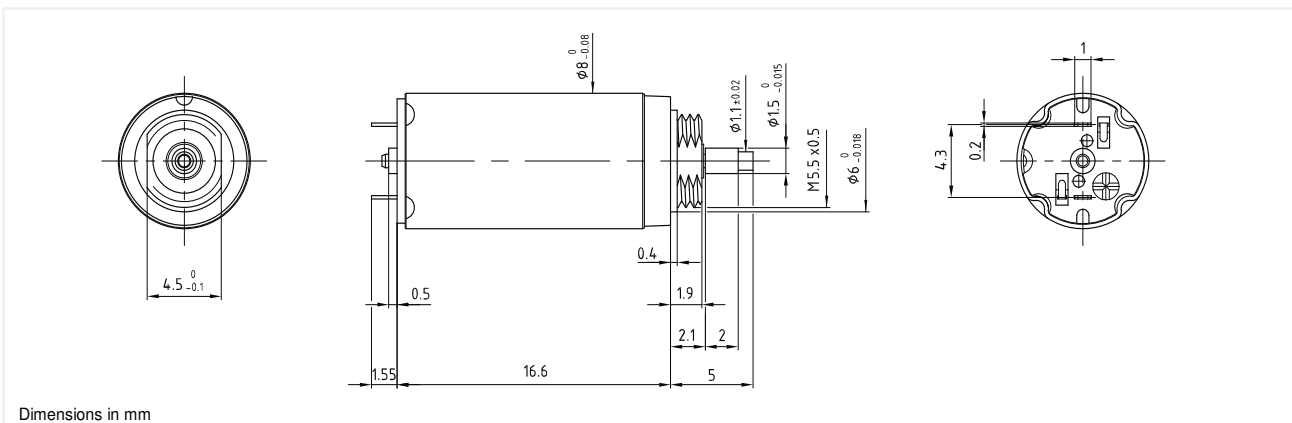


08GS61

Precious metal commutation

Ø8mm

0.65 mNm

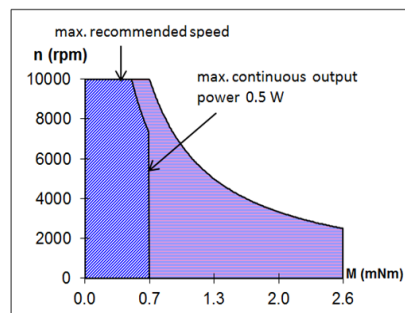


Dimensions in mm

08GS61 ****.3

Electrical Data	****	107	105	105C	
1 Nominal Voltage	V	2	4.5	6	Volt
2 No-Load Speed	n_0	7,000	10,670	11,000	rpm
3 No-Load Current	I_0	6.0	4.0	3.0	mA
4 Terminal Resistance	R	12.6	30.0	45.8	Ω
5 Output Power	$P_{2max.}$	0.5	0.5	0.5	W
6 Stall Torque	mNm	0.42 (0.06)	0.59 (0.09)	0.64 (0.1)	mNm (oz-in)
7 Efficiency	$\eta_{max.}$	65	70	72	%
8 Max Continuous Speed	$n_{e max.}$	10,000	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e max.}$	0.64 (0.1)	0.64 (0.1)	0.66 (0.1)	mNm (oz-in)
10 Max Continuous Current	$I_{e max.}$	0.25	0.17	0.13	A
11 Back-EMF Constant	k_E	0.28	0.41	0.53	mV/rpm
12 Torque Constant	k_M	2.63	3.92	5.10	mNm/A
13 Motor Regulation	R/k^2	1,820.0	1,950.0	1,760.0	$10^3/Nms$
14 Friction Torque	T_F	0.02 (0.01)	0.02 (0.01)	0.02 (0.01)	mNm (oz-in)
15 Rotor Inductance	L	0.06	0.11	0.20	mH
16 Mechanical Time Constant	t_m	5.5	5.9	5.3	ms
17 Rotor Inertia	J	0.03	0.03	0.03	$g \cdot cm^2$
General Data					
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}		20/100		$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}		5/100		S
20 Operating Temperature Range:	motor		-30 $^{\circ}C$ to 85 $^{\circ}C$ (-22 $^{\circ}F$ to 185 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
	rotor		100 $^{\circ}C$ (212 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
21 Shaft Load Max.:			With sleeve bearings		
(2 mm from bearing)	-radial		0.5 (1.8)		N (oz)
	-axial		30 (107.9)		N (oz)
22 Shaft Play:	-radial		<0.015 (0.0006)		mm (inch)
	-axial		0.100 (0.0039)		mm (inch)
23 Weight	g		3.8 (0.14)		g (oz)

Execution Table	
Gearbox	Single Shaft
R10	7
R08	Upon Request



— Continuous working range
— Temporary working range