

B1230N2B $\varnothing 12\text{mm} \times 30\text{mm}$, 内转子无槽无传感器 Inner Rotor, Slotless, Sensorless

应用领域：医疗器械、自动化设备、精密仪器等精密驱动领域。

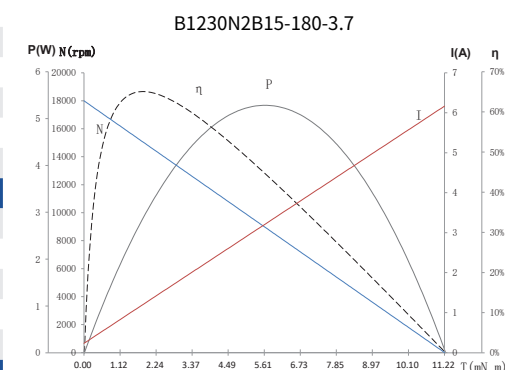
Applications: precision drives in medical equipment, automation equipment, precision instrument, etc.

				28-115-12.0	10-180-9.0	15-180-3.7	31-65-12.0
电机参数 / Motor Data							
1	电压	Voltage	V	12.0	9.0	3.7	12.0
2	端电阻	Terminal resistance	Ω	9	2.4	0.6	34
3	空载转速	No-load speed	rpm	11500	18000	18000	6600
4	空载电流	No-load current	A	0.05	0.15	0.23	0.04
5	堵转转矩	Stall torque	mNm	12.3	16.5	11.2	4.82
6	堵转电流	Stall current	A	1.4	3.8	6.2	0.35
7	额定转矩	Nominal torque	mNm	3.8	2.7	3	0.3
8	额定转速	Nominal speed	rpm	6800	14100	12200	5280
9	额定电流	Nominal current	A	0.45	0.74	1.7	0.6
10	最大输出功率	Max. output power	W	3.7	7.8	5.9	0.83
11	最大效率	Max. efficiency	%	65	64	64	44
12	反电势常数	Back-EMF constant	mV/rpm	1	0.5	0.2	0.448
13	转矩常数	Torque constant	mNm/A	9.6	4.6	1.9	1.6
14	KV 值	KV Value	rpm/V	960	2000	4860	550
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	930	1090	1430	1370
16	转子惯量	Rotor inertia	gcm^2	0.21	0.21	0.21	0.21
17	重量	Weight	g	15	15	15	15

热参数 / Thermal Data				特性曲线 / Characteristics Curve			
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	24			
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	4.5			
20	热时间常数 (电机)	Thermal time constant motor	s	240			
21	热时间常数 (线圈)	Thermal time constant winding	s	2			
22	工作温度范围	Operating temperature range	$^{\circ}\text{C}$	-40~+100			
23	绕组耐温等级	Thermal class of winding	$^{\circ}\text{C}$	155			

机械参数 / Mechanical Data			
24	轴向间隙	Axial play	mm
25	径向间隙	Radial play	mm
26	动态轴向载荷	Axial load dynamic	N
27	静态轴向载荷	Axial load static	N
28	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N

其它参数 / Other Specifications			
29	极对数	No. of pole pairs	1
30	滚珠轴承	Ball bearings	2
31	换向结构	Commutation structure	sensorless
32	防护等级	Protection class	IP30

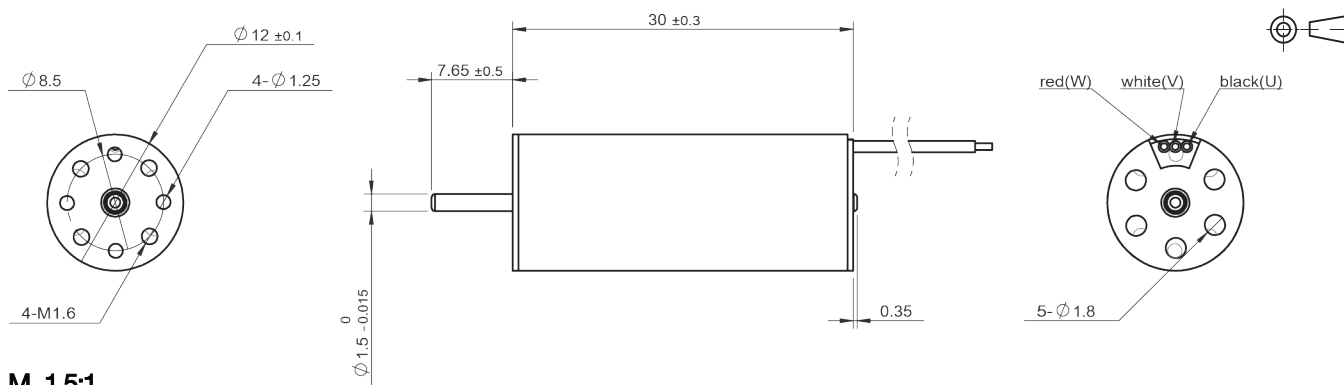


— 转速 (N) — 电流 (I) - - - 效率 (η)
— 功率 (P)

仅供参考，详细了解请以产品规格书为准。
For reference only, please refer to the product specification.

可选配置 / Options		端子定义 / Connection	
齿轮箱：行星齿轮		无传感器 / sensorless	
Gearbox: planetary gearbox		AWG 28	
性能 Special coils: 连续运行范围内可定制 customizable in continuous operation range		Pin1	W red
编码器 Encoder/ 驱动器 Driver: 可定制 customizable upon request		Pin2	V white
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges		Pin3	U black
轴 Shaft: 长度 length / 异形 shape			
轴承类型 Bearing type: 含油轴承 sleeve bearings / 滚珠轴承 ball bearings			
电气连接 Electrical connection: 端子或导线 connector or wire / 导线长度 lead wires length			

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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