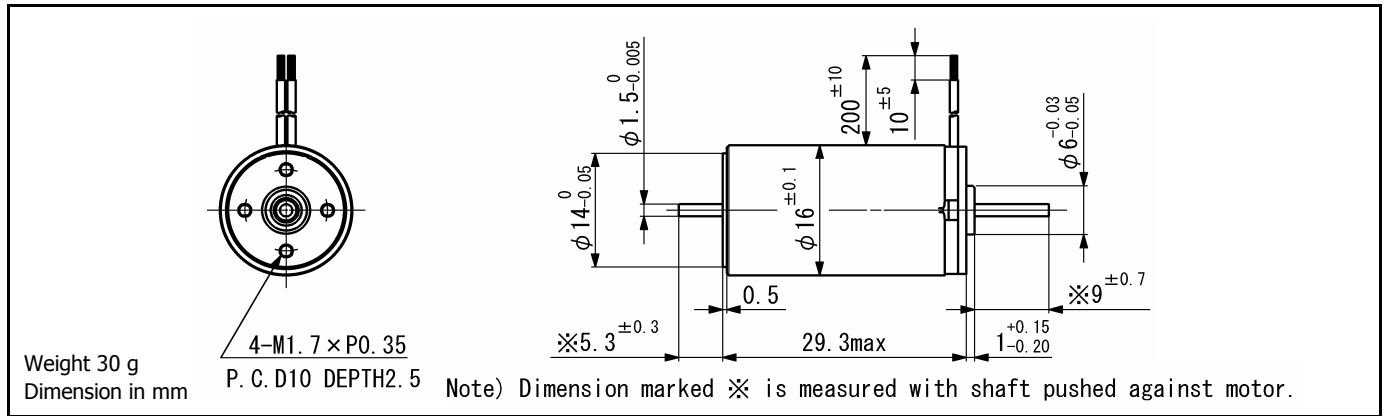


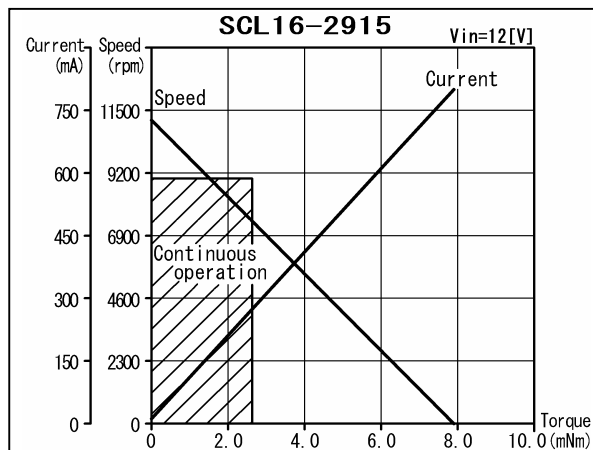
# SCL16-29

Precious metal commutation



For combination with gearheads: SSG15, SPG16

Ordering number	SCL16					
	-2902	-2906	-2909	-2915	-2929	-2940
1 Nominal voltage	3	6	9	12	15	18 V
2 Terminal resistance	1.8	6.0	9.1	15	29	40 $\Omega$
3 Output power	1.2	1.5	2.2	2.3	1.9	2.0 W
4 Efficiency	72	74	75	76	74	74 %
5 No-load speed	7930	9430	11280	11400	11300	11370 rpm
6 No-load current	36	19	17	13	10	9 mA
7 Stall torque	5.6	5.9	7.3	7.7	6.4	6.5 mNm
8 Friction torque	0.13	0.11	0.13	0.13	0.13	0.13 mNm
9 Back-EMF constant	0.37	0.63	0.78	1.0	1.3	1.6 mV/rpm
10 Torque constant	3.5	6.0	7.5	9.9	12.4	14.8 mNm/A
11 Slope of N-T curve	1420	1610	1550	1480	1770	1740 rpm/mNm
12 Coil inductance	0.041	0.12	0.18	0.32	0.51	0.72 mH
13 Mechanical time constant	8	9	8	8	8	8 ms
14 Rotor inertia	0.56	0.55	0.50	0.53	0.44	0.46 gcm <sup>2</sup>
<b>Continuous operation</b>						
15 Max. torque	2.7	2.5	2.6	2.6	2.4	2.4 mNm



### General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	$R_{th1} = 5, R_{th2} = 33$	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