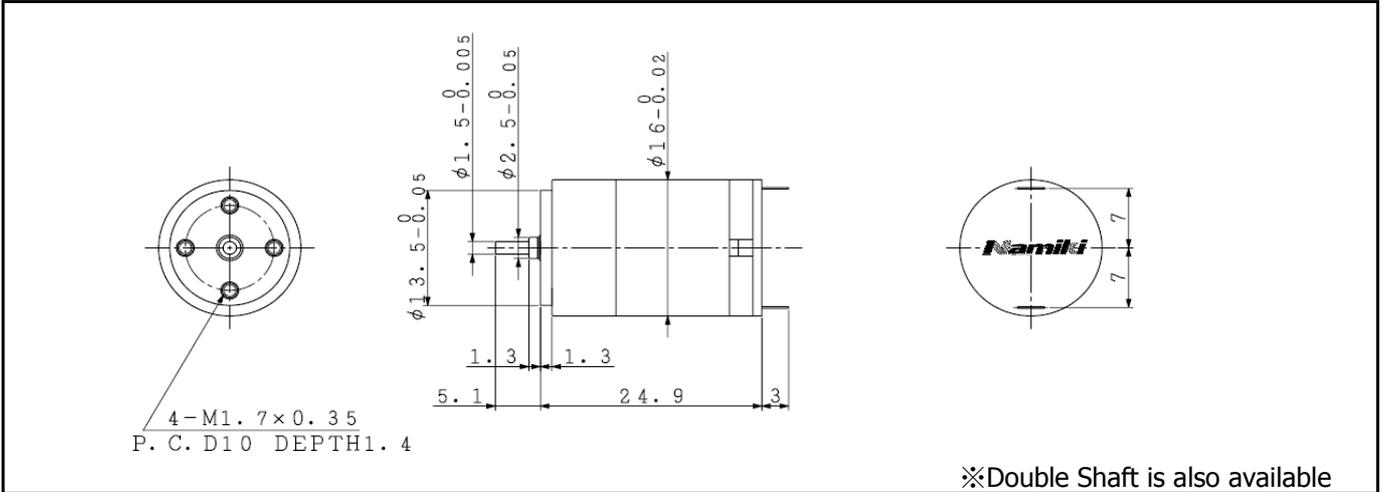


# CGE16-25 2.0W

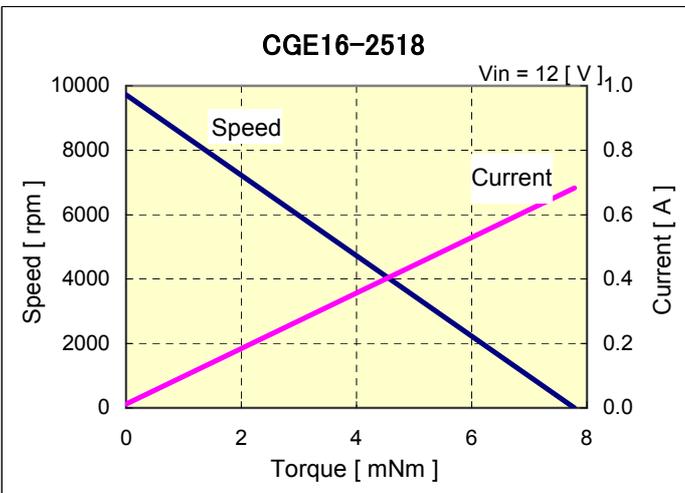
Precious metal commutation  
RoHS COMPLIANT

