



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1011170094. S30Rev.00

Specification	unit	value	tolerance	
Measured values				
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%
Recommended values				
10	Continuous current (at 22°C)	A	0.63	max
11	Continuous torque	mNm	10.8	max
12	Angular acceleration	10 ³ rad/s ²	267	max
13	Ambient working temperature range	°C	-30 to +85	typical
14	Rated coil temperature	°C	100	max
Intrinsic parameters				
20	Back-EMF constant	V/1000 rpm	0.9	±8%
21	Torque constant	mNm/A	8.6	±8%
22	Motor regulation R/k2	10 ³ /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 ² 10 ⁻⁷	0.8	typical
30	Stall torque	mNm	10.8	±8%
Other specifications				
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 ⁻⁶ Nms	
45	Weight		27 g	
46	Outline Dimensions		Refer Drawing 1011170094.S11	

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Approvals

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 Function Associate Director - R&D
 Company Portescap
 Date
 Signature

Name Srinivas Rao
 Function Head - QA
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Rev No	Modification	Communication	Prepared by	Date
00	Initial release	Codif#14-0043	Sandeep Gandre	6-May-14