

B4040NH2B $\varnothing 40\text{mm} \times 40.3\text{mm}$, 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.

				02-420-18.0	01-420-24.0	03-300-24.0
电机参数 / Motor Data						
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	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^2	20	20	20
17	重量	Weight	g	200	200	200

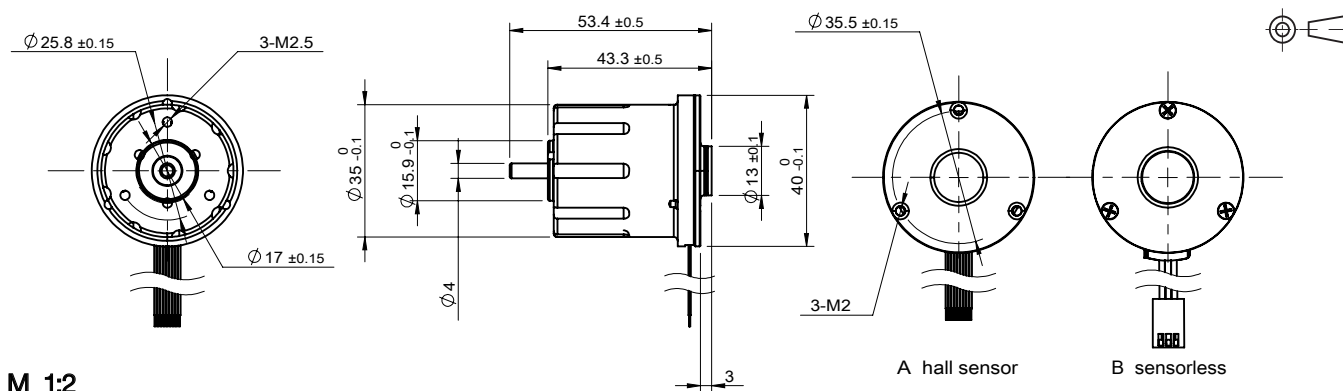
热参数 / Thermal Data				特性曲线 / Characteristics Curve		
18	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	9		
19	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	2.4		
20	热时间常数 (电机)	Thermal time constant motor	s	1400		
21	热时间常数 (线圈)	Thermal time constant winding	s	20		
22	工作温度范围	Operating temperature range	$^{\circ}\text{C}$	-40~+120		
23	绕组耐温等级	Thermal class of winding	$^{\circ}\text{C}$	155		

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	2
30	滚珠轴承	Ball bearings	2
31	换向结构	Commutation structure	hall sensor
32	防护等级	Protection class	IP20

可选配置 / Options		端子定义 / Connection	
性能 Special coils: 连续运行范围内可定制 customizable in continuous operation range		A 霍尔传感器 /hall sensor	
编码器 Encoder/ 驱动器 Driver: 可定制 customizable upon request		B 无传感器 /sensorless	
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges		AWG 30	
轴 Shaft: 长度 length / 异形 shape		Pin1 U red 3P lead-out	Pin1 U red 3P lead-out
轴承类型 Bearing type: 含油轴承 sleeve bearings / 滚珠轴承 ball bearings		Pin2 V yellow group	Pin2 V yellow group
电气连接 Electrical connection: 端子或导线 connector or wire / 导线长度 lead wires length		Pin3 W black	Pin3 W black
		Pin1 Hw red	
		Pin2 Hu grey	
		Pin3 GND grey	
		Pin4 Hv grey	
		Pin5 NTC grey	
		Pin6 H+ grey	

外观图 / Outline Drawing



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