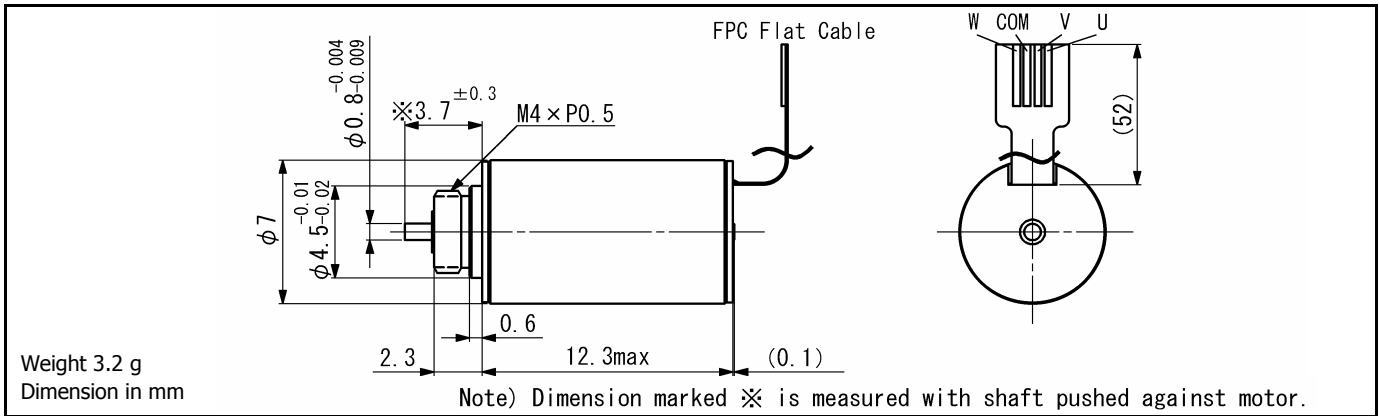


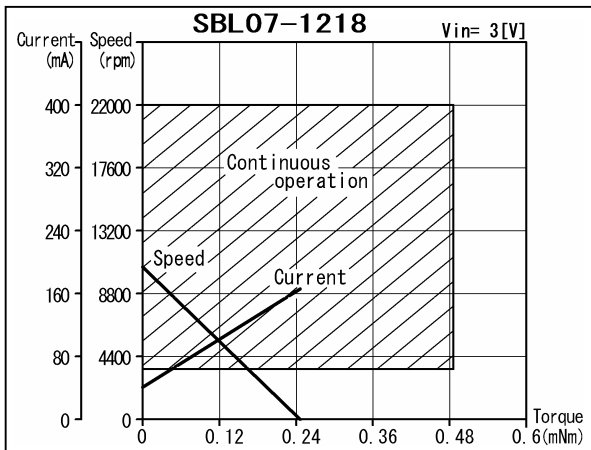
SBL07-12

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 | $^{\circ}C$ |
| 18 | Max. coil temperature | +90 | $^{\circ}C$ |
| 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