

YingFuDa Micro Motor Co Ltd

盈富达微电机有限公司

Product Specification

Customer Name

Model No.

YFD385V-18100-57

Specification No. 2208152

Revision

A0

Date issued

2022.8.15

CONFIRMED & ACCEPTED BY CUSTOMER
COMPANY , CHOP & SIGNATURE

DATE :

PREPARED BY: YWjiang15/8-22

CHECKED BY:

APPROVED BY:

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Product Specification

Model No: YFD385V-18100-57

Sample No: 2208152

1. 马达类型: 微型直流马达
2. 标准测试条件:
 - 2-1 额定电压: 32.0V DC 向马达正负极端子输入的电压.
 - 2-2 旋转方向: CCW 从马达输出轴端视.
3. 测试条件:
 - 3-1 马达放置状态: 马达水平放置.
 - 3-2 测试电源: 确保测试没问题的稳压电源
 - 3-3 环境温度与湿度: 一般在 15°C-35°C 及相对湿度 75%的环境下测试
4. 电气特性(启动 30 秒后测试):
 - 4-1 空载电流: 0.19A max.
 - 4-2 空载转速: 20320±8% rpm.
 - 4-3 始动电压: 2.0Vmax
 - 4-4 负载电流: 1.1±12%A .
 - 4-5 负载转速: 16000±800 rpm.
 - 4-6 测试负载: 15x50 mm 的一字风叶(大约为 159.3g-cm.)
 - 4-7 性能曲线: 看马达性能曲线图
 - 4-8 绝缘电阻: 马达端子与外壳之间,施加 DC500V 电压,绝缘阻值不低于 10MΩ
 - 4-9 介电强度: 马达端子与外壳之间施加一分钟 AC500V/1mA (50Hz 或 60Hz) 电压
 - 4-10 振动值: ≤4.9mm/s
5. 机械特性:
 - 5-1 外形: 看马达外形图
 - 5-2 虚位: 0.05~0.5 mm
 - 5-3 轴突端跳动: 0.05 mm max. 输出轴 2/3 处,用百分表测量
 - 5-4 马达重量: 65.9 g (Approx)
6. 寿命测试:
 - 6-1 测试电压 32.0V (直流稳压电源)
 - 6-2 负载 负载风叶大约为 145.0g.cm
 - 6-3 测试周期及条件 30 分钟开, 30 分钟 为一个周期
 - 6-4 要求满足的测试周期 400 cycle
7. 噪音测试: 马达放在在海棉上,拾音器距离马达输出轴 30cm 处,在 无载条件下接入额定电压. 机械噪音不超过 70dB,最大背景噪音小于 30dB
8. 其它特性:
 - 8-1 绝缘等级: B 级
 - 8-2 ECP Requirement: Motor conform to 2011/65/EU RoHS Directive

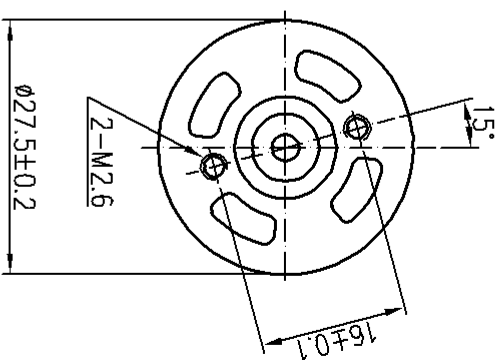
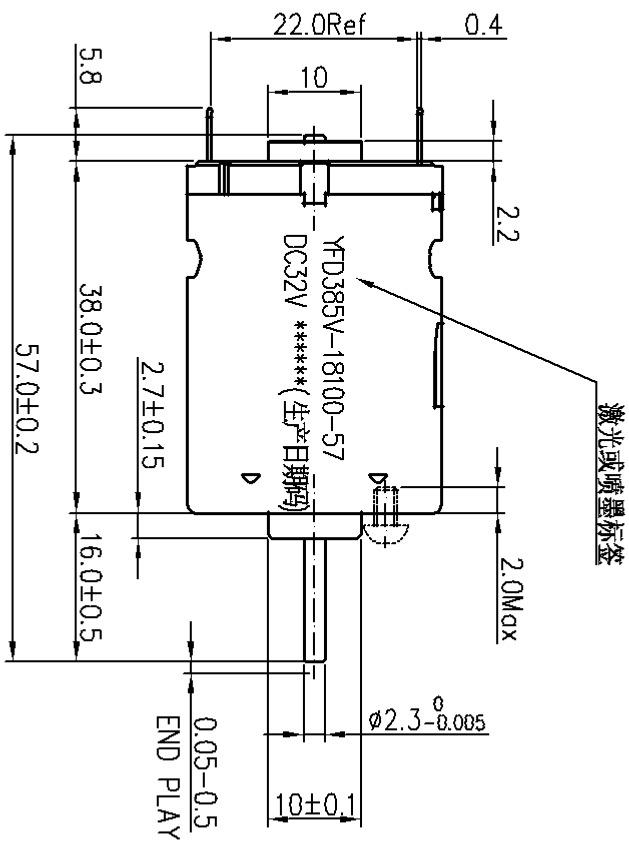
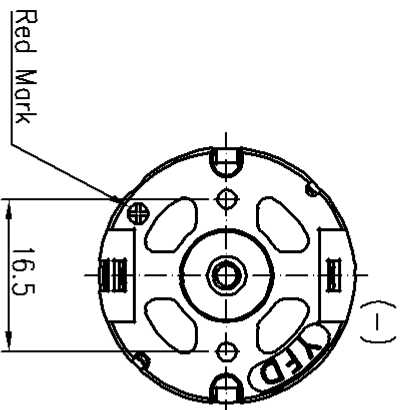
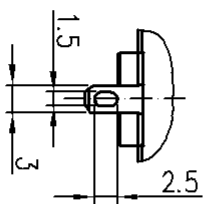
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END OF THE SHAFT IS AGAINST THE REAR BRACKET END.



