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# YRKK series High Voltage Motors (H355~630)

SIMO IMPORT & EXPORT CORP., LTD.

## **Brief introduction for YRKK series motors**

### **Brief Introduction**

YRKK series 6kV (10kV) motors are wound rotor three phase induction motors. The protection degree of it is IP44 or IP54, and cooling method is IC611.

The motor has such advantage as high efficiency, energy saving, low noise, low vibration, light weight and reliable performance. It's easy for installation and maintenance as well.

The motor could generate larger starting torque at the state of relatively lower starting current. It is used where the capacity of the feeder line is insufficient to start a squirrel cage motor or where the longer starting time and frequent starting are needed, or where adjustment of speed is needed within limited range such as windlass, press machines, drawing machines.

The base features as follow:

Rated voltage: 6kV, 10kV

Rated frequency: 50Hz

Protection degree: IP44, IP54

Cooling method: IC611

Insulation class: F

Ambient temperature: not exceed 40

Altitude: not exceed 1000 meters

**Technical Data see the following list.**

Type	Rated power	Rated current	Speed r/min	Efficiency %	Power factor	Max. torque	Rotor voltage V	Rotor current A	Weight kg
	kW	A			COSΦ	Rated torque			
YRKK3552-4	185	23.3	1480	92	0.83	1.8	271	437	2140
YRKK3553-4	200	25.2		92.2			295	430	2140
YRKK3554-4	220	27.6		92.4			325	427	2200
YRKK4001-4	250	30.9		92.7	0.84		400	393	2980
YRKK4002-4	280	34.6		92.8			399	442	3080
YRKK4003-4	315	38.9		92.9			432	455	3180
YRKK4004-4	355	43.8		93			472	469	3280
YRKK4005-4	400	49.2		93.2	0.85		520	478	3350
YRKK4501-4	450	54.6		93.4			514	551	3940
YRKK4502-4	500	60.5		93.6			571	550	4050
YRKK4503-4	560	67.5		93.9	0.86		642	548	4180
YRKK4504-4	630	75.7		94.2			734	539	4440
YRKK5001-4	710	84.3		94.3			756	581	5100
YRKK5002-4	800	94.9		94.4	0.87		819	652	5250
YRKK5003-4	900	106.6		94.5			894	736	5350
YRKK5004-4	1000	118.3		94.6			983	818	5520
YRKK5602-4	1120	130.8		94.7			849	823	7700
YRKK5603-4	1250	145.8		94.8	0.87		865	898	8000
YRKK5604-4	1400	163.2		94.9			878	989	8400
YRKK6301-4	1600	186.3		95			702	1397	9100
YRKK6302-4	1800	209.4	95.1	751		1470	9400		
YRKK6303-4	2000	232.4	95.2	789		1554	9800		

Type	Rated power	Rated current	Speed r/min	Efficiency %	Power factor	Max. torque	Rotor voltage V	Rotor current A	Weight kg
	kW	A			COSΦ	Rated torque			
YRKK4001-6	185	23.7	980	91.9	0.82	1.8	437	266	2940
YRKK4002-6	200	25.5		92.1			467	268	3050
YRKK4003-6	220	28		92.3			505	274	3130
YRKK4004-6	250	31.7		92.5			547	286	3230
YRKK4005-6	280	35.6		92.6			597	294	3330
YRKK4501-6	315	39.4		92.8	0.83		550	363	4000
YRKK4502-6	355	44.3		93			600	374	4120
YRKK4503-6	400	49.7		93.3			660	381	4240
YRKK4504-6	450	55.9		93.4			733	385	4360
YRKK5001-6	500	61.2		93.6			0.84	600	531
YRKK5002-6	560	68.4	93.8	660	541	4950			
YRKK5003-6	630	76.7	94.1	733	540	5150			
YRKK5004-6	710	86.3	94.3	825	548	5500			
YRKK5602-6	800	95.8	94.5	689	732	7600			
YRKK5603-6	900	107.7	990	94.6	0.85	685	824	7900	
YRKK5604-6	1000	119.4		94.8		660	942	8200	
YRKK6301-6	1120	133.6		94.9		612	1135	9100	
YRKK6302-6	1250	149		95		630	1230	9400	
YRKK6303-6	1400	166.7		95.1		644	1343	9800	

