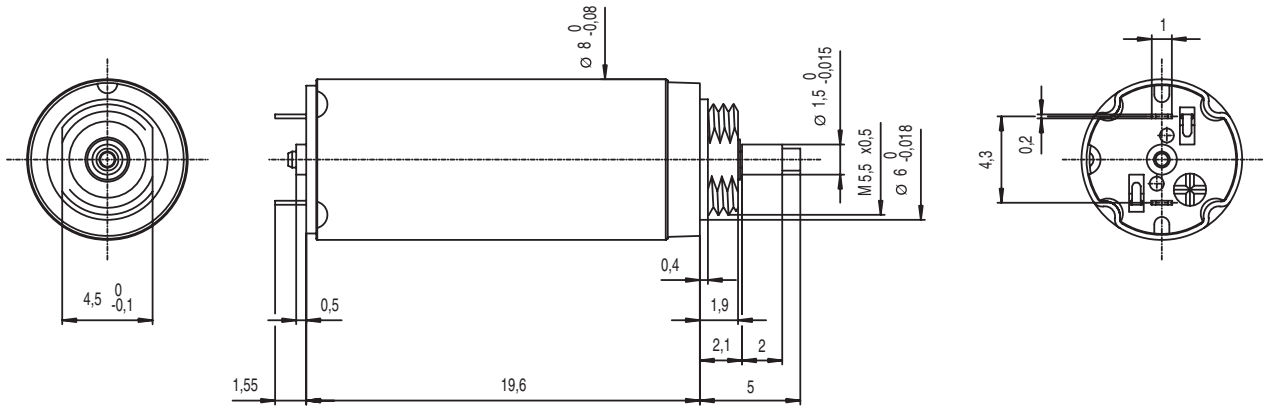
escap 08G61

0.7 Watt

Precious Metal Commutation System - 5 Segments



dimensions in mm
mass: 4.5 g

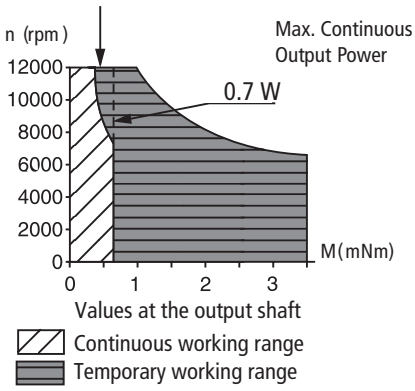
08G61 ⊙⊙ • 3

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	2.2
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/s²	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	64
Motor regulation R/k²	10^3/Nms	1400	1200
Rotor inductance	mH	0.03	0.16
Rotor inertia	kgm² 10^{-7}	0.035	0.035
Mechanical time constant	ms	5	4.4

Executions		
Gearbox	**Page**	**08G61**
R10	**108**	**5**

- 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



Brushed DC