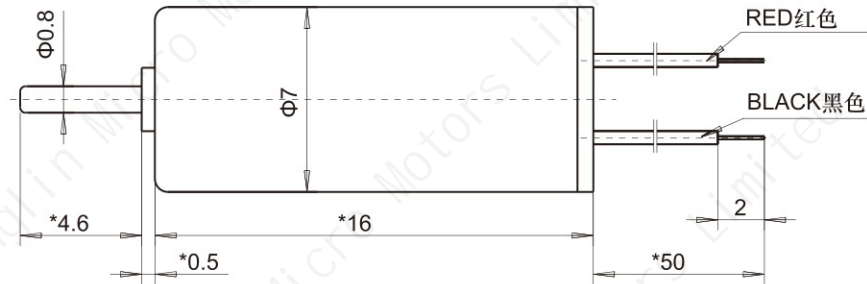


TSL-CL0716 Series $\Phi 7 \times L16$

稀有贵金属电刷 Precious Metal Brushes 0.5W



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-CL7A3-018152	TSL-CL7A3-018162	TSL-CL7A3-020152	TSL-CL7A3-022142	TSL-CL7A3-022152	TSL-CL7A3-022162	TSL-CL7A3-022142	TSL-CL7A3-017211
空载点 Free Load	1	额定电压 Rated voltage	V	3.7	3.7	3.7	3.7	3.7	3.7	4.5	3.7
	2	空载转速 No load speed	rpm	48000	47100	43300	39600	40100	50800	48200	50000
	3	空载电流 No load current	mA	110	93	95	58	88	88	75	77
最大效率点 At Max. Efficiency	4	最大效率 Max. efficiency	%	57%	61%	58%	62%	59%	63%	61%	67%
	5	转速 Speed	rpm	39200	39300	35500	33200	33100	42700	40200	43200
	6	电流 Current	mA	491	469	434	303	415	467	375	479
	7	转矩 Torque	g.cm	2.56	2.61	2.54	2.02	2.65	2.45	2.5	2.67
最大输出功率点 At Max. Output	8	最大功率 Max. output	W	1.72	1.91	1.57	1.28	1.56	2.01	1.85	2.49
	9	转速 Speed	rpm	24000	23600	21600	19800	20100	25400	24100	25000
	10	电流 Current	mA	1147	1230	1040	817	1023	1280	975	1538
	11	转矩 Torque	g.cm	6.98	7.89	7.07	6.27	7.58	7.7	7.5	9.7
堵转点 At Stall	12	堵转电流 Stall current	A	2.18	2.37	1.99	1.57	1.96	2.47	1.88	3
	13	堵转转矩 Stall torque	g.cm	13.96	15.77	14.14	12.55	15.16	15.39	14.99	19.4
电机常数 Motor Constants											
	14	端电阻 Terminal resistance	Ω	1.7	1.6	1.9	2.4	1.9	1.5	2.4	1.2
	15	转矩常数 Torque constant	g.cm/A	6.7	6.9	7.5	8.3	8.1	6.5	8.3	6.6
	16	转速常数 Speed constant	rpm/V	13700	13300	12300	11100	11400	14200	11100	13900
	17	速度/转矩常数 Speed/Torque constant	rpm/g.cm	3440	2990	3060	3160	2650	3300	3160	2580

电机特性 Motor characteristic

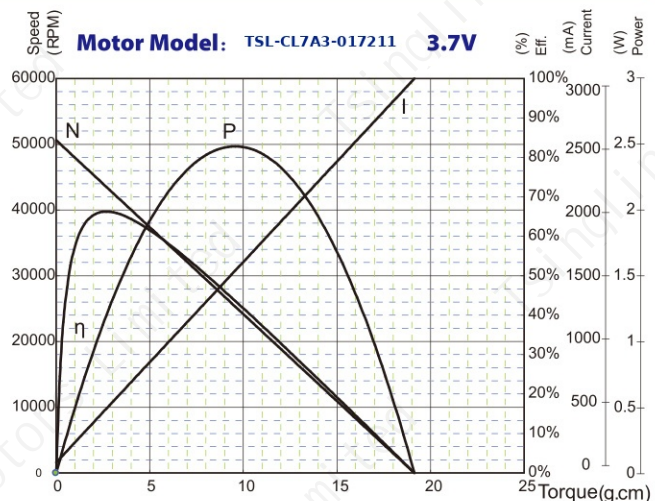
热参数 Thermal parameters			
18	环境温度范围 Ambient temperature	-20~+65	$^{\circ}\text{C}$
19	绕组最高允许温度 Max. permissible winding temperature	85	$^{\circ}\text{C}$
机械参数 Mechanical parameters			
20	最高空载允许转速 Max. permissible No-load speed	51000	rpm
21	最大轴向载荷(动态) Max. axial load(dynamic)	0.13	N
其他参数 Other parameters			
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	2.5	g

备注 Remarks

- 外形图中带“*”尺寸可根据客户需求调整。
 - 可按客户要求来进行性能、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。
- 1) Dimension with "*" in the drawing can be adjusted according to customer's requirement.
- 2) Motor can be designed upon customer's requirements on performance, installation, power connection method and motor dimension.
- 3) 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 $^{\circ}\text{C}$