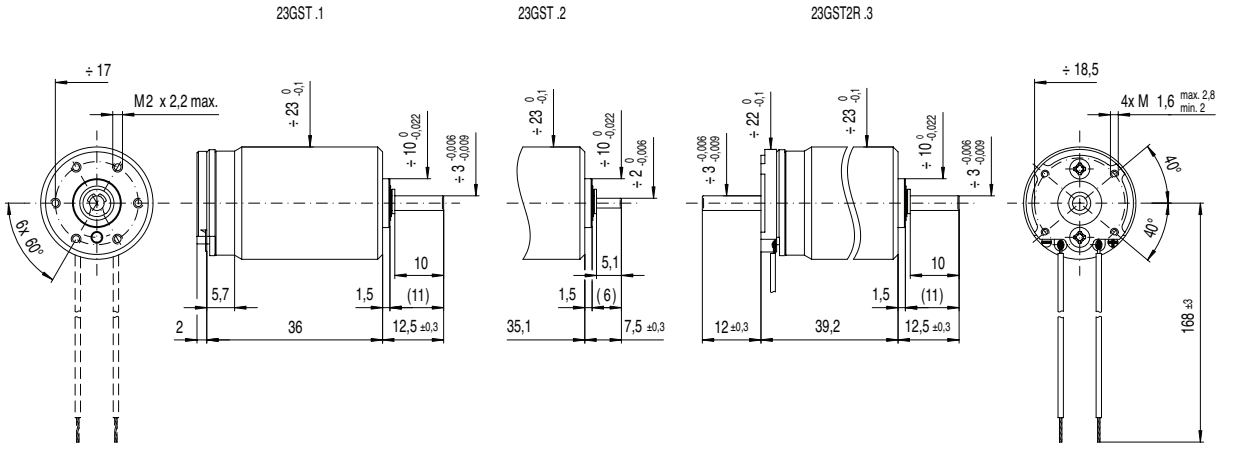
23GST82

18 Watt

Graphite/Copper Commutation System - 9 Segments



dimensions in mm
mass: 80 g

23GST2R82 ⊙⊙ • 1 **23GST2R82 ⊙⊙ • 2** **23GST2R82 ⊙⊙ • 3**

Winding Type	⊙⊙	**-216P**	**-216E**
Measured Values			
Measuring voltage	V	12	24
No-load speed	rpm	8700	9100
Stall torque	mNm (oz-in)	80 (11.3)	87 (12.3)
Average No-load current	mA	90	60
Typical starting voltage	V	-	-
Max. Recommended Values			
Max. continuous current	A	1.7	0.9
Max. continuous torque	mNm (oz-in)	21 (3.0)	22 (3.1)
Max. angular acceleration	10^3 rad/s^2	226	231
Intrinsic Parameters			
Back-EMF constant	V/1000 rpm	1.36	2.61
Torque constant	mNm/A (oz-in/A)	13 (1.84)	25 (3.53)
Terminal resistance	ohm	1.95	6.85
Motor regulation R/k²	10^3/Nms	12 (0.1)	11 (0.4)
Rotor inductance	mH		
Rotor inertia	kgm² 10^{-7}	4.7	4.7
Mechanical time constant	ms	5.4	5.2

Executions			
		Single Shaft	**For E9**
Gearbox	**Page**	**23GST82**	**23GST82**
R22	**239**	**2**	**--**
M22	**240**	**2**	**--**
K27	**242**	**2**	**--**
RG1/8	**245**	**1**	**3**
RG1/9	**246**	**1**	**3**
K38	**244**	**1**	**3**

- Thermal resistance: rotor-body 7°C/W, body-ambient 16°C/W
- Thermal time constant - rotor / stator: 12 s / 460 s
- Max. rated coil temperature: 155°C
- Recom. ambient temperature range: -30°C to +125°C (-22°F to +257°F)
- Max. axial static force for press-fit: 250 N
- End play: ≤ 150 µm
  Radial play: ≤ 30 µm
  Shaft runout: ≤ 10 µm
- Max. side load at 5 mm from mounting face:
  - sleeve bearings 6 N
- Motor fitted with ball bearings

Max. Recommended Speed