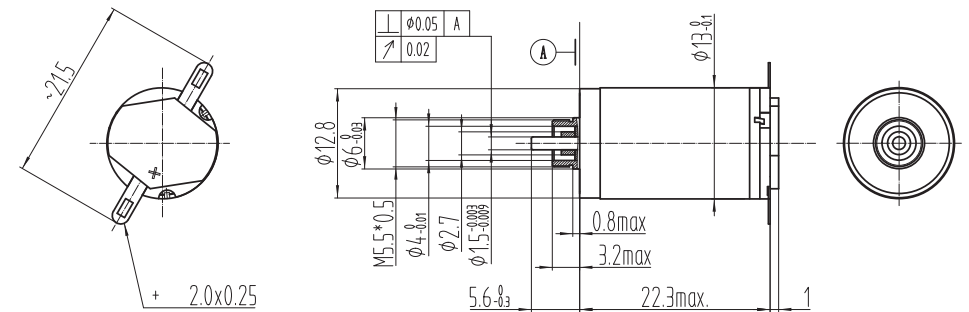




DC MOTOR (CORELESS)

DC coreless motor characteristics : no cogging , high acceleration performance due to using low inertia rotor , low electromagnetic interference , high efficiency , multi-segment commutator , small torque fluctuation , short time overload , compact structure , can match to a variety of gear boxes and encoders.

DR1322B | Graphite Brush



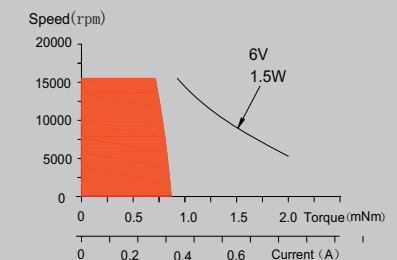
Motor Data

	motor model			DR132203B	DR132206B	DR132209B	DR132212B	DR132215B
1	nominal voltage	V	V	3	6	9	12	15
2	no load speed	rpm	Wnl	13200	12700	12300	12400	13200
3	no load current	mA	Inl	92	48	36	28	22
4	nominal speed	rpm	Wc	8400	7500	7100	7050	7960
5	nominal torque	mNm	Tc	1.32	1.31	1.29	1.27	1.28
6	nominal current	A	Ic	0.69	0.33	0.21	0.16	0.13
7	output power	W	Pc	1.16	1.03	0.96	0.94	1.07
8	stall torque	mNm	Tmax	3.2	3.4	3.3	3.2	3.4
9	stall current	A	Imax	1.67	0.85	0.54	0.39	0.35
10	max. efficiency	%	η_{max}	69	69	70	69	69
11	terminal resistance	Ω	Rt	1.8	7.1	16.8	30.6	42.7
12	torque constant	mNm / A	Kt	1.91	4.01	6.2	8.18	9.65
13	speed constant	rpm / V	Kn	4993	2382	1539	1167	990
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	4220	4338	4487	4677	4645

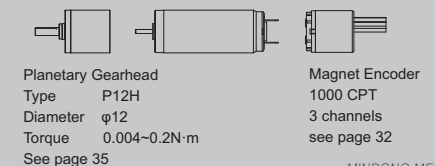
Specifications

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	2p	1
6	number of commutator segments		5
7	weight of motor	Wt	16g
8	Max.axial load(dynamic)		0.8N
9	Max.force for press fits(static)		15N
10	Max.radial load,4mm from flange		1.4N

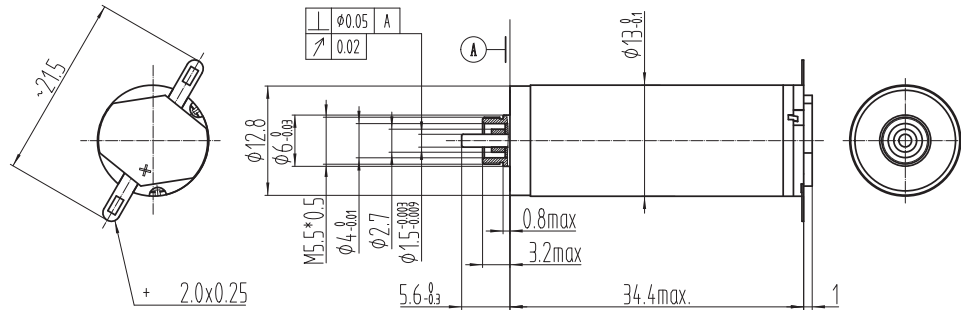
Operating Range



SMJ Modular System



DR1335B | Graphite Brush



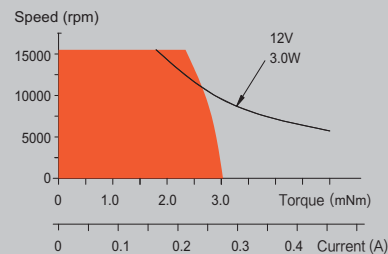
Motor Data

	motor model			DR133506B	DR133507B	DR133509B	DR133512B	DR133518B	DR133524B
1	nominal voltage	V	V	3	7.2	9	12	18	24
2	no load speed	rpm	Wn1	13300	13100	13700	12900	12800	13300
3	no load current	mA	In1	42	32	22	18	15	12
4	nominal speed	rpm	Wc	10400	10000	10700	10100	10000	10800
5	nominal torque	mNm	Tc	2.3	2.4	2.5	2.4	2.5	2.4
6	nominal current	A	Ic	0.53	0.46	0.4	0.27	0.19	0.14
7	output power	W	Pc	2.5	2.5	2.8	2.5	2.6	2.7
8	stall torque	mNm	Tmax	11.7	10.8	11.8	13	12.8	14.4
9	stall current	A	Imax	2.73	2.06	1.88	1.46	0.95	0.83
10	max. efficiency	%	ηmax	78.2	76.3	78.1	78.3	78.1	81.2
11	terminal resistance	Ω	Rt	2.2	3.5	4.8	8.2	18.9	28.8
12	torque constant	mNm / A	Kt	4.31	5.25	6.27	8.88	13.43	17.23
13	speed constant	rpm / V	Kn	2298	1886	1574	1109	734	571
14	speed torque gradient	rpm / mNm	Δn / ΔT	1261	1292	1200	1167	1120	1042

