

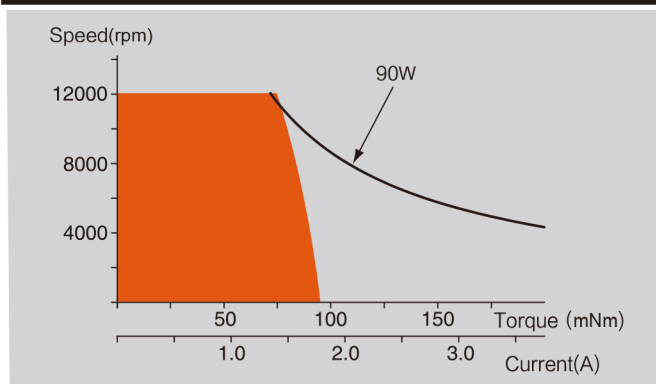
Motor Data

Motor model			SR358512G	SR358515G	SR358524G	SR358530G	SR358548G
1 Nominal voltage	V	V	12	15	24	30	48
2 No load speed	rpm	Wnl	7200	7270	8000	7270	8100
3 No load current	mA	Inl	330	220	190	124	59
4 Nominal speed	rpm	Wc	6550	6580	7200	6490	7000
5 Nominal torque	mNm	Tc	89.4	97	119	97.2	97
6 Nominal current	A	Ic	5.6	4.9	4.17	2.62	1.7
7 Output power	W	Pc	61	66	90	66	72
8 Stall torque	mNm	Tmax	950	981	1200	973	777
9 Stall current	A	Imax	60	50	42	25	13.8
10 Max. efficiency	%	ηmax	87	90	90	85	85
11 Terminal resistance	Ω	Rt	0.2	0.3	0.57	1.2	3.48
12 Torque constant	mNm / A	Kt	15.8	19.62	28.5	38.9	56.3
13 Speed constant	rpm / V	Kn	602	486	335	246	169
14 Speed torque gradient	rpm / mNm	Δn / ΔT	7.24	7.1	6.36	7.57	10
15 Terminal inductance	mH	L	0.05	0.08	0.24	0.35	0.95
16 Rotor inertia	gcm ²	J	68.2	68.2	79.4	68.2	68.2

Specifications

- 1 ambient temperature Ta -30~+100°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 13
- 7 weight of motor Wt 354g
- 8 Max.axial load(dynamic) 5.6N
- 9 Max.force for press fits(static) 110N
- 10 Max.radial load,4mm from flange 28N

Operating Range



Terminal definitions

