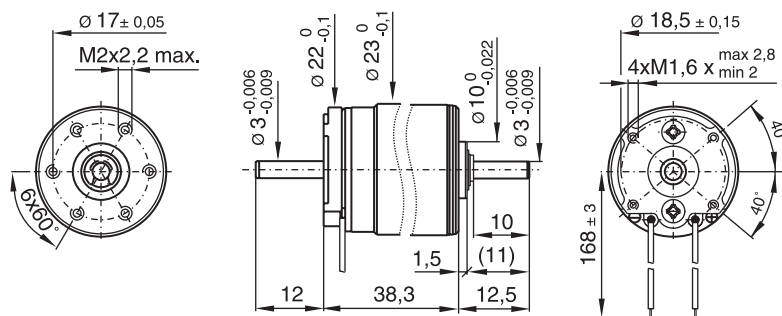


escap 23LT12

Graphite/copper commutation system - 9 segments

D.C. Motor
8.5 Watt



scale: 3:4
dimensions in mm
mass: 80 g

23LT2R12  • 120

Winding types



-216E

Measured values

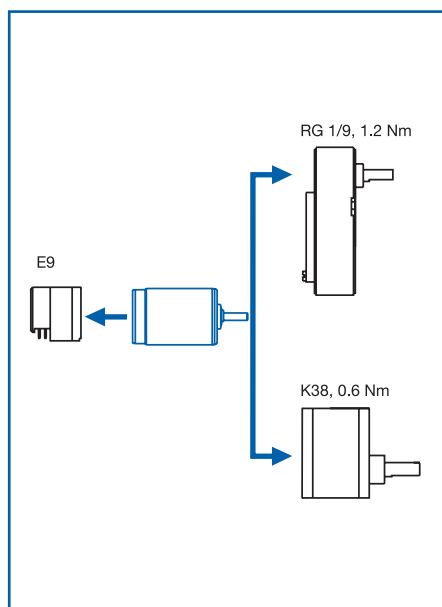
1	Measuring voltage	V	12
2	No-load speed	rpm	8800
3	Stall torque	mNm (oz-in)	21.7 (3.08)
4	Average no-load current	mA	90
5	Typical starting voltage	V	-

Max. recommended values

6	Max. continuous current	A	0.92
7	Max. continuous torque	mNm (oz-in)	10.3 (1.46)
8	Max. angular acceleration	10 ³ rad/s ²	88

Intrinsic parameters

9	Back-EMF constant	V/1000 rpm	1.30
10	Torque constant	mNm/A (oz-in/A)	12.4 (1.76)
11	Terminal resistance	ohm	6.9
12	Motor regulation R/k ²	10 ³ /Nms	45
13	Rotor inductance	mH	0.4
14	Rotor inertia	kgm ² ·10 ⁻⁷	4.7
15	Mechanical time constant	ms	21



- 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:
- ball bearings: 8 N
- Motor fitted with ball bearings