Special Specification



Combination : Gearhead...SPG16, SSG15 , Encoder...EHM12-3F

Ordering number	CGE16-2501	CGE16-2502	CGE16-2504	CGE16-2518	CGE16-2549	CGE16-2591	
1 Nominal voltage	3.6	4.5	6	12	18	24	V
2 Terminal resistance	1.44	2.23	3.92	17.56	48.97	90.86	Ω
3 Output power	2.19	2.20	2.23	1.99	1.59	1.52	W
4 Efficiency	76.7	76.6	76.6	75.5	73.6	72.6	%
5 No-load speed	9574	9789	9901	9718	9219	9511	rpm
6 No-load current	0.038	0.031	0.024	0.012	0.007	0.006	A
7 Stall torque	8.71	8.57	8.57	7.78	6.58	6.09	mNm
8 Friction Torque	0.14	0.14	0.14	0.14	0.14	0.14	mNm
9 Back-EMF constant	0.370	0.453	0.597	1.214	1.913	2.468	mV/rpm
10 Torque constant	3.54	4.32	5.70	11.59	18.27	23.57	mNm/A
11 Slope of N-T curve	1099	1143	1155	1249	1401	1562	rpm/mNm
12 Mechanical time constant	8.45	8.26	8.16	8.17	8.31	8.48	ms
13 Rotor inertia	0.734	0.690	0.674	0.625	0.567	0.519	gcm <sup>2</sup>

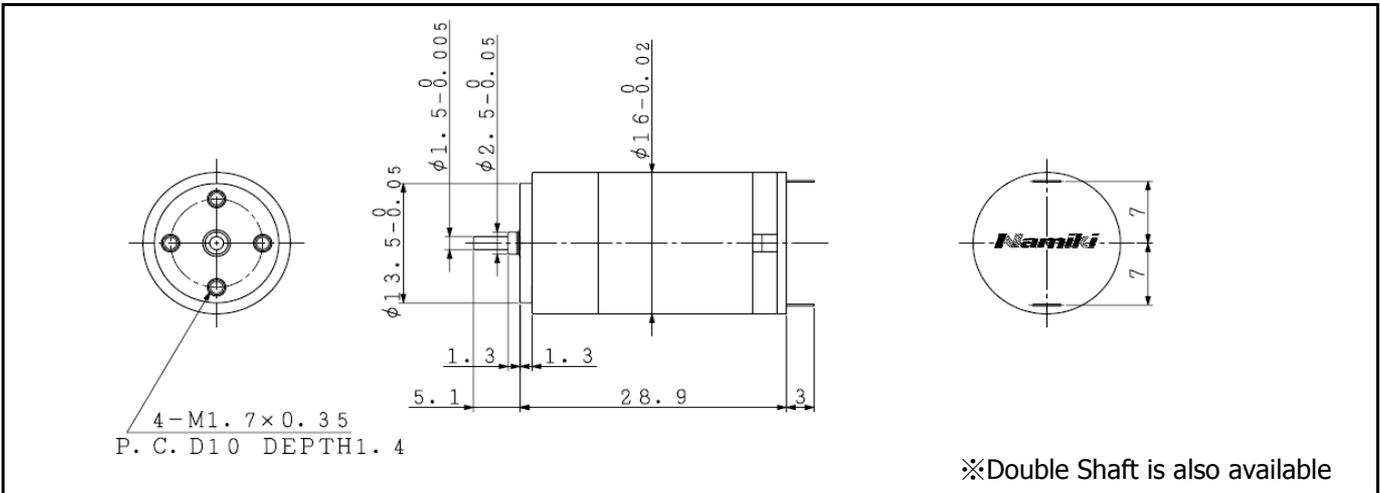


V01

# CGE16-29 2.5W

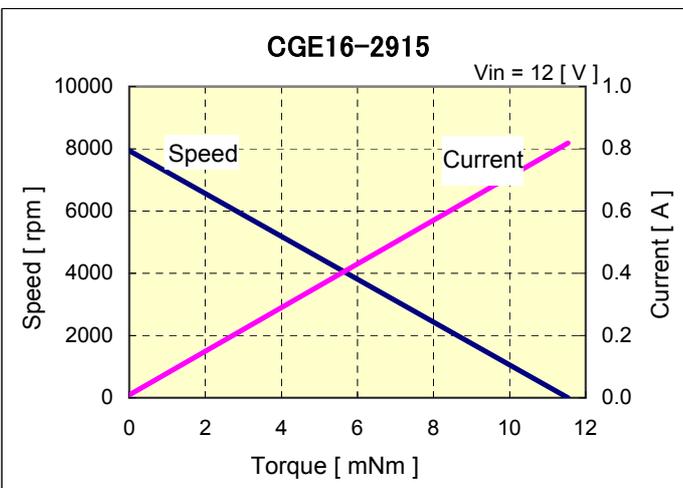
Precious metal commutation  
RoHS COMPLIANT

