

1515N5M $\varnothing 15\text{mm} \times 15.2\text{mm}$, 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.

04-120-6.0 02-260-7.4 07-220-18.0

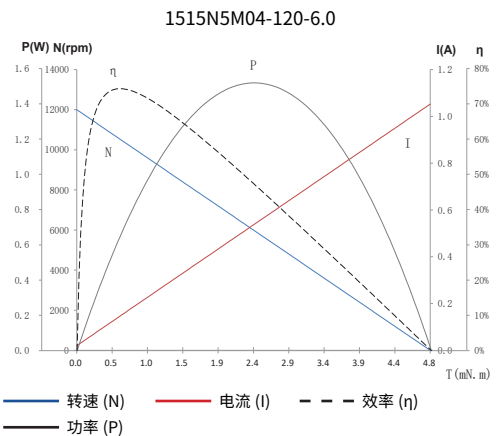
电机参数 / Motor Data

1	电压	Voltage	V	6.0	7.4	18.0
2	端电阻	Terminal resistance	Ω	5.7	2.5	30.5
3	空载转速	No-load speed	rpm	12000	26000	22000
4	空载电流	No-load current	mA	20	40	15
5	堵转转矩	Stall torque	mNm	4.8	7.8	4.4
6	堵转电流	Stall current	mA	1050	2960	590
7	额定转矩	Nominal torque	mNm	1	1.5	1
8	额定转速	Nominal speed	rpm	9510	21020	16980
9	额定电流	Nominal current	mA	230	600	150
10	最大输出功率	Max. output power	W	1.52	5.33	2.52
11	最大效率	Max. efficiency	%	74	78	71
12	反电势常数	Back-EMF constant	mV/rpm	0.5	0.3	0.8
13	转矩常数	Torque constant	mNm/A	4.7	2.7	7.6
14	转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	2500	3300	5000
15	转子惯量	Rotor inertia	gcm^2	0.21	0.21	0.21
16	重量	Weight	g	12	12	12

热参数 / Thermal Data

17	热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W	32.1
18	热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W	26.3
19	热时常数 (电机)	Thermal time constant motor	s	130
20	热时常数 (线圈)	Thermal time constant winding	s	98
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

特性曲线 / Characteristics Curve



机械参数 / Mechanical Data

23	轴向间隙	Axial play	mm	≤ 0.3
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	1

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

可选配置 / Options

齿轮箱：行星齿轮

齿轮组主要技术指标详见第 131 页

Gearbox: planetary gearbox

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

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

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

