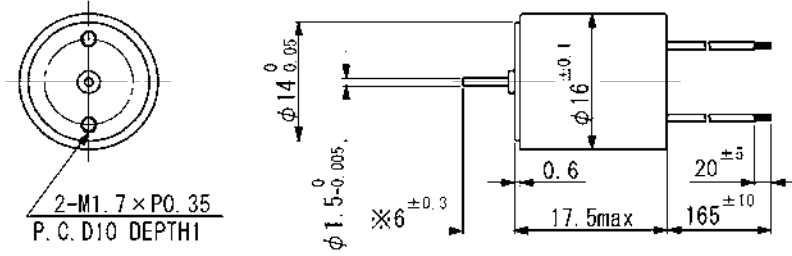


SCL16-15

Precious metal commutation

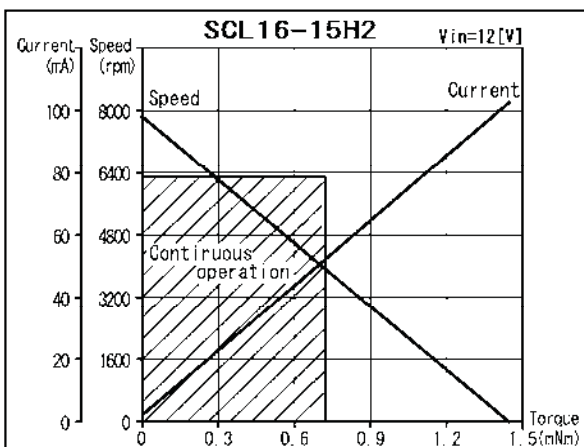


Weight 17.9 g
Dimension in mm

Note) Dimension marked ※ is measured with shaft pushed against motor.

For combination with gearhead: SSG15

| Ordering number | SCL16 | | | | | |
|-----------------------------|-------|--|-------|-------|-------|-----------------------|
| | | | -1507 | -1525 | -1559 | -15H2 |
| 1 Nominal voltage | | | 3 | 6 | 9 | 12 V |
| 2 Terminal resistance | | | 6.5 | 25 | 59 | 117 Ω |
| 3 Output power | | | 0.34 | 0.35 | 0.33 | 0.30 W |
| 4 Efficiency | | | 76 | 76 | 75 | 74 % |
| 5 No-load speed | | | 7330 | 7630 | 7840 | 7850 rpm |
| 6 No-load current | | | 7 | 4 | 3 | 2 mA |
| 7 Stall torque | | | 1.8 | 1.7 | 1.6 | 1.4 mNm |
| 8 Friction torque | | | 0.029 | 0.029 | 0.029 | 0.029 mNm |
| 9 Back-EMF constant | | | 0.40 | 0.77 | 1.1 | 1.5 mV/rpm |
| 10 Torque constant | | | 3.8 | 7.4 | 10.8 | 14.3 mNm/A |
| 11 Slope of N-T curve | | | 4170 | 4380 | 4850 | 5450 rpm/mNm |
| 12 Coil inductance | | | 0.11 | 0.41 | 0.88 | 1.6 mH |
| 13 Mechanical time constant | | | 23 | 23 | 23 | 24 ms |
| 14 Rotor inertia | | | 0.52 | 0.50 | 0.46 | 0.42 gcm ² |
| Continuous operation | | | | | | |
| 15 Max. torque | | | 1.4 | 1.3 | 1.3 | 1.2 mNm |



General specifications

| | | |
|----------------------------------|------------------------------|--------------------|
| 16 Operating temperature | -20...+60 | $^{\circ}\text{C}$ |
| 17 Max. coil temperature | +80 | $^{\circ}\text{C}$ |
| 18 Thermal resistances | $R_{th1} = 12, R_{th2} = 40$ | 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

Specifications subject to change without notice