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YRKS series High Voltage Motors
(H355~630)

SIMO IMPORT & EXPORT CORP., LTD.

Brief introduction for YRKS series motors

Brief Introduction

YRKS series 6kV (10kV) motors are wound rotor three phase induction motors. The protection degree of it is IP44 or IP54, and cooling method is ICW81A.

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: ICW81A

Insulation class: F

Ambient temperature: not exceed 40

Altitude: not exceed 1000 meters

Technical Data see the following list.

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight	Lubrication			
	power	current				factor					Rated torque	voltage	current
	kW	A				COSΦ						V	A
YRKS3551-4	220	27.5	1485	92.7	0.83	1.8	342	389	2474	1000			
YRKS3552-4	250	30.8	1485	93.0	0.84	1.8	378	400	2605	1000			
YRKS3553-4	280	34.5	1485	93.1	0.84	1.8	430	393	2671	1000			
YRKS4001-4	315	38.3	1485	93.2	0.85	1.8	372	519	3135	1000			
YRKS4002-4	355	43.1	1485	93.3	0.85	1.8	401	543	3254	1000			
YRKS4003-4	400	48.5	1485	93.5	0.85	1.8	434	565	3377	1000			
YRKS4004-4	450	54.4	1485	93.7	0.85	1.8	474	582	3497	1000			
YRKS4005-4	500	60.3	1485	93.9	0.85	1.8	521	584	3608	1000			
YRKS4501-4	560	67.3	1485	94.2	0.86	1.8	474	725	399	1000			
YRKS4502-4	630	74.6	1485	94.5	0.86	1.8	522	739	4129	1000			
YRKS4503-4	710	84.0	1485	94.6	0.86	1.8	580	746	4378	1000			
YRKS4504-4	800	93.6	1485	94.7	0.87	1.8	652	743	4510	1000			
YRKS5001-4	900	105.3	1485	94.8	0.87	1.8	919	592	5291	1000			
YRKS5002-4	1000	116.6	1485	94.9	0.87	1.8	984	614	5335	1000			
YRKS5003-4	1120	130.4	1485	95.0	0.87	1.8	1061	638	5561	1000			
YRKS5004-4	1250	145.4	1485	95.1	0.87	1.8	1151	657	5749	1000			
YRKS5601-4	1400	162.7	1485	95.2	0.87	1.8	1064	803	7659	1000			
YRKS5602-4	1600	185.7	1485	95.3	0.87	1.8	1152	848	7992	1000			
YRKS5603-4	1800	208.7	1485	95.4	0.87	1.8	1258	875	8325	1000			
YRKS6301-4	2000	231.6	1485	95.5	0.87	1.8	1382	869	8658	1000			
YRKS6302-4	2240	259.2	1485	95.6	0.87	1.8	1536	874	8991	1000			
YRKS6303-4	2500	289.0	1485	95.7	0.87	1.8	1979	750	9520	1000			

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight	Lubrication			
	power	current				factor					Rated torque	voltage	current
	kW	A				r/min					%	COSΦ	V
YRKS4001-6	220	28.3	985	92.5	0.81	1.8	291	461	2332	2000			
YRKS4002-6	250	31.7	985	92.7	0.82	1.8	312	489	2431	2000			
YRKS4003-6	280	35.4	985	92.8	0.82	1.8	337	508	2618	2000			
YRKS4004-6	315	39.8	985	93.0	0.82	1.8	365	527	2728	2000			
YRKS4005-6	355	44.8	985	93.2	0.82	1.8	398	544	2838	2000			
YRKS4501-6	400	49.6	985	93.5	0.83	1.8	363	672	3212	2000			
YRKS4502-6	450	55.1	985	93.6	0.84	1.8	397	695	3485	2000			
YRKS4503-6	500	61.1	985	93.8	0.84	1.8	438	702	3619	2000			
YRKS4504-6	560	68.3	985	94.0	0.84	1.8	487	706	3752	2000			
YRKS5001-6	630	75.6	985	94.3	0.85	1.8	854	444	5152	2000			
YRKS5002-6	710	85.1	985	94.5	0.85	1.8	916	463	5320	2000			
YRKS5003-6	800	95.6	985	94.7	0.85	1.8	1049	455	5657	2000			
YRKS5004-6	900	107.5	985	94.8	0.85	1.8	1153	464	6250	2000			
YRKS5601-6	1000	119.2	985	95.0	0.85	1.8	896	682	7280	2000			
YRKS5602-6	1120	133.3	985	95.1	0.85	1.8	1025	662	6770	2000			
YRKS5603-6	1250	148.6	985	95.2	0.85	1.8	1054	725	7070	2000			
YRKS6301-6	1400	166.3	985	95.3	0.85	1.8	1234	682	8781	2000			
YRKS6302-6	1600	189.9	985	95.4	0.85	1.8	1346	714	9083	2000			
YRKS6303-6	1800	213.4	985	95.5	0.85	1.8	1605	672	9531	2000			

