

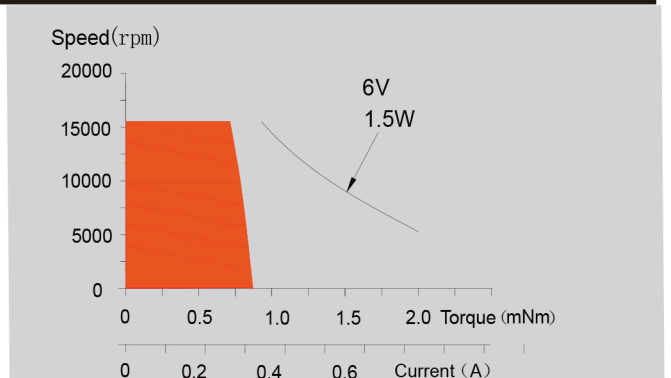
Motor Data

	Motor model			SR133003B	SR133005B	SR133006B	SR133009B	SR133012B	SR133015B	SR133024B
1	Nominal voltage	V	V	3	5	6	9	12	15	24
2	No load speed	rpm	Wnl	12500	13000	12700	12500	13800	14500	15500
3	No load current	mA	InI	92	48	48	36	28	22	15
4	Nominal speed	rpm	Wc	8400	9970	7400	8300	8620	9380	11000
5	Nominal torque	mNm	Tc	1.32	1	1.31	1.29	1.27	1.28	1.24
6	Nominal current	A	Ic	0.61	0.28	0.31	0.2	0.16	0.14	0.09
7	Output power	W	Pc	1.16	1.06	1.02	1.13	1.15	1.26	1.42
8	Stall torque	mNm	Tmax	3.61	3.9	3	3.44	3	3.3	3.7
9	Stall current	A	Imax	1.67	1.1	0.7	0.54	0.39	0.35	0.27
10	Max. efficiency	%	ηmax	69	69	53	70	58	61	67
11	Terminal resistance	Ω	Rt	1.8	4.5	8.8	16.8	30.6	42.7	90.4
12	Torque constant	mNm / A	Kt	2.16	3.51	4.2	6.4	7.71	9.26	14
13	Speed constant	rpm / V	Kn	4410	2717	2295	1488	1238	1031	684.5
14	Speed torque gradient	rpm / mNm	Δn / ΔT	3112	2893	4113	3200	4079	3999	3687
15	Terminal inductance	mH	L	0.19	0.102	0.152	0.8	0.63	0.878	1.9
16	Rotor inertia	gcm <sup>2</sup>	J	0.3	0.32	0.32	0.32	0.31	0.32	0.32

Specifications

- 1 ambient temperature  $T_a$  -20~+65°C
- 2 Max.winding temperature  $T_{coilmax}$  +125°C
- 3 Max.speed  $N_{max}$  16000rpm
- 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  $W_t$  20g
- 8 Max.axial load(dynamic) 0.8N
- 9 Max.force for press fits(static) 15N
- 10 Max.radial load,4mm from flange 1.4N

Operating Range



Terminal definitions

