

2543N9C2B $\varnothing 25\text{mm} \times 43.5\text{mm}$, 碳刷 Graphite 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.

21-73-14.8 10-90-24.0 11-98-30.0 05-65-48.0

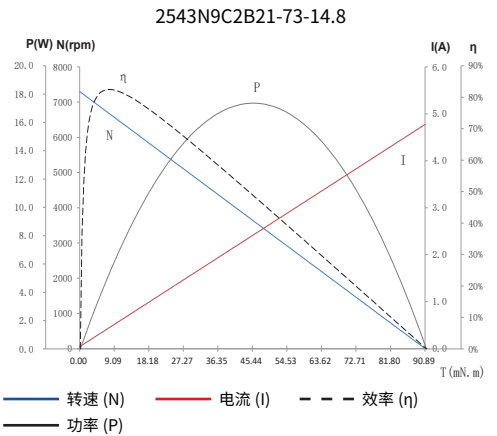
电机参数 / Motor Data

1	电压	Voltage	V	14.8	24.0	30.0	48.0
2	端电阻	Terminal resistance	Ω	3.1	3.9	4.4	23.5
3	空载转速	No-load speed	rpm	7300	9000	9800	6500
4	空载电流	No-load current	mA	40	35	30	30
5	堵转转矩	Stall torque	mNm	90.8	154.8	197.6	139.7
6	堵转电流	Stall current	mA	4770	6150	6820	2040
7	额定转矩	Nominal torque	mNm	20	30	40	40
8	额定转速	Nominal speed	rpm	5690	7260	7820	4640
9	额定电流	Nominal current	mA	1080	1220	1400	610
10	最大输出功率	Max. output power	W	17.4	36.5	50.8	23.8
11	最大效率	Max. efficiency	%	83	86	87	77
12	反电势常数	Back-EMF constant	mV/rpm	2	2.7	3	7.3
13	转矩常数	Torque constant	mNm/A	19.2	25.3	29.1	69.5
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	80.4	58.1	49.6	46.5
15	转子惯量	Rotor inertia	gcm^2	13.2	13.2	13.2	13.2
16	重量	Weight	g	96	96	96	96

热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	11
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	4.7
19	热时间常数 (电机)	Thermal time constant motor	s	266
20	热时间常数 (线圈)	Thermal time constant winding	s	123
21	工作温度范围	Operating temperature range	$^{\circ}\text{C}$	-20~+120
22	绕组耐温等级	Thermal class of winding	$^{\circ}\text{C}$	155

特性曲线 / Characteristics Curve



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	2
26	静态轴向载荷	Axial load static	N	20
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N	20

其它参数 / Other Specifications

28	极对数	No. of pole pairs	1
29	含油轴承	Sleeve bearings	2
30	换向结构	Number of commutator segments	9
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

编码器 Encoder: 可定制 customizable upon request

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

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 135 页

the main technical parameters are detailed on page 135

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.

外观图 / Outline Drawing

