

dimensions in mm
mass: 4.5 g

08G61 ⊙ ⊙ • 3

Winding Type



-107

-205C

Measured Values

Measured Values	V	3	9
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
Max. angular acceleration	10 ³ rad/s ²	924	999

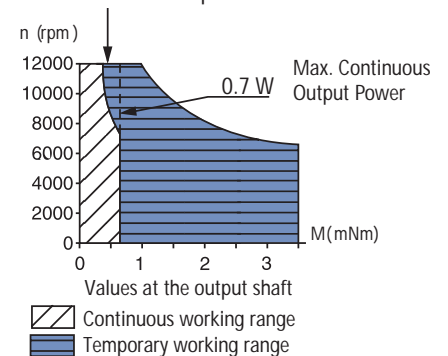
Intrinsic Parameters

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	64
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	08G61
R10	100	7

- 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



DANAHER MOTION is a registered trademark of Danaher Corporation. Danaher Motion makes every attempt to ensure accuracy and reliability of the specifications in this publication. Specifications are subject to change without notice. Danaher Motion provides this information "AS IS" and disclaims all warranties, express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose. It is the responsibility of the product user to determine the suitability of this product for a specific application. ©2004 Danaher Motion.