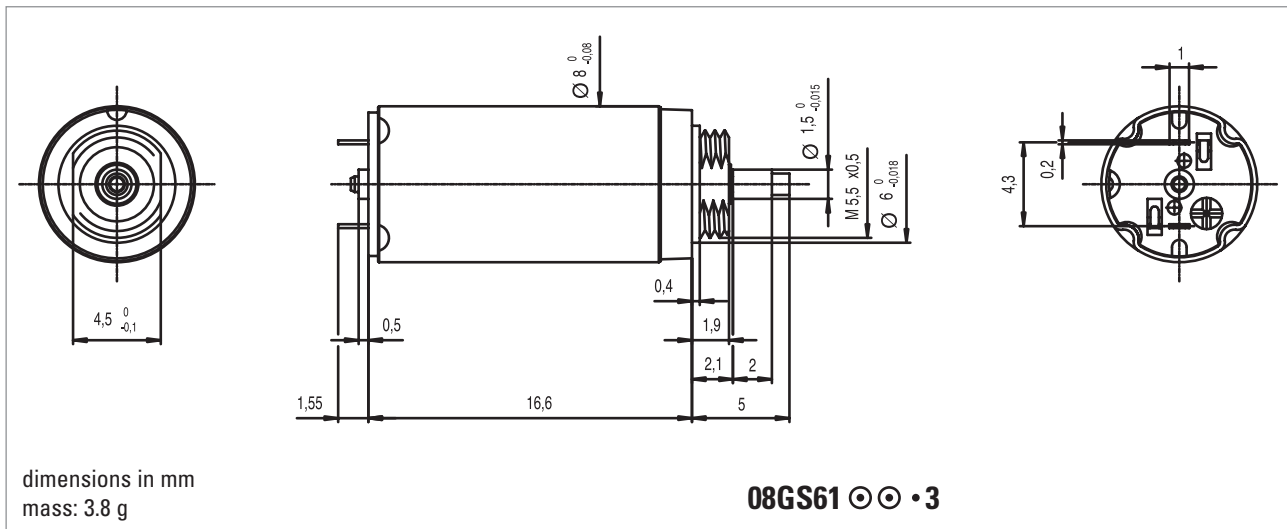


08GS61

Precious Metal Commutation System - 5 Segments

0.5 Watt

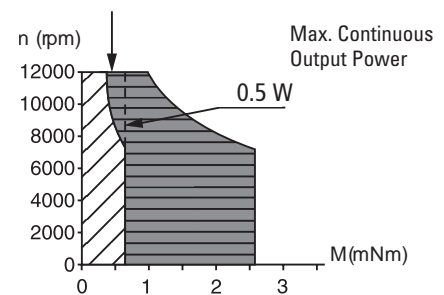


Winding Type	☉☉	-107	-105	-105C
Measured Values				
Measuring voltage	V	2	4.5	6
No-load speed	rpm	7000	10700	10600
Stall torque	mNm (oz-in)	0.42 (0.06)	0.59 (0.084)	0.64 (0.091)
Average No-load current	mA	6	4	3
Typical starting voltage	V	0.2	0.3	0.5
Max. Recommended Values				
Max. continuous current	A	0.25	0.168	0.133
Max. continuous torque	mNm (oz-in)	0.64 (0.09)	0.64 (0.091)	0.66 (0.093)
Max. angular acceleration	10 ³ rad/s ²	889	859	884
Intrinsic Parameters				
Back-EMF constant	V/1000 rpm	0.275	0.41	0.53
Torque constant	mNm/A (oz-in/A)	2.63 (0.372)	3.92 (0.55)	5.1 (0.72)
Terminal resistance	ohm	12.6	30	45.8
Motor regulation R/k ²	10 ³ /Nms	1800	2000	1900
Rotor inductance	mH	0.058	0.11	0.2
Rotor inertia	kgm ² 10 ⁻⁷	0.03	0.03	0.03
Mechanical time constant	ms	5.5	5.9	5.6

Executions		
Gearbox	Page	08GS61
R10	234	7
R08	Contact Portescap	

- Thermal resistance: rotor-body 20°C/W, body-ambient 100°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



Values at the output shaft

▨ Continuous working range

■ Temporary working range