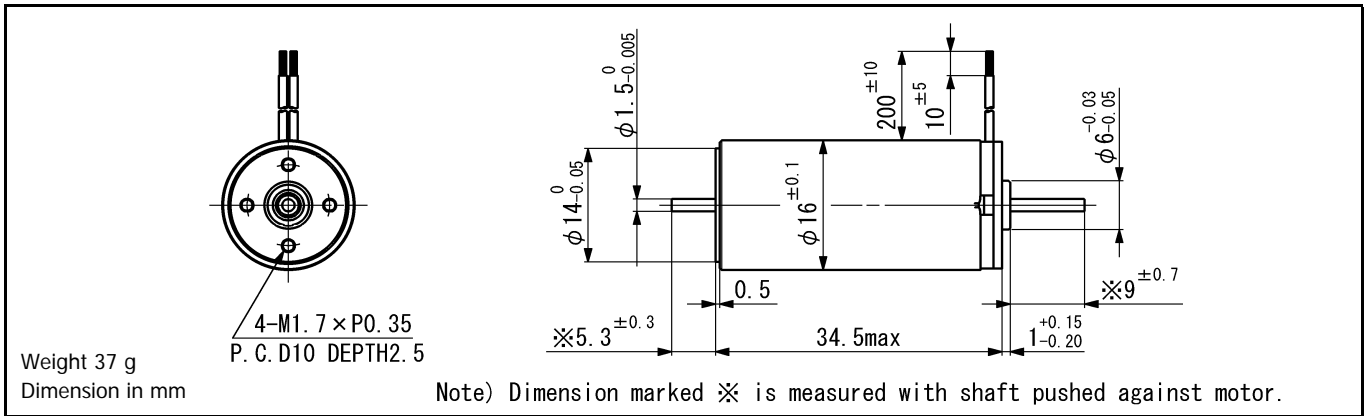


# SCL16-34

Precious metal commutation



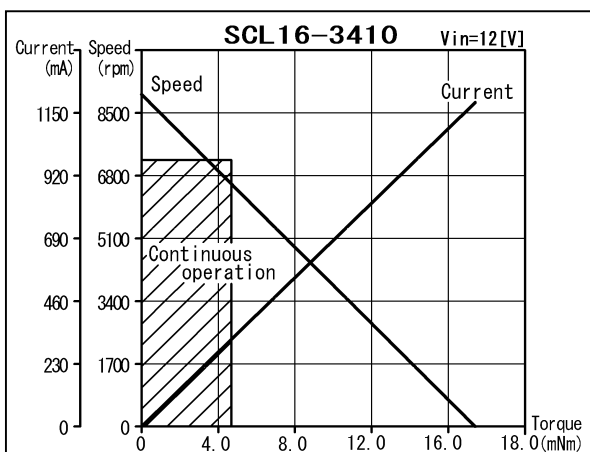
For combination with gearheads: SSG15, SPG16

For combination with encoder: ME16

Ordering number	SCL16-3410
1 Nominal voltage	12 V
2 Terminal resistance	10.2 Ω
3 Output power	4 W
4 Efficiency	83 %
5 No-load speed	9000 rpm
6 No-load current	10 mA
7 Stall torque	16.7 mNm
8 Friction torque	0.13 mNm
9 Back-EMF constant	1.32 mV/rpm
10 Torque constant	12.6 mNm/A
11 Slope of N-T curve	612 rpm/mNm
12 Coil inductance	0.16 mH
13 Mechanical time constant	6.6 ms
14 Rotor inertia	1.03 gcm <sup>2</sup>

### Continuous operation

15 Speed range	7200 rpm
16 Max. torque	4.43 mNm



### General specifications

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