

1816ZWW

Outer Rotor Without Sensor

Applications: UAV, Aeromodelling, etc.

Characteristics

			-1-7.4	
1	Voltage	V	7.4	
2	Terminal resistance	Ω	0.62	
3	No-load speed	rpm	12000	
4	No-load current	A	0.16	
5	Nominal torque	mNm	22.6	
6	Nominal speed	rpm	8000	
7	Nominal current	A	4	
8	Max. output power	W	22	
9	Max. efficiency	%	78	
10	Back-EMF constant	mV/rpm	0.6	
11	Torque constant	mNm/A	5.8	
12	KV Value	rpm/V	1620	
13	Speed/torque gradient	rpm/mNm	175	
14	Rotor inertia	gcm ²	367	
15	Weight	g	12.7	
16	Thermal resistance housing-ambient	K/W	6	
17	Thermal resistance winding-housing	K/W	9	
18	Thermal time constant motor	s	250	
19	Thermal time constant winding	s	2	
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	1.5	
25	Axial load static	N	37	
26	Radial load at 3 mm from mounting face	N	12	
27	No. of pole pairs		6	
28	Bearings		2 ball bearings	
29	Commutation		Sensorless	
30	Protection class		IP 20	

Options

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

Outline Drawing

