

## 2830ZWW

Outer Rotor Without Sensor

Applications: UAV, Aeromodelling, etc.

### Characteristics

			-1-14.8
1	Voltage	V	14.8
2	Terminal resistance	$\Omega$	0.1
3	No-load speed	rpm	13300
4	No-load current	A	0.75
5	Nominal torque	mNm	170
6	Nominal speed	rpm	11800
7	Nominal current	A	16.9
8	Max. output power	W	543
9	Max. efficiency	%	86
10	Back-EMF constant	mV/rpm	1.1
11	Torque constant	mNm/A	10.6
12	KV Value	rpm/V	900
13	Speed/torque gradient	rpm/mNm	8.5
14	Rotor inertia	gcm <sup>2</sup>	39
15	Weight	g	68
16	Thermal resistance housing-ambient	K/W	2.2
17	Thermal resistance winding-housing	K/W	2.5
18	Thermal time constant motor	s	359
19	Thermal time constant winding	s	47
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		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
- Encoder
- Driver

### Outline Drawing

