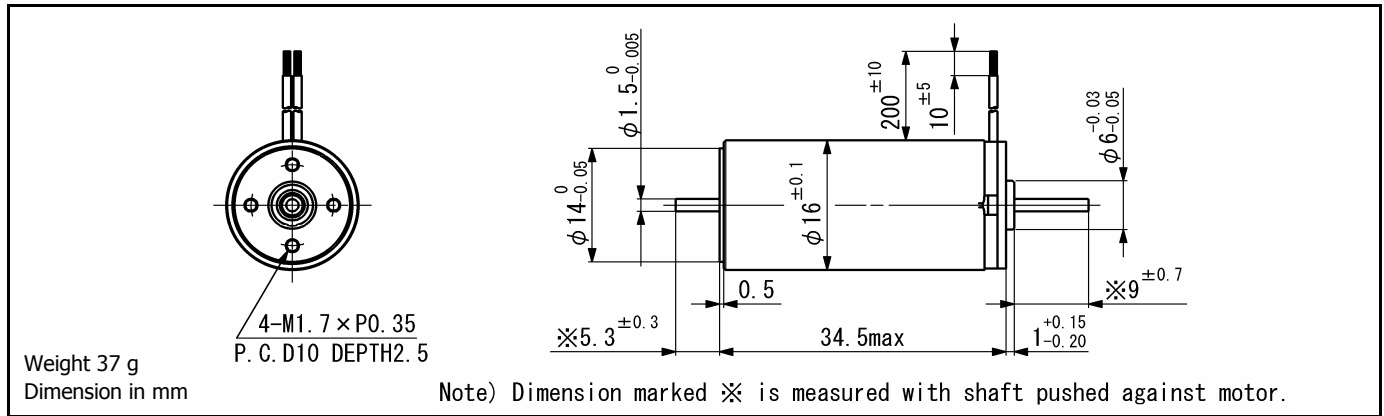


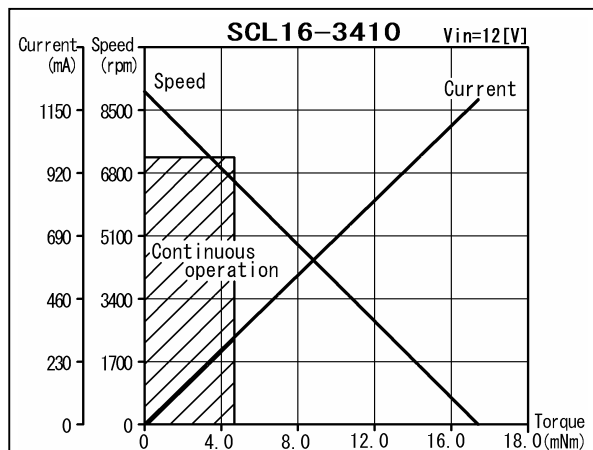
# SCL16-34

Precious metal commutation



For combination with gearheads: SSG15, SPG16

Ordering number	SCL16				
	-3403	-3405	-3410	-3416	-3424
1 Nominal voltage	6	9	12	15	18 V
2 Terminal resistance	3.2	5.4	10	16	24 $\Omega$
3 Output power	2.9	3.7	3.5	3.6	3.4 W
4 Efficiency	94	94	94	94	94 %
5 No-load speed	7590	8890	9000	8930	9000 rpm
6 No-load current	17	13	10	8	7 mA
7 Stall torque	14.3	16.0	15.0	15.2	14.4 mNm
8 Friction torque	0.013	0.013	0.013	0.013	0.013 mNm
9 Back-EMF constant	0.79	1.0	1.3	1.7	2.0 mV/rpm
10 Torque constant	7.5	9.7	12.7	16.0	19.1 mNm/A
11 Slope of N-T curve	530	560	600	590	620 rpm/mNm
12 Coil inductance	0.056	0.092	0.16	0.25	0.36 mH
13 Mechanical time constant	7	7	7	7	7 ms
14 Rotor inertia	1.2	1.1	1.0	1.1	1.0 gcm <sup>2</sup>
<b>Continuous operation</b>					
15 Max. torque	4.8	4.7	4.5	4.6	4.5 mNm



### General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	$R_{th1} = 4, R_{th2} = 30$	K/W
19 Bearings type	Sintered sleeves	
20 Max. shaft radial load	1.2 (5 mm)	N
21 Max. shaft axial load	0.2	N
22 Max. axial load at standstill	9.8	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