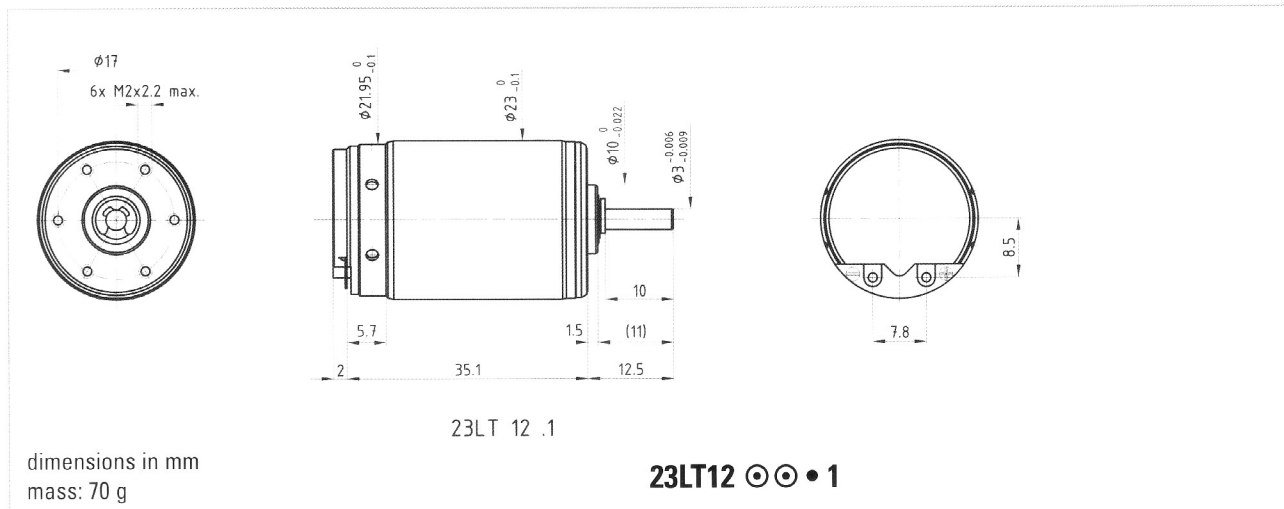


8.4 Watt

Graphite/Copper Commutation System - 9 Segments



Winding Type		216E	213E
Measured Values			
Measuring voltage	V	12	15
No-load speed	rpm	8800	9000
Stall torque	mNm (oz-in)	22 (3.1)	18.3 (2.6)
Average No-load current	mA	90	80
Typical starting voltage	V	--	--
Max. Recommended Values			
Max. continuous current	A	0.92	0.69
Max. continuous torque	mNm (oz-in)	10.3 (1.46)	9 (1.27)
Max. angular acceleration	10 ³ rad/s ²	109	55
Intrinsic Parameters			
Back-EMF constant	V/1000 rpm	1.3	1.55
Torque constant	mNm/A (oz-in/A)	12.4	14.8
Terminal resistance	ohm	6.9	12.2
Motor regulation R/k ²	10 ³ /Nms	45	55
Rotor inductance	mH	0.4	0.55
Rotor inertia	kgm ² 10 ⁻⁷	4.7	3.8
Mechanical time constant	ms	21	21

Executions		
		Single Shaft
Gearbox	Page	23LT12--
R22	239	
K24	241	5
K27	242	5
K38	244	18
RG1/8	245	20
RG1/9	246	22

- Thermal resistance: rotor-body 7 °C/W
body-ambient 16 °C/W
- Thermal time constant - rotor / stator: 12s/460s
- 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

