

2010ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics			
1	Voltage	V	-3-10.0 10
2	Terminal resistance	Ω	2.2
3	Terminal inductance	mH	0.29
4	No-load speed	rpm	24000
5	No-load current	A	0.11
6	Nominal torque	mNm	9.8
7	Nominal speed	rpm	10300
8	Nominal current	A	2.6
9	Max. output power	W	10.6
10	Max. efficiency	%	71
11	Back-EMF constant	mV/rpm	0.4
12	Torque constant	mNm/A	3.9
13	Speed/torque gradient	rpm/mNm	1400
14	Rotor inertia	gcm ²	2.8
15	Weight	g	9.6
16	Thermal resistance housing-ambient	K/W	3.2
17	Thermal resistance winding-housing	K/W	6.3
18	Thermal time constant motor	s	354
19	Thermal time constant winding	s	15
20	Operating temperature range	°C	-40~+100
21	Max. winding temperature	°C	130
22	Axial play	mm	0.012
23	Radial play	mm	0.008
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

