

# 6133ZWW

## Outer Rotor Without Sensor

Applications: UAV, industrial automation, etc.

### Characteristics

			-1-22.2	
1	Voltage	V	22.2	
2	Terminal resistance	$\Omega$	0.07	
3	No-load speed	rpm	6400	
4	No-load current	A	0.93	
5	Nominal torque	mNm	1040	
6	Nominal speed	rpm	5800	
7	Nominal current	A	32.6	
8	Max. output power	W	1750	
9	Max. efficiency	%	89.4	
10	Back-EMF constant	mV/rpm	3.5	
11	Torque constant	mNm/A	33	
12	KV Value	rpm/V	290	
13	Speed/torque gradient	rpm/mNm	0.6	
14	Rotor inertia	gcm <sup>2</sup>	620	
15	Weight	g	230	
16	Thermal resistance housing-ambient	K/W	0.9	
17	Thermal resistance winding-housing	K/W	1	
18	Thermal time constant motor	s	15	
19	Thermal time constant winding	s	45	
20	Operating temperature range	$^{\circ}\text{C}$	-40~+100	
21	Max. winding temperature	$^{\circ}\text{C}$	155	
22	Axial play	mm	0.012	
23	Radial play	mm	0.008	
24	Axial load dynamic	N	12	
25	Axial load static	N	235	
26	Radial load at 3 mm from mounting face	N	146	
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
- Bearing type
- Driver

### Outline Drawing

