

# 2824ZWW

## Outer Rotor Without Sensor

Applications: UAV, Aeromodelling, etc.

### Characteristics

			-1Z-11.1
1	Voltage	V	11.1
2	Terminal resistance	$\Omega$	0.18
3	No-load speed	rpm	10200
4	No-load current	A	0.4
5	Nominal torque	mNm	104
6	Nominal speed	rpm	8500
7	Nominal current	A	10.5
8	Max. output power	W	169
9	Max. efficiency	%	85
10	Back-EMF constant	mV/rpm	1.1
11	Torque constant	mNm/A	10.3
12	KV Value	rpm/V	920
13	Speed/torque gradient	rpm/mNm	16.1
14	Rotor inertia	gcm <sup>2</sup>	27
15	Weight	g	47
16	Thermal resistance housing-ambient	K/W	3.7
17	Thermal resistance winding-housing	K/W	4.2
18	Thermal time constant motor	s	290
19	Thermal time constant winding	s	41
20	Operating temperature range	°C	-40 ~ +100
21	Max. winding temperature	°C	155
22	Axial play	mm	0.014
23	Radial play	mm	0.008
24	Axial load dynamic	N	5
25	Axial load static	N	80
26	Radial load at 3 mm from mounting face	N	29
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

