2224N5M | 贵金属电刷 Precious Metal Commutation

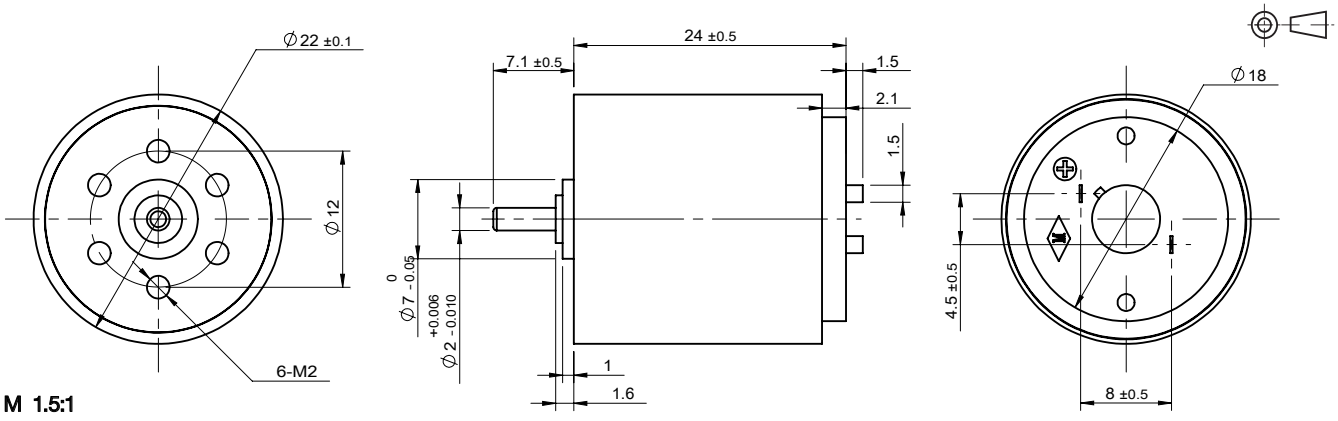
应用领域：医疗、保健、汽车、机器人、工业自动化等精密驱动领域。
Applications: precision drives in medical equipment and devices, healthcare products, automotive, robotics, and industrial automation.

主要技术指标 | Characteristics

				11-105-6.0	09-158-12.0	12-112-12.0
1	电压	Voltage	V	6.0	12.0	12.0
2	端电阻	Terminal resistance	Ω	1.3	2.0	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	5.0	5.0	3.0
8	额定转速	Nominal speed	rpm	8360	13950	9530
9	额定电流	Nominal current	mA	990	750	330
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	430	370	560
15	转子惯量	Rotor inertia	gcm^2	2.4	2.4	2.4
16	重量	Weight	g	36	36	36
17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		22.31	
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		6.06	
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	°C		-20~+85	
22	绕组耐温等级	Thermal class of winding	°C		130	
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		3.3	
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		14	
28	极对数	No. of pole pairs			1	
29	轴承	Bearings			2 枚含油轴承/2 sleeve bearings	
30	换向结构	Commutator			贵金属 5 相/metal 5 segments	
31	防护等级	Protection class			IP 40	

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils
轴承 Bearing type 齿轮箱 Gearheads

外观图 | Outline Drawing



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