

2232N9M $\varnothing 22\text{mm} \times 31.6\text{mm}$, 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.

03-66-6.0 02-60-6.8 01-100-24.0

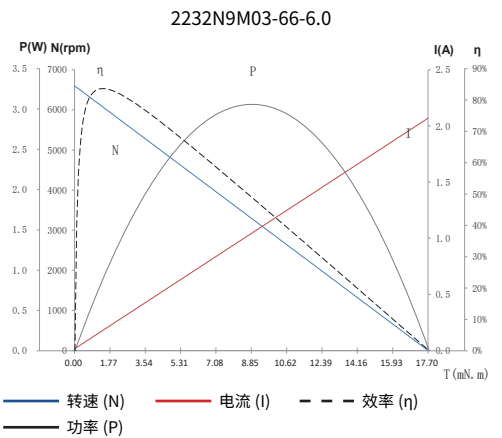
电机参数 / Motor Data

序号	中文	英文	单位	03-66-6.0	02-60-6.8	01-100-24.0
1	电压	Voltage	V	6.0	6.8	24.0
2	端电阻	Terminal resistance	Ω	2.9	3.0	17.2
3	空载转速	No-load speed	rpm	6600	6000	10000
4	空载电流	No-load current	mA	15	15	8
5	堵转转矩	Stall torque	mNm	17.7	24.2	31.7
6	堵转电流	Stall current	mA	2070	2270	1400
7	额定转矩	Nominal torque	mNm	5.0	5.0	7.0
8	额定转速	Nominal speed	rpm	4740	4760	7790
9	额定电流	Nominal current	mA	600	480	320
10	最大输出功率	Max. output power	W	3.1	3.8	8.3
11	最大效率	Max. efficiency	%	84	84	86
12	反电势常数	Back-EMF constant	mV/rpm	0.9	1.1	2.4
13	转矩常数	Torque constant	mNm/A	8.6	10.8	22.8
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	400	200	300
15	转子惯量	Rotor inertia	gcm^2	4.4	4.4	4.4
16	重量	Weight	g	55	55	55

热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	19.4
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	21.7
19	热时间常数 (电机)	Thermal time constant motor	s	383
20	热时间常数 (线圈)	Thermal time constant winding	s	329
21	工作温度范围	Operating temperature range	$^{\circ}\text{C}$	-20~+85
22	绕组耐温等级	Thermal class of winding	$^{\circ}\text{C}$	130

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	0.014
25	动态轴向载荷	Axial load dynamic	N	2
26	静态轴向载荷	Axial load static	N	60
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N	2

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 133 页

the main technical parameters are detailed on page 133

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