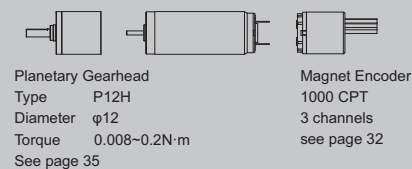
Specifications

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	2p	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

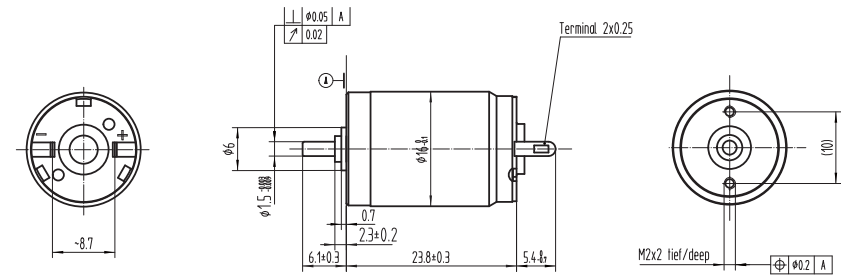
Operating Range



SMJ Modular System



DR1624B | Graphite Brush



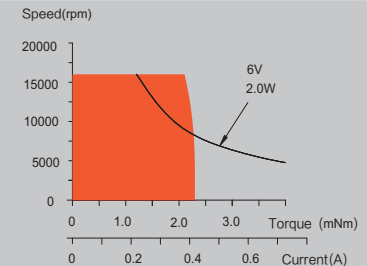
Motor Data

	motor model			DR162406B	DR162409B	DR162412B	DR162418B	DR162424B
1	nominal voltage	V	V	6	9	12	18	24
2	no load speed	rpm	Wn1	10100	12300	12800	14100	13800
3	no load current	mA	In1	41	34	28	22	16
4	nominal speed	rpm	Wc	5860	7580	8550	9740	9980
5	nominal torque	mNm	Tc	1.5	1.5	1.5	1.5	1.5
6	nominal current	A	Ic	0.3	0.23	0.18	0.13	0.1
7	output power	W	Pc	0.92	1.19	1.31	1.53	1.57
8	stall torque	mNm	Tmax	3.6	4.5	4.4	5.1	4.8
9	stall current	A	Imax	0.72	0.7	0.52	0.45	0.31
10	max. efficiency	%	ηmax	71	75	75	77	76
11	terminal resistance	Ω	Rt	8.3	12.8	23.1	39.6	76.2
12	torque constant	mNm / A	Kt	5.03	6.43	8.56	11.23	15.34
13	speed constant	rpm / V	Kn	1899	1485	1115	851	622
14	speed torque gradient	rpm / mNm	Δn / ΔT	2778	2720	2765	2763	2856

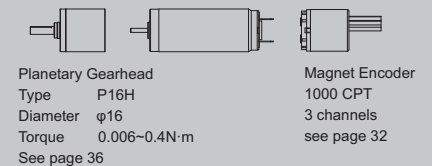
Specifications

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	2p	1
6	number of commutator segments		5
7	weight of motor	Wt	21g
8	Max.axial load(dynamic)		0.8N
9	Max.force for press fits(static)		15N
10	Max.radial load,4mm from flange		1.5N

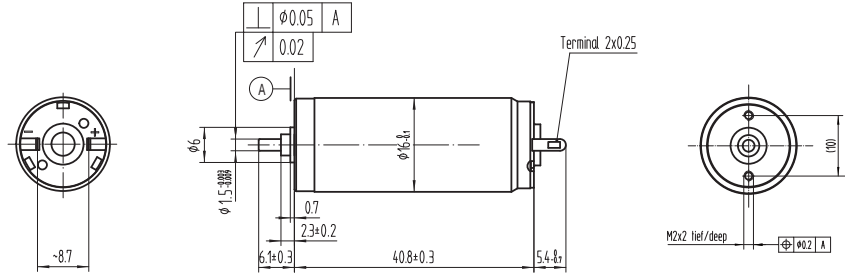
Operating Range



SMJ Modular System



DR1641B | Graphite Brush



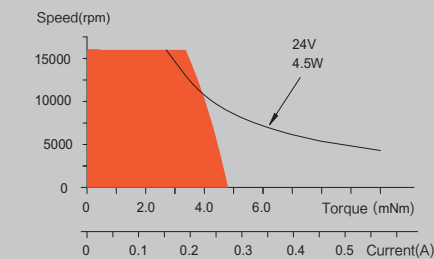
Motor Data

	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	13300	13900	13200	14000	14100	14000
3	no load current	mA	Inl	42	26	18	16	14	12
4	nominal speed	rpm	Wc	11600	11700	11100	11900	12200	12100
5	nominal torque	mNm	Tc	2.6	3.9	4.3	4.4	4.3	4.4
6	nominal current	A	Ic	0.6	0.47	0.33	0.27	0.18	0.13
7	output power	W	Pc	3.2	4.8	5	5.5	5.5	5.6
8	stall torque	mNm	Tmax	23.5	28.3	31.7	33.3	36.3	37.3
9	stall current	A	Imax	5.45	3.43	2.43	2.03	1.49	1.14
10	max. efficiency	%	η_{max}	87.2	84.2	84.1	85	86.5	86.4
11	terminal resistance	Ω	Rt	1.1	3.5	7.4	11.8	24.2	42.1
12	torque constant	mNm / A	Kt	4.31	8.24	13.02	16.37	24.38	32.74
13	speed constant	rpm / V	Kn	2252	1174	742	590	397	296
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	566	492	417	420	389	375

