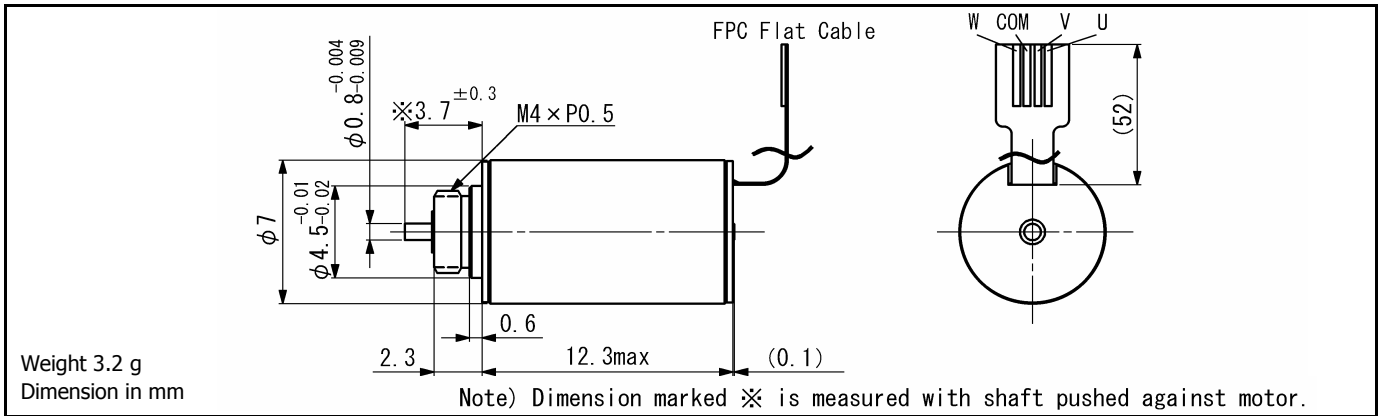


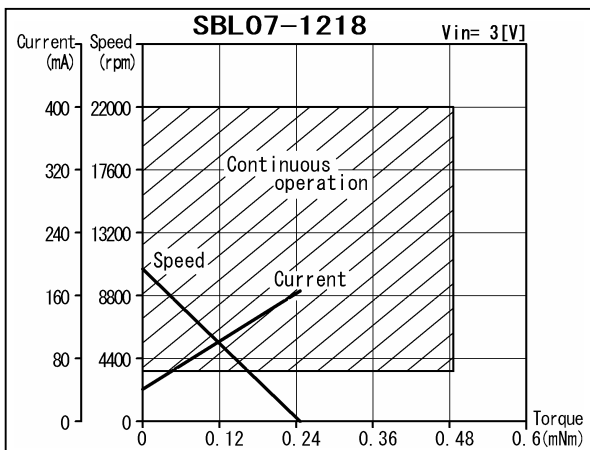
SBL07-12

Electronically commutated sensorless motor, slotless stator design



Sensorless drive circuit SSD07 Planetary gearhead SPG07

		SBL07				
Ordering number						-1218
1	Nominal voltage					3 V
2	Terminal resistance					18 Ω
3	Output power					0.07 W
4	Efficiency					25 %
5	No-load speed					10650 rpm
6	No-load current					41 mA
7	Stall torque					0.25 mNm
8	Friction torque					0.083 mNm
9	Back-EMF constant					0.21 mV/rpm
10	Torque constant					2.03 mNm/A
11	Slope of N-T curve					41977 rpm/mNm
12	Coil inductance					0.13 mH
13	Mechanical time constant (starting oscillating time neglected)					5.2 ms
14	Rotor inertia					0.012 gcm ²
Continuous operation						
15	Speed range					3500...22000 rpm
16	Max. torque					0.49 mNm



General specifications

17	Operating temperature	-20...+80	°C
18	Max. coil temperature	+90	°C
19	Thermal resistances	$R_{th1} = 4.4, R_{th2} = 32$	K/W
20	Bearings type	Sintered sleeves	
21	Max. shaft radial load	0.27 (3.7 mm)	N
22	Max. shaft axial load	0.1	N
23	Max. axial load at standstill	20	N
24	Shaft radial play	0.015	mm
25	Shaft axial play	0.23	mm

Options: Shaft length, special coils.

V01

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Specifications subject to change without notice