

1627N5M (1) | 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.

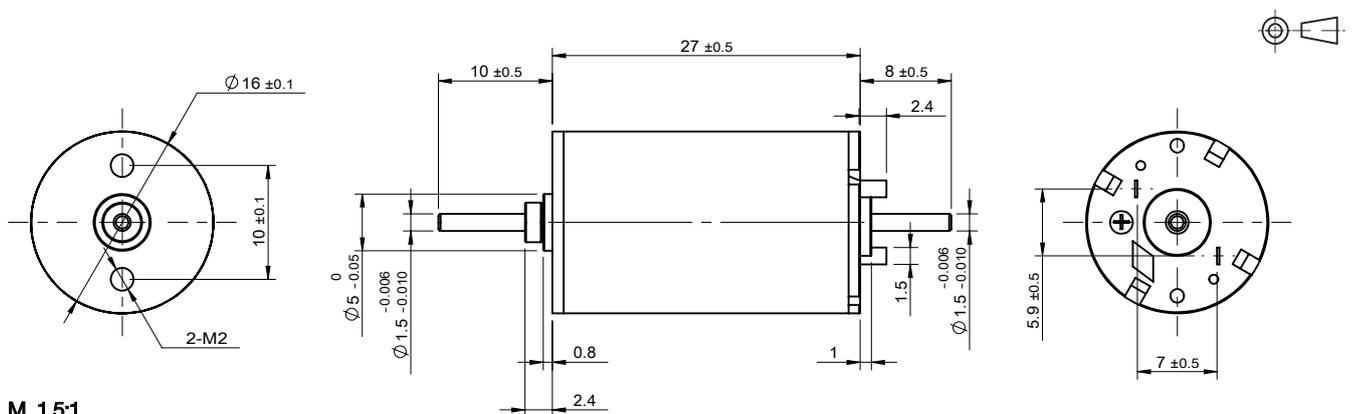
主要技术指标 | Characteristics

			07-101-4.5	20-113-6.0	14-118-12.0	
1	电压	Voltage	V	4.5	6.0	12.0
2	端电阻	Terminal resistance	Ω	1.5	1.8	8.7
3	空载转速	No-load speed	rpm	10100	11300	11800
4	空载电流	No-load current	mA	50	50	20
5	堵转转矩	Stall torque	mNm	12.3	16.4	13.0
6	堵转电流	Stall current	mA	3000	3330	1380
7	额定转矩	Nominal torque	mNm	3.0	4.0	3.3
8	额定转速	Nominal speed	rpm	7640	8540	8810
9	额定电流	Nominal current	mA	770	850	360
10	最大输出功率	Max. output power	W	3.3	4.9	4.0
11	最大效率	Max. efficiency	%	76	77	77
12	反电势常数	Back-EMF constant	mV/rpm	0.4	0.5	1.0
13	转矩常数	Torque constant	mNm/A	4.2	5.0	9.6
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	820	690	910
15	转子惯量	Rotor inertia	gcm ²	0.6	0.6	0.7
16	重量	Weight	g	25	25	25
17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		24.88	
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		29.38	
19	热时常数 (电机)	Thermal time constant motor	s		228	
20	热时常数 (线圈)	Thermal time constant winding	s		176	
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		0.014	
25	动态轴向载荷	Axial load dynamic	N		0.8	
26	静态轴向载荷	Axial load static	N		30	
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		1.4	
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 30	

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

齿轮箱 Gearheads 编码器 Encoder

外观图 | Outline Drawing



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1627N5M (2) | 贵金属电刷 Precious Metal Commutation

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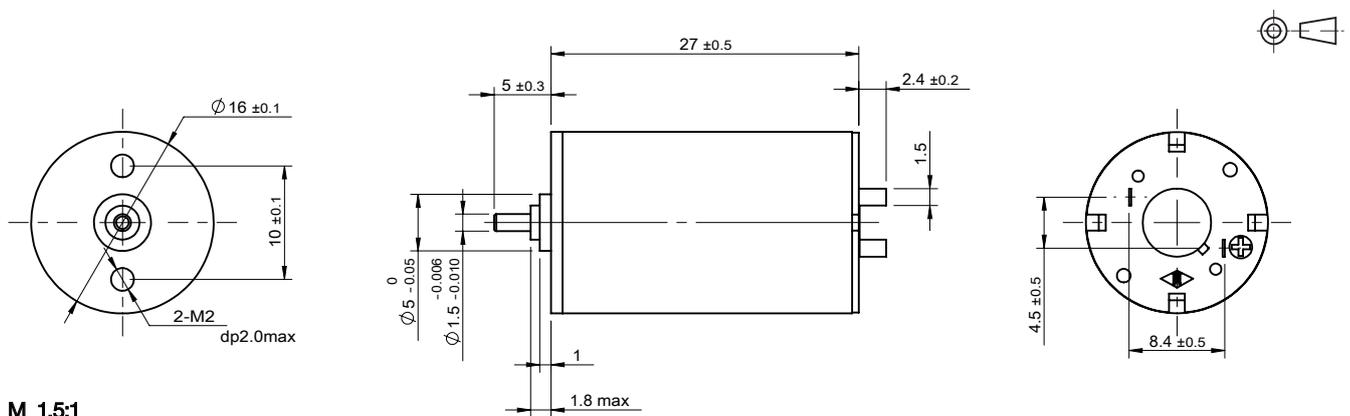
主要技术指标 | Characteristics

			27-66-6.0	21-113-12.0	16-85-24.0	
1	电压	Voltage	V	6.0	12.0	24.0
2	端电阻	Terminal resistance	Ω	8.2	11.8	73.2
3	空载转速	No-load speed	rpm	6600	11300	8500
4	空载电流	No-load current	mA	11	13	6
5	堵转转矩	Stall torque	mNm	6.1	10.1	8.6
6	堵转电流	Stall current	mA	730	1020	330
7	额定转矩	Nominal torque	mNm	1.5	3.0	2.0
8	额定转速	Nominal speed	rpm	4990	7940	6520
9	额定电流	Nominal current	mA	190	310	80
10	最大输出功率	Max. output power	W	1.1	3.0	1.9
11	最大效率	Max. efficiency	%	77	79	75
12	反电势常数	Back-EMF constant	mV/rpm	0.9	1.0	2.8
13	转矩常数	Torque constant	mNm/A	8.6	10.0	26.5
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	1070	1120	990
15	转子惯量	Rotor inertia	gcm ²	0.7	0.6	0.7
16	重量	Weight	g	25	25	25
17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		24.9	
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		29.4	
19	热时常数 (电机)	Thermal time constant motor	s		228	
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