

# 1625N5M2B $\varnothing$ 12mm\*21mm, 贵金属电刷 Precious Metal Brushes

应用领域：医疗、保健、汽车、机器人、工业自动化等精密驱动领域。

Applications: precision drives in medical equipment and devices, healthcare products, automotive, robotics, and industrial automation.

47-96-7.5 65-92-9.0 66-110-12.0

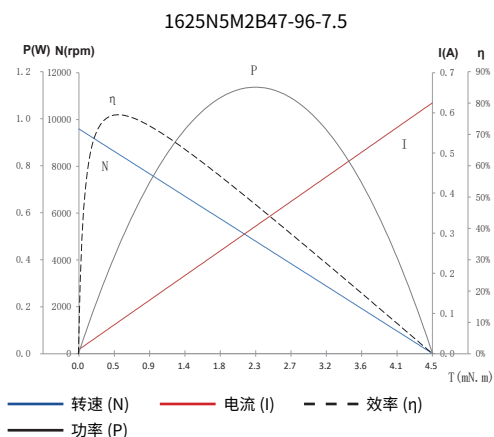
## 电机参数 / Motor Data

1	电压	Voltage	V	7.5	9.0	12.0
2	端电阻	Terminal resistance	$\Omega$	12.0	25.5	36
3	空载转速	No-load speed	rpm	9600	9200	11000
4	空载电流	No-load current	mA	10	9	8
5	堵转转矩	Stall torque	mNm	4.6	3.1	3.3
6	堵转电流	Stall current	mA	630	350	330
7	额定转矩	Nominal torque	mNm	1.0	0.5	0.5
8	额定转速	Nominal speed	rpm	7490	7720	9320
9	额定电流	Nominal current	mA	150	60	60
10	最大输出功率	Max. output power	W	1.15	0.75	0.94
11	最大效率	Max. efficiency	%	76	71	71
12	反电势常数	Back-EMF constant	mV/rpm	0.8	1.0	1.1
13	转矩常数	Torque constant	mNm/A	7.3	9.1	10.2
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	2100	3000	3400
15	转子惯量	Rotor inertia	gcm <sup>2</sup>	0.78	0.78	0.78
16	重量	Weight	g	19	19	19

## 热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	24.8
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	30.3
19	热时常数 (电机)	Thermal time constant motor	s	201
20	热时常数 (线圈)	Thermal time constant winding	s	175
21	工作温度范围	Operating temperature range	$^{\circ}$ C	-20~+85
22	绕组耐温等级	Thermal class of winding	$^{\circ}$ C	130

## 特性曲线 / Characteristics Curve



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.

## 机械参数 / Mechanical Data

23	轴向间隙	Axial play	mm	0.02-0.15
24	径向间隙	Radial play	mm	0.025
25	动态轴向载荷	Axial load dynamic	N	0.8
26	静态轴向载荷	Axial load static	N	30
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N	1

## 其它参数 / Other Specifications

28	极对数	No. of pole pairs	1
29	滚动轴承	Ball bearings	2
30	换向结构	Number of commutator segments	5
31	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

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

齿轮组主要技术指标详见第 131 页

the main technical parameters are detailed on page 131

## 外观图 / Outline Drawing

