

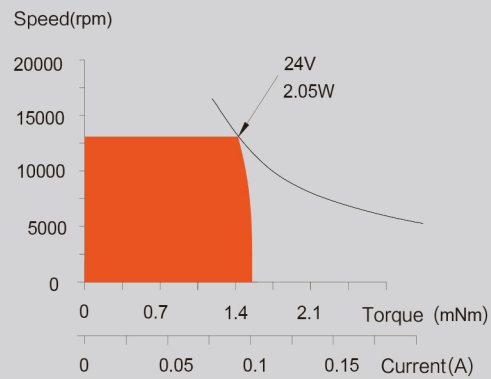
Motor Data

Motor model			DR162406B	DR162409B	DR162412B	DR162415B	DR162424B
1 Nominal voltage	V	V	6	9	12	15	24
2 No load speed	rpm	Wnl	11000	12300	14500	12500	15200
3 No load current	mA	InI	41	34	40	30	20
4 Nominal speed	rpm	Wc	6700	7580	10900	9000	13000
5 Nominal torque	mNm	Tc	1.5	1.5	1.5	2.15	1.5
6 Nominal current	A	Ic	0.31	0.23	0.2	0.2	0.1
7 Output power	W	Pc	1.06	1.19	1.73	2.05	2.05
8 Stall torque	mNm	Tmax	3.55	4.5	5.26	7	8.9
9 Stall current	A	Imax	0.72	0.7	0.71	0.64	0.61
10 Max. efficiency	%	η_{max}	71	75	71	70	83
11 Terminal resistance	Ω	Rt	8.3	12.8	17	23.4	39.3
12 Torque constant	mNm / A	Kt	4.91	6.43	7.46	10.92	14.58
13 Speed constant	rpm / V	Kn	1943	1485	1281	874	655
14 Speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	2842	2720	2340	1587	1421
15 Terminal inductance	mH	L	0.17	0.23	0.28	0.75	0.9
16 Rotor inertia	gcm ²	J	0.65	0.64	0.62	0.62	0.6

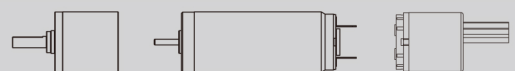
Specifications

1 ambient temperature	Ta	-20~+65 °C
2 max. winding temperature	Tcoilmax	+125 °C
3 max. speed	Nmax	16720 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	21 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 $\phi 16$
 Torque 0.004~0.4N·m
 See page 48

Encoder
 1000 CPT
 3 Channels
 see page 45