

1011170094. S30Rev.00

Specification	unit	value	tolerance	
<b>Measured values</b>				
1	Measuring voltage	V	7.5	-
2	No-load speed	rpm	8300	±10%
3	No-load current	mA	13.7	max
4	Starting voltage	V	0.16	max
5	Terminal resistance	Ohm	5.80	± 8%
<b>Recommended values</b>				
10	Continuous current (at 22°C)	A	0.63	max
11	Continuous torque	mNm	10.8	max
12	Angular acceleration	10 <sup>3</sup> rad/s <sup>2</sup>	267	max
13	Ambient working temperature range	°C	-30 to +85	typical
14	Rated coil temperature	°C	100	max
<b>Intrinsic parameters</b>				
20	Back-EMF constant	V/1000 rpm	0.9	±8%
21	Torque constant	mNm/A	8.6	±8%
22	Motor regulation R/k2	10 <sup>3</sup> /Nms	81	typical
23	Rotor inductance (@1kHz)	mH	0.14	typical
24	Mechanical time constant	ms	6.5	-
25	Thermal resistance rotor-body	°C/W	10	typical
26	Thermal resistance body-ambient	°C/W	30	typical
27	Thermal time constant – rotor	s	7	typical
28	Thermal time constant –stator	s	400	typical
29	Rotor Inertia	Kgm <sup>2</sup> 10 <sup>-7</sup>	0.8	typical
30	Stall torque	mNm	10.8	±8%
<b>Other specifications</b>				
40	Shaft runout		≤ 10 μm	
41	Axial Play		≤ 150 μm	
42	Max side load at 5 mm from mounting face		1.5N	
43	Max static force for press-fit		100 N	
44	Viscous damping constant		0.04x 10 <sup>-6</sup> Nms	
45	Weight		27 g	
46	Outline Dimensions		Refer Drawing 1011170094.S11	

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**Approvals**

Name Dheeraj Saxena  
 Function Associate Director - R&D  
 Company Portescap  
 Date  
 Signature

Name Srinivas Rao  
 Function Head - QA  
 Company Portescap  
 Date  
 Signature

Name Dave Beckstoffer  
 Function Manager – Product Sales  
 Company Portescap  
 Date  
 Signature

Name  
 Function  
 Company TATSoul  
 Date  
 Signature

Name  
 Function  
 Company  
 Date  
 Signature

Rev No	Modification	Communication	Prepared by	Date
00	Initial release	Codif#14-0043	<b>Sandeep Gandre</b>	6-May-14

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