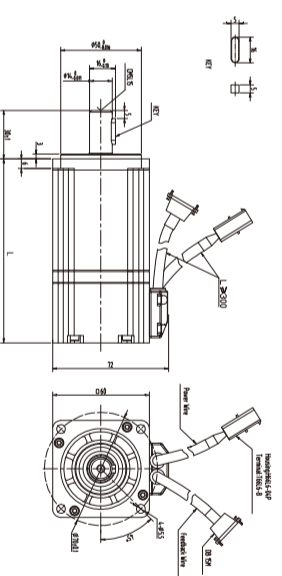


Technical Specifications of SMC Servo Motor

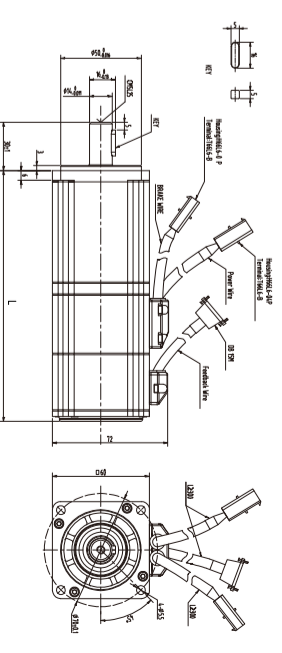
Motor series	SMC60S-0020-30A□K-3DSH	SMC60S-0040-30A□K-3DSH	SMC80S-0075-30A□K-3DSH	SMC130D-0120-30A□K-4DKR	SMC130D-0150-30A□K-4DKR
DC link voltage VDC	48	48	48	48	48
Rated power Pn(W)	200	400	750	1200	1500
Continuous performance					
Rated torque Tr(Nm)	0.64	1.27	2.39	3.8	5
Rated speed nN(rpm)	3000	3000	3000	3000	3000
Rated current In(A)	5.1	10.1	19	31.6	37.5
Maximum torque Tm(Nm)	1.92	3.81	7.17	9.5	12.5
Maximum current Im(A)	15.3	30.3	57	79	93.4
Standstill torque Ts(Nm)	0.7	1.4	2.63	4.18	5.5
Standstill current Is(A)	5.6	11.1	20.9	34.76	39.2
Resistance Line - Line RL(Ω)	0.889	0.329	0.11	0.041	0.025
Inductance Line - Line LL(mH)	1.51	0.68	0.41	0.279	0.169
Electrical time constant τ_e (ms)	1.7	2.07	3.82	0.68	0.676
Mechanical time constant τ_m (ms)	1.88	1.32	1.38	3	3
Reverse voltage constant Ke (V/krpm)	1.97 (with brake)	1.33 (with brake)	1.395 (with brake)	3 (with brake)	3 (with brake)
Torque constant Kt (Nm/A)	8	8	8	8	7.98
Torque constant Kt (Nm/A)	0.132	0.132	0.132	0.132	0.132
Torque constant Kt (Nm/A)	0.214	0.405	1.26	7.4	12
Rotor moment of inertia Jm (Kg · cm ²)	0.218 (with brake)	0.409 (with brake)	1.272 (with brake)	7.5 (with brake)	12.1 (with brake)
Brake holding torque T(Nm)	1.3	1.3	3.2	10	10
Pole pair number	3	3	3	4	4
Maximum voltage rising du/dt (kV/ μ s)	8	8	8	8	8
Insulation class	F	F	F	F	F
Maximum radial force F(N)	180	180	335	900	900
Maximum axial force F(N)	90	90	167.5	450	450
Weight G(Kg)	1.1	1.6	2.9	6.2	7.5
1.6 (with brake)	2.1 (with brake)	3.5 (with brake)	8.5 (with brake)	9.8 (with brake)	
Length of motor L(mm)	104 ± 1.5	130 ± 1.5	140 ± 1.5	147 ± 1.5	163 ± 1.5
150 ± 1.5 (with brake)	176 ± 1.5 (with brake)	187 ± 1.5 (with brake)	208 ± 1.5 (with brake)	224 ± 1.5 (with brake)	
Position feedback device	2500 PPR incremental encoder				
Cooling method	Totally enclosed, non-ventilated				
Protection level	IP65, shaft sealing IP54				
Environment conditions for operation	Temperature: -20~40°C (non-freezing) Humidity: Below 90% RH (no condensation) Ambient environment: Away from active gas, combustible gas, oil drops and dust Altitude: Maximum altitude 4000 m, rated power at 1000 m or below. Above 1000m, decreasing 1.5% per every 100m rise				

note: □=A—without brake
 □=B—brake

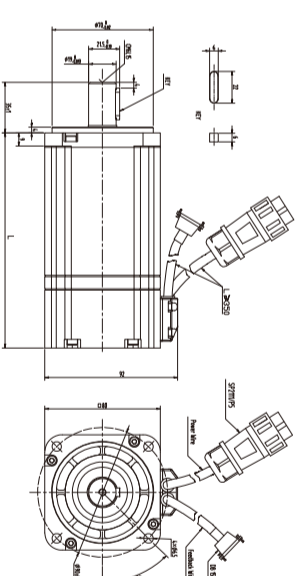
60 flange lead-out incremental encoder motor



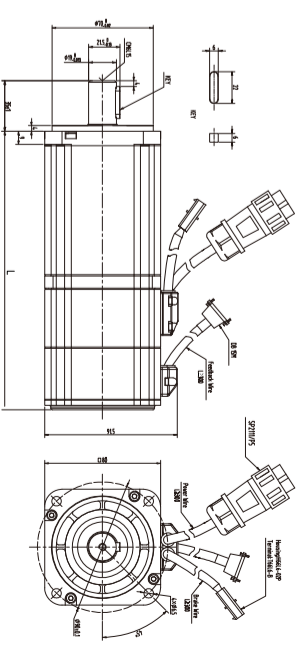
60 flange lead-out incremental encoder motor (with brake)



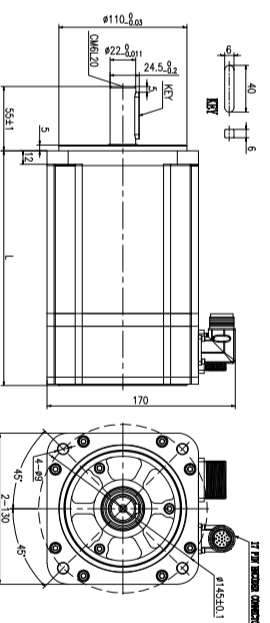
80 flange lead-out incremental encoder motor



80 flange lead-out incremental encoder motor (with brake)



130 flange common aviation socket motor



130 flange common aviation socket motor (with brake)

