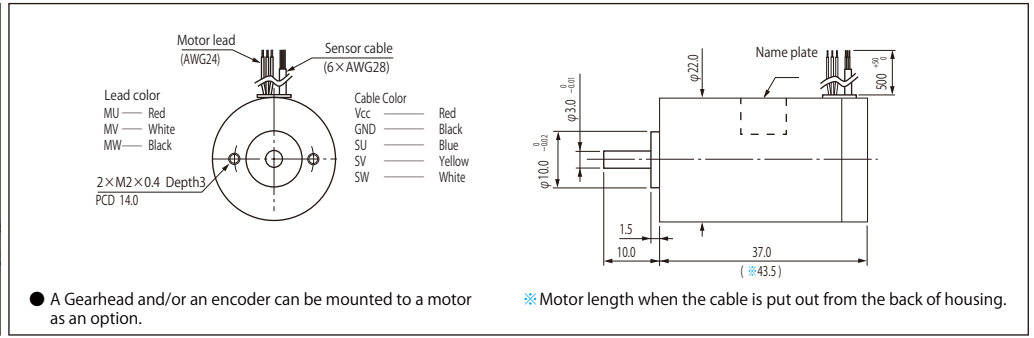
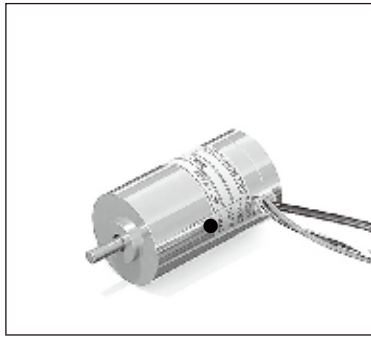


BD-2237 * * (Product Size : $\phi 22 \times 37$ mm)

(Unit : mm)

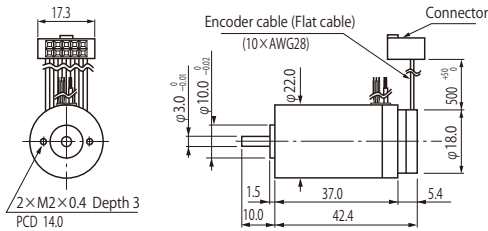


Example of Combination

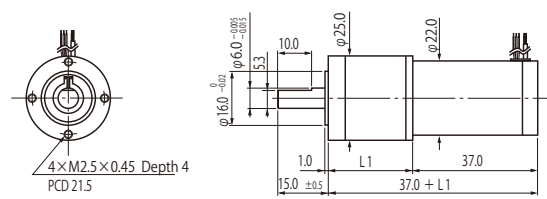
*Only two (2) poles motor can attach an optical encoder.

●Please see Page 3 for the encoder specifications.

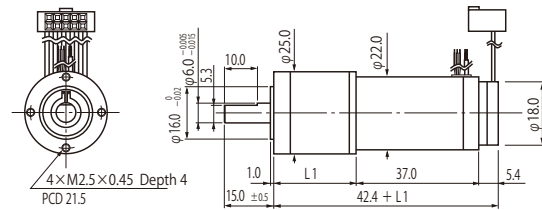
With Encoder EBD-2237 * * -MC512



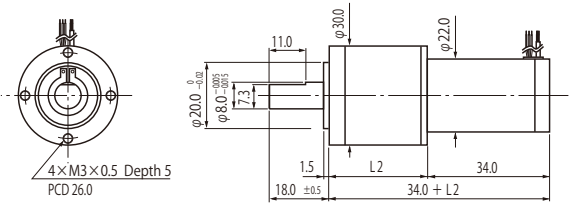
With Gearhead BD-2237 * * G ZMP 1 / xxx



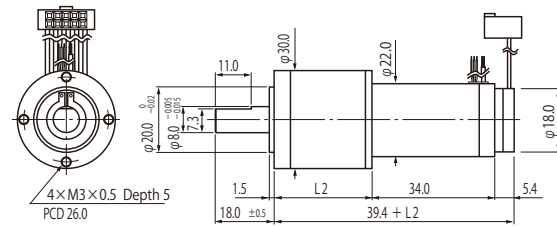
With Encoder + Gearhead EBD-2237 * * G-MC512 ZMP 1 / xxx



