

3517ZWW

Outer Rotor Without Sensor

Applications: UAV gimbals and handheld gimbals

Characteristics

			-1-24.0
1	Voltage	V	24
2	Terminal resistance	Ω	11
3	Terminal inductance	mH	0.3
4	No-load speed	rpm	4450
5	No-load current	A	0.06
6	Nominal torque	mNm	35
7	Nominal speed	rpm	3000
8	Nominal current	A	0.75
9	Max. output power	W	12.4
10	Max. efficiency	%	70
11	Back-EMF constant	mV/rpm	5.2
12	Torque constant	mNm/A	50
13	Speed/torque gradient	rpm/mNm	42
14	Rotor inertia	gcm ²	43
15	Weight	g	42
16	Thermal resistance housing-ambient	K/W	6.8
17	Thermal resistance winding-housing	K/W	14
18	Thermal time constant motor	s	120
19	Thermal time constant winding	s	9
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		7
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