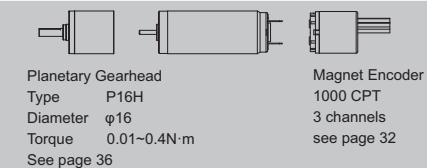
Specifications

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	2p	1
6 number of commutator segments		5
7 weight of motor	Wt	40g
8 Max.axial load(dynamic)		0.8N
9 Max.force for press fits(static)		15N
10 Max.radial load,4mm from flange		1.5N

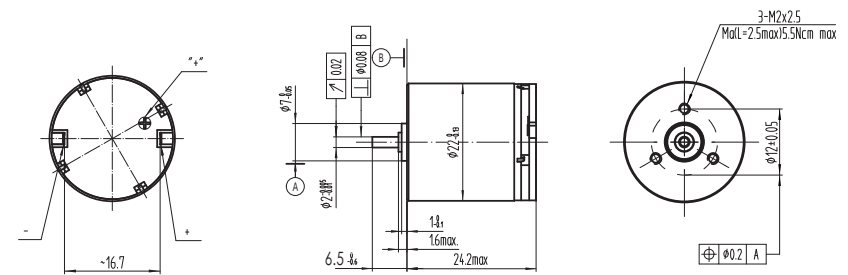
Operating Range



SMJ Modular System



DR2224B | Graphite Brush



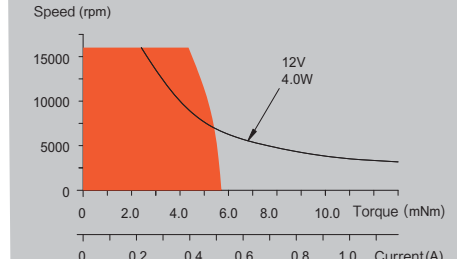
Motor Data

	motor model			DR222406B	DR222412B	DR222418B	DR222424B	DR222436B
1	nominal voltage	V	V	6	12	18	24	36
2	no load speed	rpm	Wnl	10900	10600	10800	10500	10800
3	no load current	mA	Inl	38	24	18	14	12
4	nominal speed	rpm	Wc	6900	6600	6320	6700	6460
5	nominal torque	mNm	Tc	5	5	5	5	5
6	nominal current	A	Ic	0.98	0.48	0.33	0.24	0.17
7	output power	W	Pc	3.61	3.46	3.31	3.51	3.38
8	stall torque	mNm	Tmax	14	13.8	12.1	13.9	12.4
9	stall current	A	Imax	2.37	1.32	0.79	0.66	0.41
10	max. efficiency	%	η_{max}	79	79	79	78	77
11	terminal resistance	Ω	Rt	2.2	9.1	22.8	36.3	87.6
12	torque constant	mNm / A	Kt	5.12	10.44	15.27	20.97	30.28
13	speed constant	rpm / V	Kn	1866	915	625	455	315
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	781	770	896	757	868

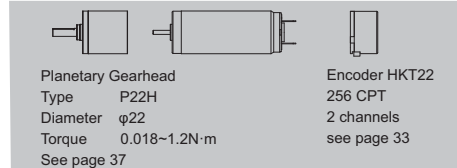
Specifications

1 ambient temperature	Ta	-20~+65°C
2 Max.winding temperature	Tcoilmax	+85°C
3 Max.speed	Nmax	12000rpm
4 axial play	Δt	0.05~0.15mm
5 number of pole pairs	2p	1
6 number of commutator segments		5
7 weight of motor	Wt	44g
8 Max.axial load(dynamic)		3N
9 Max.force for press fits(static)		45N
10 Max.radial load,4mm from flange		12N

