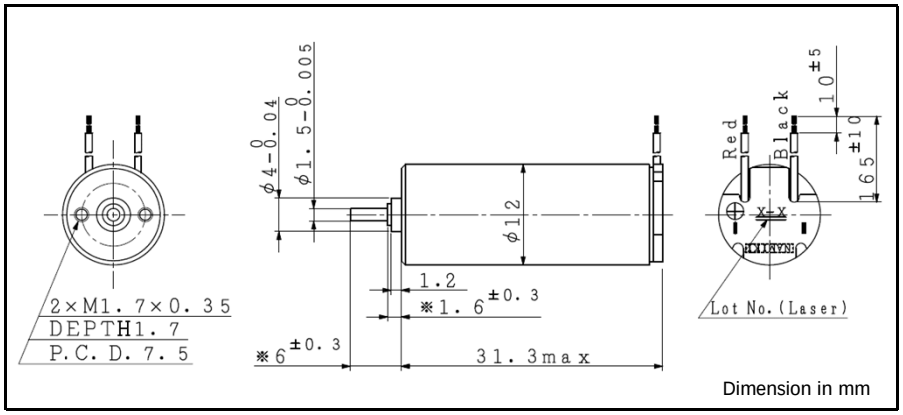
DC CORELESS MOTOR SERIES

CMS 12-30 φ12 , 0.80 mNm

Precious metal commutation, Sleeve bearing

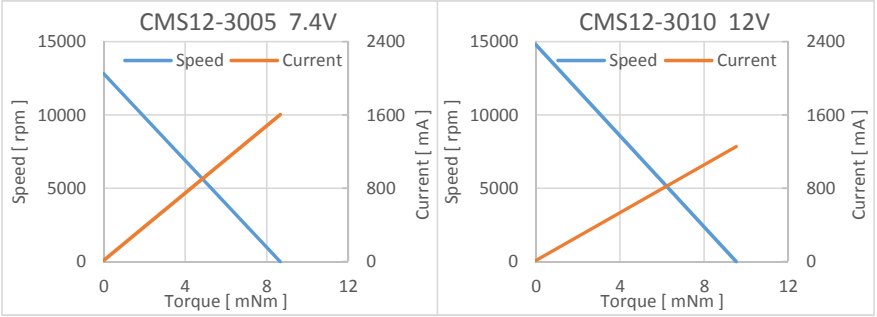


For combination with gearhead: SSG12, SPG12

	Ordering number	CMS12-3005	CMS12-3010	
1	Nominal voltage	7.4	12.0	V
2	Rated torque	0.824	0.867	mNm
3	Rated speed	11600	13500	rpm
4	Rated current	167	125	mA
5	No load speed	12800	14800	rpm
6	No load current	16	12	mA
7	Stall torque	8.66	9.52	mNm
8	Stall current	1.61	1.25	A
9	Output power	2.9	3.7	W
10	Max. efficiency	81	82	%
11	Terminal resistance	4.61	9.57	Ω
12	Friction torque	0.09	0.09	mNm
13	Back-EMF constant	0.571	0.803	mV/rpm
14	Torque constant	5.45	7.67	mNm/A
15	Slope of N-T curve	1481	1555	rpm/mNm
16	Mechanical time constant	5.34	5.37	ms
17	Rotor inertia	0.34	0.33	gcm^2
18	Max. torque	4.33	4.76	mNm

	Mechanical data		
19	Shaft radial play	0.05	mm
20	Shaft axial play	0.03 ~ 0.2	mm
21	Max. shaft radial load	0.03 (5 mm)	N
22	Max. shaft axial load	0.1	N
23	Max. shaft axial load at standstill	4.9	N

	Environmental specifications		
24	Operating temperature	-20 ~ 60	℃
25	Max. coil temperature	80	℃
	Other specifications		
26	Weight	19.5	g
27	Number of segments	5	
28	Bearing type	Sintered sleeve	



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Specifications are subject to change without notice.