

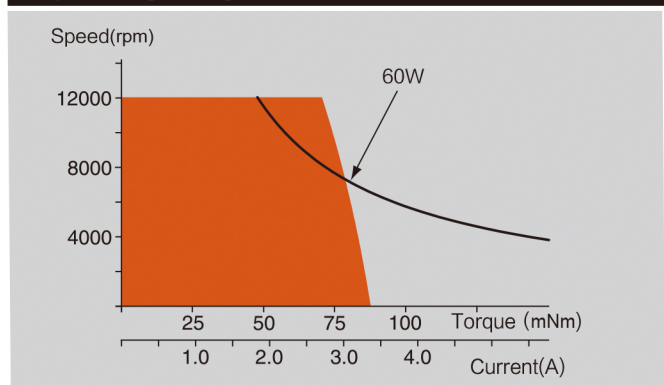
Motor Data

电机型号	Motor model			SR308112G	SR308118G	SR308124G	SR308148G
1 额定电压	Nominal voltage	V	V	12	18	24	48
2 空载转速	No load speed	rpm	Wnl	7900	8270	8380	8490
3 空载电流	No load current	mA	Inl	350	260	150	100
4 额定转速	Nominal speed	rpm	Wc	7470	7560	7600	7690
5 额定转矩	Nominal torque	mNm	Tc	51.6	75.5	85.6	89.7
6 额定电流	Nominal current	A	Ic	3.58	3.67	3.15	1.66
7 输出功率	Output power	W	Pc	40	60	68	72
8 堵转扭矩	Stall torque	mNm	Tmax	865.2	805	669	918.9
9 堵转电流	Stall current	A	I _{max}	60	39.1	24.6	17.08
10 最大效率	Max. efficiency	%	η_{max}	90	86	90	88
11 线间电阻	Terminal resistance	Ω	Rt	0.2	0.46	0.71	2.81
12 力矩系数	Torque constant	mNm / A	Kt	14.4	20.6	27.2	53.8
13 速度常数	Speed constant	rpm / V	Kn	663	463	349	177.5
14 速度扭矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	8.3	9.4	9.1	8.9
15 线间电感	Terminal inductance	mH	L	0.036	0.039	0.138	0.588
16 转子转动惯量	Rotor inertia	gcm ²	J	34.4	36.1	34.2	35.2

Specifications

1 ambient temperature	T _a	-30~+100 °C
2 Max.winding temperature	T _{coilmax}	+125 °C
3 Max.speed	N _{max}	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	W _t	274 g
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

1	Red	Motor +	Magnet Encoder 3 Channel 1000CPT
2	Red	+5V	
3	Red	GND	
4	Red	Channel A-	
5	Red	Channel A+	
6	Red	Channel B-	
7	Red	Channel B+	
8	Red	Channel Z-	
	Red	Channel Z+	
	Black	Motor -	