

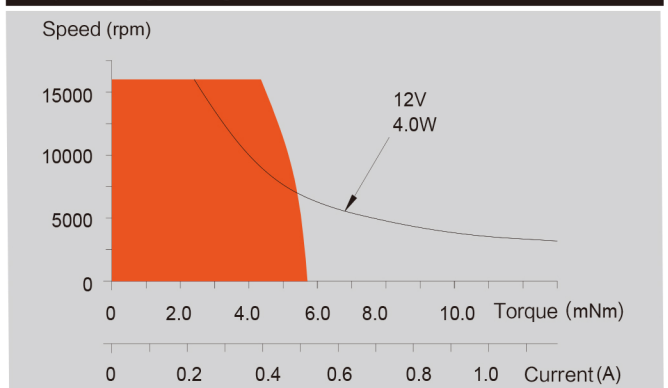
Motor Data

Motor model			SR223106B	SR223109B	SR223112B	SR223118B	SR223124B	SR223136B
1 Nominal voltage	V	V	6	9	12	18	24	36
2 No load speed	rpm	Wnl	10900	11800	12000	10800	12000	10800
3 No load current	mA	InI	38	40	24	18	14	12
4 Nominal speed	rpm	Wc	6900	6200	7200	6320	5136	6460
5 Nominal torque	mNm	Tc	5	5	5	5	5	5
6 Nominal current	A	Ic	0.98	0.7	0.53	0.33	0.27	0.17
7 Output power	W	Pc	3.61	3.26	3.8	3.31	2.7	3.38
8 Stall torque	mNm	Tmax	14	10.38	12.36	12.1	8.55	12.4
9 Stall current	A	Imax	2.37	1.45	1.32	0.79	0.46	0.41
10 Max. efficiency	%	ηmax	79	78	79	79	42	77
11 Terminal resistance	Ω	Rt	2.2	6.2	9.1	22.8	52	87.6
12 Torque constant	mNm / A	Kt	5.12	7.15	9.38	15.27	18.52	30.28
13 Speed constant	rpm / V	Kn	1866	1336	1018	625	516	315
14 Speed torque gradient	rpm / mNm	Δn / ΔT	781	1114	944	896	1372	868
15 Terminal inductance	mH	L	0.09	0.1	0.209	0.87	1.12	2.99
16 Rotor inertia	gcm <sup>2</sup>	J	2.74	2.74	2.74	2.84	2.62	2.33

Specifications

- 1 ambient temperature Ta -20~+65°C
- 2 Max.winding temperature Tcoilmax +125°C
- 3 Max.speed Nmax 12000rpm
- 4 axial play Δt 0.05~0.15mm
- 5 number of pole pairs p 1
- 6 number of commutator segments 5
- 7 weight of motor Wt 50g
- 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