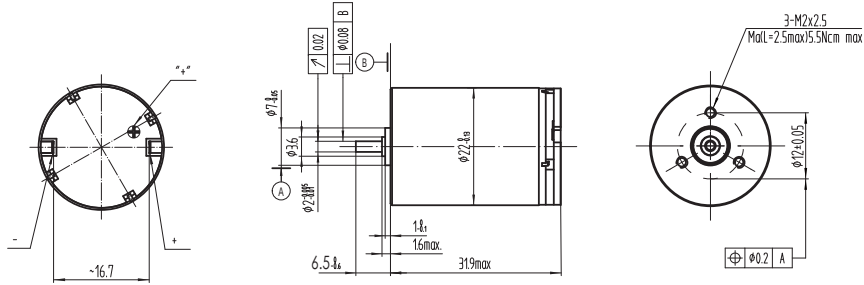
Operating Range



SMJ Modular System



DR2232B | Graphite Brush



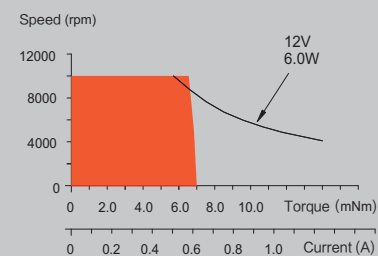
Motor Data

	motor model			DR223206B	DR223212B	DR223218B	DR223224B	DR223236B	DR223248B
1	nominal voltage	V	V	6	12	18	24	36	48
2	no load speed	rpm	Wn1	9250	10200	9710	10500	9650	9130
3	no load current	mA	In1	36	20	16	14	12	10
4	nominal speed	rpm	Wc	5550	6990	6620	7430	6500	5920
5	nominal torque	mNm	Tc	5.8	6.7	7	6.9	7	6.9
6	nominal current	A	Ic	0.97	0.61	0.4	0.32	0.2	0.14
7	output power	W	Pc	3.37	4.9	4.85	5.37	4.76	4.28
8	stall torque	mNm	Tmax	16.4	23.2	22.9	24.4	21.9	20
9	stall current	A	Imax	2.73	2.11	1.32	1.14	0.63	0.41
10	max. efficiency	%	η_{max}	65	72	72	73	72	71
11	terminal resistance	Ω	Rt	2.2	5.7	13.6	21	57.1	117
12	torque constant	mNm / A	Kt	6	11.01	17.3	21.35	34.72	48.74
13	speed constant	rpm / V	Kn	1592	867	552	447	275	196
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	565	440	424	430	441	457

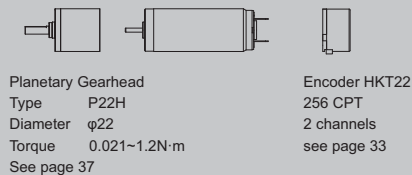
Specifications

1	ambient temperature	Ta	-20~+65°C
2	Max.winding temperature	Tcoilmax	+85°C
3	Max.speed	Nmax	12000rpm
4	axial play	Δt	0.05~0.15mm
5	number of pole pairs	2p	1
6	number of commutator segments		5
7	weight of motor	Wt	54g
8	Max.axial load(dynamic)		3N
9	Max.force for press fits(static)		45N
10	Max.radial load,4mm from flange		12N

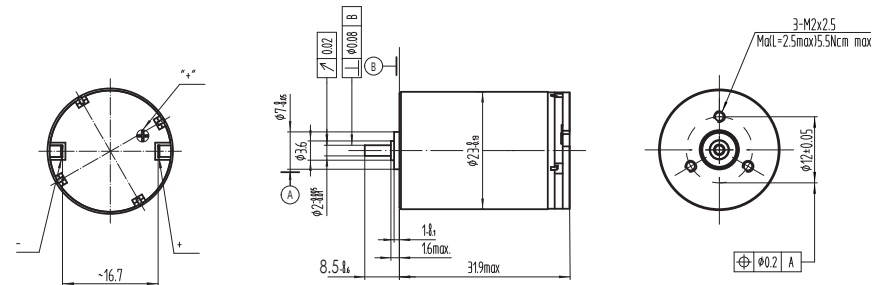
Operating Range



SMJ Modular System



DR2332B | Graphite Brush



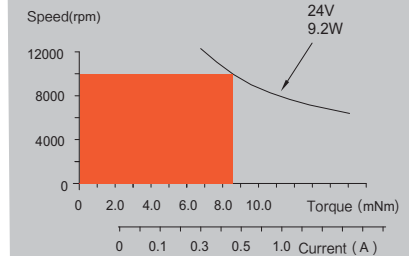
Motor Data

	motor model			DR233212B	DR233224B			
1	nominal voltage	V	V	12	24			
2	no load speed	rpm	Wn1	11000	12150			
3	no load current	mA	In1	25	15			
4	nominal speed	rpm	Wc	9450	10000			
5	nominal torque	mNm	Tc	9	8.7			
6	nominal current	A	Ic	0.89	0.48			
7	output power	W	Pc	8.9	9.2			
8	stall torque	mNm	Tmax	36.4	33			
9	stall current	A	Imax	3.6	1.8			
10	max. efficiency	%	η_{max}	80	80			
11	terminal resistance	Ω	Rt	2.2	9.7			
12	torque constant	mNm / A	Kt	10.1	18.4			
13	speed constant	rpm / V	Kn	920	506			
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	172	247			

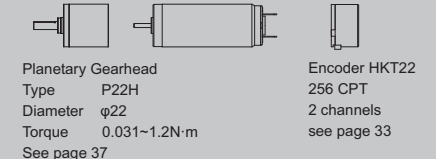
Specifications

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	2p	1
6	number of commutator segments		5
7	weight of motor	Wt	56g
8	Max.axial load(dynamic)		3N
9	Max.force for press fits(static)		45N
10	Max.radial load,4mm from flange		12N

