

## B1635N2B | 内转子无槽无传感器 Inner Rotor, Slotless, Sensorless

应用领域：医疗器械、工业设备等精密驱动领域。

Applications: precision drives in medical equipment, industrial automation fields.

### 主要技术指标 | Characteristics

			01-450-12.0	02-200-24.0	03-120-3.7
1	电压	Voltage	V	12.0	3.7
2	端电阻	Terminal resistance	$\Omega$	0.35	0.7
3	空载转速	No-load speed	rpm	45000	12000
4	空载电流	No-load current	A	0.35	0.2
5	堵转转矩	Stall torque	mNm	85	14.4
6	堵转电流	Stall current	A	34	5.2
7	额定转矩	Nominal torque	mNm	1.5	1.5
8	额定转速	Nominal speed	rpm	43800	10000
9	额定电流	Nominal current	A	0.96	0.75
10	最大输出功率	Max. output power	W	100	4.5
11	最大效率	Max. efficiency	%	81	64.8
12	反电势常数	Back-EMF constant	mV/rpm	0.3	0.29
13	转矩常数	Torque constant	mNm/A	2.5	2.8
14	KV 值	KV Value	rpm/V	3750	3242
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	530	832
16	转子惯量	Rotor inertia	$\text{gcm}^2$	1.5	1.5
17	重量	Weight	g	40	40
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		17
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		4.8
20	热时常数 (电机)	Thermal time constant motor	s		250
21	热时常数 (线圈)	Thermal time constant winding	s		6
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	$^{\circ}\text{C}$		155
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			1
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 霍尔传感器 Hall sensor 编码器 Encoder 驱动器 Driver

### 外观图 | Outline Drawing

