Portescap

	Specification	unit	value	tolerance
Measured values				
1	Measuring voltage	V	18	-
2	No-load speed	rpm	8300	±10%
3	No-load current	mA	75	max
4	Starting voltage	V	--	max
5	Terminal resistance	Ohm	5.4	±10%
Recommended values				
10	Continuous current (at 22°C)	A	0.92	max
11	Continuous torque	mNm	16.1	max
12	Angular acceleration	10^3 rad/s²	181	max
13	Ambient working temperature range	°C	-30°C to 65°C	typical
14	Rated coil temperature	°C	155	max
Intrinsic parameters				
20	Back-EMF constant	V/1000 rpm	2.03	±8%
21	Torque constant	mNm/A	19.4	±8%
22	Motor regulation R/k2	10^3/Nms	13.71	typical
23	Rotor inductance (@1kHz)	mH	0.6	typical
24	Mechanical time constant	ms	4.5	-
25	Thermal resistance rotor-body	°C/W	6	typical
26	Thermal resistance body-ambient	°C/W	22	typical
27	Thermal time constant – rotor	s	9	typical
28	Thermal time constant –stator	s	550	typical
29	Rotor Inertia	$Kgm^2\ 10^{-7}$	4.8	typical
30	Stall torque	mNm	68	±8%
Customer specifications				
40				
42	Outline dimensions	See drawing, ref.: 1011226001.S11		
43				
Other specifications				
50	End play: <= 150µm			
51	Motor fitted with sleeve bearings			
52	Shaft runout: <=10 µm			
53	Max side load at 5 mm from mounting face: - sleeve bearings 3N			
54	Max axial static force for press-fit: 150N			
55	Viscous damping constant: 0.1 x 10^{-6}Nms			
56	Motor rotation when red wire "+": CW			
57	Graphite/Copper Commutation System – 9 segments			
58				