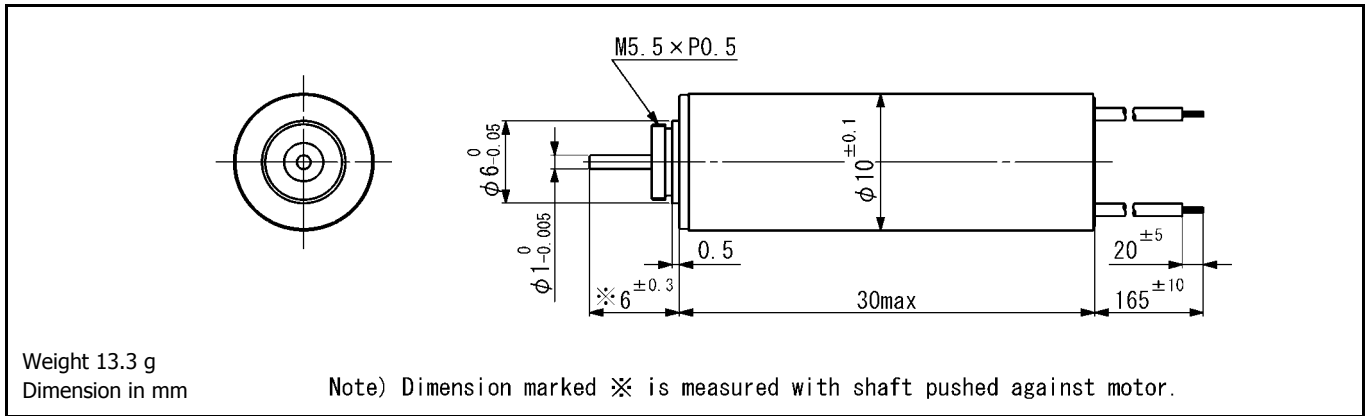


SCL10-30

Precious metal commutation

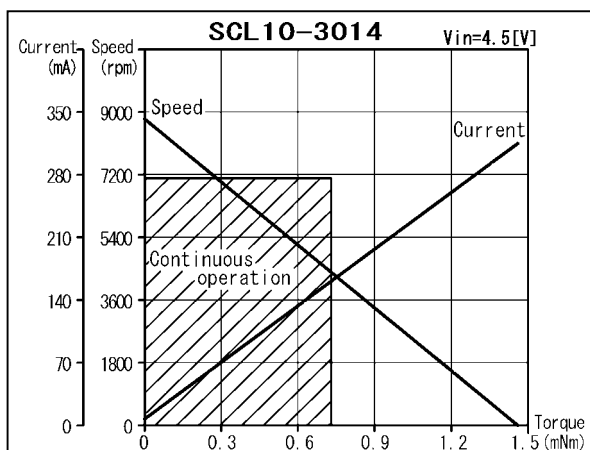


For combination with gearheads: SSG10, SPG10

Ordering number		SCL10-3008	SCL10-3014
1 Nominal voltage		4.5	4.5 V
2 Terminal resistance		7.8	14.3 Ω
3 Output power		0.63	0.34 W
4 Efficiency		73	72 %
5 No-load speed		10160	8800 rpm
6 No-load current		13	7 mA
7 Stall torque		2.35	1.47 mNm
8 Friction torque		0.05	0.03 mNm
9 Back-EMF constant		0.43	0.5 mV/rpm
10 Torque constant		4.14	4.77 mNm/A
11 Slope of N-T curve		4330	6000 rpm/mNm
12 Coil inductance		0.14	0.15 mH
13 Mechanical time constant		7.6	8.4 ms
14 Rotor inertia		0.17	0.13 gcm ²

Continuous operation

15 Speed range		8100	7000 rpm
16 Max. torque		1.17	0.73 mNm



General specifications

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

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