

# 3518ZWW

## Outer Rotor Without Sensor

Applications: UAV, Aeromodelling, etc.

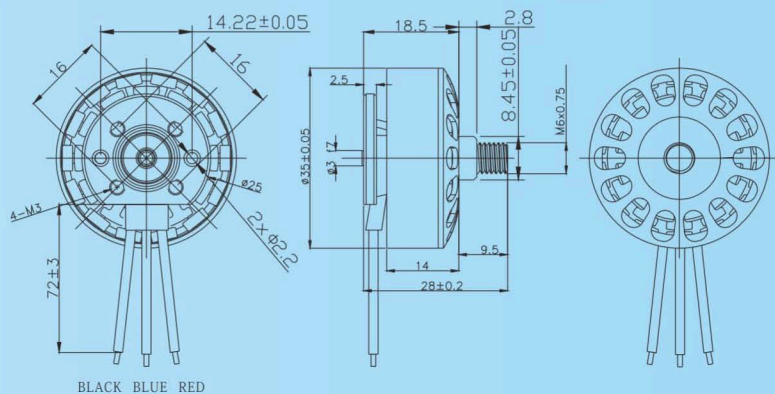
### Characteristics

			-1-12.0
1	Voltage	V	12
2	Terminal resistance	$\Omega$	0.34
3	No-load speed	rpm	10000
4	No-load current	A	0.5
5	Nominal torque	mNm	21.7
6	Nominal speed	rpm	9450
7	Nominal current	A	2.4
8	Max. output power	W	103
9	Max. efficiency	%	78.4
10	Back-EMF constant	mV/rpm	1.2
11	Torque constant	mNm/A	11.3
12	KV Value	rpm/V	830
13	Speed/torque gradient	rpm/mNm	23
14	Rotor inertia	gcm <sup>2</sup>	8.7
15	Weight	g	50
16	Thermal resistance housing-ambient	K/W	6.8
17	Thermal resistance winding-housing	K/W	14
18	Thermal time constant motor	s	124
19	Thermal time constant winding	s	9
20	Operating temperature range	$^{\circ}\text{C}$	-40~+100
21	Max. winding temperature	$^{\circ}\text{C}$	155
22	Axial play	mm	0.07
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



UNIT:mm

BLACK BLUE RED