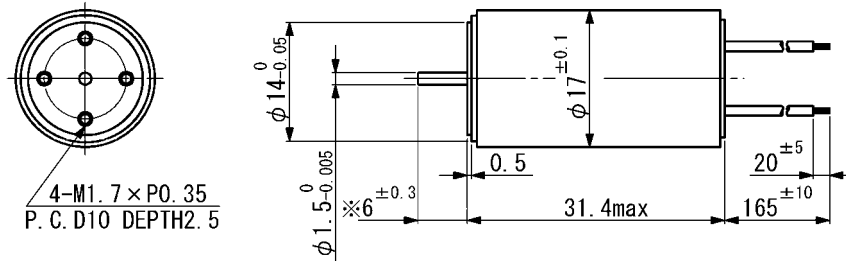


# SCL17-30

Precious metal commutation



Weight 42 g  
Dimension in mm

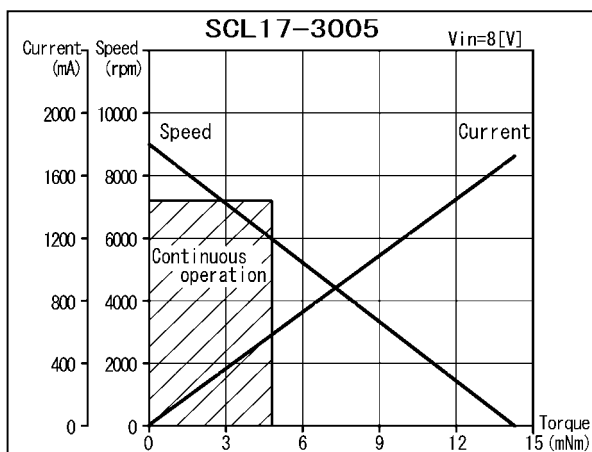
Note) Dimension marked ※ is measured with shaft pushed against motor.

For combination with gearheads: SSG15, SPG16

Ordering number				SCL17-3005
1 Nominal voltage				8 V
2 Terminal resistance				4.64 Ω
3 Output power				3.4 W
4 Efficiency				87 %
5 No-load speed				9000 rpm
6 No-load current				8 mA
7 Stall torque				14.5 mNm
8 Friction torque				0.07 mNm
9 Back-EMF constant				0.88 mV/rpm
10 Torque constant				8.45 mNm/A
11 Slope of N-T curve				620 rpm/mNm
12 Coil inductance				0.05 mH
13 Mechanical time constant				4.8 ms
14 Rotor inertia				0.74 gcm <sup>2</sup>

### Continuous operation

15 Speed range				7200 rpm
16 Max. torque				4.83 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> = 25	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.