

2224N5M $\varnothing 22\text{mm} \times 24\text{mm}$, 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.

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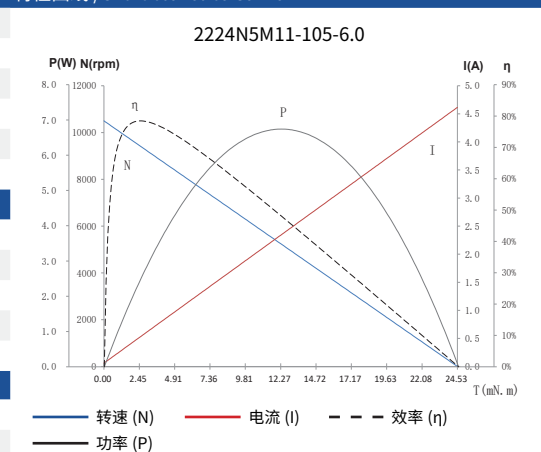
电机参数 / Motor Data

1	电压	Voltage	V	6.0	12.0	12.0
2	端电阻	Terminal resistance	Ω	1.3	2	5.9
3	空载转速	No-load speed	rpm	10500	15800	11200
4	空载电流	No-load current	mA	60	55	30
5	堵转转矩	Stall torque	mNm	24.6	42.7	20.2
6	堵转电流	Stall current	mA	4620	6000	2030
7	额定转矩	Nominal torque	mNm	5	5	4
8	额定转速	Nominal speed	rpm	8360	13950	8980
9	额定电流	Nominal current	mA	990	750	430
10	最大输出功率	Max. output power	W	6.8	17.7	5.9
11	最大效率	Max. efficiency	%	79	82	77
12	反电势常数	Back-EMF constant	mV/rpm	0.6	0.8	1.1
13	转矩常数	Torque constant	mNm/A	5.4	7.2	10.1
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	400	400	600
15	转子惯量	Rotor inertia	gcm^2	2.4	2.4	2.4
16	重量	Weight	g	40	40	40

热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	22.3
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	6.1
19	热时常数 (电机)	Thermal time constant motor	s	313
20	热时常数 (线圈)	Thermal time constant winding	s	218
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	5
31	防护等级	Protection class	IP30

可选配置 / Options

齿轮箱: 行星齿轮 齿轮组主要技术指标详见第 133 页
 Gearbox: planetary gearbox the main technical parameters are detailed on page 133

性能 Special coils: 连续运行范围内可定制 customizable in continuous operation range

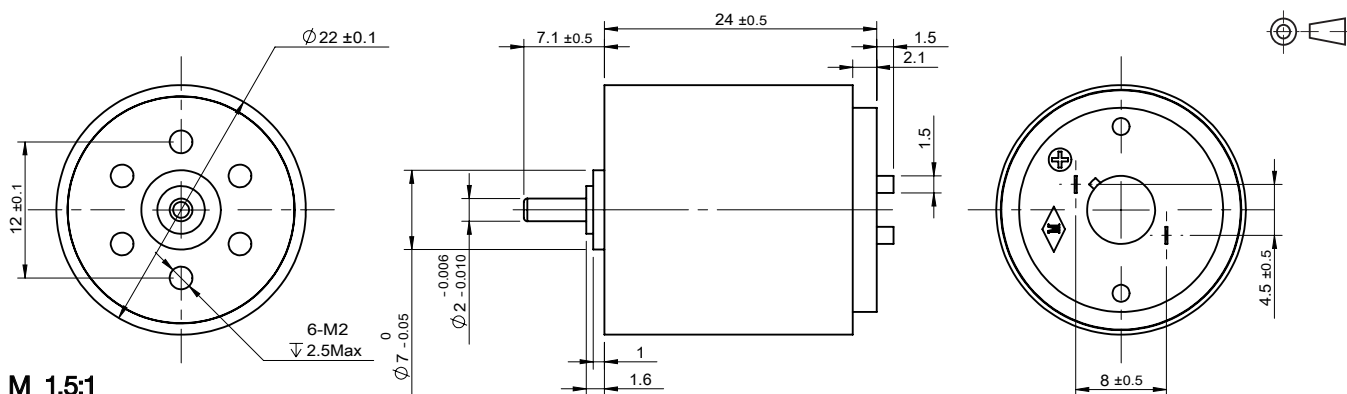
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges

轴 Shaft: 长度 length / 异形 shape

轴承类型 Bearing type: 含油轴承 sleeve bearings / 滚珠轴承 ball bearings

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

外观图 / Outline Drawing



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

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