	231	33	3780
YRKK450 4-12	200	30.3	490	90.8	0.70	1.8	551	237	36	3870
YRKK500 1-12	220	32.3	490	91.0	0.72	1.8	519	271	53	4450
YRKK500 2-12	250	36.6	490	91.3	0.72	1.8	555	289	58	4550
YRKK500 3-12	280	40.8	490	91.7	0.72	1.8	591	302	59	4650
YRKK500 4-12	315	45.8	490	92.0	0.72	1.8	638	316	62	4780
YRKK560 2-12	355	50.8	490	92.1	0.73	1.8	705	318	116	6500
YRKK560 3-12	400	57.1	490	92.3	0.73	1.8	770	329	128	6660
YRKK560 4-12	450	64.1	490	92.5	0.73	1.8	847	336	137	6880
YRKK630 1-12	500	69.2	490	92.7	0.75	1.8	895	348	191	8640
YRKK630 2-12	560	77.4	490	92.8	0.7	1.8	961	364	204	8830
YRKK630 3-12	630	87.0	490	92.9	0.75	1.8	1032	383	222	9145
YRKK630 4-12	710	98.0	490	93.0	0.75	1.8	1124	396	244	9390

注：表中性能数据对应的保证值见附表。

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



## YRKK 系列技术数据 (10kV)

## YRKK series technical data (10kV)

型号 Type	额定 功率 (kW)	定子 电流 (A)	转速 (r/min)	效率 (%)	功率 因数 Cos $\Phi$	最大转矩 额定转矩 $\frac{T_m}{T_n}$	转子 电压 (V)	转子 电流 (A)	重量 (kg)
YRKK450 1-4	250	19.1	1490	92.2	0.82	1.8	390	410	4530
YRKK450 2-4	280	21.4	1490	92.4	0.82	1.8	390	410	4680
YRKK450 3-4	315	23.7	1490	92.5	0.83	1.8	428	451	4830
YRKK450 4-4	355	26.2	1490	93.0	0.84	1.8	428	511	4980
YRKK450 5-4	400	29.5	1490	93.2	0.84	1.8	483	509	5230
YRKK450 6-4	450	32.7	1490	93.4	0.85	1.8	483	578	5310
YRKK500 1-4	500	36.3	1490	93.6	0.85	1.8	552	558	5540
YRKK500 2-4	560	40.5	1490	93.9	0.85	1.8	624	511	5775
YRKK500 3-4	630	45.4	1490	94.2	0.85	1.8	653	530	6040
YRKK500 4-4	710	50.5	1490	94.3	0.86	1.8	672	546	6250
YRKK500 5-4	800	56.9	1490	94.4	0.86	1.8	729	618	6595
YRKK560 1-4	900	64.0	1490	94.5	0.86	1.8	795	569	7260
YRKK560 2-4	1000	71.0	1490	94.6	0.86	1.8	875	521	8020
YRKK560 3-4	1120	78.5	1490	94.7	0.87	1.8	976	587	8770
YRKK630 1-4	1250	87.5	1490	94.8	0.87	1.8	1198	590	10850
YRKK630 2-4	1400	97.9	1490	94.9	0.87	1.8	1173	585	11610
YRKK630 3-4	1600	111.8	1490	95.0	0.87	1.8	1299	673	12120
YRKK450 1-6	220	17.3	990	91.8	0.80	1.8	547	255	4530
YRKK450 2-6	250	19.4	990	92.0	0.81	1.8	610	257	4830
YRKK450 3-6	280	21.7	990	92.2	0.81	1.8	610	288	4830
YRKK450 4-6	315	24.3	990	92.4	0.81	1.8	760	260	5530
YRKK450 5-6	355	26.6	990	93.0	0.83	1.8	815	273	5830
YRKK450 6-6	400	29.8	990	93.3	0.83	1.8	767	323	5830
YRKK500 1-6	400	29.8	990	93.3	0.83	1.8	767	323	6040
YRKK500 2-6	450	33.1	990	93.4	0.84	1.8	767	366	6290
YRKK500 3-6	500	36.7	990	93.6	0.84	1.8	876	372	6490
YRKK500 4-6	560	41.0	990	93.8	0.84	1.8	944	385	6740
YRKK500 5-6	630	46.0	990	94.1	0.84	1.8	941	414	6940
YRKK560 1-6	630	46.0	990	94.1	0.84	1.8	941	414	7140
YRKK560 2-6	710	51.8	990	94.3	0.84	1.8	1021	430	7390
YRKK560 3-6	800	57.5	990	94.5	0.85	1.8	1118	439	7640
YRKK560 4-6	900	64.6	990	94.6	0.85	1.8	1225	447	7840
YRKK630 1-6	1000	71.6	990	94.8	0.85	1.8	1226	503	8150
YRKK630 2-6	1120	80.2	990	94.9	0.85	1.8	1364	505	8400
YRKK630 3-6	1250	89.4	990	95.0	0.85	1.8	1535	498	8650
YRKK500 1-8	220	18.7	740	91.8	0.74	1.8	629	216	4180
YRKK500 2-8	250	20.9	740	92.0	0.75	1.8	629	245	4480
YRKK500 3-8	280	23.4	740	92.2	0.75	1.8	573	305	4780
YRKK500 4-8	315	26.3	740	92.3	0.75	1.8	632	312	5080
YRKK500 5-8	355	27.7	740	92.7	0.80	1.8	704	315	5380
YRKK500 6-8	400	31.0	740	93.0	0.80	1.8	705	353	5830

