

BO2824N2B | 外转子无传感器 Outer Rotor, Sensorless

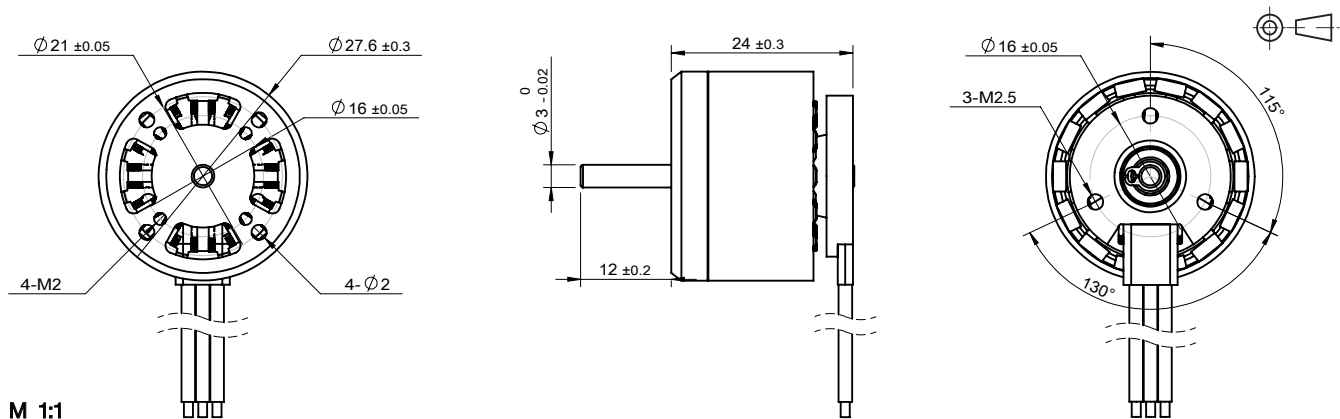
应用领域：无人机、航模等驱动领域。
Applications: UAV, aeromodelling, etc.

主要技术指标 | Characteristics

			01-98-12.0	02-98-24.0	03-98-36.0
1 电压	Voltage	V	12.0	24.0	36.0
2 端电阻	Terminal resistance	Ω	0.18	0.74	1.62
3 空载转速	No-load speed	rpm	9800	9800	9800
4 空载电流	No-load current	A	0.37	0.19	0.12
5 堵转转矩	Stall torque	mNm	752	749	769
6 堵转电流	Stall current	A	65.2	32.7	22.2
7 额定转矩	Nominal torque	mNm	79.9	75.5	73.2
8 额定转速	Nominal speed	rpm	7430	8040	8040
9 额定电流	Nominal current	A	6.9	3.3	2.2
10 最大输出功率	Max. output power	W	193	194	198
11 最大效率	Max. efficiency	%	85.5	85.3	86.1
12 反电势常数	Back-EMF constant	mV/rpm	1.2	2.4	3.6
13 转矩常数	Torque constant	mNm/A	11.6	23.1	34.8
14 KV 值	KV Value	rpm/V	819	412	273
15 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	13.1	13.2	12.8
16 转子惯量	Rotor inertia	gcm ²	27	27	27
17 重量	Weight	g	47	47	47
18 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		2	
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		290	
21 热时常数 (线圈)	Thermal time constant winding	s		41	
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		0.014	
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



规格如有变更，恕不另行通知
Specification subject to change without notice