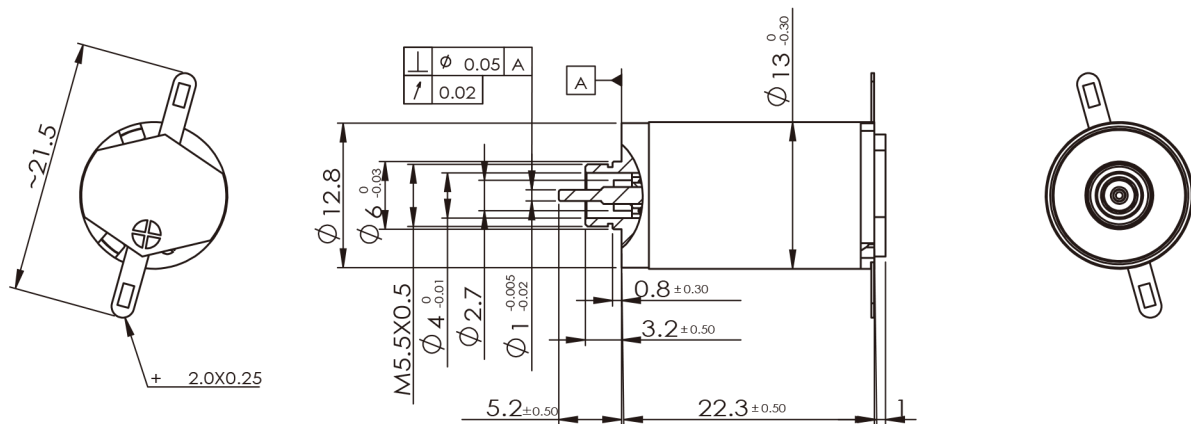




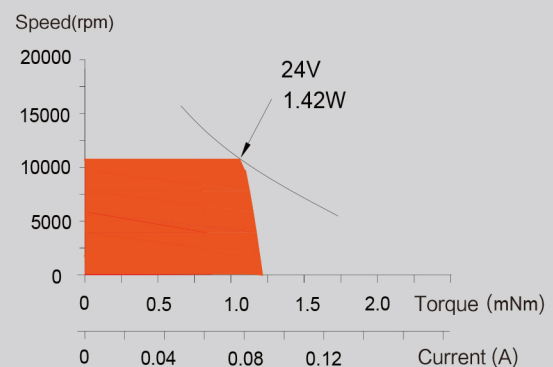
Motor Data

Motor model			DR132203B	DR132205B	DR132206B	DR132209B	DR132212B	DR132215B	DR132224B
1 Nominal voltage	V	V	3	5	6	9	12	15	24
2 No load speed	rpm	Wnl	12500	13000	12700	12500	13800	14500	15500
3 No load current	mA	InI	92	48	48	36	28	22	15
4 Nominal speed	rpm	Wc	8400	9970	7400	8300	8620	9380	11000
5 Nominal torque	mNm	Tc	1.32	1	1.31	1.29	1.27	1.28	1.24
6 Nominal current	A	Ic	0.61	0.28	0.31	0.2	0.16	0.14	0.09
7 Output power	W	Pc	1.16	1.06	1.02	1.13	1.15	1.26	1.42
8 Stall torque	mNm	Tmax	3.61	3.9	3	3.44	3	3.3	3.7
9 Stall current	A	Imax	1.67	1.1	0.7	0.54	0.39	0.35	0.27
10 Max. efficiency	%	ηmax	69	69	53	70	58	61	67
11 Terminal resistance	Ω	Rt	1.8	4.5	8.8	16.8	30.6	42.7	90.4
12 Torque constant	mNm / A	Kt	2.16	3.51	4.2	6.4	7.71	9.26	14
13 Speed constant	rpm / V	Kn	4410	2717	2295	1488	1238	1031	684.5
14 Speed torque gradient	rpm / mNm	Δn / ΔT	3112	2893	4113	3200	4079	3999	3687
15 Terminal inductance	mH	L	0.19	0.102	0.152	0.8	0.63	0.878	1.9
16 Rotor inertia	gcm ²	J	0.3	0.32	0.32	0.32	0.31	0.32	0.32

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	17050 rpm
4 axial play	Δt	0.05-0.15 mm
5 number of pole pairs	2p	1
6 number of commutator segments		5
7 weight of motor	Wt	16 g
8 Max. axial load (dynamic)		0.8N
9 Max. force for press fits (static)		15N
10 Max. radial load, 4 mm from flange		1.4N

Operating Range



SMJ Modular System

Planetary Gearhead	Encoder
Model number P12H	1000 CPT
Outside Diameter φ12	3 Channels
Torque 0.004~0.2N·m	see page 45
See page 47	