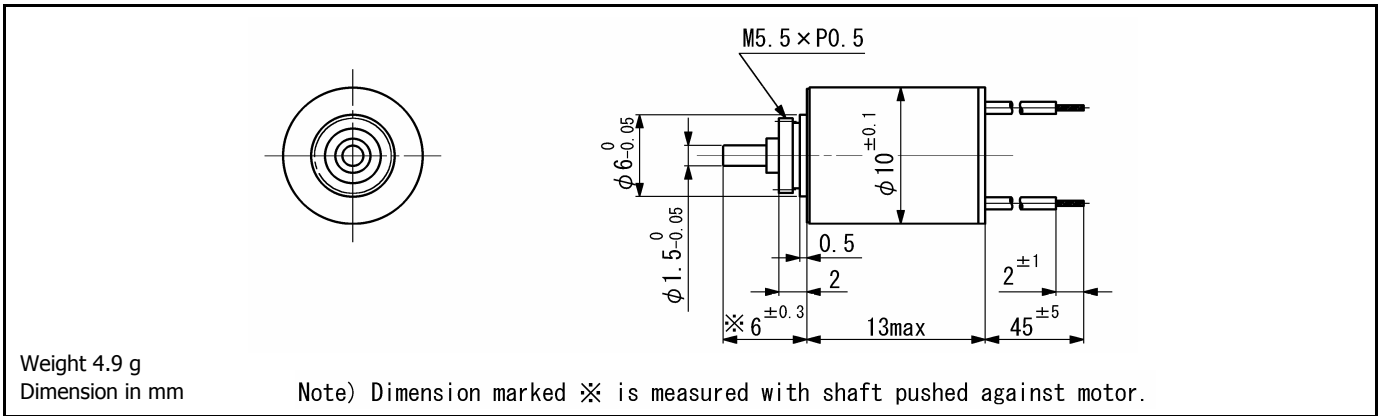


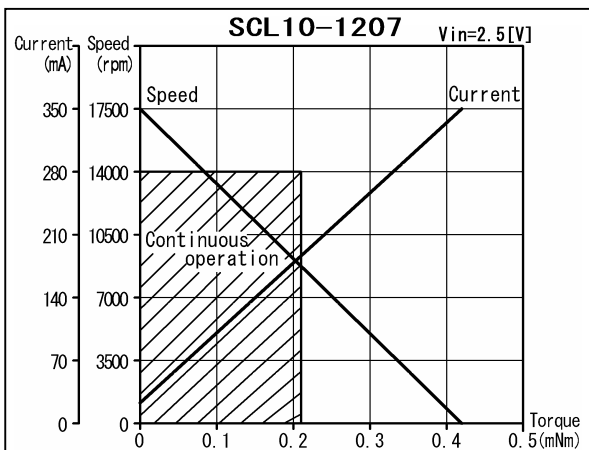
# SCL10-12

Precious metal commutation



For combination with gearhead: SSG10

Ordering number	SCL10					
				-1207	-1212	-1222
1 Nominal voltage				2.5	3.5	4.5 V
2 Terminal resistance				7.1	12	22 Ω
3 Output power				0.19	0.23	0.20 W
4 Efficiency				55	56	54 %
5 No-load speed				17500	19840	19350 rpm
6 No-load current				23	19	14 mA
7 Stall torque				0.42	0.44	0.39 mNm
8 Friction torque				0.029	0.029	0.029 mNm
9 Back-EMF constant				0.13	0.17	0.22 mV/rpm
10 Torque constant				1.3	1.6	2.1 mNm/A
11 Slope of N-T curve				41700	45580	50000 rpm/mNm
12 Coil inductance				0.035	0.054	0.092 mH
13 Mechanical time constant				23	23	24 ms
14 Rotor inertia				0.052	0.049	0.046 gcm <sup>2</sup>
<b>Continuous operation</b>						
15 Max. torque				0.32	0.31	0.29 mNm



### General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	R <sub>th1</sub> = 21, R <sub>th2</sub> = 61	K/W
19 Bearings type	Sintered sleeves	
20 Max. shaft radial load	0.3 (5 mm)	N
21 Max. shaft axial load	0.1	N
22 Max. axial load at standstill	4.9	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

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Specifications subject to change without notice