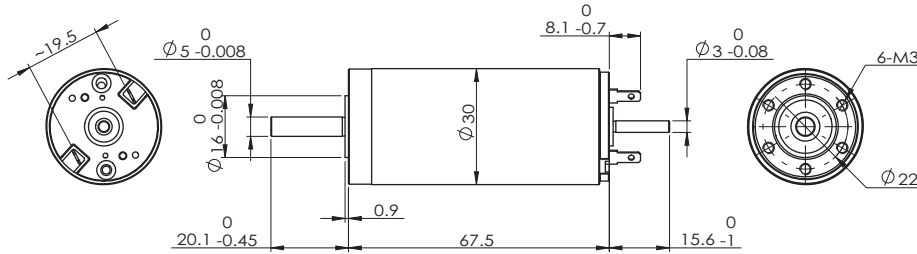
Operating Range



SMJ Modular System



DR3068B | Graphite Brush



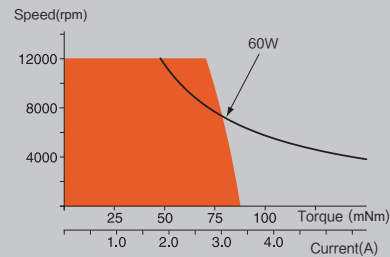
Motor Data

	motor model			DR306812B	DR306818B	DR306824B	DR306836B	DR306848B
1	nominal voltage	V	V	12	18	24	36	48
2	no load speed	rpm	Wnl	8170	8590	8380	8590	8490
3	no load current	mA	Inl	301	213	150	106	78.6
4	nominal speed	rpm	Wc	7630	7910	7600	7840	7760
5	nominal torque	mNm	Tc	51.6	75.5	85.6	86.6	89.7
6	nominal current	A	Ic	4	4	3.15	2.28	1.74
7	output power	W	Pc	41	63	68	71	73
8	stall torque	mNm	Tmax	852	1000	669	1000	1050
9	stall current	A	Imax	61.1	50.3	24.6	25.2	19.6
10	max. efficiency	%	ηmax	85	87	90	87	88
11	terminal resistance	Ω	Rt	0.196	0.358	0.71	1.43	2.45
12	torque constant	mNm / A	Kt	13.9	19.9	27.2	39.8	53.8
13	speed constant	rpm / V	Kn	685	479	349	240	178
14	speed torque gradient	rpm / mNm	Δn / ΔT	9.64	8.61	9.1	8.61	8.09

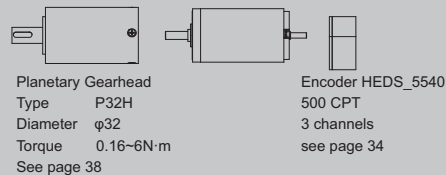
Specifications

- ambient temperature T_a -30~+100°C
- Max.winding temperature $T_{coilmax}$ +125°C
- Max.speed N_{max} 12000rpm
- axial play Δt 0.05~0.15mm
- number of pole pairs $2p$ 1
- number of commutator segments 13
- weight of motor W_t 260 g
- Max.axial load(dynamic) 5.6N
- Max.force for press fits(static) 110N
- Max.radial load,4mm from flange 28N

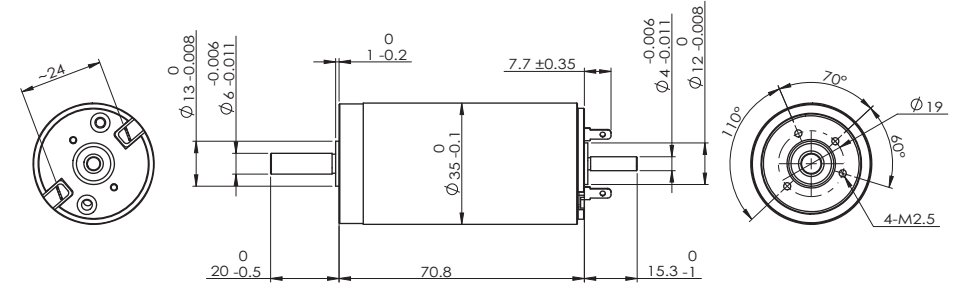
Operating Range



SMJ Modular System



DR3571B | Graphite Brush



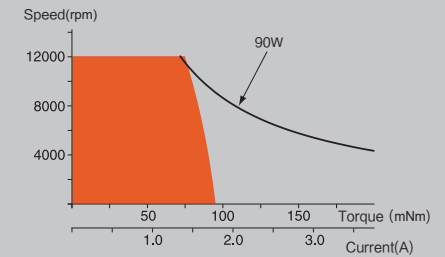
Motor Data

	motor model			DR357115B	DR357124B	DR357130B	DR357142B	DR357148B
1	nominal voltage	V	V	15	24	30	42	48
2	no load speed	rpm	Wnl	7180	7740	7270	7560	7300
3	no load current	mA	Inl	247	169	124	92.9	77.5
4	nominal speed	rpm	Wc	6500	7000	6490	6820	6530
5	nominal torque	mNm	Tc	73.1	101	97.2	101	99.4
6	nominal current	A	Ic	4	3.62	2.62	2.02	1.67
7	output power	W	Pc	50	74	66	72	68
8	stall torque	mNm	Tmax	929	1200	973	1080	980
9	stall current	A	Imax	47.8	41.1	25	20.7	15.8
10	max. efficiency	%	ηmax	83	86	85	86	86
11	terminal resistance	Ω	Rt	0.314	0.583	1.2	2.03	3.05
12	torque constant	mNm / A	Kt	19.4	29.2	38.9	52.5	62.2
13	speed constant	rpm / V	Kn	491	328	246	182	154
14	speed torque gradient	rpm / mNm	Δn / ΔT	7.93	6.55	7.57	7.05	7.52

