

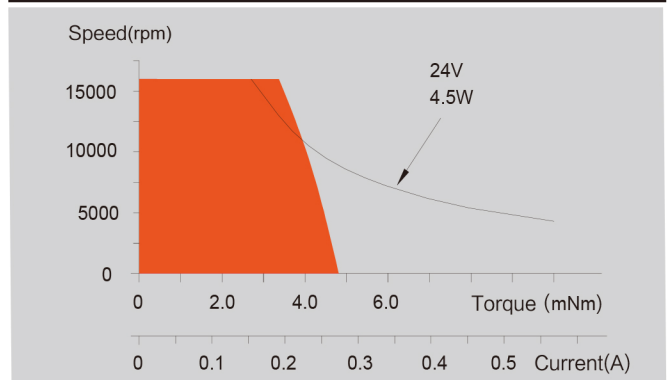
Motor Data

	Motor model			SR165006B	SR165012B	SR165018B	SR165024B	SR165036B	SR165048B
1	Nominal voltage	V	V	6	12	18	24	36	48
2	No load speed	rpm	Wnl	14500	13900	13200	14500	14100	14000
3	No load current	mA	Inl	56	26	36	20	14	12
4	Nominal speed	rpm	Wc	12800	11700	11500	12620	12200	12100
5	Nominal torque	mNm	Tc	2.6	3.9	4.3	4.4	4.3	4.4
6	Nominal current	A	Ic	0.66	0.47	0.34	0.28	0.18	0.13
7	Output power	W	Pc	3.5	4.8	5.2	5.8	5.5	5.6
8	Stall torque	mNm	Tmax	21.3	28.3	31.2	31.83	36.3	37.3
9	Stall current	A	I <sub>max</sub>	5.45	3.43	2.43	2.03	1.49	1.14
10	Max. efficiency	%	η <sub>max</sub>	87.2	84.2	86	86	86.5	86.4
11	Terminal resistance	Ω	R <sub>t</sub>	1.1	3.5	7.4	11.8	24.2	42.1
12	Torque constant	mNm / A	K <sub>t</sub>	3.91	8.24	12.83	15.65	24.38	32.74
13	Speed constant	rpm / V	K <sub>n</sub>	2442	1174	744	610	397	296
14	Speed torque gradient	rpm / mNm	Δn / ΔT	628.9	492	383	427	389	375
15	Terminal inductance	mH	L	0.034	0.544	0.304	0.63	0.986	1.69
16	Rotor inertia	gcm <sup>2</sup>	J	1.37	1.33	1.28	1.26	1.24	1.2

Specifications

- 1 ambient temperature Ta -20~+65°C
- 2 Max.winding temperature Tcoilmax +125°C
- 3 Max.speed Nmax 16000rpm
- 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 45g
- 8 Max.axial load(dynamic) 0.8N
- 9 Max.force for press fits(static) 15N
- 10 Max.radial load,4mm from flange 1.5N

Operating Range



Terminal definitions

