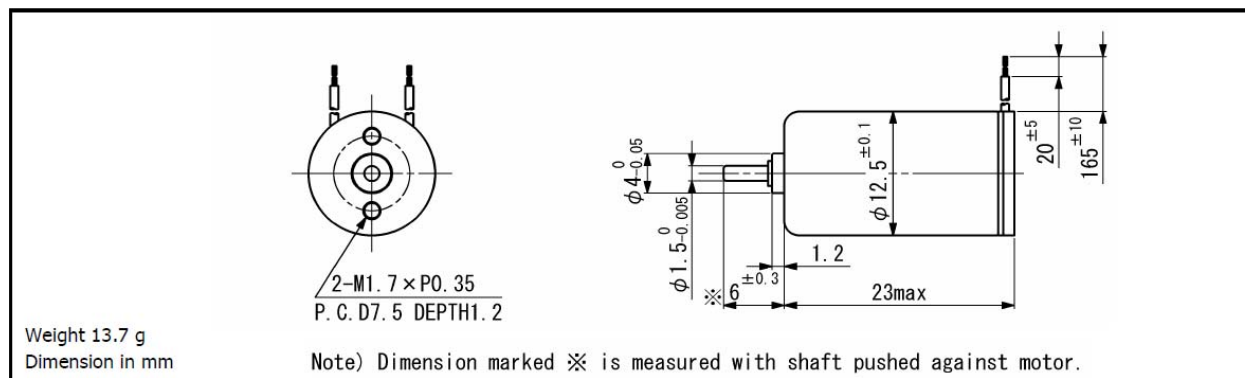




## DC CORELESS MOTOR SERIES

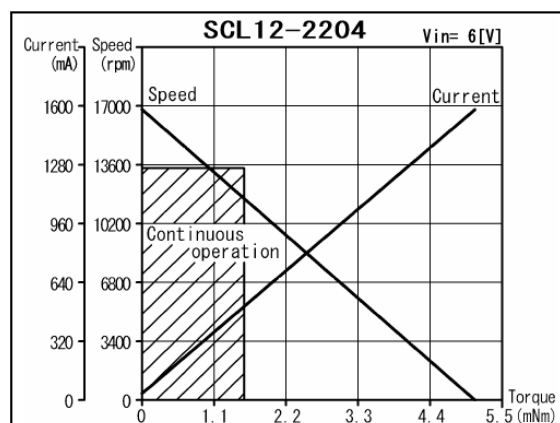
## SCL12-22

Precious metal commutation



For combination with gearheads: SSG12, SPG12

Ordering number	SCL12					
		-2202	-2204	-2212	-2222	-22H6
1 Nominal voltage		3	6	9	12	24 V
2 Terminal resistance		2.0	3.8	12	22	160 Ω
3 Output power		1.1	2.3	1.6	1.6	0.84 W
4 Efficiency		67	72	75	75	67 %
5 No-load speed		11770	16800	14340	14000	12300 rpm
6 No-load current		50	35	14	10	5 mA
7 Stall torque		3.5	5.1	4.2	4.3	2.6 mNm
8 Friction torque		0.12	0.12	0.080	0.080	0.090 mNm
9 Back-EMF constant		0.25	0.35	0.62	0.84	1.9 mV/rpm
10 Torque constant		2.4	3.3	5.9	8.0	18.0 mNm/A
11 Slope of N-T curve		3390	3260	3400	3240	4730 rpm/mNm
12 Coil inductance		0.025	0.050	0.16	0.29	2.3 mH
13 Mechanical time constant		12	12	10	10	10 ms
14 Rotor inertia		0.33	0.34	0.27	0.29	0.20 gcm <sup>2</sup>
<b>Continuous operation</b>						
15 Max. torque		1.6	1.6	1.6	1.6	1.3 mNm



## General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	$R_{th1} = 10, R_{th2} = 35$	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, terminals instead of lead wires, shaft length, special coils, commutator with capacitors.