Special Specification



Combination : Gearhead...SPG16, SSG15 , Encoder...EHM12-3F

Ordering number	CGE16-2901	CGE16-2902	CGE16-2905	CGE16-2915	CGE16-2936	CGE16-2962	
1 Nominal voltage	3.6	4.8	7.2	12	18	24	V
2 Terminal resistance	1.28	2.35	5.08	14.66	36.18	62.03	Ω
3 Output power	2.49	2.40	2.50	2.40	2.19	2.27	W
4 Efficiency	80.6	80.2	80.1	79.6	78.7	78.5	%
5 No-load speed	7419	7416	7851	7940	7931	8378	rpm
6 No-load current	0.030	0.022	0.016	0.010	0.006	0.005	A
7 Stall torque	12.80	12.33	12.13	11.54	10.51	10.31	mNm
8 Friction Torque	0.14	0.14	0.14	0.14	0.14	0.14	mNm
9 Back-EMF constant	0.480	0.640	0.907	1.494	2.241	2.828	mV/rpm
10 Torque constant	4.59	6.11	8.66	14.26	21.40	27.00	mNm/A
11 Slope of N-T curve	579	601	647	688	755	813	rpm/mNm
12 Mechanical time constant	6.23	6.01	5.92	5.91	5.98	6.06	ms
13 Rotor inertia	1.027	0.955	0.874	0.821	0.756	0.712	gcm <sup>2</sup>

