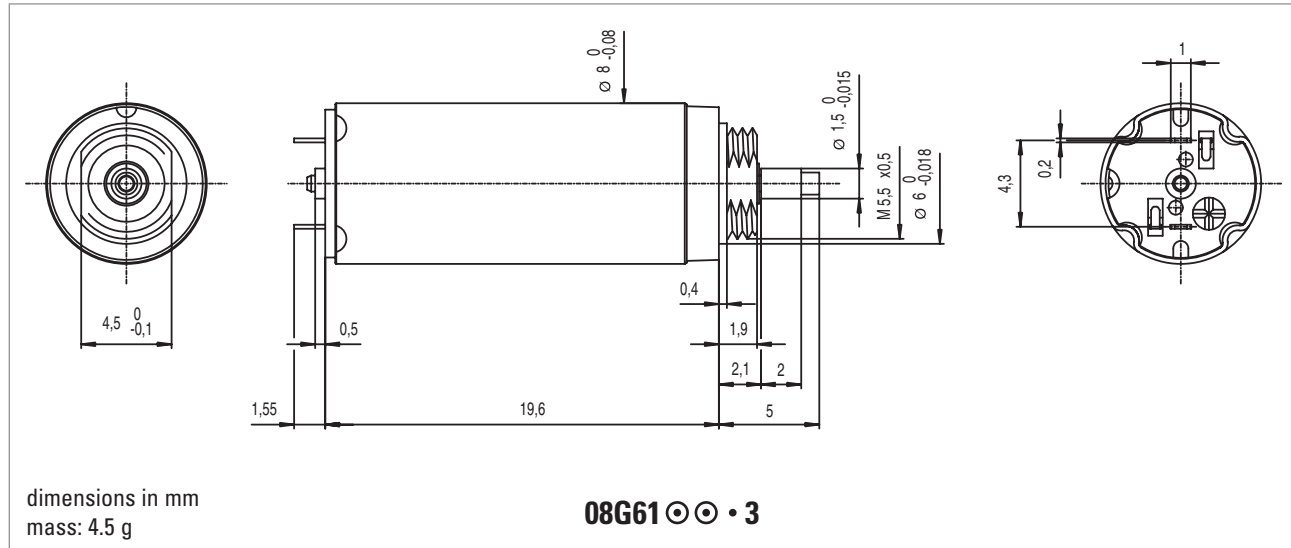


0.7 Watt

Precious Metal Commutation System - 5 Segments



| Winding Type | ⊙ ⊙ | -107 | -205C |
|-----------------------------------|------------------------------------|--------------|--------------|
| Measured Values | | | |
| Measuring voltage | V | 3 | 9 |
| No-load speed | rpm | 9800 | 11800 |
| Stall torque | mNm (oz-in) | 0.73 (0.103) | 1.01 (0.143) |
| Average No-load current | mA | 5.5 | 2.5 |
| Typical starting voltage | V | 0.2 | 0.6 |
| Max. Recommended Values | | | |
| Max. continuous current | A | 0.25 | 0.124 |
| Max. continuous torque | mNm (oz-in) | 0.7 (0.099) | 0.87 (0.102) |
| Max. angular acceleration | 10 ³ rad/s ² | 924 | 999 |
| Intrinsic Parameters | | | |
| Back-EMF constant | V/1000 rpm | 0.3 | 0.75 |
| Torque constant | mNm/A (oz-in/A) | 2.86 (0.406) | 7.2 (1.01) |
| Terminal resistance | ohm | 11.8 | 56.5 |
| Motor regulation R/k ² | 10 ³ /Nms | 1400 | 1200 |
| Rotor inductance | mH | 0.03 | 0.16 |
| Rotor inertia | kgm ² 10 ⁻⁷ | 0.035 | 0.035 |
| Mechanical time constant | ms | 5 | 4.4 |

| Executions | | |
|------------|-------------------|--------|
| Gearbox | Page | 08GS61 |
| R10 | 234 | 5 |
| R08 | Contact Portescap | |

- Thermal resistance: rotor-body 18°C/W, body-ambient 85°C/W
- Thermal time constant rotor/stator: 5 s/100s
- Max. rated coil temperature: 100°C
- Recom. ambient temperature range: -30°C to +85°C (-22°F to +185°F)
- Max. axial static force: 30 N
- End play: ≤ 100 μm
- Radial play: ≤ 15 μm
- Shaft runout: ≤ 10 μm
- Max. side load at 2 mm from mounting face: sleeve bearings 0.5 N
- Motor fitted with sleeve bearings

Max. Recommended Speed

