

## B4040NH2B | 内转子无槽带传感器 Inner Rotor, Slotless, Sensored

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

			02-420-18.0	01-420-24.0	03-300-24.0	
1	电压	Voltage	V	18.0	24.0	24.0
2	端电阻	Terminal resistance	Ω	1.5	2	2.8
3	空载转速	No-load speed	rpm	42000	42000	30000
4	空载电流	No-load current	A	0.168	0.2	0.2
5	堵转转矩	Stall torque	mNm	47.7	63.3	62.5
6	堵转电流	Stall current	A	12	12	8.6
7	额定转矩	Nominal torque	mNm	5	5	5
8	额定转速	Nominal speed	rpm	37000	38000	27000
9	额定电流	Nominal current	A	1.4	1.2	0.9
10	最大输出功率	Max. output power	W	52.6	69.7	49.1
11	最大效率	Max. efficiency	%	77.7	75.8	71.7
12	反电势常数	Back-EMF constant	mV/rpm	0.4	0.56	0.78
13	转矩常数	Torque constant	mNm/A	4.0	5.4	7.5
14	KV 值	KV Value	rpm/V	2333.3	1750	1250
15	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	879.7	663.3	480.3
16	转子惯量	Rotor inertia	gcm <sup>2</sup>	20	20	20
17	重量	Weight	g	200	200	200
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		9	
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		2.4	
20	热时常数 (电机)	Thermal time constant motor	s		1400	
21	热时常数 (线圈)	Thermal time constant winding	s		20	
22	工作温度范围	Operating temperature range	°C		-40~+120	
23	绕组耐温等级	Thermal class of winding	°C		155	
24	轴向间隙	Axial play	mm		2.3	
25	径向间隙	Radial play	mm		0.012	
26	动态轴向载荷	Axial load dynamic	N		8	
27	静态轴向载荷	Axial load static	N		110	
28	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		31	
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			霍尔传感器/Hall Sensor	
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

