

1627N5M (2) $\varnothing 16\text{mm} \times 27\text{mm}$, 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.

27-66-6.0 21-113-12.0 16-85-24.0

电机参数 / Motor Data

1	电压	Voltage	V	6.0	12.0	24.0
2	端电阻	Terminal resistance	Ω	8.2	11.8	72
3	空载转速	No-load speed	rpm	6600	11300	7500
4	空载电流	No-load current	mA	11	13	6
5	堵转转矩	Stall torque	mNm	6.1	10.1	9.7
6	堵转电流	Stall current	mA	730	1020	330
7	额定转矩	Nominal torque	mNm	1	1.5	1.5
8	额定转速	Nominal speed	rpm	5530	9620	6340
9	额定电流	Nominal current	mA	130	160	60
10	最大输出功率	Max. output power	W	1.1	3	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	3.1
13	转矩常数	Torque constant	mNm/A	8.6	10	30
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	1100	1100	800
15	转子惯量	Rotor inertia	gcm^2	0.7	0.7	0.7
16	重量	Weight	g	25	25	25

热参数 / Thermal Data

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	19.4
19	热时间常数 (电机)	Thermal time constant motor	s	228
20	热时间常数 (线圈)	Thermal time constant winding	s	176
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

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	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

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

Gearbox: planetary gearbox

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

编码器 Encoder: 可定制 customizable upon request

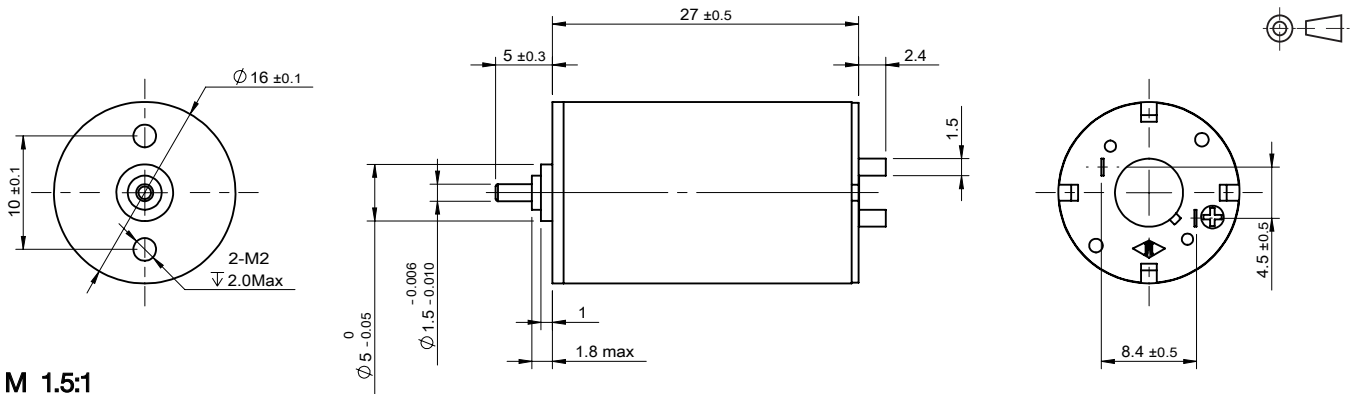
法兰 Flange: 标准前后法兰 standard front and rear flanges / 定制法兰 custom flanges

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

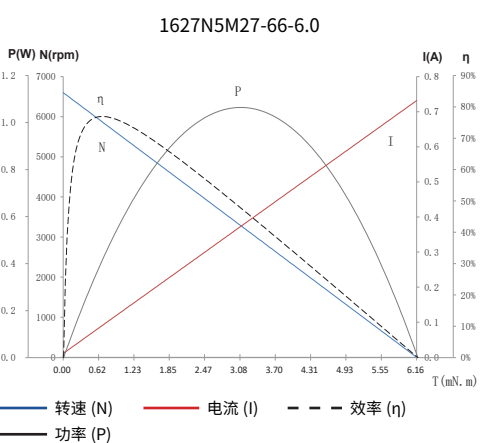
电气连接 Electrical connection: 端子或导线 connector or wire / 导线长度 lead wires length

外观图 / Outline Drawing



M 1.5:1

特性曲线 / Characteristics Curve



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.

齿轮组主要技术指标详见第 131 页

the main technical indicators of the gear group are detailed on page 131