

# 3257N9C2B $\varnothing 32\text{mm} \times 57\text{mm}$ , 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.

01-54-12.0 02-64-24.0 08-74-24.0

## 电机参数 / Motor Data

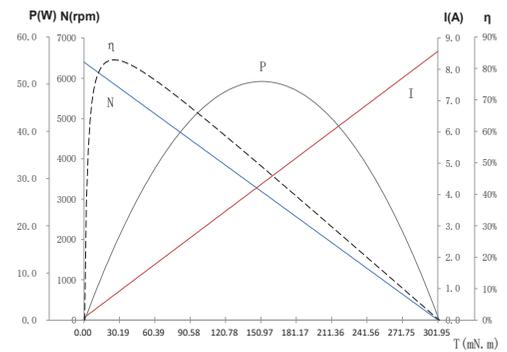
序号	中文描述	英文描述	单位	01-54-12.0	02-64-24.0	08-74-24.0
1	电压	Voltage	V	12.0	24.0	24.0
2	端电阻	Terminal resistance	$\Omega$	1.0	2.8	2.4
3	空载转速	No-load speed	rpm	5600	6400	7400
4	空载电流	No-load current	mA	240	70	100
5	堵转转矩	Stall torque	mNm	235.8	301.9	303.5
6	堵转电流	Stall current	mA	12000	8570	10000
7	额定转矩	Nominal torque	mNm	30.0	50.0	50.0
8	额定转速	Nominal speed	rpm	4890	5340	6180
9	额定电流	Nominal current	mA	1740	1480	1730
10	最大输出功率	Max. output power	W	34.6	50.6	58.9
11	最大效率	Max. efficiency	%	74	83	81
12	反电势常数	Back-EMF constant	mV/rpm	2.1	3.7	3.2
13	转矩常数	Torque constant	mNm/A	20.1	35.5	30.7
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	23.7	21.2	24.4
15	转子惯量	Rotor inertia	$\text{gcm}^2$	42	42	42
16	重量	Weight	g	230	230	230

## 热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	7.6
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	4.1
19	热时常数 (电机)	Thermal time constant motor	s	725
20	热时常数 (线圈)	Thermal time constant winding	s	540
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

3257N9C2B02-64-24.0



— 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	5
26	静态轴向载荷	Axial load static	N	50
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N	50

## 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	IP40

## 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

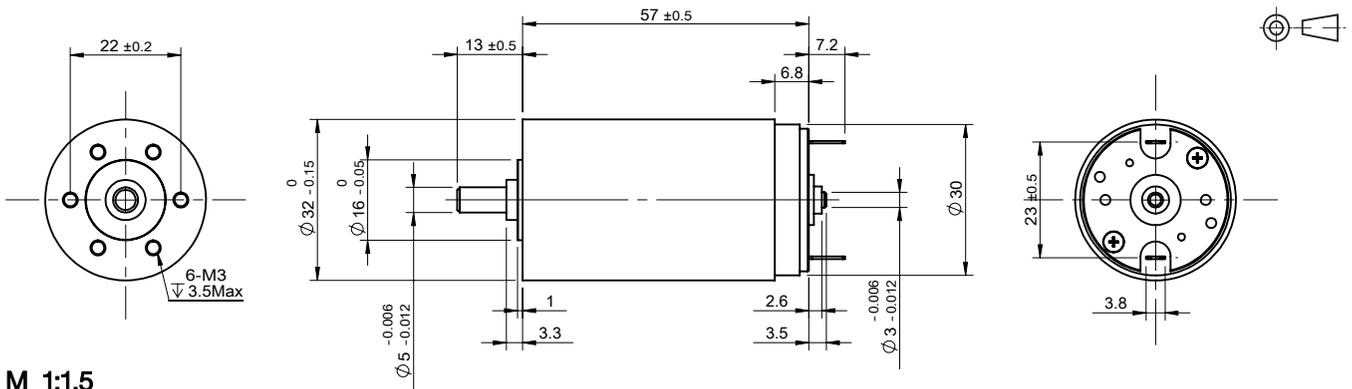
轴 Shaft: 长度 length / 异形 shape

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 137 页

the main technical parameters are detailed on page 137

## 外观图 / Outline Drawing



M 1:1.5

规格如有变更, 恕不另行通知。Specification subject to change without notice.

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