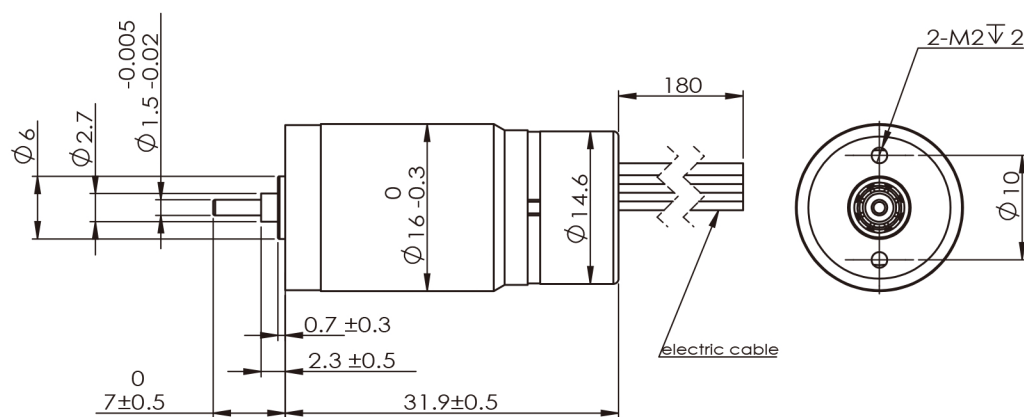




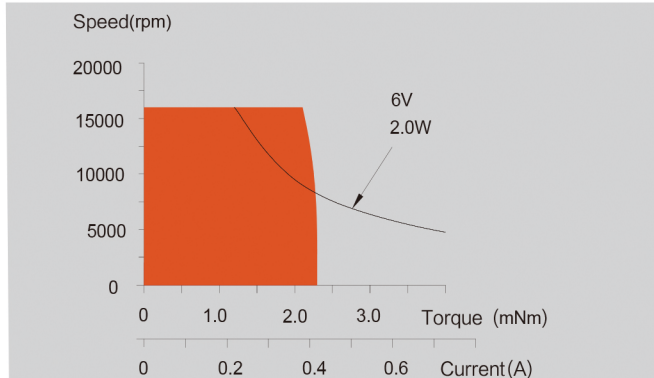
Motor Data

电机型号	Motor model			SR163206B	SR163209B	SR163212B	SR163215B	SR163224B
1 额定电压	Nominal voltage	V	V	6	9	12	15	24
2 空载转速	No load speed	rpm	WnI	11000	12300	14500	12500	15200
3 空载电流	No load current	mA	InI	41	34	40	30	20
4 额定转速	Nominal speed	rpm	Wc	6700	7580	10900	9000	13000
5 额定转矩	Nominal torque	mNm	Tc	1.5	1.5	1.5	2.15	1.5
6 额定电流	Nominal current	A	Ic	0.31	0.23	0.2	0.2	0.1
7 输出功率	Output power	W	Pc	1.06	1.19	1.73	2.05	2.05
8 堵转扭矩	Stall torque	mNm	Tmax	3.55	4.5	5.26	7	8.9
9 堵转电流	Stall current	A	Imax	0.72	0.7	0.71	0.64	0.61
10 最大效率	Max. efficiency	%	η_{max}	71	75	71	70	83
11 线间电阻	Terminal resistance	Ω	Rt	8.3	12.8	17	23.4	39.3
12 力矩系数	Torque constant	mNm / A	Kt	4.91	6.43	7.46	10.92	14.58
13 速度常数	Speed constant	rpm / V	Kn	1943	1485	1281	874	655
14 速度扭矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	2842	2720	2340	1587	1421
15 线间电感	Terminal inductance	mH	L	0.17	0.23	0.28	0.75	0.9
16 转子转动惯量	Rotor inertia	gcm ²	J	0.65	0.64	0.62	0.62	0.6

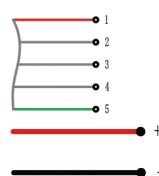
Specifications

1 ambient temperature	Ta	-20~+65°C
2 Max.winding temperature	Tcoilmax	+85°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	26g
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



Red Motor +
1 +5V
2 GND
3 Channel Z
4 Channel B
5 Channel A
Black Motor -

Magnet Encoder
3 Channel
1000CPT