

1331N7M | 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

			02-110-6.0	03-148-12.0	01-96-24.0
1 电压	Voltage	V	6.0	12.0	24.0
2 端电阻	Terminal resistance	Ω	2.6	5.0	39.8
3 空载转速	No-load speed	rpm	11000	14800	9600
4 空载电流	No-load current	mA	25	40	4
5 堵转转矩	Stall torque	mNm	11.8	18.0	14.1
6 堵转电流	Stall current	mA	2310	2400	600
7 额定转矩	Nominal torque	mNm	3.0	4.5	3.5
8 额定转速	Nominal speed	rpm	8200	11090	7220
9 额定电流	Nominal current	mA	610	630	150
10 最大输出功率	Max. output power	W	3.39	6.97	3.56
11 最大效率	Max. efficiency	%	80	76	84
12 反电势常数	Back-EMF constant	mV/rpm	0.5	0.8	2.5
13 转矩常数	Torque constant	mNm/A	5.2	7.6	23.7
14 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	930	820	680
15 转子惯量	Rotor inertia	gcm ²	0.52	0.52	0.52
16 重量	Weight	g	19	19	19
17 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		34.8	
18 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		38.6	
19 热时常数 (电机)	Thermal time constant motor	s		211	
20 热时常数 (线圈)	Thermal time constant winding	s		163	
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 7 相/metal 7 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

外观图 | Outline Drawing

