

B1231NH2B

Ø12mm*30.8mm, 内转子无槽带传感器 Inner Rotor, Slotless, Sensored

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.

42-200-12.0

电机参数 / Motor Data

1	电压	Voltage	V	12.0		
2	端电阻	Terminal resistance	Ω	3.3		
3	空载转速	No-load speed	rpm	20000		
4	空载电流	No-load current	A	0.15		
5	堵转转矩	Stall torque	mNm	19.2		
6	堵转电流	Stall current	A	3.6		
7	额定转矩	Nominal torque	mNm	1.1		
8	额定转速	Nominal speed	rpm	18900		
9	额定电流	Nominal current	A	0.35		
10	最大输出功率	Max. output power	W	10		
11	最大效率	Max. efficiency	%	63		
12	反电势常数	Back-EMF constant	mV/rpm	0.6		
13	转矩常数	Torque constant	mNm/A	5.5		
14	KV 值	KV Value	rpm/V	1660		
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	1040		
16	转子惯量	Rotor inertia	gcm ²	0.21		
17	重量	Weight	g	16		

热参数 / Thermal Data

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	热时常数 (电机)	Thermal time constant motor	s	240
21	热时常数 (线圈)	Thermal time constant winding	s	2
22	工作温度范围	Operating temperature range	°C	-40~+100
23	绕组耐温等级	Thermal class of winding	°C	155

机械参数 / Mechanical Data

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
27	静态轴向载荷	Axial load static	N	25
28	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N	6.3

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	hall sensor
32	防护等级	Protection class	IP30

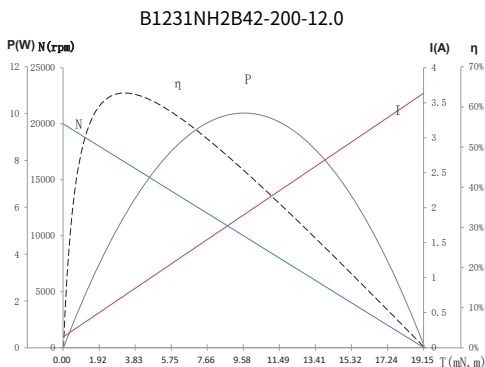
可选配置 / Options

齿轮箱：行星齿轮
Gearbox: planetary gearbox
性能 Special coils: 连续运行范围内可定制 customizable in continuous operation range
编码器 Encoder/ 驱动器 Driver: 可定制 customizable upon request
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges
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

端子定义 / Connection

霍尔传感器 /hall sensor
AWG 28
Pin1 H-
Pin2 H+
Pin3 Hw
Pin4 Hv
Pin5 Hu
Pin6 W
Pin7 V
Pin8 U

特性曲线 /Characteristics Curve



— 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.

外观图 /Outline Drawing

