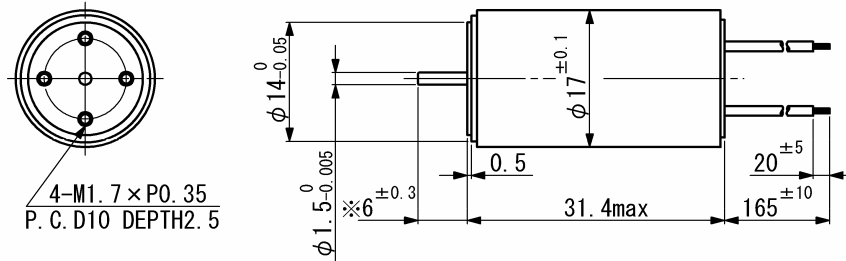


SCL17-30

Precious metal commutation

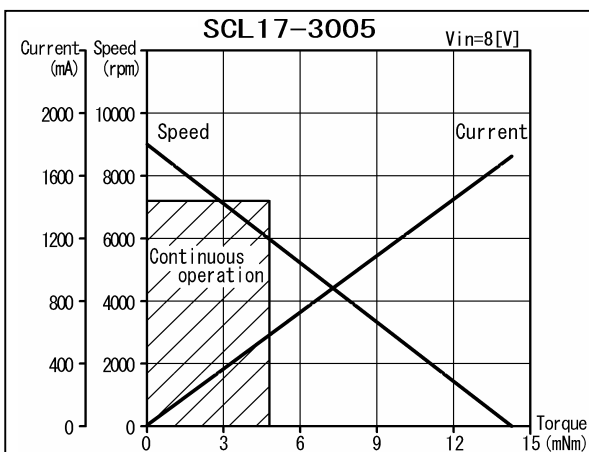


Weight 42 g
Dimension in mm

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

For combination with gearheads: SSG15, SPG16

Ordering number	SCL17					
	-3003	-3005	-3006	-3011	-3017	-3026
1 Nominal voltage	6	8	9	12	15	18 V
2 Terminal resistance	2.7	4.6	6.1	11	17	26 Ω
3 Output power	3.4	3.4	3.3	3.3	3.4	3.0 W
4 Efficiency	87	87	87	87	87	86 %
5 No-load speed	8830	9000	9060	9000	9250	8940 rpm
6 No-load current	10	8	7	5	4	4 mA
7 Stall torque	14.6	14.5	13.8	13.8	13.9	13.0 mNm
8 Friction torque	0.068	0.068	0.068	0.068	0.068	0.068 mNm
9 Back-EMF constant	0.68	0.89	0.99	1.3	1.6	2.0 mV/rpm
10 Torque constant	6.5	8.4	9.4	12.7	15.4	19.1 mNm/A
11 Slope of N-T curve	610	620	660	650	670	690 rpm/mNm
12 Coil inductance	0.029	0.050	0.062	0.11	0.17	0.26 mH
13 Mechanical time constant	5	5	5	5	5	5 ms
14 Rotor inertia	0.76	0.74	0.70	0.70	0.69	0.68 gcm ²
Continuous operation						
15 Max. torque	4.8	4.8	4.7	4.7	4.6	4.5 mNm



General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	$R_{th1} = 4, R_{th2} = 25$	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

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Specifications subject to change without notice