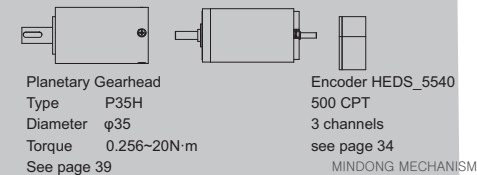
Specifications

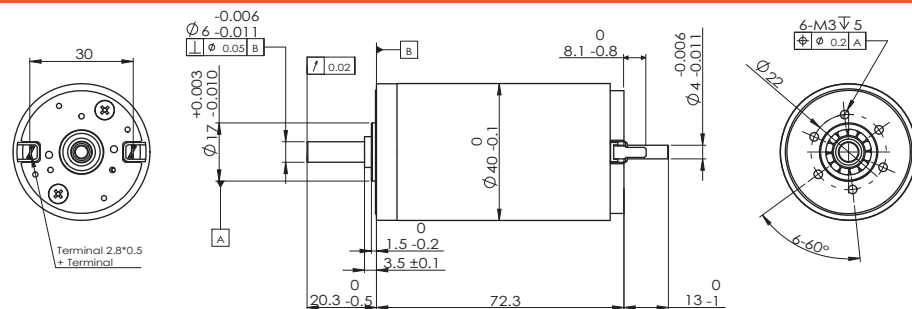
- ambient temperature T_a -30~+100°C
- Max.winding temperature $T_{coilmax}$ +155°C
- Max.speed N_{max} 12000rpm
- axial play Δt 0.05~0.15mm
- number of pole pairs $2p$ 1
- number of commutator segments 13
- weight of motor W_t 340 g
- Max.axial load(dynamic) 5.6N
- Max.force for press fits(static) 110N
- Max.radial load,4mm from flange 28N

Operating Range



SMJ Modular System





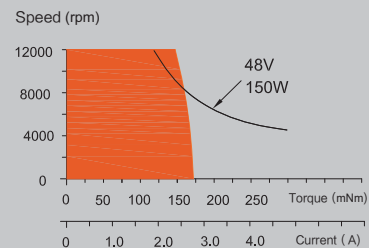
Motor Data

	motor model			DR407124B	DR407148B-01	DR407148B-02		
1	nominal voltage	V	V	24	48	48		
2	no load speed	rpm	Wnl	6800	7960	5990		
3	no load current	mA	Inl	130	110	70		
4	nominal speed	rpm	Wc	5300	7000	5050		
5	nominal torque	mNm	Tc	220	187	186		
6	nominal current	A	Ic	6.2	3.26	2.44		
7	output power	W	Pc	122	137	98		
8	stall torque	mNm	Tmax	1811	1246	937		
9	stall current	A	Imax	51	21.7	12.3		
10	max. efficiency	%	η_{max}	91	88	84		
11	terminal resistance	Ω	Rt	0.47	1.7	3.08		
12	torque constant	mNm / A	Kt	35.5	57.4	76.2		
13	speed constant	rpm / V	Wt	283	166	125		
14	speed torque gradient	rpm / mNm	$\Delta n / \Delta T$	7.5	5.1	5.05		

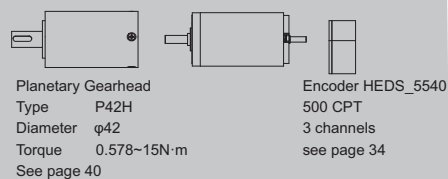
Specifications

1	ambient temperature	Ta	-30~+100°C
2	Max.winding temperature	Tcoilmax	+155°C
3	Max.speed	Nmax	12000rpm
4	axial play	Δt	0.05~0.15mm
5	number of pole pairs	2p	1
6	number of commutator segments		13
7	weight of motor	Wt	480 g
8	Max.axial load(dynamic)		5.6N
9	Max.force for press fits(static)		110N
10	Max.radial load,4mm from flange		28N

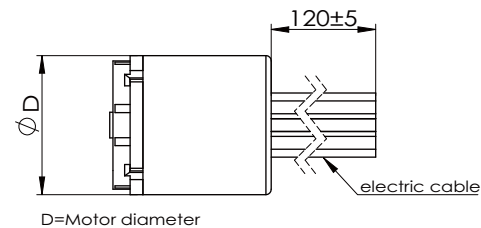
Operating Range



SMJ Modular System



Magnet Encoder 1000CPT, 3 Channels



Type	
Counts per turn	1000
Number of channels	3
Max. operating frequency (kHz)	20
Max. speed (rpm)	28000



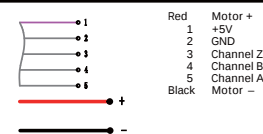
Modular System

[illegible]

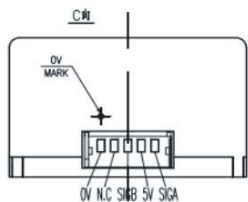
Technical Data

Supply voltage V_{CC}	5 V
Output signal $V_{CC} = 5 \text{ VDC}$	TTL compatible
Phase shift Φ	$90^\circ \pm 45^\circ$
Power input at $V_{CC} 5 \text{ VDC}$	max. 15 mA
Inertia of the magnetic disc	0.07 gcm^2
Operating temperature range	$-20 \dots +80^\circ \text{C}$

Terminal definitions



SMJ Sensor



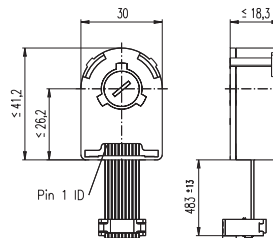
overall length A overall length B

[illegible]

Yellow	Motor +
1	GND
2	N.C.
3	Channel B
4	+5V
5	Channel A
Blue	Motor -

•

EMILSON



overall length A

overall length B

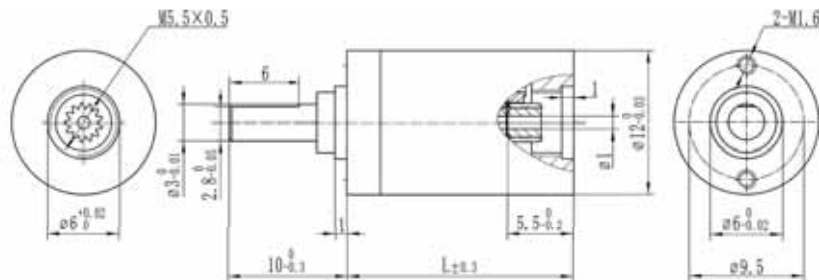
[illegible]

1 N.C.
2 V_{CC}
3 GND
4 N.C.
5 Channel $\bar{A}$
6 Channel A
7 Channel $\bar{B}$
8 Channel B
9 Channel $\bar{I}$ (Index)
10 Channel I (Index)

Pin type DIN 41651/
EN 60603-13
Flat band cable AWG 28

The index signal I is synchronized with channel A or B.

