

BO4831NH2B | 外转子带传感器 Outer Rotor, Sensored

应用领域：无人机、工业设备等精密驱动领域。
Applications: UAV, industrial automation, etc.

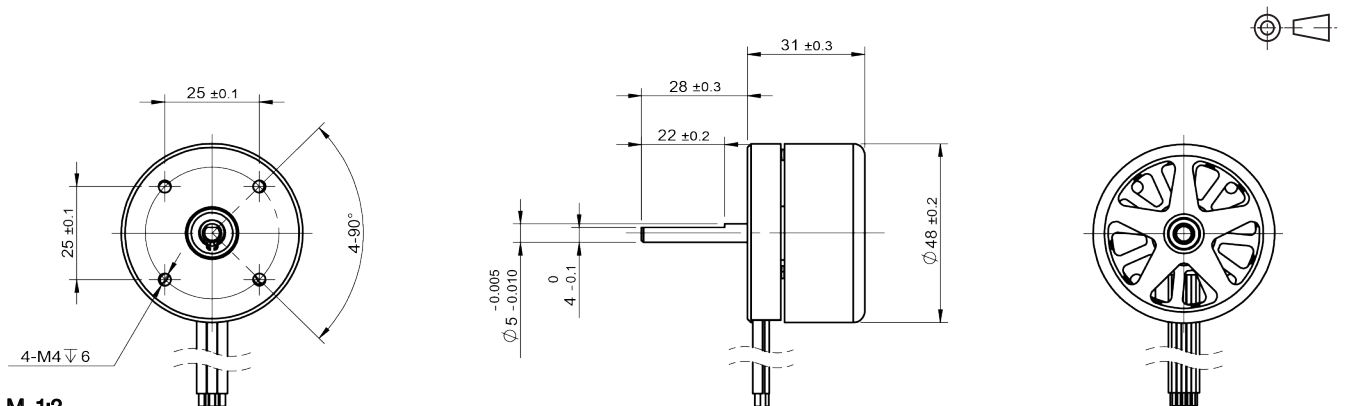
主要技术指标 | Characteristics

			01-101-18.0	02-101-24.0	03-101-36.0
1 电压	Voltage	V	18.0	24.0	36.0
2 端电阻	Terminal resistance	Ω	0.05	0.08	0.18
3 空载转速	No-load speed	rpm	10160	10160	10160
4 空载电流	No-load current	A	1.1	0.9	0.6
5 堵转转矩	Stall torque	mNm	6053	6726	6727
6 堵转电流	Stall current	A	360.0	300.0	200.0
7 额定转矩	Nominal torque	mNm	449	447	457
8 额定转速	Nominal speed	rpm	7600	7700	7700
9 额定电流	Nominal current	A	23.5	17.6	12
10 最大输出功率	Max. output power	W	1609	1788	1788
11 最大效率	Max. efficiency	%	89.2	89.3	89.3
12 反电势常数	Back-EMF constant	mV/rpm	1.8	2.4	3.5
13 转矩常数	Torque constant	mNm/A	16.9	22.5	33.7
14 KV 值	KV Value	rpm/V	564	423	282
15 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	1.68	1.51	1.51
16 转子惯量	Rotor inertia	gcm ²	306	306	306
17 重量	Weight	g	211	211	211
18 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		1.14	
19 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		0.38	
20 热时常数 (电机)	Thermal time constant motor	s		350	
21 热时常数 (线圈)	Thermal time constant winding	s		60	
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		10	
27 静态轴向载荷	Axial load static	N		110	
28 径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		42	
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			霍尔传感器/Hall Sensor	
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 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

micro.motorsmfg.com