Type	Rated power	Rated current	Speed r/min	Efficiency %	Power factor	Max. torque	Rotor voltage V	Rotor current A	Weight kg
	kW	A			COSΦ	Rated torque			
YRKK4004-8	185	24.9	740	91.8	0.78	1.8	475	245	3140
YRKK4005-8	200	26.9		92			512	245	3220
YRKK4501-8	220	29.1		92.2	0.79		508	274	4000
YRKK4502-8	250	33		92.3			551	288	4120
YRKK4503-8	280	36.9		92.5			597	299	4240
YRKK4504-8	315	41.5		92.6			662	301	4360
YRKK5001-8	355	46.1		92.7	0.8		596	379	4730
YRKK5002-8	400	51.8		93			657	387	4850
YRKK5003-8	450	58.2		93.1			731	392	5080
YRKK5004-8	500	64.4		93.5			820	385	5340
YRKK5601-8	560	71		93.7	0.81		590	600	7500
YRKK5602-8	630	79.7		93.9			600	661	7800
YRKK5603-8	710	89.7		94			606	736	8200
YRKK5604-8	800	100.9		94.2			604	829	8500
YRKK6301-8	900	113.4		94.3			555	1011	9000
YRKK6302-8	1000	125.8		94.4			575	1084	9300
YRKK6303-8	1120	140.8		94.5			600	1169	9700
YRKK6304-8	1250	157		94.6			617	1266	10000

Type	Rated power	Rated current	Speed r/min	Efficiency %	Power factor	Max. torque	Rotor voltage V	Rotor current A	Weight kg
	kW	A			COSΦ	Rated torque			
YRKK4501-10	185	26.1	590	90.9	0.75	1.8	477	245	4000
YRKK4502-10	200	28.2		91.1			500	259	4200
YRKK4503-10	220	30.9		91.3			554	263	4320
YRKK4504-10	250	35.1		91.5			594	273	4350
YRKK5001-10	280	38.6		91.8	0.76		593	305	4850
YRKK5002-10	315	43.4		91.9			653	311	5050
YRKK5003-10	355	48.8		92.1			725	314	5250
YRKK5004-10	400	54.6		92.8			816	313	5450
YRKK5601-10	450	60.4		93.1	0.77		481	598	7200
YRKK5602-10	500	67		93.3			484	658	7500
YRKK5603-10	560	74.8		93.5			485	745	7800
YRKK5604-10	630	84.1		93.6			483	824	8100
YRKK6301-10	710	93.5		93.7	0.78		511	871	8900
YRKK6302-10	800	105.2		93.8			538	936	9200
YRKK6303-10	900	118.2		93.9			570	1010	9600
YRKK6304-10	1000	131.1		94.1			576	1092	10000

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Rotor voltage	Rotor current	Weight
	kW	A			r/min	%			
	YRKK4503-12	185	28.1	495	90.6	0.7	1.8	504	237
YRKK4504-12	200	30.3	90.8		547			239	4340
YRKK5001-12	220	32.3	91		0.72	508		281	4850
YRKK5002-12	250	36.6	91.3			552		295	5050
YRKK5003-12	280	40.8	91.7			603		304	5250
YRKK5004-12	315	45.8	92			660		309	5350
YRKK5602-12	355	48.3	92.1		0.73	357		624	7200
YRKK5603-12	400	57.1	92.3			377		667	7500
YRKK5604-12	450	64.1	92.5			380		742	7900
YRKK6301-12	500	69.2	92.7			0.75		404	776
YRKK6302-12	560	77.4	92.8	423	824		9200		
YRKK6303-12	630	87	92.9	447	885		9600		
YRKK6304-12	710	98	93	471	948		9980		