

2015ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics

			-1-12.0	
1	Voltage	V	12	
2	Terminal resistance	Ω	3.8	
3	Terminal inductance	mH	0.61	
4	No-load speed	rpm	11300	
5	No-load current	A	0.08	
6	Nominal torque	mNm	17.1	
7	Nominal speed	rpm	4900	
8	Nominal current	A	1.8	
9	Max. output power	W	9	
10	Max. efficiency	%	71	
11	Back-EMF constant	mV/rpm	1	
12	Torque constant	mNm/A	9.9	
13	Speed/torque gradient	rpm/mNm	370	
14	Rotor inertia	gcm ²	6.7	
15	Weight	g	21	
16	Thermal resistance housing-ambient	K/W	3.2	
17	Thermal resistance winding-housing	K/W	7.6	
18	Thermal time constant motor	s	354	
19	Thermal time constant winding	s	23	
20	Operating temperature range	°C	-40~+100	
21	Max. winding temperature	°C	130	
22	Axial play	mm	0.012	
23	Radial play	mm	0.08	
24	Axial load dynamic	N	1.5	
25	Axial load static	N	37	
26	Radial load at 3 mm from mounting face	N	12	
27	No. of pole pairs		4	
28	Bearings		2 ball bearings	
29	Commutation		Sensorless	
30	Protection class		IP 20	

Options

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

Outline Drawing