## YRKK 系列技术数据 (10kV)

## YRKK series technical data (10kV)

型号 Type	额定 功率 (kW)	定子 电流 (A)	转速 (r/min)	效率 (%)	功率 因数 Cos Φ	最大转矩 额定转矩 $\frac{T_m}{T_n}$	转子 电压 (V)	转子 电流 (A)	重量 (kg)
YRKK560 1-8	450	34.9	740	93.1	0.80	1.8	790	354	5990
YRKK560 2-8	500	38.6	740	93.5	0.80	1.8	843	370	6390
YRKK560 3-8	560	42.6	740	93.7	0.81	1.8	905	388	7090
YRKK560 4-8	630	47.8	740	93.9	0.81	1.8	974	405	7560
YRKK560 5-8	710	53.8	740	94.0	0.81	1.8	975	456	8140
YRKK630 1-8	800	60.5	740	94.2	0.81	1.8	1102	451	9150
YRKK630 2-8	900	68.0	740	94.3	0.81	1.8	1148	490	9700
YRKK630 3-8	1000	75.5	740	94.4	0.81	1.8	1264	494	10100
YRKK500 3-10	220	19.3	590	91.2	0.72	1.8	737	187	5840
YRKK500 4-10	250	22.0	590	91.4	0.72	1.8	731	215	6140
YRKK500 5-10	280	24.5	590	91.7	0.72	1.8	785	224	6390
YRKK500 6-10	315	27.4	590	92.1	0.72	1.8	785	254	6640
YRKK560 1-10	355	29.2	590	92.4	0.76	1.8	837	269	7540
YRKK560 2-10	400	32.8	590	92.8	0.76	1.8	975	254	7940
YRKK560 3-10	450	36.2	590	93.1	0.77	1.8	960	293	8340
YRKK560 4-10	500	40.2	590	93.3	0.77	1.8	1041	302	8690
YRKK560 5-10	560	44.9	590	93.5	0.77	1.8	1137	308	9240
YRKK630 1-10	560	44.9	590	93.5	0.77	1.8	1007	395	9750
YRKK630 2-10	630	50.5	590	93.6	0.77	1.8	1092	411	10050
YRKK630 3-10	710	56.1	590	93.7	0.78	1.8	1193	424	10350
YRKK630 4-10	800	63.1	590	93.8	0.78	1.8	1314	433	10800
YRKK560 1-12	220	19.4	490	91.0	0.72	1.8	577	244	6040
YRKK560 2-12	250	22.0	490	91.2	0.72	1.8	608	263	6390
YRKK560 3-12	280	24.6	490	91.4	0.72	1.8	610	300	6740
YRKK560 4-12	315	27.6	490	91.5	0.72	1.8	681	291	7140
YRKK560 5-12	355	30.5	490	92.1	0.73	1.8	728	309	7590
YRKK630 1-12	400	34.3	490	92.3	0.73	1.8	781	325	8050
YRKK630 2-12	450	38.5	490	92.5	0.73	1.8	783	360	8450
YRKK630 3-12	500	40.9	490	92.7	0.75	1.8	844	371	8900
YRKK630 4-12	560	46.4	490	92.8	0.75	1.8	915	385	9500

