

1511ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics

			-2-11.5	
1	Voltage	V	11.5	
2	Terminal resistance	Ω	27.0	
3	Terminal inductance	mH	0.62	
4	No-load speed	rpm	14500	
5	No-load current	A	0.03	
6	Nominal torque	mNm	1.5	
7	Nominal speed	rpm	7000	
8	Nominal current	A	0.23	
9	Max. output power	W	1.1	
10	Max. efficiency	%	58	
11	Back-EMF constant	mV/rpm	0.75	
12	Torque constant	mNm/A	7.2	
13	Speed/torque gradient	rpm/mNm	5050	
14	Rotor inertia	gcm ²	0.6	
15	Weight	g	6	
16	Thermal resistance housing-ambient	K/W	9	
17	Thermal resistance winding-housing	K/W	19	
18	Thermal time constant motor	s	80	
19	Thermal time constant winding	s	32	
20	Operating temperature range	°C	-40~+100	
21	Max. winding temperature	°C	155	
22	Axial play	mm	0.012	
23	Radial play	mm	0.008	
24	Axial load dynamic	N	1	
25	Axial load static	N	25	
26	Radial load at 3 mm from mounting face	N	6.3	
27	No. of pole pairs		4	
28	Bearings		2 ball bearings	
29	Commutation		Sensorless	
30	Protection class		IP 30	

Options

- Lead wires length
- Shaft length
- Special coils
- Gearheads
- Bearing type
- Hall sensor
- Encoder
- Driver

Outline Drawing