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight	Lubrication
	power	current				factor				
	kW	A	r/min	%	COSΦ		V	A	kg	h
YRKS4003-8	220	29.5	737	92.2	0.78	1.8	471	281	3300	2000
YRKS4004-8	250	33.4	737	92.3	0.78	1.8	508	297	3410	2000
YRKS4005-8	280	36.9	737	92.5	0.79	1.8	550	306	3520	2000
YRKS4501-8	315	40.9	737	92.6	0.80	1.8	543	351	3150	2000
YRKS4502-8	355	46.1	737	92.7	0.80	1.8	585	368	3330	2000
YRKS4503-8	400	51.8	737	93.0	0.80	1.8	635	382	3410	2000
YRKS4504-8	450	57.5	737	93.2	0.81	1.8	693	394	3674	2000
YRKS5001-8	500	63.5	738	93.5	0.81	1.8	659	452	4840	2000
YRKS5002-8	560	71.0	738	93.7	0.81	1.8	733	455	5115	2000
YRKS5003-8	630	79.7	738	93.9	0.81	1.8	826	455	5445	2000
YRKS5004-8	710	89.7	738	94.0	0.81	1.8	827	518	5830	2000
YRKS5601-8	800	100.9	738	94.2	0.81	1.8	745	657	6138	2000
YRKS5602-8	900	113.4	738	94.3	0.81	1.8	839	655	6516	2000
YRKS5603-8	1000	125.8	738	94.4	0.81	1.8	959	632	7022	2000
YRKS6301-8	1120	140.8	742	94.5	0.81	1.8	1066	626	8624	2000
YRKS6302-8	1250	157.0	742	94.6	0.81	1.8	1143	654	8915	2000
YRKS6303-8	1400	175.6	742	94.7	0.81	1.8	1233	683	9409	2000
YRKS6304-8	1600	200.5	742	94.8	0.81	1.8	1457	657	9699	2000

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight	Lubrication
	power	current				factor				
	kW	A	r/min	%	COSΦ		V	A	kg	h
YRKS4501-10	220	30.1	585	91.3	0.77	1.8	474	284	3774	3000
YRKS4502-10	250	34.2	585	91.5	0.77	1.8	510	300	3918	3000
YRKS4503-10	280	37.7	585	91.8	0.78	1.8	554	310	4015	3000
YRKS4504-10	315	42.3	585	91.8	0.78	1.8	604	319	4147	3000
YRKS4505-10	355	47.6	585	92.1	0.78	1.8	665	324	4378	3000
YRKS5001-10	400	53.2	590	92.8	0.78	1.8	596	403	5140	3000
YRKS5002-10	450	59.6	590	93.1	0.78	1.8	656	411	5324	3000
YRKS5003-10	500	65.3	590	93.3	0.79	1.8	729	409	5594	3000
YRKS5004-10	560	73.0	590	93.5	0.79	1.8	823	407	5816	3000
YRKS5601-10	630	81.0	591	93.6	0.80	1.8	731	516	6126	3000
YRKS5602-10	710	91.1	591	93.7	0.80	1.8	824	516	6126	3000
YRKS5603-10	800	102.6	591	93.8	0.80	1.8	944	507	6686	3000
YRKS6301-10	900	115.3	591	93.9	0.80	1.8	1017	527	9318	3000
YRKS6302-10	1000	127.8	593	94.1	0.80	1.8	1103	542	9766	3000
YRKS6303-10	1120	143.0	593	94.2	0.80	1.8	1203	555	4125	3000
YRKS6304-10	1250	159.4	593	94.3	0.80	1.8	1324	564	4345	3000

Type	Rated	Rated	Speed	Efficiency	Power	Max. torque	Rotor	Rotor	Weight	Lubrication
	power	current				factor				
	kW	A	r/min	%	COSΦ		V	A	kg	h
YRKS4504-12	220	32.6	490	90.4	0.72	1.8	465	281	5184	3000
YRKS4505-12	250	36.6	490	91.5	0.72	1.8	538	275	5350	3000
YRKS5001-12	280	40.2	490	91.7	0.73	1.8	500	332	5572	3000
YRKS5002-12	315	44.5	490	92.0	0.74	1.8	537	347	5846	3000
YRKS5003-12	355	49.5	490	92.1	0.75	1.8	582	362	6137	3000
YRKS5004-12	400	55.6	490	92.3	0.75	1.8	635	374	6361	3000
YRKS5601-12	450	60.8	492	92.5	0.77	1.8	643	425	6697	3000
YRKS5602-12	500	67.4	492	92.7	0.77	1.8	706	428	6659	3000
YRKS5603-12	560	75.4	492	92.8	0.77	1.8	785	430	8588	3000
YRKS5604-12	630	84.7	492	92.9	0.77	1.8	883	428	8701	3000
YRKS6301-12	710	95.4	494	93.0	0.77	1.8	854	501	8983	3000
YRKS6302-12	800	107.4	494	93.1	0.77	1.8	977	492	9096	3000
YRKS6303-12	900	120.7	494	93.2	0.77	1.8	1141	472	7950	3000
YRKS6304-12	1000	133.9	494	93.3	0.77	1.8	1141	528	8050	3000