Planetary Gearhead P12H



Gearhead Data

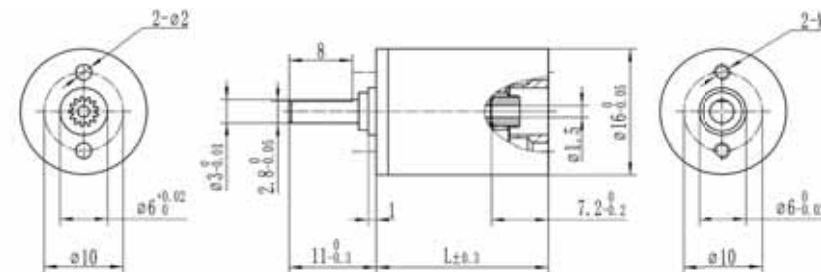
1	Radial play	mm	≤ 0.1				
2	Axial play	mm	≤ 0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		$-20^{\circ}\text{C} \sim +125^{\circ}\text{C}$				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	0.2	0.2	0.3	0.3	0.35
9	Max. intermittent torque at gear output	Nm	0.3	0.3	0.45	0.45	0.5
10	Max. efficiency		90	81	73	65	59
11	Weight	g	7	10	13	16.5	20
12	Gearhead length L	mm	13.3	16.1	18.9	21.7	24.5
13	Reduction		3.94	13.68	61.05	240.37	649.85
Other speed ratio please ask for advice			4.62	16.03	71.56	341.52	736.62
				21.3	83.88	387.12	946.46
					98.32	453.77	1147.22
						560.4	3194.28



SMJ Modular System

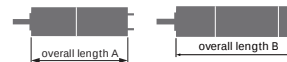
+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR1322B	22	35.6	38.4	41.2	44	46.8					
DR1335B	23	47.7	50.5	53.3	56.1	58.9					
SR1334	32						47.6	50.4	53.2	56	58.8
SR1347	32						59.7	62.5	65.3	68.1	70.9

Planetary Gearhead P16H



Gearhead Data

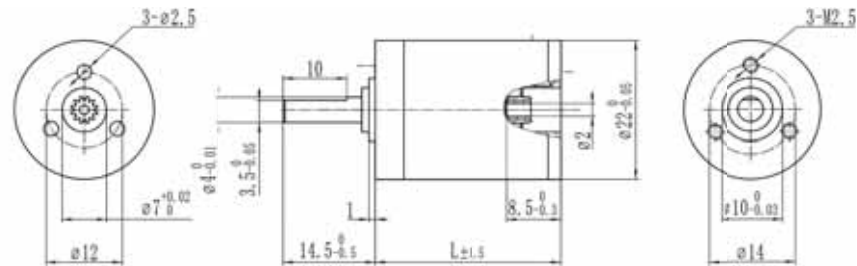
1	Radial play	mm	≤ 0.1				
2	Axial play	mm	≤ 0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		$-20^{\circ}\text{C} \sim +125^{\circ}\text{C}$				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	0.15	0.2	0.25	0.3	0.35
9	Max. intermittent torque at gear output	Nm	0.2	0.23	0.35	0.4	0.45
10	Max. efficiency		90	81	73	65	59
11	Weight	g	15	20	25	30	35
12	Gearhead length L	mm	14.8	18.4	22	25.6	29.2
13	Reduction		3.79	16.34	54.42	267.06	1151.72
Other speed ratio please ask for advice			4.31	18.6	80.2	407.18	1491.58
			5.08	21.89	94.42	664.36	1596.2
					111.16		2067.23
					130.86		2433.66



SMJ Modular System

+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR1624B	24	38.6	42.2	45.8	49.4	53					
DR1641B	25	55.6	59.2	62.8	66.4	70					
SR1636	32						51.2	54.8	58.4	62	65.6
SR1654	32						68.2	71.8	75.4	79	82.6

Planetary Gearhead P22H



Gearhead Data

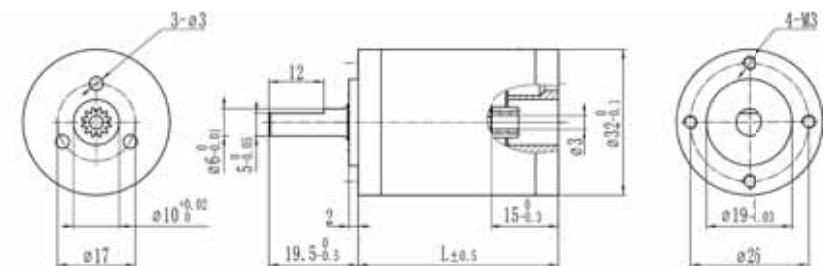
1	Radial play	mm	≤0.1				
2	Axial play	mm	≤0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		-20°C~+125°C				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	0.2	0.3	0.4	0.5	0.6
9	Max. intermittent torque at gear output	Nm	0.3	0.4	0.5	0.7	0.8
10	Max. efficiency		90	81	73	65	59
11	Weight	g	30	35	46	55	65
12	Gearhead length L	mm	22.1	25.9	29.7	33.5	37.3
13	Reduction		3.57	16	64	182.22	728.86
Other speed ratio please ask for advice			4	18.4	84.64	228.57	1024
			5.5	22	101.2	262.86	1209.14
					121	404.8	1354.24
						465.52	1557.38
						556.6	1936
							2286.04
							2662



