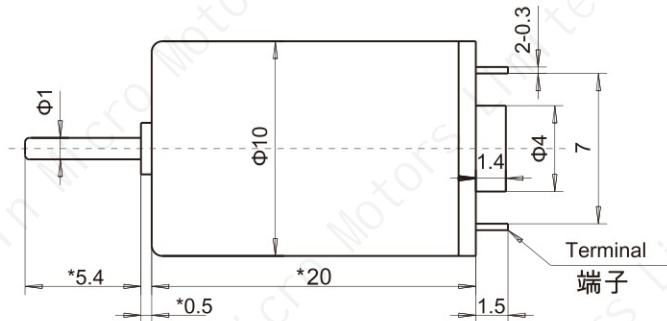


TSL-CL1020 Series $\Phi 10 \times L20$

稀有贵金属电刷 Precious Metal Brushes 0.8W



电机参数 Motor Parameter				电机型号 Motor Model				
额定电压下的数值 Values at nominal voltage				TSL-CL10B1-040142	TSL-CL10B1-040142	TSL-CL10B1-060122	TSL-CL10B1-060122	TSL-CL10B1-060122
空载点 Free Load	1	额定电压 Rated voltage	V	1.5	3	3	4.5	6
	2	空载转速 No load speed	rpm	12900	25700	16900	25400	33800
最大效率点 At Max. Efficiency	3	空载电流 No load current	mA	25	41	22	35	44
	4	最大效率 Max. efficiency	%	57%	64%	64%	64%	66%
	5	转速 Speed	rpm	10800	21900	14400	21500	28800
最大输出功率点 At Max. Output	6	电流 Current	mA	131	239	125	194	251
	7	转矩 Torque	g.cm	0.99	2.05	1.6	2.53	3.35
	8	最大功率 Max. output	W	0.2	0.91	0.47	1.08	1.94
堵转点 At Stall	9	转速 Speed	rpm	6500	12800	8500	12700	16900
	10	电流 Current	mA	353	712	367	553	736
	11	转矩 Torque	g.cm	3.09	6.93	5.36	8.26	11.21
电机常数 Motor Constants	12	堵转电流 Stall current	A	0.68	1.38	0.71	1.07	1.43
	13	堵转转矩 Stall torque	g.cm	6.18	13.87	10.73	16.51	22.41
14	端电阻 Terminal resistance	Ω	2.2	2.2	4.2	4.2	4.2	
15	转矩常数 Torque constant	g.cm/A	10.3	10.3	15.5	15.5	15.5	
16	转速常数 Speed constant	rpm/V	8800	8800	5800	5800	5800	
17	速度/转矩常数 Speed/Torque constant	rpm/g.cm	1850	1850	1580	1580	1580	

电机特性 Motor characteristic

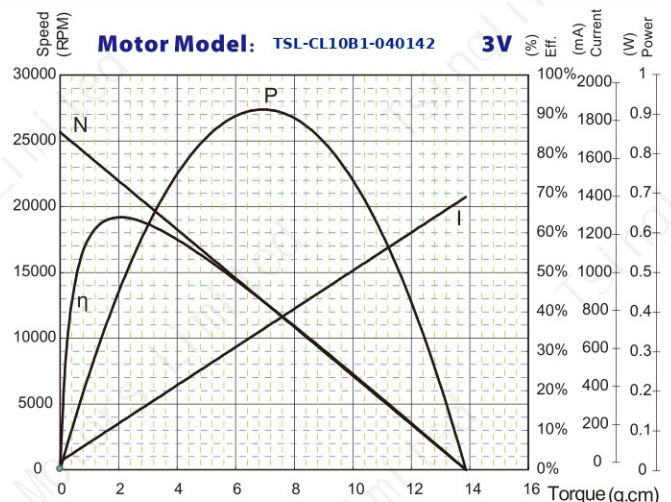
热参数 Thermal parameters		
18	环境温度范围 Ambient temperature	-20~+65 $^{\circ}\text{C}$
19	绕组最高允许温度 Max. permissible winding temperature	85 $^{\circ}\text{C}$
机械参数 Mechanical parameters		
20	最高空载允许转速 Max. permissible No-load speed	30000 rpm
21	最大轴向载荷(动态) Max. axial load(dynamic)	0.2 N
其他参数 Other parameters		
22	电机磁极对数 Number of pole pairs	1
23	换向器片数 Number of commutator segments	3-5
24	电机重量 Weight	4.9 g

备注 Remarks

- 外形图中带 "*" 尺寸可根据客户需求调整。
 - 可按客户要求性能、安装、电源连接方式、外形尺寸的设计。
 - 电机可配置铁、铜、钨等材质及各种形状尺寸的偏心锤，组成振动电机。
- Dimension with "*" in the drawing can be adjusted according to customer's requirement.
 - Motor can be designed upon customer's requirements on performance, installation, power connection method and motor dimension.
 - Motor can be mounted with various shape and sizes of eccentric weight which is made of iron, brass or ferro-alloy to become vibration motor.

1g=0.035oz 1inch=25.4mm 1g.cm=0.098mN.m
1oz=28.35g 1mm=0.0394inch 1mN.m=10.2g.cm

典型性能 Typical performance



备注：电机测试环境温度：常温 25-30 $^{\circ}\text{C}$ 。

NOTE: Ambient temperature 25-30 $^{\circ}\text{C}$