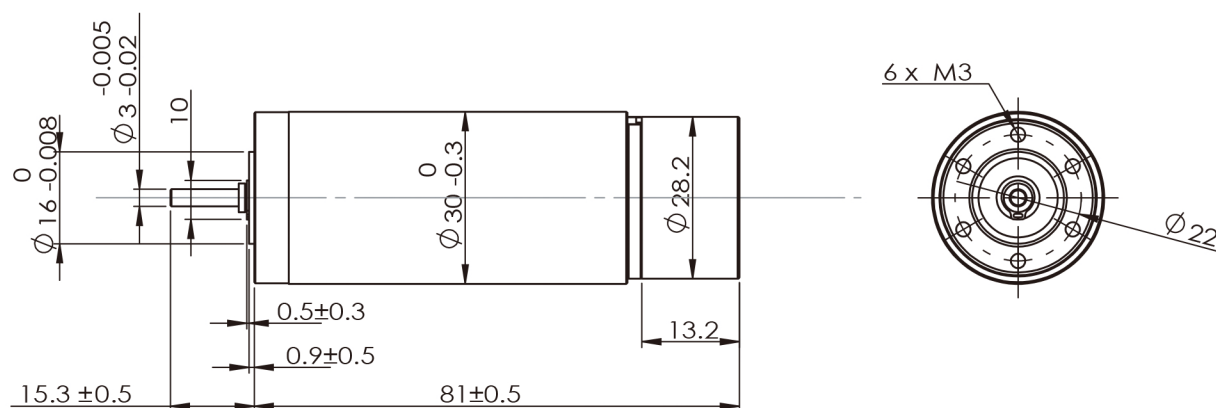




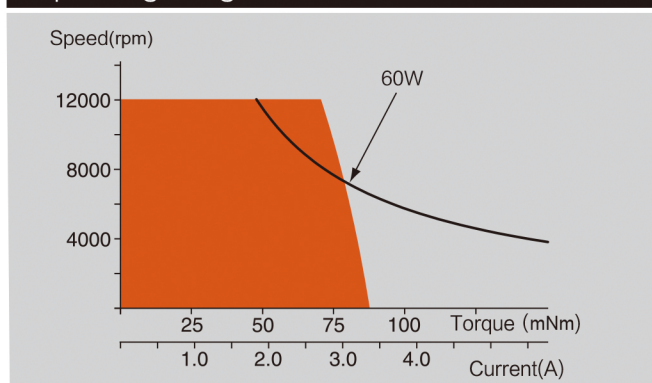
Motor Data

电机型号	Motor model			SR308112G	SR308124G	SR308148G	
1 额定电压	Nominal voltage	V	V	12	24	48	
2 空载转速	No load speed	rpm	Wnl	7900	8380	8490	
3 空载电流	No load current	mA	InI	350	170	100	
4 额定转速	Nominal speed	rpm	Wc	7470	7600	7690	
5 额定转矩	Nominal torque	mNm	Tc	51.6	85.6	89.7	
6 额定电流	Nominal current	A	Ic	3.58	3.15	1.66	
7 输出功率	Output power	W	Pc	40	68	72	
8 堵转转矩	Stall torque	mNm	Tmax	865.2	669	918.9	
9 堵转电流	Stall current	A	Imax	60	24.6	17.08	
10 最大效率	Max. efficiency	%	η_{max}	90	80	88	
11 线间电阻	Terminal resistance	Ω	Rt	0.2	0.71	2.81	
12 力矩系数	Torque constant	mNm / A	Kt	14.4	27.2	53.8	
13 速度常数	Speed constant	rpm / V	Kn	663	349	177.5	
14 速度扭矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	8.3	9.1	8.9	
15 线间电感	Terminal inductance	mH	L	0.036	0.23	0.588	
16 转子转动惯量	Rotor inertia	gcm ²	J	34.4	34.2	35.2	

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