2232N5M ∅22mm*31.6mm, 贵金属电刷 Precious Metal Brushes

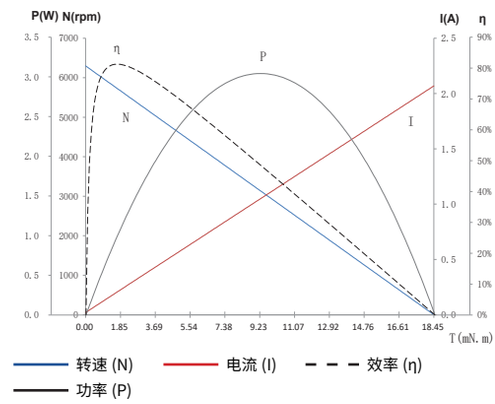
应用领域：医疗、保健、汽车、机器人、工业自动化等精密驱动领域。

Applications: precision drives in medical equipment and devices, healthcare products, automotive, robotics, and industrial automation.

				08-63-6.0	13-79-9.0	05-54-12.0
电机参数 / Motor Data						
1	电压	Voltage	V	6.0	9.0	12.0
2	端电阻	Terminal resistance	Ω	2.9	2.4	17.5
3	空载转速	No-load speed	rpm	6300	7900	5400
4	空载电流	No-load current	mA	20	25	15
5	堵转转矩	Stall torque	mNm	18.5	40.3	14
6	堵转电流	Stall current	mA	2070	3750	690
7	额定转矩	Nominal torque	mNm	4	6	4
8	额定转速	Nominal speed	rpm	4940	6720	3860
9	额定电流	Nominal current	mA	460	580	210
10	最大输出功率	Max. output power	W	3	8.3	2
11	最大效率	Max. efficiency	%	81	84	73
12	反电势常数	Back-EMF constant	mV/rpm	0.9	1.1	2.2
13	转矩常数	Torque constant	mNm/A	9	10.8	20.8
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	300	200	400
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	热时常数 (电机)	Thermal time constant motor	s	383		
20	热时常数 (线圈)	Thermal time constant winding	s	329		
21	工作温度范围	Operating temperature range	°C	-20~+85		
22	绕组耐温等级	Thermal class of winding	°C	130		
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		IP40		

特性曲线 /Characteristics Curve

2232N5M08-63-6.0



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.

可选配置 /Options

齿轮箱 : 行星齿轮

Gearbox: planetary gearbox

齿轮组主要技术指标详见第 133 页

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

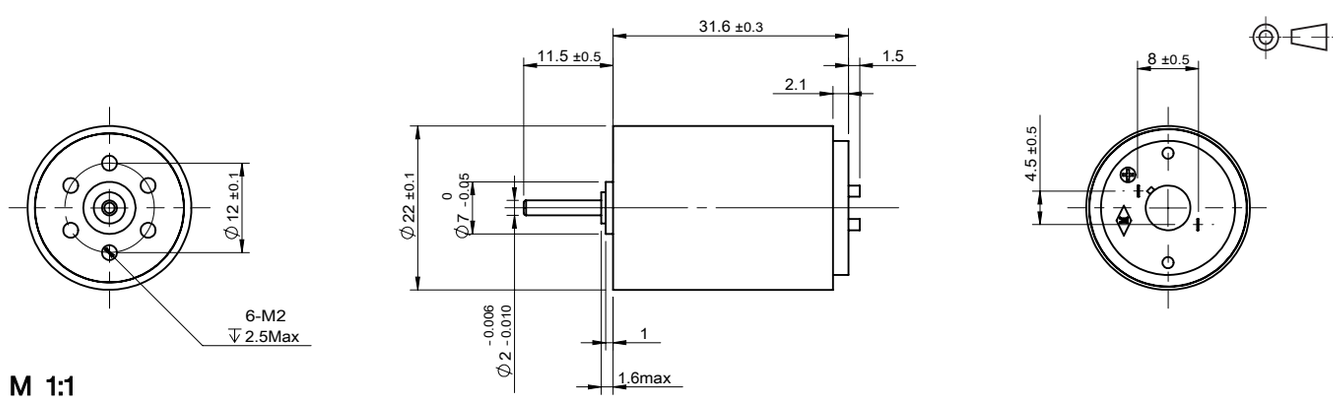
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges

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



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