




Motor Model		SMS60S-0020-30  2 K-3LKU	SMS60S-0040-30  2 K-3LKU	SMS80S-0075-30  2 K-3LKU
Driver matching		FD413-CA-000 , FD413-AA-000 FD413-LA-000 , FD413-EA-000	FD423-CA-000 , FD423-AA-000 FD423-LA-000 , FD423-EA-000	
DC link voltage UDC		300	300	300
Continuous performance	Rated power P_N (W)	200	400	750
	Rated torque T_N (Nm)	0.64	1.27	2.39
	Rated speed n_N (rpm)	3000	3000	3000
	Rated current I_N (A)	1.4	2.4	3.8
Maximum torque T_m (Nm)	1.92	3.81	7.17	
Maximum current I_m (A)	4.2	7.2	11.4	
Standstill torque T_s (Nm)	0.7	1.4	2.63	
Standstill current I_s (A)	1.5	2.6	4.2	
Resistance line-line R_L (Ω)	11.2	5.8	2.1	
Inductance line-line L_L (mH)	20.9	11.5	10.5	
Electrical time constant τ_e (ms)	1.87	1.98	5	
Mechanical time constant τ_m (ms)	1.8	1.29	0.9	
Reverse voltage constant K_e (V/krpm)	29	34	40	
Torque constant K_t (Nm/A)	0.48	0.562	0.662	
Rotor moment of inertia J_m (Kg·cm ²)		0.214	0.405	1.087
		0.218 (with brake)	0.409 (with brake)	1.099 (with brake)
Holding torque of brake	1.3	1.3	3.2	
Pole pair number	3	3	3	
Maximum voltage rising du/dt (KV/ μ s)	8	8	8	
Insulation class	F	F	F	
Maximum radial force F (N)	180	180	335	
Maximum axial force F (N)	90	90	167.5	
Weight G (Kg)		1.1	1.6	2.8
		1.6 (with brake)	2.1 (with brake)	3.5 (with brake)
Length of motor L (mm)		94 \pm 1.5	115 \pm 1.5	132 \pm 1.5
		144 \pm 1.5 (with brake)	170 \pm 1.5 (with brake)	172 \pm 1.5 (with brake)
Position feedback device	20 bit single-turn encoder			
Cooling method	Totally enclosed, non-ventilated			
Protection level	IP65 for body, shaft sealing IP54			
Environmental conditions for operation	Temperature	-20°C ~ 40°C (Non-freezing)		
	Humidity	Below 90% RH (Non-condensing)		
	Ambient environment	Away from active gas, combustible gas, oil drops and dust		
	Altitude	Maximum altitude 4000m, Rated power at 1000m or below, Above 1000m: Decreasing 1.5% per 100m rise		