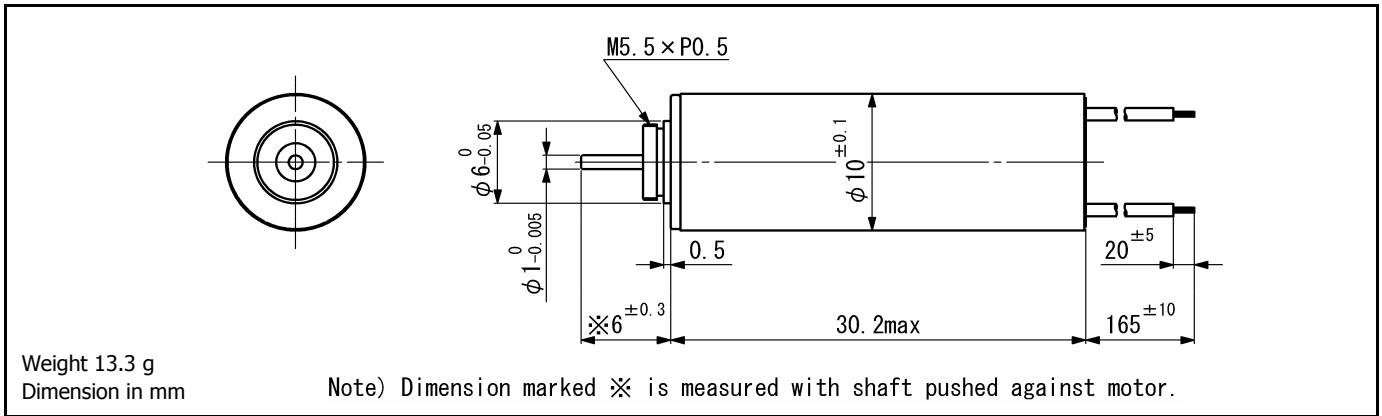


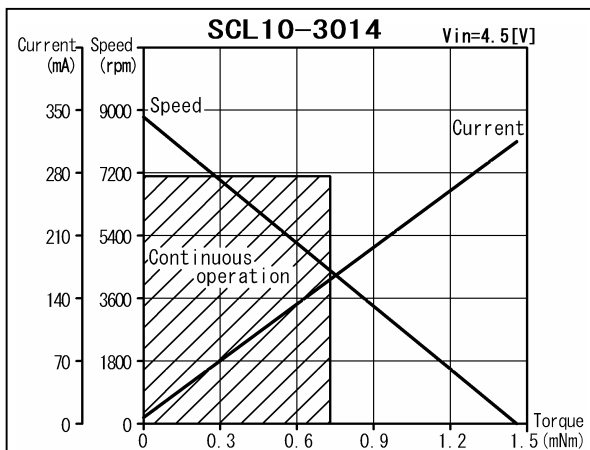
SCL10-30

Precious metal commutation



For combination with gearheads: **SSG10, SPG10**

Ordering number	SCL10					
	-3004	-3014	-3008	-3012	-3032	-3060
1 Nominal voltage	3	4.5	4.5	6	9	12 V
2 Terminal resistance	3.6	14	7.8	12	32	60 Ω
3 Output power	0.60	0.34	0.62	0.73	0.60	0.57 W
4 Efficiency	72	72	72	73	71	70 %
5 No-load speed	10030	8800	10160	11300	10960	11240 rpm
6 No-load current	19	7	13	11	7	5 mA
7 Stall torque	2.3	1.5	2.3	2.5	2.1	1.9 mNm
8 Friction torque	0.054	0.033	0.054	0.054	0.054	0.054 mNm
9 Back-EMF constant	0.29	0.50	0.43	0.52	0.80	1.0 mV/rpm
10 Torque constant	2.8	4.8	4.2	5.0	7.6	9.9 mNm/A
11 Slope of N-T curve	4390	5990	4360	4580	5250	5820 rpm/mNm
12 Coil inductance	0.052	0.15	0.11	0.16	0.39	0.65 mH
13 Mechanical time constant	8	8	8	8	8	9 ms
14 Rotor inertia	0.17	0.13	0.17	0.16	0.15	0.14 gcm ²
Continuous operation						
15 Max. torque	1.3	1.2	1.3	1.3	1.2	1.2 mNm



General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	R _{th1} = 11, R _{th2} = 39	K/W
19 Bearings type	Sintered sleeves	
20 Max. shaft radial load	0.5 (5 mm)	N
21 Max. shaft axial load	0.15	N
22 Max. axial load at standstill	7.8	N
23 Shaft radial play	0.05	mm
24 Shaft axial play	0.03...0.2	mm

Options:

Lead wires length, shaft length, special coils, commutator with capacitors.

V01