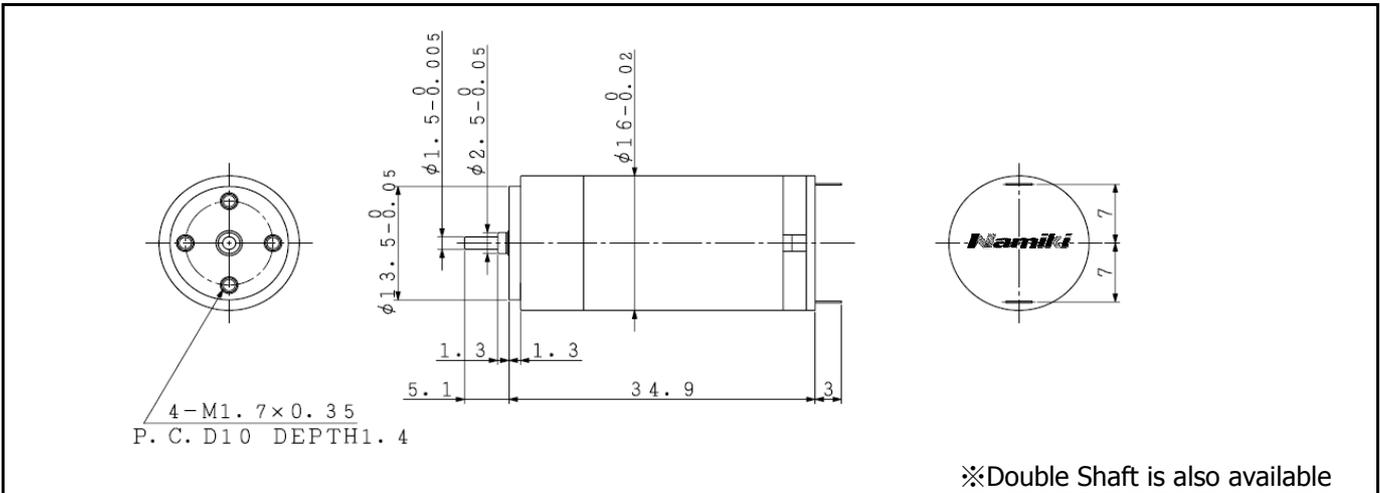


V01

# CGE16-35 3.0W

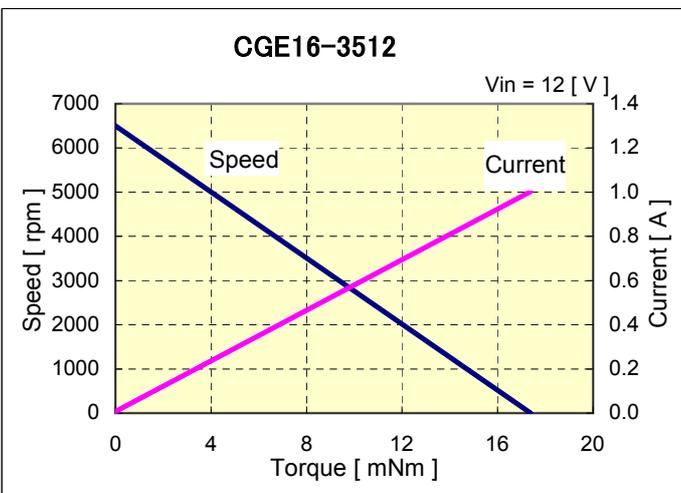
Precious metal commutation  
RoHS COMPLIANT

Special Specification



Combination : Gearhead...SPG16, SSG15 , Encoder...EHM12-3F

Ordering number	CGE16-3502	CGE16-3503	CGE16-3506	CGE16-3512	CGE16-3529	CGE16-3547	
1 Nominal voltage	4.8	6	9	12	18	24	V
2 Terminal resistance	1.90	2.96	6.46	11.97	28.67	46.97	Ω
3 Output power	3.00	3.00	3.10	2.97	2.79	3.03	W
4 Efficiency	83.9	83.9	83.7	83.2	82.9	83.1	%
5 No-load speed	5951	6008	6332	6505	6327	6714	rpm
6 No-load current	0.018	0.014	0.010	0.008	0.005	0.004	A
7 Stall torque	19.17	19.04	18.64	17.39	16.79	17.17	mNm
8 Friction Torque	0.14	0.14	0.14	0.14	0.14	0.14	mNm
9 Back-EMF constant	0.801	0.992	1.411	1.831	2.822	3.547	mV/rpm
10 Torque constant	7.65	9.47	13.47	17.48	26.95	33.87	mNm/A
11 Slope of N-T curve	310	316	340	374	377	391	rpm/mNm
12 Mechanical time constant	4.07	4.01	3.98	3.99	4.01	4.04	ms
13 Rotor inertia	1.252	1.215	1.118	1.018	1.017	0.986	gcm <sup>2</sup>

