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YKK series High Voltage Motors (H355~630)

SIMO IMPORT & EXPORT CORP., LTD.

Brief introduction for YKK series motors

Brief Introduction

YKK series 6kV (10kV) motors are three phase squirrel cage induction motors. The protection degree 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 motors are used to drive various mechanical equipment such as blowers, compressors, pumps, crushers, stock removing machines. It also can serve as the prime movers in coal mines, mechanical industries, power plants and various industrial enterprises.

The base features as follow:

Rated voltage: 6kV, 10kV

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	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period	
						Rated torque	Rated torque	Rated current				
	kW	A	r/min	%	COSΦ				kg·m ²	kg	h	
YKK450-2C	220	16.3	2975	91.6	0.85	1.8	0.55	7			5000	
YKK450-2B	250	18.5		91.9						3450		
YKK450-2A	280	20.6		92.2								
YKK4501-2	315	22.9		92.4	0.86							
YKK4502-2	355	25.7		92.6								
YKK4503-2	400	28.9		92.8								
YKK4504-2	450	32.1		93	0.87							
YKK4505-2	500	35.6		93.3								
YKK4506-2	560	39.7		93.5								
YKK5001-2	630	44.2		93.6	0.88							
YKK5002-2	710	49.7		93.7								
YKK5003-2	800	56.0		93.8								
YKK5004-2	900	62.9		93.9								
YKK5005-2	1000	69.8		94						29		4650
YKK5601-2	1120	77.1		94.2	0.89							
YKK5602-2	1250	86.0		94.3								
YKK5603-2	1400	96.2		94.4								
YKK6301-2	1600	108.5		94.6	0.9							
YKK6302-2	1800	121.9		94.7								
YKK6303-2	2000	135.3		94.8								

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period		
	kW	A	r/min	%	COSΦ				kg·m ²	kg	h		
YKK450-4D	200	15.1	1490	91.3	0.84	1.8	0.7	7			6000		
YKK450-4C	220	16.3		91.5	0.85								
YKK450-4B	250	18.5		91.7									
YKK450-4A	280	20.7		91.9									
YKK4501-4	315	23.0		92.1					0.86				
YKK4502-4	355	25.8		92.3									
YKK4503-4	400	29.0		92.5	15					3640			
YKK4504-4	450	32.6		92.7						3720			
YKK4505-4	500	36.1		92.9									
YKK4506-4	560	39.9		93.1	0.87						4000		
YKK5001-4	630	44.8		93.3									
YKK5002-4	710	50.3	1490	93.6	0.87		0.7	7			2000		
YKK5003-4	800	55.9		93.9	0.88								
YKK5004-4	900	62.7		94.1									
YKK5005-4	1000	69.6		94.3									
YKK5601-4	1120	76.9		94.5	0.89								
YKK5602-4	1250	85.7		94.6									
YKK5603-4	1400	95.9		94.7									
YKK6301-4	1600	109.4		94.9									
YKK6302-4	1800	122.9		95					0.6				
YKK6303-4	2000	136.4		95.1									

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period						
	kW	A				r/min	%	COSΦ							kg·m ²	kg	h
YKK450-6A	200	15.6	995	91.5	0.81	1.8	0.7	6			8000						
YKK4501-6	220	17.1		91.7													
YKK4502-6	250	19.2		91.9	0.82												
YKK4503-6	280	21.4		92					21	3650							
YKK4504-6	315	24.1		92.2							6000						
YKK4505-6	355	27.0		92.5													
YKK4506-6	400	30.0		92.7	0.83												
YKK5001-6	450	33.3		93	0.84					4950							
YKK5002-6	500	36.9		93.2													
YKK5003-6	560	41.2		93.5	0.84				1.8	0.7	6			4000			
YKK5004-6	630	46.1		93.9													
YKK5005-6	710	51.9		94													
YKK5601-6	800	57.7		94.2	0.85		0.6										
YKK5602-6	900	64.8		94.3													
YKK5603-6	1000	72.0		94.4													
YKK5604-6	1120	80.5		94.5													
YKK6301-6	1250	88.6		94.7	0.86							0.6					
YKK6302-6	1400	99.1		94.8													
YKK6303-6	1600	113.2		94.9													

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period
	kW	A	r/min	%	COSΦ				kg·m ²	kg	h
YKK500-8C	200	17.1	740	91	0.74	1.8		7			
YKK500-8B	220	18.5		91.4							
YKK500-8A	250	21.0		91.8	0.75			6			
YKK5001-8	280	22.8		92.2	0.77						
YKK5002-8	315	25.6		92.3							
YKK5003-8	355	28.4		92.6	0.78						
YKK5004-8	400	31.9		92.8							
YKK5005-8	450	35.3		93.1	0.79						
YKK5006-8	500	39.1		93.4							
YKK5601-8	560	42.6		93.6	0.81						
YKK5602-8	630	47.9		93.7							
YKK5603-8	710	54.0		93.8							
YKK5604-8	800	60.7		93.9							
YKK6301-8	900	67.3		94.1	0.82						
YKK6302-8	1000	74.7		94.2							
YKK6303-8	1200	83.6		94.3							

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period
	kW	A				r/min	%	COSΦ			
YKK5001-10	200	17.6	595	90.9	0.72	1.8	0.7	5.5			8000
YKK5002-10	220	19.0		91.4	0.73						
YKK5003-10	250	21.3		91.7	0.74						
YKK5004-10	280	23.8		91.9							
YKK5005-10	315	26.3		92.3	0.75						
YKK5006-10	355	29.5		92.5							
YKK5601-10	400	32.8		92.7	0.76		6				
YKK5602-10	450	36.8		92.8							
YKK5603-10	500	40.9		92.9							
YKK5604-10	560	45.7		93							
YKK5605-10	630	51.4		93.1							
YKK6301-10	710	57.1		93.3	0.77						
YKK6302-10	800	64.2		93.4							
YKK6303-10	900	72.2		93.5							
YKK6304-10	1000	80.1		93.6							

Type	Rated power	Rated current	Speed	Efficiency	Power factor	Max. torque	Start torque	Start current	GD ²	Weight	Lubrication period
	kW	A	r/min	%	COSΦ				kg·m ²	kg	h
YKK5004-12	200	18.4	495	91.1	0.69	1.8					
YKK5005-12	220	20.2		91.3							
YKK5006-12	250	22.9		91.5							
YKK5601-12	280	24.8		0.71	0.7		6			8000	
YKK5602-12	315	27.9						91.7			
YKK5603-12	355	31.4						91.8			
YKK5604-12	400	35.4						91.9			
YKK5605-12	450	39.7						92			
YKK6301-12	500	43.4		0.72				92.2			
YKK6302-12	560	48.5						92.4			
YKK6303-12	630	54.6						92.5			
YKK6304-12	710	61.4						92.6			