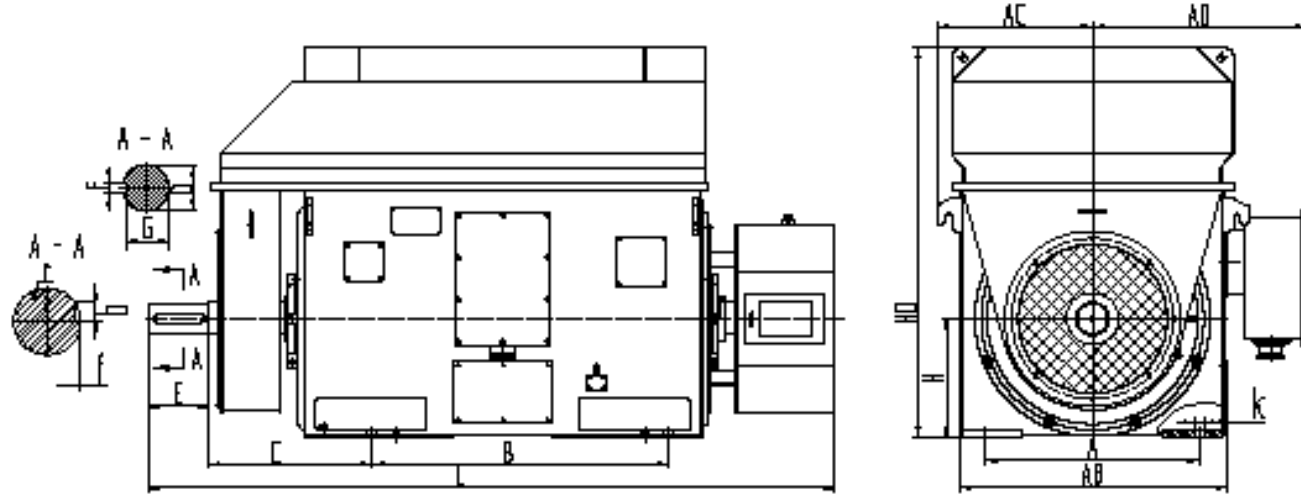
注：表中性能数据对应的保证值见附表。

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

YRKK 系列 (10kV) 中型电动机外形及安装尺寸

(mm)

YRKK series (10kV) medium type asynchronous motor overall and mounting dimensions figure



机座号	极数	安装尺寸及公差																				外形尺寸 (限值)								
		A		B		C <sup>a、b</sup>		D		E		F		G		f		b		r		H		K		AB	AC	AD	HD	L
		基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差	基本尺寸	最小尺寸	最大尺寸	基本尺寸	尺寸偏差	基本尺寸	尺寸偏差						
450	4	800	± 1.75	1120	± 1.75	670	355	110	+0.035 +0.013	210	± 0.57	28	0 - 0.05	100	0 - 0.2	—	—	—	—	—	450	—	35	—	—	—	—	—	—	—
	6																													
500	4	900	± 2.1	1250	± 2.1	710	475	120	—	250	± 0.65	32	0 - 0.06	109	0 - 0.3	—	—	—	—	—	500	0 - 1.0	42	+ 0.62 0	—	—	—	—	—	—
	6~12																													
560	4	1000	± 2.1	1400	± 2.1	800	500	150	+0.040 +0.015	300	± 0.65	—	—	—	—	11.4	+ 0.2 0	39.7	0.7	1.0	560	—	48	—	—	—	—	—	—	—
	6~12																													
630	4	1120	± 2.1	1600	± 2.1	900	530	170	—	300	± 0.65	—	—	—	—	12.4	+ 0.3 0	44.2	0.7	1.0	630	—	48	—	—	—	—	—	—	—
	6~12																													
a		与基本尺寸对应的前一个 C 尺寸为外风扇置于轴伸端时的数值, 后一个 C 尺寸为外风扇置于非轴伸端时的尺寸。																												
b		当采用滑动轴承时, 尺寸偏差不包括轴向串动量。																												



