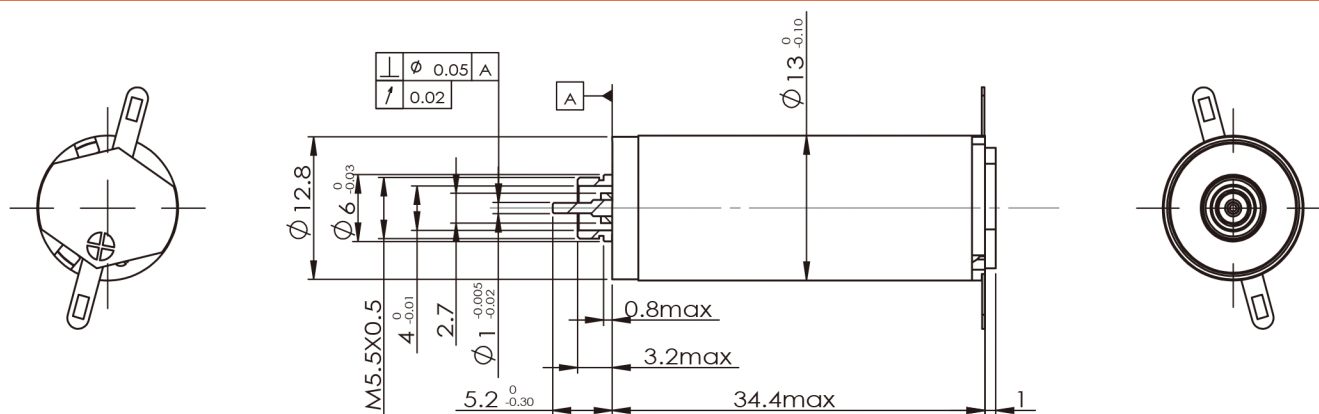




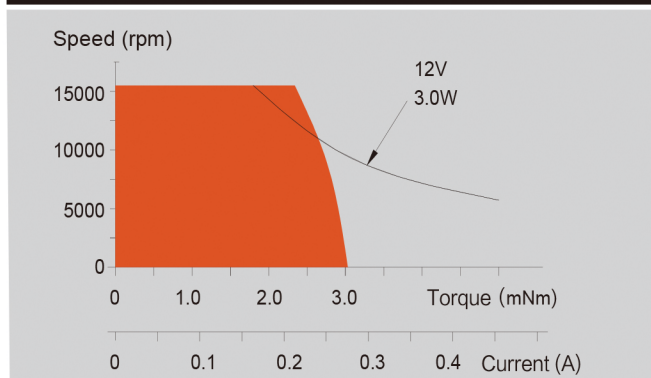
Motor Data

电机型号	Motor model			DR133503B	DR133506B	DR133507B	DR133509B	DR133512B	DR133518B	DR133524B
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	15500
3 空载电流	No load current	mA	InI	100	42	32	22	18	15	12
4 额定转速	Nominal speed	rpm	Wc	10400	10400	9900	10100	10300	10000	12900
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	0.84	0.53	0.44	0.37	0.27	0.19	0.16
7 输出功率	Output power	W	Pc	2.2	2.5	2.5	2.6	2.6	2.6	3.24
8 堵转转矩	Stall torque	mNm	Tmax	15.6	11.7	11.14	12.7	13.3	12.8	13.42
9 堵转电流	Stall current	A	Imax	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	82
11 线间电阻	Terminal resistance	Ω	Rt	0.46	2.2	3.5	4.8	8.2	18.9	26.1
12 力矩系数	Torque constant	mNm / A	Kt	2.4	4.31	5.41	6.79	9.05	13.43	14.59
13 速度常数	Speed constant	rpm / V	Kn	3995	2298	1763	1405	1054	734	654
14 速度转矩比	Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	677	1261	1057	933	890	1120	1085
15 线间电感	Terminal inductance	mH	L	0.012	1.2	1.05	0.58	1.09	1.28	1.1
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

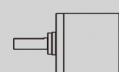
Specifications

1 ambient temperature	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	23g
8 Max.axial load(dynamic)		0.8N
9 Max.force for press fits(static)		15N
10 Max.radial load,4mm from flange		1.4N

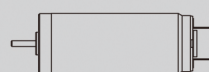
Operating Range



SMJ Modular System



Planetary Gearhead
Type P12H
Diameter $\phi 12$
Torque 0.008~0.2N·m
See page 35



Magnet Encoder
1000 CPT
3 channels
see page 32