

4316ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics			
			-8-12.0
1	Voltage	V	12
2	Terminal resistance	Ω	1.2
3	Terminal inductance	mH	2.24
4	No-load speed	rpm	4350
5	No-load current	A	0.18
6	Nominal torque	mNm	89
7	Nominal speed	rpm	2800
8	Nominal current	A	3.6
9	Max. output power	W	29
10	Max. efficiency	%	75
11	Back-EMF constant	mV/rpm	2.7
12	Torque constant	mNm/A	26
13	Speed/torque gradient	rpm/mNm	17
14	Rotor inertia	gcm ²	58
15	Weight	g	71.5
16	Thermal resistance housing-ambient	K/W	2.8
17	Thermal resistance winding-housing	K/W	5.8
18	Thermal time constant motor	s	400
19	Thermal time constant winding	s	13
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	8
25	Axial load static	N	85
26	Radial load at 3 mm from mounting face	N	26
27	No. of pole pairs		8
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