Company, Chop & Signature

title: MOTOR OUTLINE

PART NO: YFD385V-18100-57

YingFuDa Micro Motor

DES'D	YWjiang15/8-22
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CHK'D		
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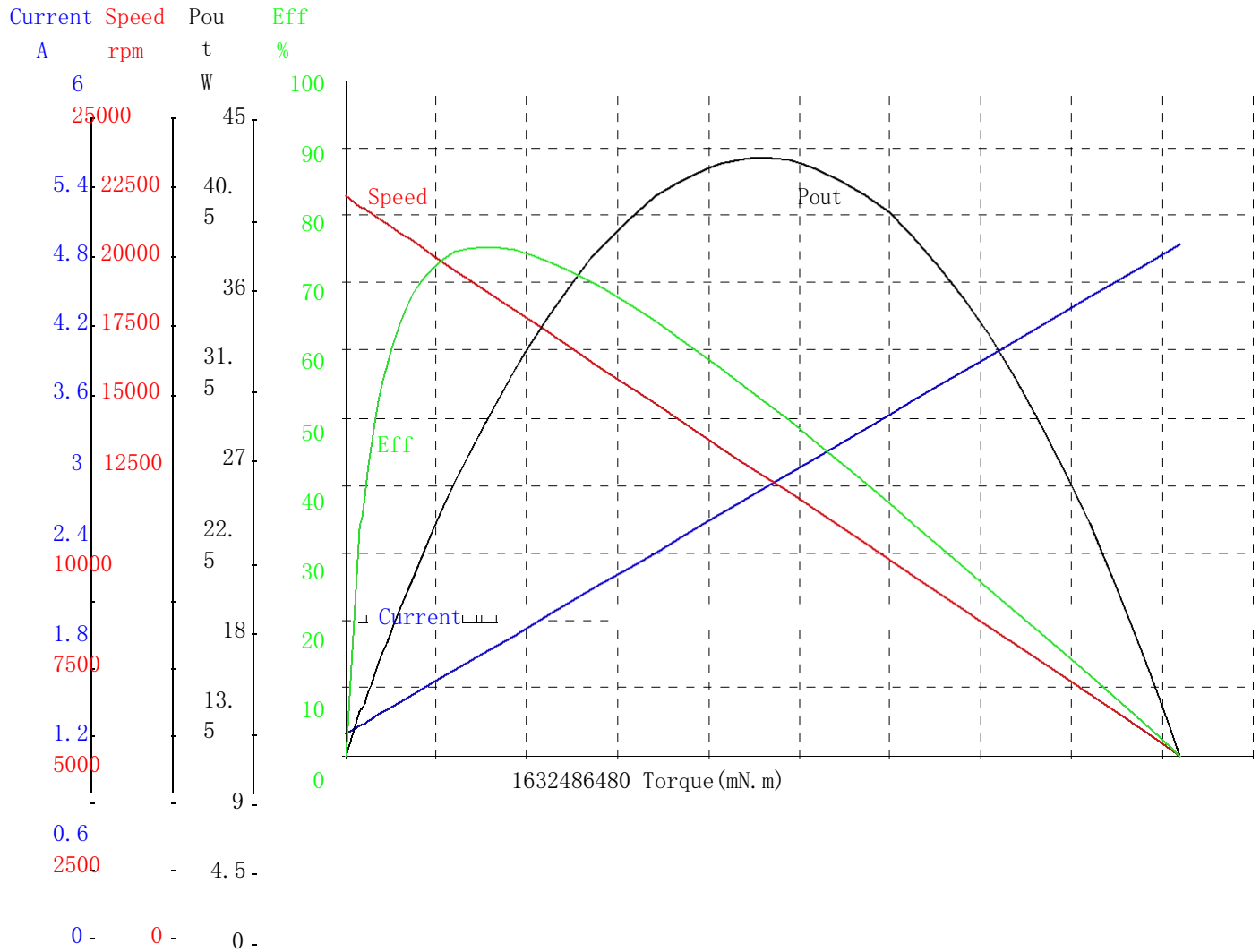
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FOSHAN SHUNDE YINGFUDA MICRO MOTOR

