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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			COS Φ	Rated torque			
YRKK4501-4	280	21.1	1480	91.3	0.84		465	378	3640
YRKK4502-4	315	23.6		91.6			465	426	3680
YRKK4503-4	355	26.6		91.9			505	442	3720
YRKK4504-4	400	29.5		92.2	0.85		550	455	3780
YRKK4505-4	450	33.1		92.4			610	463	3830
YRKK4506-4	500	36.7		92.6			675	461	3900
YRKK5001-4	560	41		92.8			590	596	5000
YRKK5002-4	630	45.5		93	0.86		625	632	5150
YRKK5003-4	710	51.1		93.3			650	600	5300
YRKK5004-4	800	57.5		93.4			710	615	5480
YRKK5601-4	900	63.9		93.5			923	610	7300
YRKK5602-4	1000	70.8		93.6	0.87		1000	625	7550
YRKK5603-4	1120	79.2		93.8			1098	650	7800
YRKK6301-4	1250	87.2		94			1.8	1228	650
YRKK6302-4	1400	97.6		94.1	1352			670	8950
YRKK6303-4	1600	111.2		94.4	1501			690	9200

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Rotor voltage	Rotor current	Weight
	kW	A			r/min	%			
	YRKK4501-6	220	17.1	985	91.6	0.81		490	290
YRKK4502-6	250	19.4	91.8		530			310	4050
YRKK4503-6	280	21.7	92		580			320	4150
YRKK4504-6	315	24.4	92.2		640			335	4250
YRKK5001-6	355	27.1	980	92.4	0.82		660	345	5150
YRKK5002-6	400	30.4		92.6			700	373	5300
YRKK5003-6	450	34.2		92.8			710	398	5450
YRKK5004-6	500	37.9		93			810	410	5600
YRKK5605-6	560	42.3		93.2			890	435	5750
YRKK5601-6	630	46.3		93.5			0.84	1050	400
YRKK5602-6	710	52.1	93.7	1145	415	7450			
YRKK5603-6	800	58	980	93.8			1260	420	7650
YRKK5604-6	900	65.1		93.9			1400	430	7900
YRKK6301-6	1000	72.3	1480	94	0.85		1125	584	8650
YRKK6302-6	1120	80.8		94.2			1128	600	8900
YRKK6303-6	1250	89.9		94.5			1351	615	9050

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight		
	power	current			factor	Rated torque				voltage	current
	kW	A			r/min	%				COSΦ	V
YRKK5001-8	220	18.5	745	91.6	0.75	1.8	516	270	4750		
YRKK5002-8	250	21		91.9			542	296	4900		
YRKK5003-8	280	23.4		92.1			599	306	5050		
YRKK5004-8	315	26.3		92.4			639	317	5250		
YRKK5005-8	355	28.7		92.6	0.77		677	340	5450		
YRKK5006-8	400	32.3		92.8			770	356	5600		
YRKK5601-8	450	35.3		93.1	0.79		830	345	7140		
YRKK5602-8	500	39.2		93.3			880	356	7440		
YRKK5603-8	560	43.8		93.5			1056	360	7750		
YRKK5604-8	630	49.2		93.6			1160	3750	8000		
YRKK6301-8	710	53.4		93.7	0.82		1222	380	8650		
YRKK6302-8	800	60		93.8			1280	410	8900		
YRKK6303-8	900	67.4		94			1421	416	9100		

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight		
	power	current			factor	Rated torque				voltage	current
	kW	A			r/min	%				COS Φ	V
YRKK5001-10	220	18.9	595	90.8	0.74		510	287	5050		
YRKK5002-10	250	21.4		91			550	296	5250		
YRKK5003-10	280	23.9		91.3			780	235	5450		
YRKK5004-10	315	26.9		91.5			860	240	5650		
YRKK5601-10	355	29.4		91.7	0.76		960	230	7350		
YRKK5602-10	400	33.1		91.8			1082	235	7540		
YRKK5603-10	450	36.7		92	0.77		1140	250	7750		
YRKK5604-10	500	40.6		92.3			1210	260	7900		
YRKK6301-10	560	44.1		92.8	0.79		1360	264	8600		
YRKK6302-10	630	49.5		93			1430	280	8850		
YRKK6303-10	710	55.7		93.1			1500	315	9050		
YRKK6304-10	800	62.7		93.2			1598	326	9200		
YRKK5601-12	220	19.5	495	90.6	0.72	600	232	7170			
YRKK5602-12	250	22.1		90.8		640	245	7330			
YRKK5603-12	280	24.7		91		740	238	7550			
YRKK5604-12	315	27.7		91.2		840	250	7700			
YRKK5605-12	355	31.1		91.4	930	247	7850				
YRKK6301-12	400	33.6		91.6	0.75	910	285	8600			
YRKK6302-12	450	37.7		91.8		1020	290	8850			
YRKK6303-12	500	41.8		92		1120	305	9050			
YRKK6304-12	560	46.8	92.2	1250		315	9200				