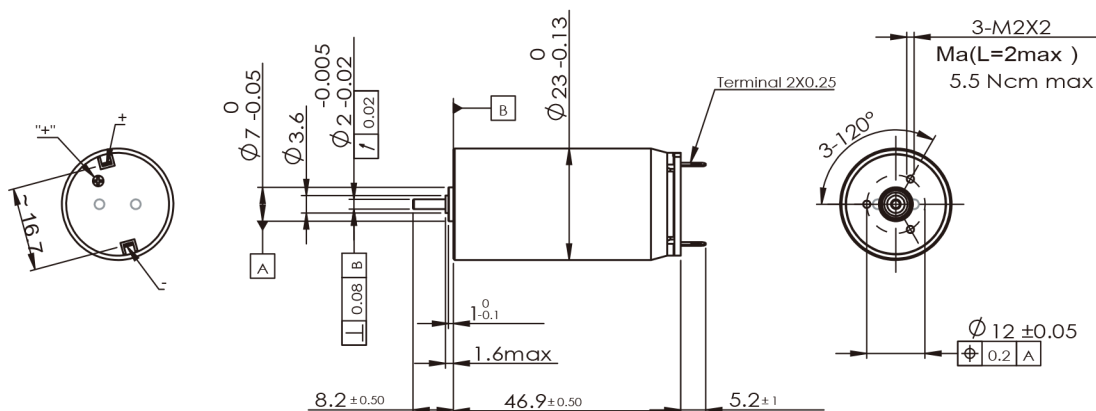




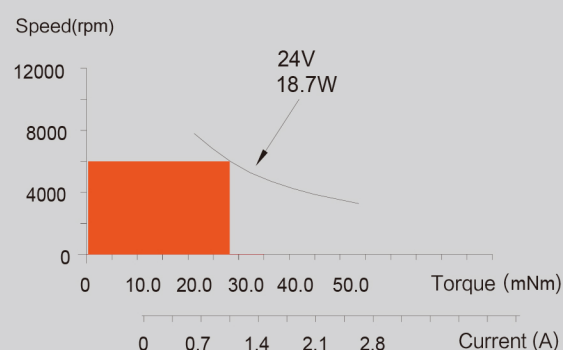
Motor Data

Motor model			DR234709B	DR234712B	DR234724B-01	DR234724B-02	DR234736B	DR234748B
1 Nominal voltage	V	V	9	12	24	24	36	48
2 No load speed	rpm	Wnl	7370	11500	7570	11000	11500	11000
3 No load current	mA	InI	<40	<80	<18	<40	<20	<15
4 Nominal speed	rpm	Wc	6160	10000	6350	9860	10000	9528
5 Nominal torque	mNm	Tc	17	20.5	28.1	26.7	25	25
6 Nominal current	A	Ic	1.46	2.06	0.93	1.29	0.83	0.6
7 Output power	W	Pc	11	22.2	18.7	27.5	26.2	25
8 Stall torque	mNm	Tmax	101	195	126.8	243.1	190	183
9 Stall current	A	Imax	8.74	19.7	4.2	11.7	6.4	4.4
10 Max. efficiency	%	ηmax	83	80	80	80	86	86
11 Terminal resistance	Ω	Rt	1.03	0.61	5.7	2.05	5.65	10.88
12 Torque constant	mNm / A	Kt	11.6	9.9	30.2	20.7	29.8	41.5
13 Speed constant	rpm / V	Kn	823	962	315	460	320	230
14 Speed torque gradient	rpm / mNm	Δn / ΔT	71.2	57	43.4	44	59	59
15 Terminal inductance	mH	L	0.11	0.25	0.45	1.07	2.6	4.4
16 Rotor inertia	gcm ²	J	9.7	9.4	9.4	9.4	9.4	9.4

Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+85 °C
3 max. speed	Nmax	12650 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	95 g
8 Max. axial load (dynamic)		3N
9 Max. force for press fits (static)		45N
10 Max. radial load, 4 mm from flange		12N

Operating Range



SMJ Modular System

Planetary Gearhead	Encoder
Model number P22H	1000 CPT
Outside Diameter φ22	3 Channels
Torque 0.021~1.2N·m	see page 46
See page 49	