Motor performance curves and characteristics:

Customer: Voltage: 32.0V
 ProductName Power rated:
 马达类型: YFD385V-18100-57 Tester: 001
 Test Data: 2022.8.15



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN. m	rpm	W	%
No_负载	32.05	0.280	8.986	1.36	20115	2.864	31.9
Rated							

Eff_max	32.05	1.018	32.62	14.87	16402	25.53	78.3
End	32.05	2.502	80.19	39.12	8885	36.40	45.4

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Test Data: 2022.8.15

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	32.05	0.189	6.061	0.00	20693	0.000	0.0
2	32.05	0.270	8.641	1.36	20311	2.892	33.5
3	32.05	0.270	8.641	1.36	20311	2.892	33.5
4	32.05	0.270	8.641	1.36	20311	2.892	33.5
5	32.05	0.278	8.906	1.50	20271	3.184	35.7
6	32.05	0.270	8.660	1.37	20309	2.913	33.6
7	32.05	0.288	9.229	1.67	20224	3.536	38.3
8	32.05	0.299	9.570	1.85	20174	3.907	40.8
9	32.05	0.312	10.01	2.08	20108	4.379	43.8
10	32.05	0.327	10.48	2.33	20038	4.888	46.6
11	32.05	0.354	11.33	2.78	19911	5.796	51.1
12	32.05	0.376	12.05	3.16	19805	6.552	54.4
13	32.05	0.405	12.98	3.65	19668	7.516	57.9
14	32.05	0.454	14.56	4.48	19434	9.115	62.6
15	32.05	0.496	15.90	5.19	19235	10.45	65.7
16	32.05	0.543	17.40	5.98	19012	11.90	68.4
17	32.05	0.609	19.51	7.09	18700	13.88	71.2
18	32.05	0.680	21.78	8.29	18362	15.94	73.2
19	32.05	0.760	24.34	9.64	17983	18.15	74.6
20	32.05	0.858	27.49	11.30	17517	20.72	75.4
21	32.05	0.961	30.79	13.04	17027	23.25	75.5
22	32.05	1.069	34.26	14.87	16512	25.71	75.0
23	32.0	1.19	38.4	17.05	15899	28.3	73.9

	5	8	0			8	
24	32.0 5	1.30 4	41.7 9	18.84	15396	30.3 7	72.7
25	32.0 5	1.47 8	47.3 8	21.78	14568	33.2 3	70.1
26	32.0 5	1.48 6	47.6 3	21.92	14530	33.3 5	70.0
27	32.0 5	1.63 5	52.4 0	24.43	13824	35.3 6	67.5
28	32.0 5	1.80 5	57.8 4	27.30	13017	37.2 1	64.3
29	32.0 5	1.96 2	62.8 8	29.96	12269	38.4 9	61.2
30	32.0 5	2.13 6	68.4 7	32.90	11442	39.4 2	57.6
31	32.0 5	2.15 0	68.9 1	33.14	11375	39.4 7	57.3
32	32.0 5	2.32 4	74.5 0	36.08	10548	39.8 5	53.5
33	32.0 5	2.33 5	74.8 3	36.26	10498	39.8 6	53.3
34	32.0 5	2.50 4	80.2 6	39.12	9694	39.7 1	49.5
35	32.0 5	2.67 8	85.8 4	42.07	8866	39.0 5	45.5
36	32.0 5	2.85 3	91.4 3	45.01	8038	37.8 8	41.4
37	32.0 5	3.02 7	97.0 2	47.96	7210	36.2 0	37.3
38	32.0 5	3.20 1	102. 6	50.90	6381	34.0 1	33.1
39	32.0 5	3.37 6	108. 2	53.85	5553	31.3 1	28.9
40	32.0 5	3.55 0	113. 8	56.79	4725	28.1 0	24.7
41	32.0 5	3.72 4	119. 4	59.74	3897	24.3 7	20.4
42	32.0 5	3.89 8	124. 9	62.68	3069	20.1 4	16.1
43	32.0 5	4.07 3	130. 5	65.63	2241	15.4 0	11.8
44	32.0 5	4.24 7	136. 1	68.57	1413	10.1 4	7.5
45	32.0 5	4.42 1	141. 7	71.52	584	4.37 7	3.1
46	32.0 5	4.54 4	145. 6	73.60	0	0.00 0	0.0