

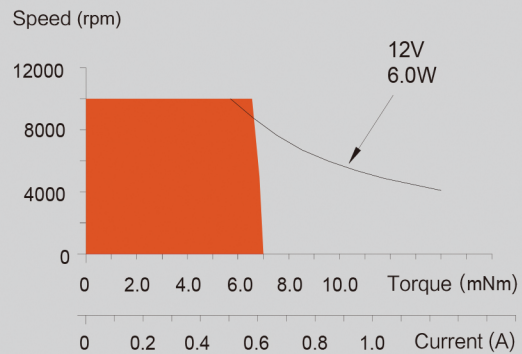
Motor Data

电机型号	Motor model			SR223806B	SR223812B	SR223818B	SR223824B	SR223836B	SR223848B
1 额定电压	Nominal voltage	V	V	6	12	18	24	36	48
2 空载转速	No load speed	rpm	Wnl	7000	11000	11000	11500	9650	9130
3 空载电流	No load current	mA	Inl	36	26	16	20	12	10
4 额定转速	Nominal speed	rpm	Wc	4650	7680	7300	8840	6500	5920
5 额定转矩	Nominal torque	mNm	Tc	4.05	6.7	7	6.9	7	6.9
6 额定电流	Nominal current	A	Ic	0.5	0.65	0.45	0.35	0.2	0.14
7 输出功率	Output power	W	Pc	2	5.39	5.36	6.39	4.76	4.28
8 堵转扭矩	Stall torque	mNm	Tmax	11.9	21.7	20.4	28.6	21.9	20
9 堵转电流	Stall current	A	I <sub>max</sub>	1.46	2.11	1.32	1.45	0.63	0.41
10 最大效率	Max. efficiency	%	η <sub>max</sub>	65	72	72	73	72	71
11 线间电阻	Terminal resistance	Ω	R <sub>t</sub>	4.1	5.7	13.6	16.5	57.1	117
12 力矩系数	Torque constant	mNm / A	K <sub>t</sub>	8.1	10.3	15.4	19.7	34.72	48.74
13 速度常数	Speed constant	rpm / V	K <sub>n</sub>	1179	925	618	486	275	196
14 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	590	494	525	385	441	457
15 线间电感	Terminal inductance	mH	L	0.239	0.376	0.866	1.05	3.55	7
16 转子转动惯量	Rotor inertia	gcm <sup>2</sup>	J	4.1	4.3	4.16	4.17	4.06	4

Specifications

- 1 ambient temperature  $T_a$  -20~+65°C
- 2 Max.winding temperature  $T_{coilmax}$  +85°C
- 3 Max.speed  $N_{max}$  12000rpm
- 4 axial play  $\Delta t$  0.05~0.15mm
- 5 number of pole pairs  $p$  1
- 6 number of commutator segments 5
- 7 weight of motor  $W_t$  60g
- 8 Max.axial load(dynamic) 3N
- 9 Max.force for press fits(static) 45N
- 10 Max.radial load,4mm from flange 12N

Operating Range



Terminal definitions