BD-2237 * * G ZAP 1 / xxx



EBD-2237 * * G-MC512 ZAP 1 / xxx



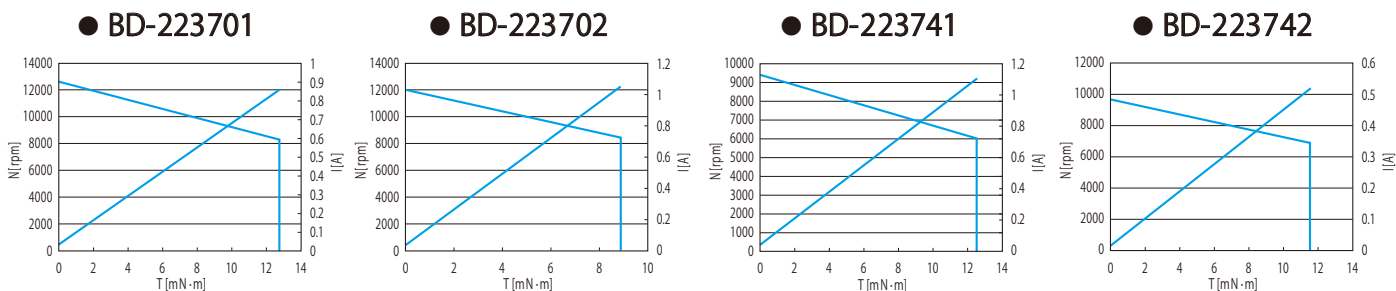
Specifications

Items				BD-223701	BD-223702	BD-223741	BD-223742
Number of Poles			Pole	2	2	4	4
Power Source Voltage			V	24 ± 5%	12 ± 5%	12 ± 5%	24 ± 5%
Resistance			Ω	9	2.65	3	10.9
Torque Constant			mN·m/A	19.1	9.55	12.2	23.6
Back-EMF Constant			V/K rpm	2	1	1.28	2.47
No Load Speed (*1)			rpm	12600	12000	9400	9700
Maximum Continuous Current (*1)			A	0.86	1.05	1.1	0.52
Maximum Continuous Torque(*1)			mN·m	12.8	8.9	12.5	11.5
Rated Speed (*1)			rpm	8300	8450	6000	6900
Rated Output (*1)			W	11.1	7.9	7.9	8.3
Rotor Inertia			g·cm ²	2.1	2.1	2.1	2.1
Weight			g	80	80	80	80
Driver	Standard	BSD-36-**** (Maximum Speed)	(*)2	1024-△006 (5000 rpm)	0512-△016 (5000 rpm)	0512-△0AF (5000 rpm)	1024-△0A6 (5000 rpm)

*1: This value depends on the specification of driver and encoder.

*2: The maximum speed of the standard type driver, BSD-36 Series, is 5,000 rpm but it can be customized to over 5,000 rpm. Please contact our sales representatives or authorized distributors for more details.

Data



- The 'Data' above indicate the specifications while aluminum board (size : 57 * 57 * 5t) is attached to the motor flange.
- Please see Page 2 for more details about 'Data'.
- Gearhead and/or encoder can be mounted to the motor as an option. Please see the specifications below for more information.

Rated Specifications of Geared Motors

● BD-223701

ZMP	Reduction Ratio		4	6	16	24	36	64	96	144	※216	256	384	※576	※864	※1296
	Maximum Continuous Torque	N·m	0.042	0.065	0.147	0.221	0.332	0.500	0.750	1.124	1.200	1.704	2.556	3.000	3.000	3.000
	Rated Speed	rpm	1756	1170	389	259	173	96	64	42	38	22	15	13	10	6
	Rated Output	W	8.0	8.0	6.0	6.0	6.0	5.0	5.0	5.0	4.8	4.0	4.0	4.0	3.0	2.0
	Length L1	mm	24.7	24.7	29.6	29.6	29.6	37.1	37.1	37.1	37.1	44.6	44.6	44.6	44.6	44.6
ZAP	Reduction Ratio		4	6	16	24	36	64	96	144	216	256	384	576	※864	※1296
	Maximum Continuous Torque	N·m	0.044	0.065	0.147	0.221	0.332	0.500	0.750	1.124	1.687	1.704	2.556	3.834	4.800	4.800
	Rated Speed	rpm	2075	1383	519	346	231	130	86	58	38	32	22	14	10	6
	Rated Output	W	9.5	9.5	8.0	8.0	8.0	6.8	6.8	6.8	6.8	5.8	5.8	5.8	4.8	3.2
	Length L2	mm	29.9	29.9	35.3	35.3	35.3	44.0	44.0	44.0	44.0	52.7	52.7	52.7	52.7	52.7

