

3068N9C2B $\varnothing 30\text{mm} \times 68\text{mm}$, 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.

06-86-18.0 10-100-24.0 02-82-36.0 04-87-48.0

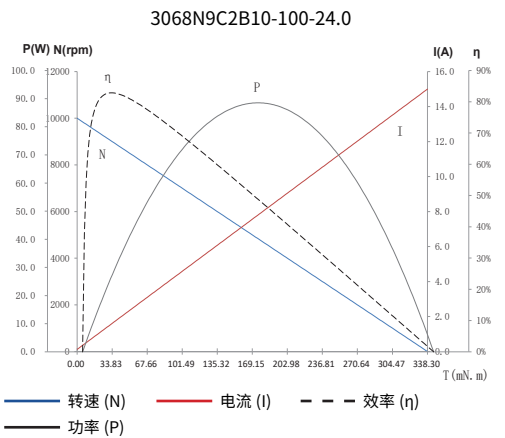
电机参数 / Motor Data

1	电压	Voltage	V	18.0	24.0	36.0	48.0
2	端电阻	Terminal resistance	Ω	1	1.6	2.5	4.1
3	空载转速	No-load speed	rpm	8600	10000	8200	8700
4	空载电流	No-load current	mA	150	120	100	50
5	堵转转矩	Stall torque	mNm	353.8	338.3	595.3	611.7
6	堵转电流	Stall current	mA	18000	15000	14400	11710
7	额定转矩	Nominal torque	mNm	40	40	60	80
8	额定转速	Nominal speed	rpm	7630	8820	7370	7560
9	额定电流	Nominal current	mA	2170	1880	1540	1570
10	最大输出功率	Max. output power	W	79.7	88.7	127.9	139.5
11	最大效率	Max. efficiency	%	83	83	84	87
12	反电势常数	Back-EMF constant	mV/rpm	2.1	2.4	4.4	5.5
13	转矩常数	Torque constant	mNm/A	19.8	22.7	41.6	52.5
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	24.3	29.6	13.8	14.2
15	转子惯量	Rotor inertia	gcm^2	33	33	33	33
16	重量	Weight	g	245	245	245	245

热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	6.2
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	3.8
19	热时间常数 (电机)	Thermal time constant motor	s	225
20	热时间常数 (线圈)	Thermal time constant winding	s	7.8
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	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

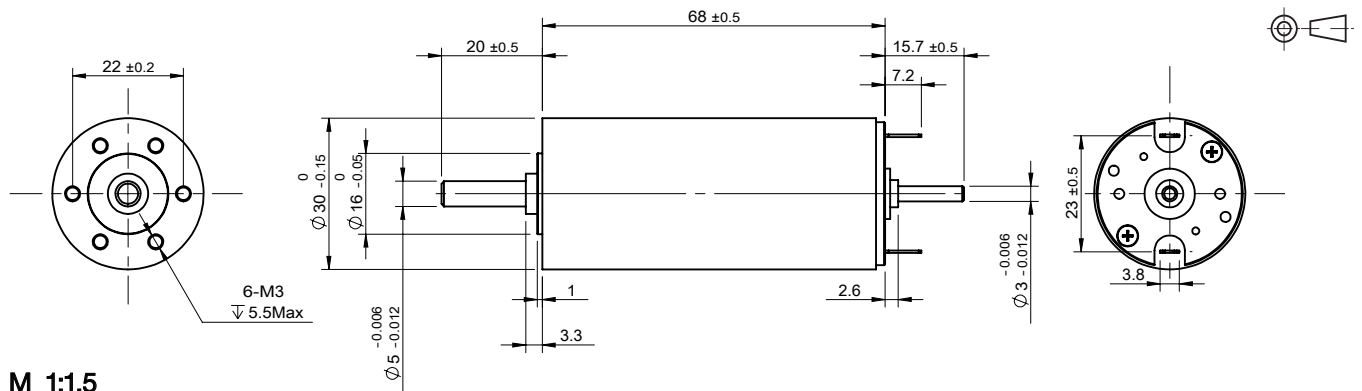
电气连接 Electrical connection: 端子或导线 connector or wire / 导线长度 lead wires length

齿轮组主要技术指标详见第 136 页

the main technical parameters are detailed on page 136

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



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