V01

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Specifications subject to change without notice



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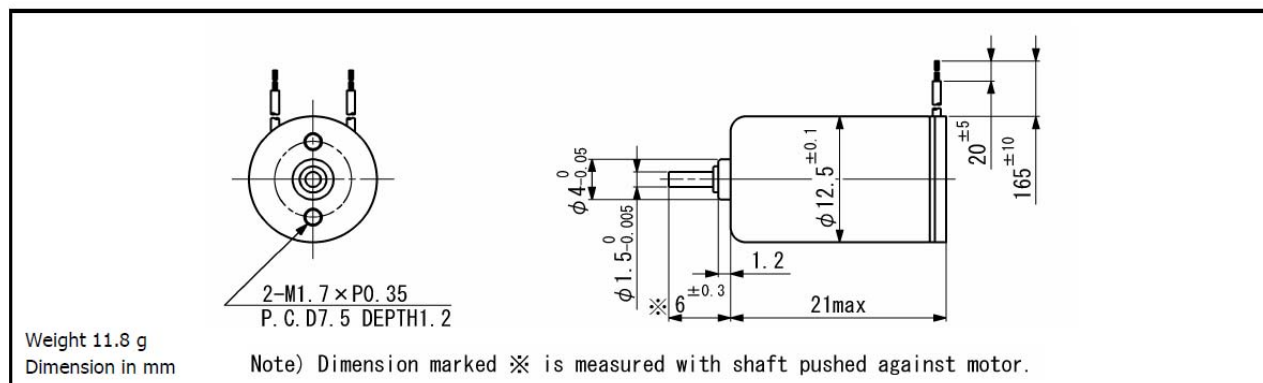




## DC CORELESS MOTOR SERIES

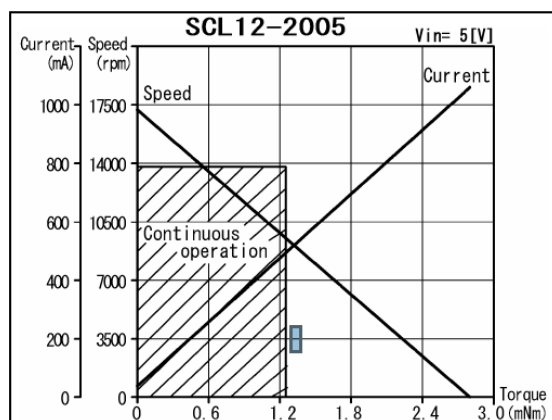
## SCL12-20

## Precious metal commutation



For combination with gearheads: SSG12, SPG12

Ordering number	SCL12				
	-2003	-2005	-2026	-2038	-20H3
1 Nominal voltage	3	5	9	12	15 V
2 Terminal resistance	2.6	4.7	26	38	126 Ω
3 Output power	0.79	1.3	0.75	0.87	0.39 W
4 Efficiency	62	75	69	62	55 %
5 No-load speed	15100	17200	15330	15900	11600 rpm
6 No-load current	53	20	10	14	8 mA
7 Stall torque	2.0	2.8	1.9	2.1	1.3 mNm
8 Friction torque	0.096	0.054	0.054	0.096	0.092 mNm
9 Back-EMF constant	0.19	0.29	0.57	0.72	1.2 mV/rpm
10 Torque constant	1.8	2.7	5.4	6.9	11.5 mNm/A
11 Slope of N-T curve	7580	6050	8260	7650	9070 rpm/mNm
12 Coil inductance	0.025	0.060	0.24	0.39	1.1 mH
13 Mechanical time constant	15	14	16	16	17 ms
14 Rotor inertia	0.19	0.23	0.18	0.19	0.18 gcm <sup>2</sup>
<b>Continuous operation</b>					
15 Max. torque	1.1	1.2	1.1	1.1	0.96 mNm



## General specifications

16 Operating temperature	-20...+60	°C
17 Max. coil temperature	+80	°C
18 Thermal resistances	R <sub>th1</sub> = 9, R <sub>th2</sub> = 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, terminals instead of lead wires, shaft length, special coils, commutator with capacitors.

V01

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