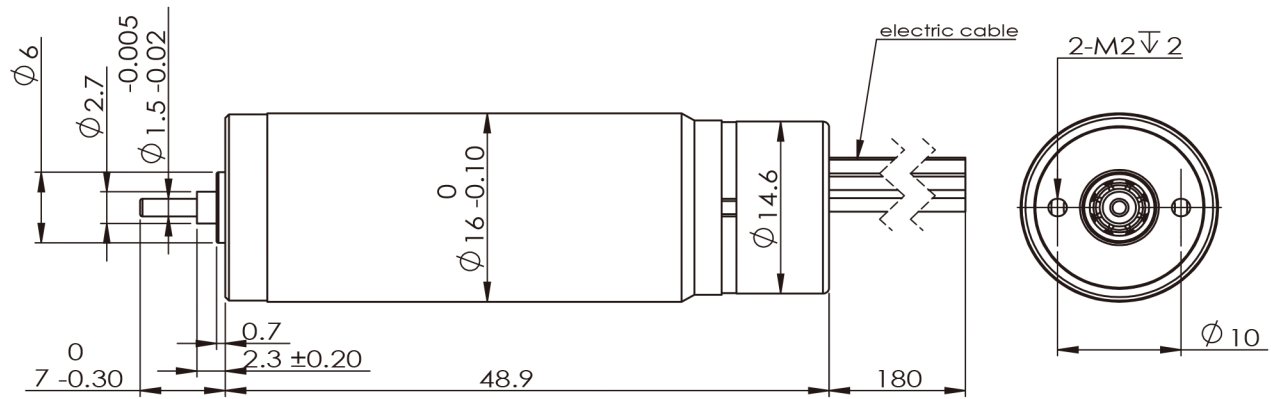




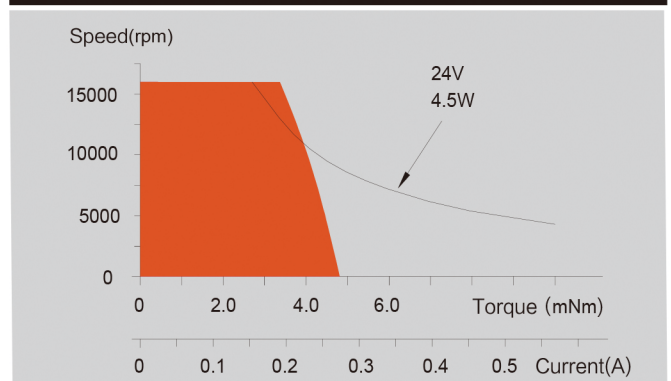
Motor Data

电机型号	Motor model			SR165003B	SR165006B	SR165012B	SR165018B	SR165024B	SR165036B	SR165048B
1 额定电压	Nominal voltage	V	V	3	6	12	18	24	36	48
2 空载转速	No load speed	rpm	Wnl	8400	14500	13900	13200	14500	14100	14000
3 空载电流	No load current	mA	Inl	90	56	26	36	20	14	12
4 额定转速	Nominal speed	rpm	Wc	7400	12800	11700	11500	12620	12200	12100
5 额定转矩	Nominal torque	mNm	Tc	3.5	2.6	3.9	4.3	4.4	4.3	4.4
6 额定电流	Nominal current	A	Ic	1.04	0.66	0.47	0.34	0.28	0.18	0.13
7 输出功率	Output power	W	Pc	2.7	3.5	4.8	5.2	5.8	5.5	5.6
8 堵转转矩	Stall torque	mNm	Tmax	29.8	21.3	28.3	31.2	31.83	36.3	37.3
9 堵转电流	Stall current	A	I _{max}	8.82	5.45	3.43	2.43	2.03	1.49	1.14
10 最大效率	Max. efficiency	%	η _{max}	87	87.2	84.2	86	86	86.5	86.4
11 线间电阻	Terminal resistance	Ω	R _t	0.34	1.1	3.5	7.4	11.8	24.2	42.1
12 力矩系数	Torque constant	mNm / A	K _t	3.38	3.91	8.24	12.83	15.65	24.38	32.74
13 速度常数	Speed constant	rpm / V	K _n	2825	2442	1174	744	610	397	296
14 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	285	628.9	492	383	427	389	375
15 线间电感	Terminal inductance	mH	L	0.014	0.034	0.544	0.304	0.63	0.986	1.69
16 转子转动惯量	Rotor inertia	gcm ²	J	1.35	1.37	1.33	1.28	1.26	1.24	1.2

Specifications

1 ambient temperature	T _a	-20~+65°C
2 Max.winding temperature	T _{coilmax}	+85°C
3 Max.speed	N _{max}	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	W _t	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

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