

Motor series	Small inertia flange size 40mm		Small inertia flange size 60mm		Small inertia flange size 80mm		
Model	SMH40S-000S-30A <input type="checkbox"/> K-4LKH	SMH40S-0010-30A <input type="checkbox"/> K-4LKH	SMH60S-0020-30A <input type="checkbox"/> K-3LK <input type="checkbox"/>	SMH60S-0040-30A <input type="checkbox"/> K-3LK <input type="checkbox"/>	SMH80S-0075-30A <input type="checkbox"/> K-3LK <input type="checkbox"/>	SMH80S-0100-30A <input type="checkbox"/> K-3LK <input type="checkbox"/>	
Driver matching	FD412S-CA-000 FD412S-AA-000 FD412S-LA-000 CD412S-AA-000		JD430-AA-000 FD422S-CA-000 FD422S-AA-000 FD422S-LA-000 CD422S-AA-000		JD430-AA-000 FD432S-CA-000 FD432S-AA-000 FD432S-LA-000 CD432S-AA-000		
DC link voltage UDC	300	300	300	300	300	300	
Continuous performance	Rated power P <sub>n</sub> (W)	50	100	200	400	750	1000
	Rated torque T <sub>n</sub> (Nm)	0.16	0.32	0.64	1.27	2.39	3.18
	Rated speed n <sub>n</sub> (rpm)	3000	3000	3000	3000	3000	3000
	Rated current I <sub>N</sub> (A)	0.7	1.4	1.6	3.1	3.9	6.3
Maximum torque T <sub>m</sub> (Nm)	0.48	0.96	1.92	3.82	7.17	9.48	
Maximum current I <sub>m</sub> (A)	2.1	4.2	4.8	9.3	11.7	18.9	
Standstill torque T <sub>s</sub> (Nm)	0.176	0.352	0.7	1.39	2.63	3.3	
Standstill current I <sub>S</sub> (A)	0.77	1.54	1.79	3.38	4.4	6.93	
Resistance line-line R <sub>L</sub> (Ω)	16.6	5.53	8.02	3.52	1.4	0.86	
Inductance line-line L <sub>L</sub> (mH)	14	6	16.3	7.8	7.5	4.5	
Electrical time constant τ <sub>e</sub> (ms)	0.84	1.08	2.03	2.22	5.35	5.23	
Mechanical time constant τ <sub>m</sub> (ms)	1.28	0.86	2.26	1.35	0.75	0.89	
Reverse voltage constant Ke(V/krpm)	16	14	29	29	40	34	
Torque constant Kt (Nm/A)	0.265	0.265	0.48	0.48	0.662	0.562	
Rotor moment of inertia J <sub>r</sub> (Kg·cm <sup>2</sup> )	0.031	0.059	0.375	0.51	1.36	1.9	
	0.031 (with brake)	0.061 (with brake)	0.379 (with brake)	0.514 (with brake)	1.385 (with brake)	1.925 (with brake)	
Pole pair number	4	4	3	3	3	3	
Maximum voltage rising du/dt (KV/μs)	8	8	8	8	8	8	
Insulation class	F	F	F	F	F	F	
Maximum radial force F <sub>r</sub> (N)	120	120	180	180	335	335	
Maximum axial force F <sub>a</sub> (N)	60	60	90	90	167.5	167.5	
Weight	G(Kg)	0.5	0.8	1.3	1.8	3.3	3.9
		0.8 (with brake)	1.0 (with brake)	1.8 (with brake)	2.3 (with brake)	4 (with brake)	4.6 (with brake)
Length of motor	L(mm)	85.3±1	110.8±1	120	150	147	167
		119±1.5 (with brake)	145±1.5 (with brake)	159±1.5 (with brake)	189±1.5 (with brake)	197±1.5 (with brake)	217±1.5 (with brake)
Position feedback device	Incremental encoder 2500ppr						
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					