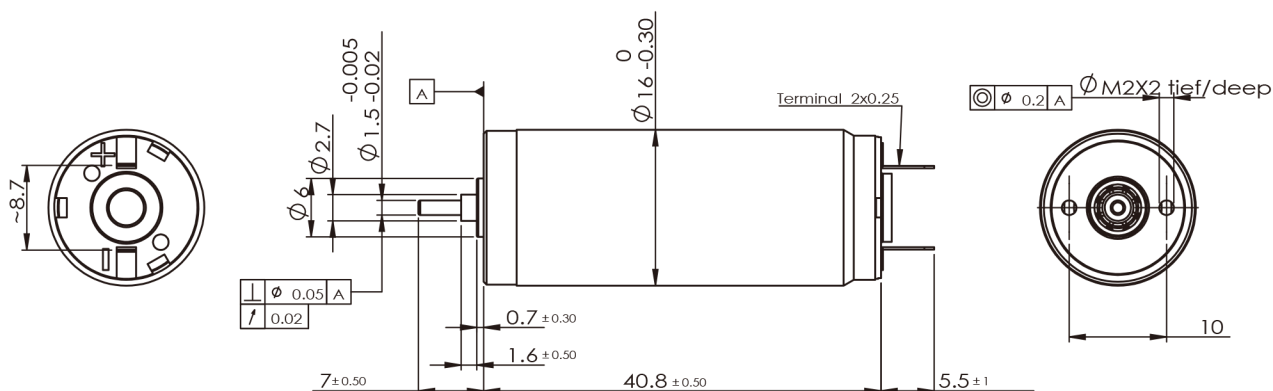




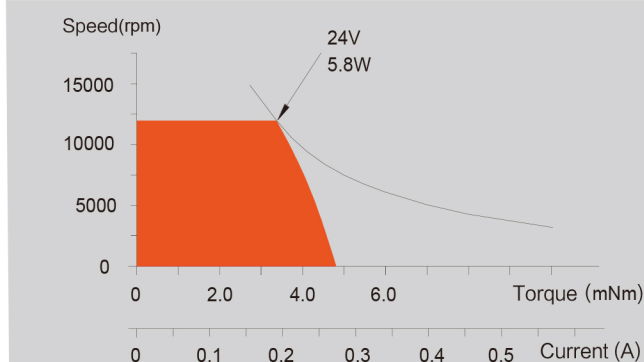
Motor Data

Motor model			DR164106B	DR164112B	DR164118B	DR164124B	DR164136B	DR164148B
1 Nominal voltage	V	V	6	12	18	24	36	48
2 No load speed	rpm	Wnl	14500	13900	13200	14500	14100	14000
3 No load current	mA	Inl	56	26	36	20	14	12
4 Nominal speed	rpm	Wc	12800	11700	11500	12620	12200	12100
5 Nominal torque	mNm	Tc	2.6	3.9	4.3	4.4	4.3	4.4
6 Nominal current	A	Ic	0.66	0.47	0.34	0.28	0.18	0.13
7 Output power	W	Pc	3.5	4.8	5.2	5.8	5.5	5.6
8 Stall torque	mNm	Tmax	21.3	28.3	31.2	31.83	36.3	37.3
9 Stall current	A	I _{max}	5.45	3.43	2.43	2.03	1.49	1.14
10 Max. efficiency	%	η _{max}	87.2	84.2	86	86	86.5	86.4
11 Terminal resistance	Ω	R _t	1.1	3.5	7.4	11.8	24.2	42.1
12 Torque constant	mNm / A	K _t	3.91	8.24	12.83	15.65	24.38	32.74
13 Speed constant	rpm / V	K _n	2442	1174	744	610	397	296
14 Speed torque gradient	rpm / mNm	Δn / ΔT	628.9	492	383	427	389	375
15 Terminal inductance	mH	L	0.034	0.544	0.304	0.63	0.986	1.69
16 Rotor inertia	gcm ²	J	1.37	1.33	1.28	1.26	1.24	1.2

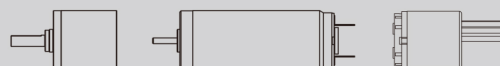
Specifications

1 ambient temperature	T _a	-20~+65 °C
2 max. winding temperature	T _{coilmax}	+85 °C
3 max. speed	N _{max}	15950 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	W _t	40 g
8 Max. axial load (dynamic)		0.8N
9 Max. force for press fits (static)		15N
10 Max. radial load, 4 mm from flange		1.5N

Operating Range



SMJ Modular System



Planetary Gearhead
Model number P16H
Outside Diameter φ16
Torque 0.01~0.4N·m
See page 48

Encoder
1000 CPT
3 Channels
see page 45