

3212ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics

			-2-12.0	
1	Voltage	V	12	
2	Terminal resistance	Ω	0.4	
3	Terminal inductance	mH	1.35	
4	No-load speed	rpm	22000	
5	No-load current	A	0.5	
6	Nominal torque	mNm	7.5	
7	Nominal speed	rpm	20130	
8	Nominal current	A	1.93	
9	Max. output power	W	15.88	
10	Max. efficiency	%	71	
11	Back-EMF constant	mV/rpm	0.53	
12	Torque constant	mNm/A	5	
13	Speed/torque gradient	rpm/mNm	248	
14	Rotor inertia	gcm ²	7	
15	Weight	g	30	
16	Thermal resistance housing-ambient	K/W	12	
17	Thermal resistance winding-housing	K/W	7	
18	Thermal time constant motor	s	118	
19	Thermal time constant winding	s	10	
20	Operating temperature range	$^{\circ}\text{C}$	-40~+100	
21	Max. winding temperature	$^{\circ}\text{C}$	130	
22	Axial play	mm	0.09	
23	Radial play	mm	0.008	
24	Axial load dynamic	N	3	
25	Axial load static	N	27	
26	Radial load at 3 mm from mounting face	N	59	
27	No. of pole pairs		7	
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

