

2554N9C2B $\varnothing 25\text{mm} \times 53.3\text{mm}$, 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.

03-51-12.0 09-60-14.0 04-82-24.0 08-110-24.0

电机参数 / Motor Data

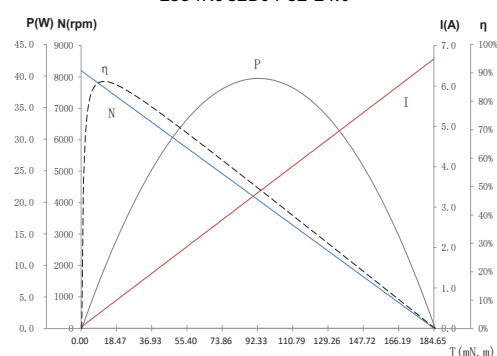
电机参数 / Motor Data		V	12.0	14.0	24.0	24.0
1 电压	Voltage	V	12.0	14.0	24.0	24.0
2 端电阻	Terminal resistance	Ω	2.4	2.7	3.6	2.8
3 空载转速	No-load speed	rpm	5100	6000	8200	11000
4 空载电流	No-load current	mA	20	50	30	60
5 堵转转矩	Stall torque	mNm	111.45	113.42	184.75	176.06
6 堵转电流	Stall current	mA	5000	5190	6670	8570
7 额定转矩	Nominal torque	mNm	20	20	30	30
8 额定转速	Nominal speed	rpm	4180	4940	6870	9130
9 额定电流	Nominal current	mA	910	960	1110	1510
10 最大输出功率	Max. output power	W	14.9	17.8	39.7	50.8
11 最大效率	Max. efficiency	%	88	81	87	84
12 反电势常数	Back-EMF constant	mV/rpm	2.3	2.3	2.9	2.2
13 转矩常数	Torque constant	mNm/A	22.4	22.1	27.8	20.7
14 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	45.8	52.9	44.4	62.5
15 转子惯量	Rotor inertia	gcm^2	14.2	14.2	14.2	14.2
16 重量	Weight	g	120	120	120	120

热参数 / Thermal Data

17 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	10.8
18 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	4
19 热时常数 (电机)	Thermal time constant motor	s	284
20 热时常数 (线圈)	Thermal time constant winding	s	157
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	$^{\circ}\text{C}$	120

特性曲线 / Characteristics Curve

2554N9C2B04-82-24.0



— 转速 (N) — 电流 (I) - - - 效率 (η)
— 功率 (P)

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	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

外观图 / Outline Drawing

