

BO1812N2B | 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.

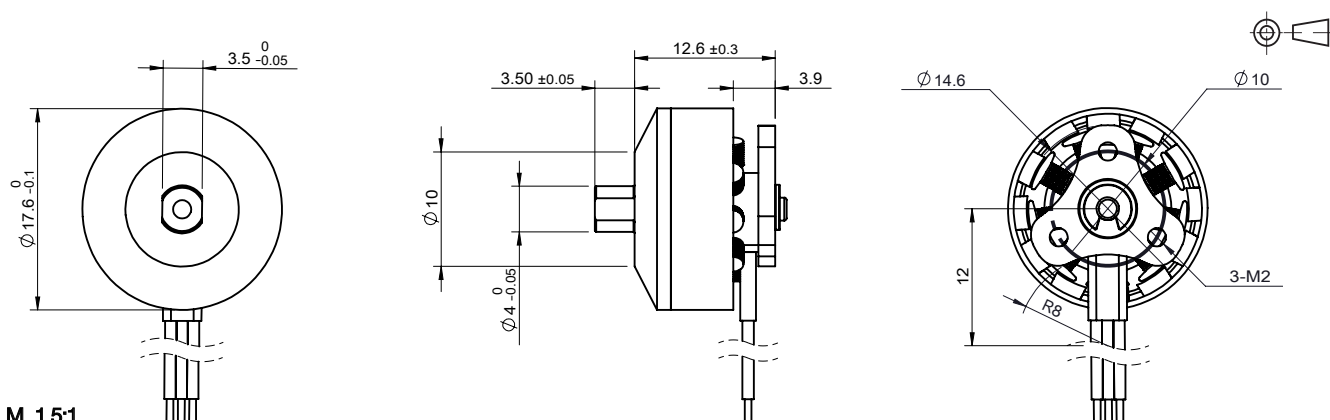
主要技术指标 | Characteristics

			01-158-6.0	02-158-9.0	03-158-12.0
1 电压	Voltage	V	6.0	9.0	12.0
2 端电阻	Terminal resistance	Ω	0.43	0.96	1.70
3 空载转速	No-load speed	rpm	15800	15800	15800
4 空载电流	No-load current	A	0.14	0.10	0.08
5 堵转转矩	Stall torque	mNm	49.6	49.9	50.1
6 堵转电流	Stall current	A	14.0	9.4	7.1
7 额定转矩	Nominal torque	mNm	9.4	10.3	9.9
8 额定转速	Nominal speed	rpm	9690	9580	10200
9 额定电流	Nominal current	A	2.1	2.1	1.5
10 最大输出功率	Max. output power	W	20.6	20.7	20.7
11 最大效率	Max. efficiency	%	81.2	80.0	80.2
12 反电势常数	Back-EMF constant	mV/rpm	0.38	0.56	0.75
13 转矩常数	Torque constant	mNm/A	3.6	5.4	7.2
14 KV 值	KV Value	rpm/V	2630	1750	1320
15 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	318.4	316.8	315.5
16 转子惯量	Rotor inertia	gcm^2	2.1	2.1	2.1
17 重量	Weight	g	11	11	11
18 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		10.6	
19 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		14.6	
20 热时常数 (电机)	Thermal time constant motor	s		142	
21 热时常数 (线圈)	Thermal time constant winding	s		99	
22 工作温度范围	Operating temperature range	$^{\circ}\text{C}$		-40~+120	
23 绕组耐温等级	Thermal class of winding	$^{\circ}\text{C}$		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		1.5	
27 静态轴向载荷	Axial load static	N		37	
28 径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		12	
29 极对数	No. of pole pairs			6	
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



M 1.5:1

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

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