

BO2820N2B | 外转子无传感器 Outer Rotor, Sensorless

应用领域：无人机、航模等驱动领域。

Applications: UAV, aeromodelling, etc.

主要技术指标 | Characteristics

			01-140-12.0	02-140-24.0	03-140-36.0	
1	电压	Voltage	V	12.0	24.0	36.0
2	端电阻	Terminal resistance	Ω	0.14	0.58	1.22
3	空载转速	No-load speed	rpm	14000	14000	14000
4	空载电流	No-load current	A	0.48	0.24	0.16
5	堵转转矩	Stall torque	mNm	698	664	718
6	堵转电流	Stall current	A	86.3	41.2	29.6
7	额定转矩	Nominal torque	mNm	68.5	75.1	73.0
8	额定转速	Nominal speed	rpm	10350	10680	11310
9	额定电流	Nominal current	A	9.1	4.7	3.0
10	最大输出功率	Max. output power	W	256	244	263
11	最大效率	Max. efficiency	%	85.6	85.1	85.9
12	反电势常数	Back-EMF constant	mV/rpm	0.9	1.7	2.6
13	转矩常数	Torque constant	mNm/A	8.1	16.2	24.4
14	KV 值	KV Value	rpm/V	1168	585	389
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	20.1	21.2	19.5
16	转子惯量	Rotor inertia	gcm ²	19	19	19
17	重量	Weight	g	41	41	41
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		2.3	
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		2	
20	热时常数 (电机)	Thermal time constant motor	s		280	
21	热时常数 (线圈)	Thermal time constant winding	s		37	
22	工作温度范围	Operating temperature range	°C		-40~+120	
23	绕组耐温等级	Thermal class of winding	°C		180	
24	轴向间隙	Axial play	mm		0.012	
25	径向间隙	Radial play	mm		0.008	
26	动态轴向载荷	Axial load dynamic	N		5	
27	静态轴向载荷	Axial load static	N		80	
28	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		29	
29	极对数	No. of pole pairs			7	
30	轴承	Bearings			2 枚滚动轴承/2 ball bearings	
31	换向结构	Commutation			无传感器/Sensorless	
32	防护等级	Protection class			IP 20	

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils 齿轮箱 Gearheads 轴承类型 Bearing type

编码器 Encoder 驱动器 Driver

外观图 | Outline Drawing

