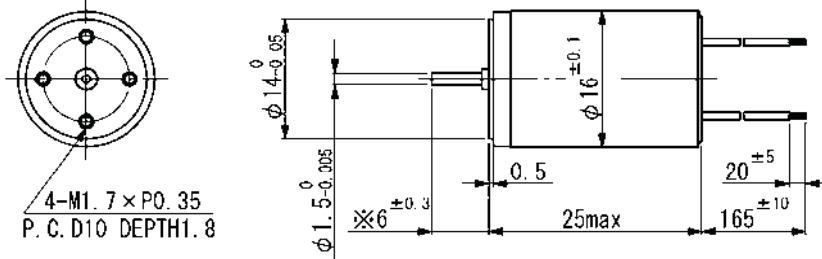


SCL16-25

Precious metal commutation

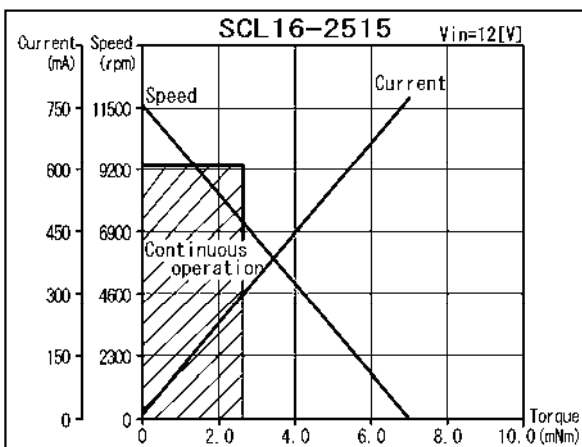


Weight 28 g
Dimension in mm

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

For combination with gearheads: SSG15, SPG16

Ordering number	SCL16					
	-2502	-2506	-2510	-2555	-2515	-2526
1 Nominal voltage	3	6	9	12	12	15 V
2 Terminal resistance	2.0	6.2	9.8	55	16	26 Ω
3 Output power	1.1	1.4	2.0	0.63	2.3	2.1 W
4 Efficiency	80	80	82	76	82	82 %
5 No-load speed	7640	9100	10640	5770	11600	11010 rpm
6 No-load current	18	11	9	4	7	5 mA
7 Stall torque	5.6	6.0	7.3	4.2	7.5	7.4 mNm
8 Friction torque	0.068	0.068	0.068	0.070	0.069	0.068 mNm
9 Back-EMF constant	0.39	0.65	0.84	2.0	1.0	1.4 mV/rpm
10 Torque constant	3.7	6.2	8.0	19.5	9.8	12.9 mNm/A
11 Slope of N-T curve	1360	1530	1460	1380	1540	1490 rpm/mNm
12 Coil inductance	0.041	0.12	0.19	1.2	0.32	0.49 mH
13 Mechanical time constant	9	9	9	8	8	9 ms
14 Rotor inertia	0.66	0.58	0.60	0.58	0.46	0.60 gcm ²
Continuous operation						
15 Max. torque	2.8	2.7	2.7	2.8	2.7	2.7 rpm



General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	$R_{th1} = 6, R_{th2} = 31$	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

Specifications subject to change without notice