● BD-223702

ZMP	Reduction Ratio		4	6	16	24	36	64	96	144	216	256	384	576	※864	※1296
	Maximum Continuous Torque	N·m	0.030	0.045	0.103	0.154	0.231	0.347	0.521	0.782	1.173	1.185	1.777	2.666	3.000	3.000
	Rated Speed	rpm	2113	1408	528	352	235	132	88	59	39	32	21	14	10	7
	Rated Output	W	6.7	6.7	5.7	5.7	5.7	4.8	4.8	4.8	4.8	4.0	4.0	4.0	3.1	2.0
	Length L1	mm	24.7	24.7	29.6	29.6	29.6	37.1	37.1	37.1	37.1	44.6	44.6	44.6	44.6	44.6
ZAP	Reduction Ratio		4	6	16	24	36	64	96	144	216	256	384	576	864	※1296
	Maximum Continuous Torque	N·m	0.030	0.045	0.103	0.154	0.231	0.347	0.521	0.782	1.173	1.185	1.777	2.666	3.999	4.800
	Rated Speed	rpm	2113	1408	528	352	235	132	88	59	39	33	22	15	10	7
	Rated Output	W	6.7	6.7	5.7	5.7	5.7	4.8	4.8	4.8	4.8	4.1	4.1	4.1	4.1	3.3
	Length L2	mm	29.9	29.9	35.3	35.3	35.3	44.0	44.0	44.0	44.0	52.7	52.7	52.7	52.7	52.7

● BD-223741

ZMP	Reduction Ratio		4	6	16	24	36	64	96	144	※216	256	384	※576	※864	※1296
	Maximum Continuous Torque	N·m	0.043	0.064	0.144	0.216	0.324	0.488	0.732	1.098	1.200	1.664	2.496	3.000	3.000	3.000
	Rated Speed	rpm	1500	1000	375	250	167	94	63	42	28	23	15	10	7	5
	Rated Output	W	6.7	6.7	5.7	5.7	5.7	4.8	4.8	4.8	3.5	4.0	4.0	3.3	2.2	1.5
	Length L1	mm	24.7	24.7	29.6	29.6	29.6	37.1	37.1	37.1	37.1	44.6	44.6	44.6	44.6	44.6
ZAP	Reduction Ratio		4	6	16	24	36	64	96	144	216	256	384	576	※864	※1296
	Maximum Continuous Torque	N·m	0.043	0.064	0.144	0.216	0.324	0.488	0.732	1.098	1.647	1.664	2.496	3.744	4.800	4.800
	Rated Speed	rpm	1500	1000	375	250	167	94	63	42	28	23	16	10	7	5
	Rated Output	W	6.7	6.7	5.7	5.7	5.7	4.8	4.8	4.8	4.8	4.1	4.1	4.1	3.5	2.3
	Length L2	mm	29.9	29.9	35.3	35.3	35.3	44.0	44.0	44.0	44.0	52.7	52.7	52.7	52.7	52.7

● BD-223742

ZMP	Reduction Ratio		4	6	16	24	36	64	96	144	※216	256	384	※576	※864	※1296
	Maximum Continuous Torque	N·m	0.039	0.059	0.132	0.199	0.298	0.449	0.673	1.010	1.220	1.531	2.296	3.000	3.000	3.000
	Rated Speed	rpm	1725	1150	431	288	192	106	71	47	32	25	17	12	8	5
	Rated Output	W	7.1	7.1	6.0	6.0	6.0	5.0	5.0	5.0	4.0	4.0	4.0	3.8	2.5	1.7
	Length L1	mm	24.7	24.7	29.6	29.6	29.6	37.1	37.1	37.1	37.1	44.6	44.6	44.6	44.6	44.6
ZAP	Reduction Ratio		4	6	16	24	36	64	96	144	216	256	384	576	※864	※1296
	Maximum Continuous Torque	N·m	0.039	0.059	0.132	0.199	0.298	0.449	0.673	1.010	1.515	1.531	2.296	3.444	4.800	4.800
	Rated Speed	rpm	1725	1150	431	288	192	108	72	48	32	27	18	12	8	5
	Rated Output	W	7.1	7.1	6.0	6.0	6.0	5.1	5.1	5.1	5.1	4.3	4.3	4.3	4.0	2.7
	Length L2	mm	29.9	29.9	35.3	35.3	35.3	44.0	44.0	44.0	44.0	52.7	52.7	52.7	52.7	52.7

1 : If using Reduction ratio marked with an asterisk (), please make sure not to exceed the allowable output torque of the gearhead.

*2 : These are the values in uniform load.