

## 1020N5M | 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.

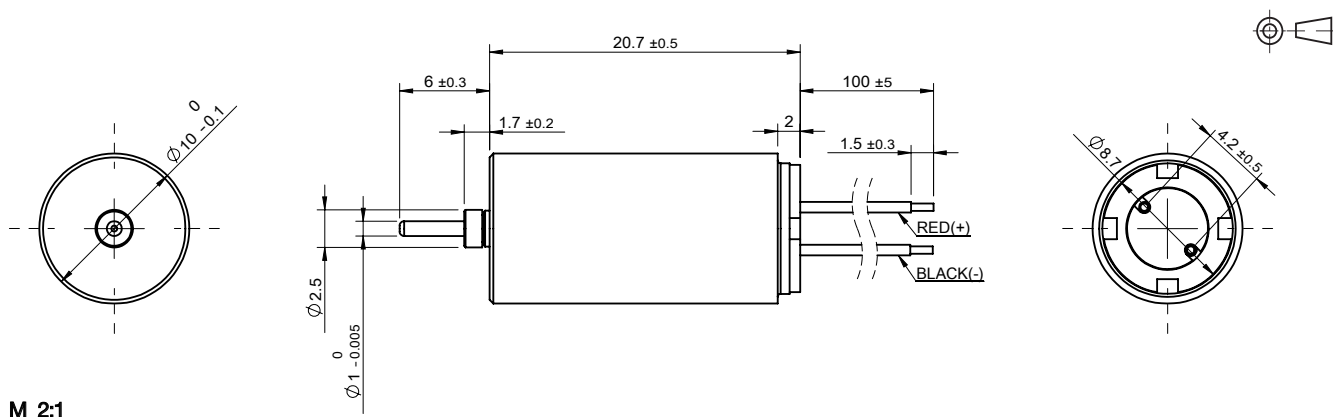
### 主要技术指标 | Characteristics

			52-115-3.0	14-125-6.0	16-280-7.4	
1	电压	Voltage	V	3.0	6.0	7.4
2	端电阻	Terminal resistance	$\Omega$	3.8	11.7	3.3
3	空载转速	No-load speed	rpm	11500	12500	28000
4	空载电流	No-load current	mA	16	15	30
5	堵转转矩	Stall torque	mNm	1.89	2.20	5.50
6	堵转电流	Stall current	mA	790	510	2240
7	额定转矩	Nominal torque	mNm	0.5	0.5	1.0
8	额定转速	Nominal speed	rpm	8460	9660	22910
9	额定电流	Nominal current	mA	220	130	430
10	最大输出功率	Max. output power	W	0.57	0.72	4.04
11	最大效率	Max. efficiency	%	74	69	78
12	反电势常数	Back-EMF constant	mV/rpm	0.26	0.47	0.26
13	转矩常数	Torque constant	mNm/A	2.4	4.4	2.5
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	6100	6100	6100
15	转子惯量	Rotor inertia	gcm <sup>2</sup>	0.07	0.07	0.07
16	重量	Weight	g	6.1	6.1	6.1
17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		38.5	
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		33.2	
19	热时常数 (电机)	Thermal time constant motor	s		78	
20	热时常数 (线圈)	Thermal time constant winding	s		61	
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		0.01~0.15	
24	径向间隙	Radial play	mm		0.012	
25	动态轴向载荷	Axial load dynamic	N		0.15	
26	静态轴向载荷	Axial load static	N		15	
27	径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		0.4	
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 40	

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils

齿轮箱 Gearheads 编码器 Encoder

### 外观图 | Outline Drawing



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