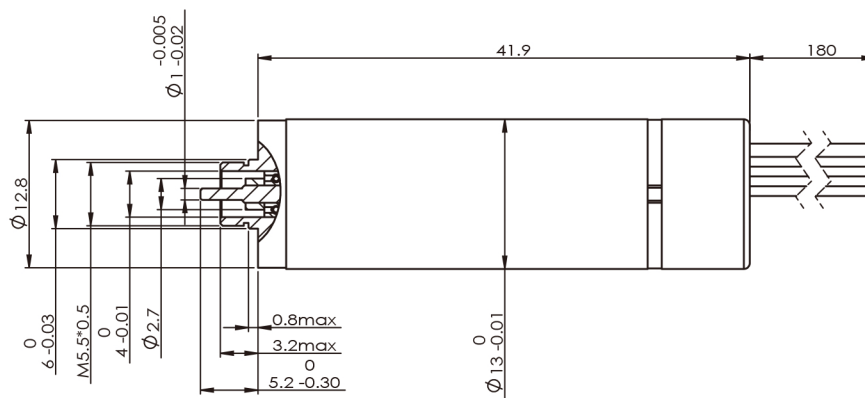




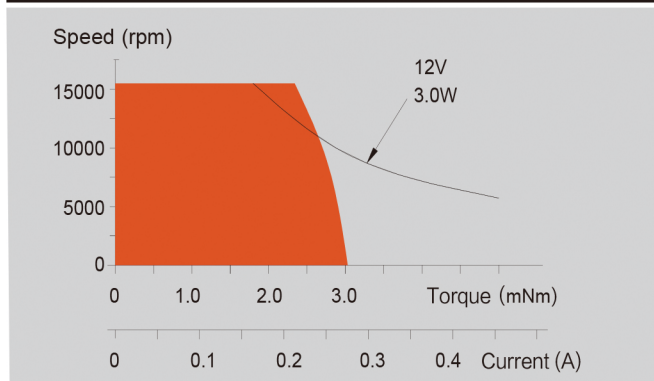
Motor Data

电机型号	Motor model			SR134203B	SR134206B	SR134207B	SR134209B	SR134212B	SR134218B	SR134224B
1 额定电压	Nominal voltage	V	V	3	6	7.2	9	12	18	24
2 空载转速	No load speed	rpm	Wnl	11600	13300	12500	12500	12500	12800	13800
3 空载电流	No load current	mA	Inl	100	42	32	22	18	15	12
4 额定转速	Nominal speed	rpm	Wc	10400	10400	9900	10100	10300	10000	11700
5 额定转矩	Nominal torque	mNm	Tc	2	2.3	2.4	2.5	2.4	2.5	2.4
6 额定电流	Nominal current	A	Ic	0.82	0.53	0.44	0.37	0.27	0.19	0.15
7 输出功率	Output power	W	Pc	2.2	2.5	2.5	2.6	2.6	2.6	2.9
8 堵转转矩	Stall torque	mNm	Tmax	15.6	11.7	11.14	12.7	13.3	12.8	15.1
9 堵转电流	Stall current	A	I _{max}	6.52	2.73	2.06	1.88	1.46	0.95	0.92
10 最大效率	Max. efficiency	%	η _{max}	87	78.2	76.3	78.1	78.3	78.1	84
11 线间电阻	Terminal resistance	Ω	R _t	0.46	2.2	3.5	4.8	8.2	18.9	26.1
12 力矩系数	Torque constant	mNm / A	K _t	2.4	4.31	5.41	6.79	9.05	13.43	16.39
13 速度常数	Speed constant	rpm / V	K _n	3995	2298	1763	1405	1054	734	583
14 速度扭矩比	Speed torque gradient	rpm / mNm	Δn / ΔT	677	1261	1057	933	890	1120	852
15 线间电感	Terminal inductance	mH	L	0.012	0.062	0.101	0.15	0.271	0.641	0.982
16 转子转动惯量	Rotor inertia	gcm ²	J	0.7	0.6	0.54	0.56	0.57	0.58	0.58

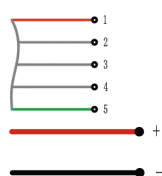
Specifications

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	2p	1
6 number of commutator segments		5
7 weight of motor	W _t	27g
8 Max.axial load(dynamic)		0.8N
9 Max.force for press fits(static)		15N
10 Max.radial load,4mm from flange		1.4N

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