

dimensions in mm  
mass: 310 g

30GT2R82 ☉☉ • 4

30GT2R82 ☉☉ • 5

**Winding Type**



-234P

-234E

**Measured Values**

Measuring voltage	V	18	36
No-load speed	rpm	8500	8900
Stall torque	mNm (oz-in)	758 (107)	871 (123)
Average No-load current	mA	180	90
Typical starting voltage	V	--	--

**Max. Recommended Values**

Max. continuous current	A	4.5	2.5
Max. continuous torque	mNm (oz-in)	87 (12.3)	93 (13.2)
Max. angular acceleration	10 <sup>3</sup> rad/s <sup>2</sup>	133	139

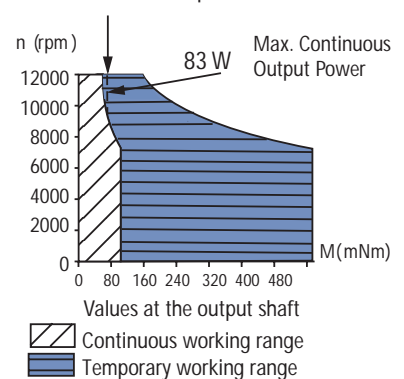
**Intrinsic Parameters**

Back-EMF constant	V/1000 rpm	2	4.05
Torque constant	mNm/A (oz-in/A)	20.2 (2.97)	38.7 (5.5)
Terminal resistance	ohm	0.48	1.6
Motor regulation R/k <sup>2</sup>	10 <sup>3</sup> /Nms	1.2	1.1
Rotor inductance	mH	0.06	0.24
Rotor inertia	kgm <sup>2</sup> 10 <sup>-7</sup>	33	33
Mechanical time constant	ms	3.9	3.5

Executions			
		Single Shaft	For E9
<b>Gearbox</b>	<b>Page</b>	<b>30GT2R82</b>	
R32	109	4	5
R40	114	4	5

- Thermal Resistance: rotor-body 4.5 °C/W, body-ambient 9.0 °C/W
- Thermal time constant - rotor / stator: 40s / 920 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 : 100 N
- End play: negligible
- Radial play: negligible
- Shaft runout: ≤10 µm
- Max. side load at 10 mm from mounting face - ball bearings 35 N
- Motor fitted with ball bearings
- 83 Commutation is recommended for servo applications
- For filter add 'F' to designation before coil.
- On request available with HP encoder and brake

**Max. Recommended Speed**



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