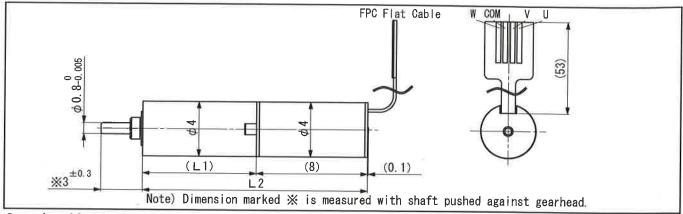
## SBL04-08

## Electronically commutated sensorless motor, slotless stator design



## Sensorless drive circuit SSD06

	SBL04-0829		SBL04-0829	SBL04-0829	
Ordering number	PG04-4.3	PG04-18	PG04-79	PG04-337	
1 Nominal voltage	3	3	3	3	V
2 Terminal resistance	29	29	29	29	Ω
3 Gearhead reduction ratio	4.3	18	79	337	:1
4 Gearhead number of stage	1	2	3	4	
5 Max. output power, gearhead output	0.02	0.02	0.01	0.01	W
6 Max. efficiency, motor only	12	11	11	9	%
7 No-load speed, gearhead output	7000	1500	350	85	rpm
8 No-load current	44	45	46	50	mA
9 Stall torque (2-points measurement), gearhead output	0.13	0.43	1.5	5.7	mNm
10 Friction torque	0.10	0.35	1.3	5.6	mNm
11 Back-EMF constant	0.24	1.1	4.7	17.8	mV/rpm
12 Torque constant	2.3	7.7	27.3		mNm/A
13 Coil inductance	74	74	74	74	μН
14 Mechanical time constant, motor only	5	5	5		ms
15 Gearhead length, L1	5.8	7	8.2	9.4	mm
16 Total length, L2	13.8	15	16.2	17.4	mm
17 Rotor inertia, motor only	9 x 10 <sup>-4</sup>	qcm <sup>2</sup>			
18 Total weight	810	990	1010	1030	_
General data					
19 Operating temperature range		-20 +70			°C
20 Max. temperature raise at stall		55			°C
21 Bearing type	*	Sintered sleeves			
22 Max. permissible press fit force, gearhead output		5			
23 Max. radial play, gearhead output		0.044			
24 Max. axial play, gearhead output		0.15			

## Ordering example

SBL04-0829PG18 corresponds to:

Motor SBL04-0829 +

Planetary gearhead SPG04-18