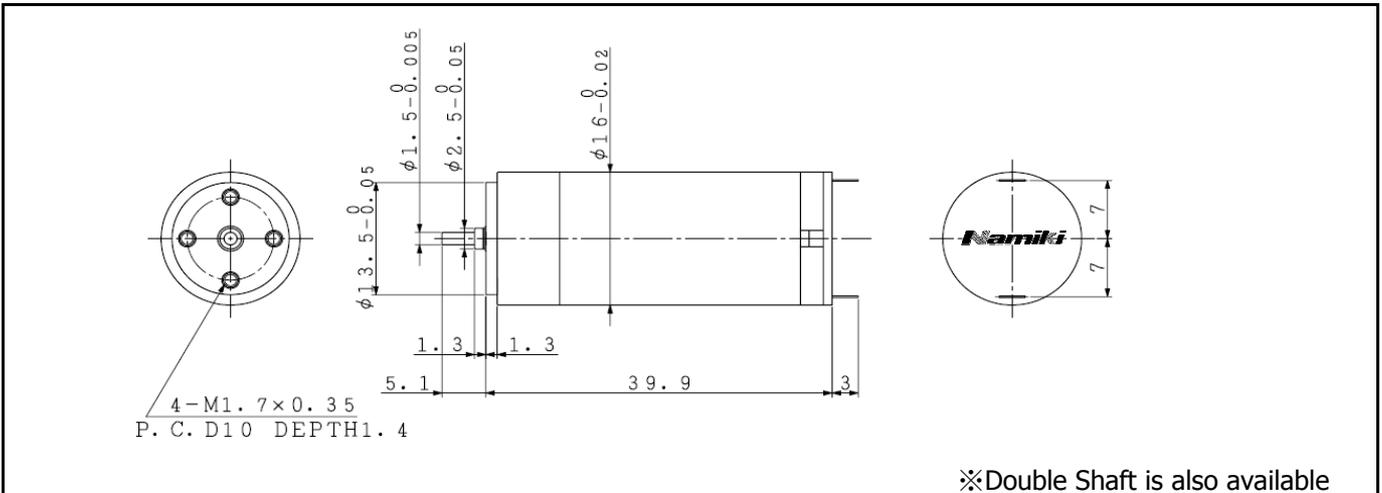


V01

# CGE16-40 3.5W

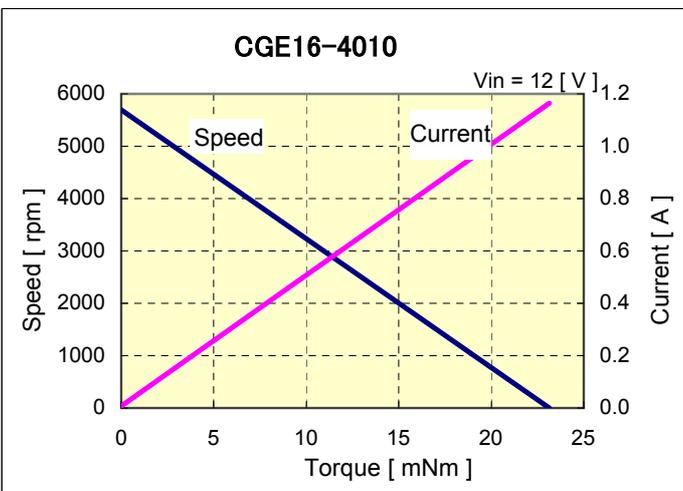
Precious metal commutation  
RoHS COMPLIANT

Special Specification



Combination : Gearhead...SPG16, SSG15 , Encoder...EHM12-3F

Ordering number	CGE16-4002	CGE16-4003	CGE16-4006	CGE16-4010	CGE16-4022	CGE16-4057	
1 Nominal voltage	6	7.2	9	12	18	24	V
2 Terminal resistance	2.24	3.47	5.75	10.31	22.61	56.75	Ω
3 Output power	3.99	3.70	3.49	3.46	3.55	2.51	W
4 Efficiency	86.3	85.9	85.6	85.3	85.4	83.8	%
5 No-load speed	5702	5574	5532	5698	5786	5058	rpm
6 No-load current	0.014	0.011	0.009	0.007	0.005	0.003	A
7 Stall torque	26.64	25.30	24.04	23.14	23.37	18.89	mNm
8 Friction Torque	0.14	0.14	0.14	0.14	0.14	0.14	mNm
9 Back-EMF constant	1.047	1.285	1.618	2.094	3.093	4.711	mV/rpm
10 Torque constant	10.00	12.27	15.45	19.99	29.54	44.99	mNm/A
11 Slope of N-T curve	214	220	230	246	248	268	rpm/mNm
12 Mechanical time constant	3.34	3.30	3.28	3.29	3.30	3.35	ms
13 Rotor inertia	1.488	1.429	1.362	1.276	1.273	1.194	gcm <sup>2</sup>