SMJ Modular System

+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR2224B	26	46.3	50.1	53.9	57.7	61.5					
DR2232B	27	54	57.8	61.6	65.4	69.2					
DR2332B	28	54	57.8	61.6	65.4	69.2					
SR2237	33						59.2	63	66.8	70.6	74.4
SR2245	33						66.9	70.7	74.5	78.3	82.1
SR2345	33						66.9	70.7	74.5	78.3	82.1

Planetary Gearhead P32H



Gearhead Data

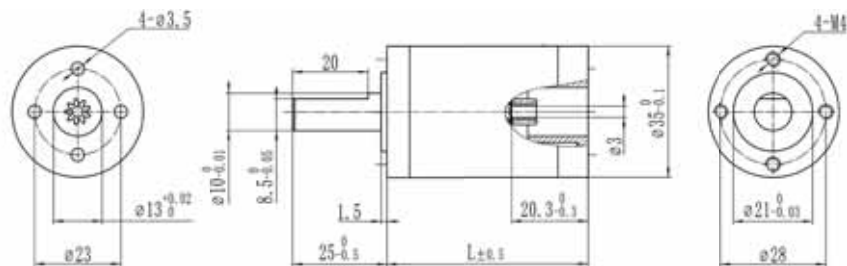
1	Radial play	mm	≤0.1				
2	Axial play	mm	≤0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		-20°C~+125°C				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	1	3	6	6	6
9	Max. intermittent torque at gear output	Nm	1.25	3.75	7.5	7.5	7.5
10	Max. efficiency		90	81	73	65	59
11	Weight	g	125	147	169	191	213
12	Gearhead length L	mm	31.6	37.9	44.2	50.5	56.8
13	Reduction		4	14.93	30.11	159.42	592.13
Other speed ratio please ask for advice			4.8	19.2	51.24	178.23	693.79
				23.04	62.01	223	765.21
					80.14	266.24	988.89
					110.59	297.66	1277.95
						344.06	1428.77
						412.16	1846.41
						530.84	2548.04
							3174



SMJ Modular System

+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR3068B	29	99.1	105.4	111.7	118	124.3					
SR3087	34						118.9	125.2	131.5	137.8	144.1

Planetary Gearhead P35H



Gearhead Data

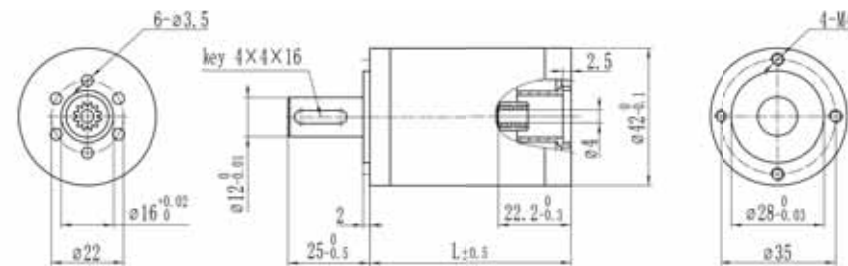
1	Radial play	mm	≤0.1				
2	Axial play	mm	≤0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		-20°C~+125°C				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	3	8	16	16	20
9	Max. intermittent torque at gear output	Nm	5	12	25	25	30
10	Max. efficiency		90	81	73	65	59
11	Weight	g	210	245	280	318	350
12	Gearhead length L	mm	40.8	47.4	54	60.6	67.2
13	Reduction		4	12.25	42.88	150.06	525.22
Other speed ratio please ask for advice			4.75	16	49	171.5	686
			6	19	56	224	784
				21	64	256	1216
					76	361	
					84	384	
					90.25		
					144		



SMJ Modular System

+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR3571B	30	111.6	118.2	124.8	131.4	138					
SR3591	34						131.4	138	144.6	151.2	157.8

Planetary Gearhead P42H



Gearhead Data

1	Radial play	mm	≤0.1				
2	Axial play	mm	≤0.2				
3	Max. force for press fits	N	100				
4	Max. radial load	N	8				
5	Max. axial load	N	8				
6	Recommended temperature range		-20°C~+125°C				
7	Number of stages		1	2	3	4	5
8	Max. continuous torque	Nm	3	16	25	25	25
9	Max. intermittent torque at gear output	Nm	5	25	36	36	36
10	Max. efficiency		90	81	73	65	59
11	Weight	g	250	345	405	490	580
12	Gearhead length L	mm	41.2	53.2	62.2	77.2	86.2
13	Reduction		3.11	35.95	111.85	664.25	2649.6
Other speed ratio please ask for advice			4.17	42.92	159.42	765.21	
			5.75	54.01	193.58	916.66	
			11.56	72.34	225.05	1244.44	
			15.48	83.33	259.26		
			20	96	347.22		
				115	400		
				158.7	530.84		
					661.25		
					761.76		



SMJ Modular System

+Motor	Page	Overall length A					Overall length B				
		1	2	3	4	5	1	2	3	4	5
DR4071B	31	113.5	125.5	134.5	149.5	158.5					
SR4092	34						133.3	145.3	154.3	169.3	178.3