

## BS2838NB2B | 内转子有槽无传感器 Inner Rotor, Slotted, 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

			01-66-12.0	02-66-24.0	03-45-16.0	
1	电压	Voltage	V	12.0	24.0	16.0
2	端电阻	Terminal resistance	$\Omega$	2.3	12.7	14
3	空载转速	No-load speed	rpm	6600	6600	4500
4	空载电流	No-load current	A	0.25	0.1	0.1
5	堵转转矩	Stall torque	mNm	83	58	32
6	堵转电流	Stall current	A	5	1.9	1.1
7	额定转矩	Nominal torque	mNm	10.0	10.0	10.0
8	额定转速	Nominal speed	rpm	5550	5400	3000
9	额定电流	Nominal current	A	0.9	0.4	0.5
10	最大输出功率	Max. output power	W	14	10.0	3.8
11	最大效率	Max. efficiency	%	61	59	50
12	反电势常数	Back-EMF constant	mV/rpm	1.7	3.4	3
13	转矩常数	Torque constant	mNm/A	16.5	32.8	30.9
14	KV 值	KV Value	rpm/V	550	275	281
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	80	112	139
16	转子惯量	Rotor inertia	gcm <sup>2</sup>	13	13	13
17	重量	Weight	g	80	80	80
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		17.3	
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		4	
20	热时常数 (电机)	Thermal time constant motor	s		600	
21	热时常数 (线圈)	Thermal time constant winding	s		3	
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	
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		5	
27	静态轴向载荷	Axial load static	N		80	
28	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		29	
29	极对数	No. of pole pairs			2	
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 30	

★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