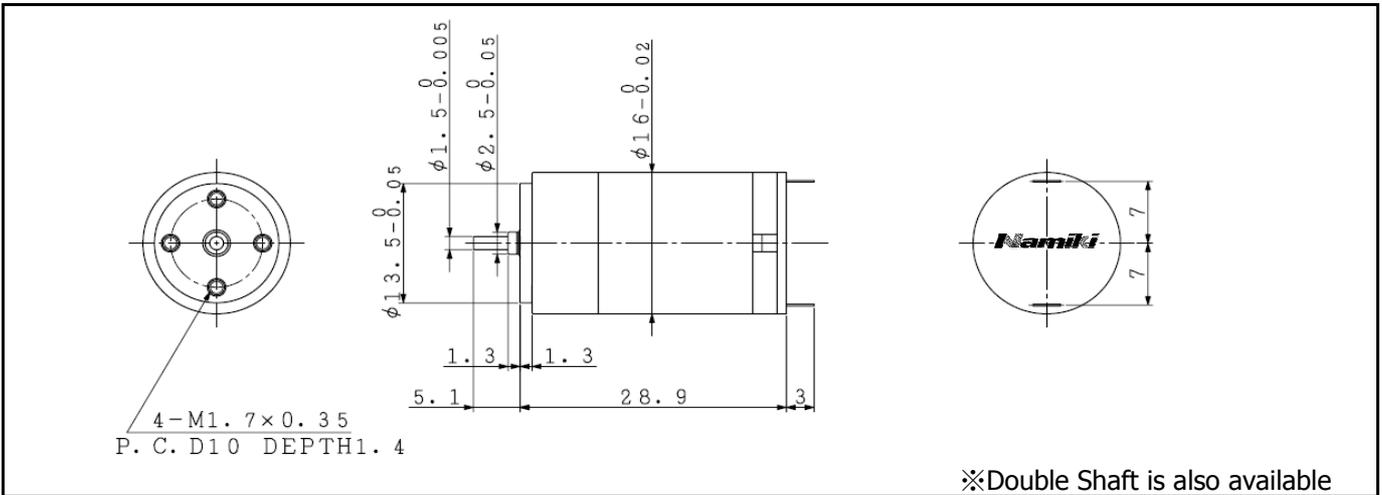


V01

# CGR16-29 2.0W Quick Response Type

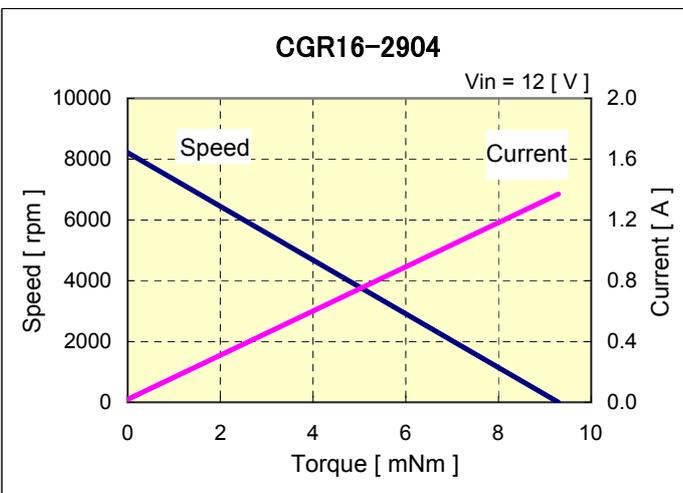
Precious metal commutation  
RoHS COMPLIANT

Special Specification



Combination : Gearhead...SPG16, SSG15 , Encoder...EHM12-3F

Ordering number		CGR16-2902	CGR16-2903	CGR16-2904	CGR16-2907	CGR16-2910
1	Nominal voltage	3.6	4.8	6	7.2	9 V
2	Terminal resistance	1.83	2.77	4.38	7.43	9.84 Ω
3	Output power	1.72	2.03	2.00	1.69	2.00 W
4	Efficiency	77.0	77.7	77.4	76.2	76.8 %
5	No-load speed	7385	8065	8211	7810	8743 rpm
6	No-load current	0.030	0.024	0.020	0.016	0.014 A
7	Stall torque	8.89	9.57	9.29	8.26	8.72 mNm
8	Friction Torque	0.14	0.14	0.14	0.14	0.14 mNm
9	Back-EMF constant	0.480	0.587	0.720	0.907	1.014 mV/rpm
10	Torque constant	4.59	5.60	6.88	8.66	9.68 mNm/A
11	Slope of N-T curve	831	843	884	945	1003 rpm/mNm
12	Mechanical time constant	3.94	3.90	3.90	3.91	3.96 ms
13	Rotor inertia	0.453	0.442	0.422	0.395	0.377 gcm <sup>2</sup>



V01

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Specifications subject to change without notice