

FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

MOTOR OUTGOING SPECIFICATION

Model No. :YFD565M-Q04171

REV : 0

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1. 马达类型: 微型直流马达
2. 标准测试条件:
- 2-1 额定电压: 21.6V 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 15~35℃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: 0.40A max.
- 4-2 空载转速: 10300±10% rpm.
- 4-3 始动电压: 2.0Vmax
- 4-4 负载电流: 1.18±12%A .
- 4-5 负载转速: 9700±10% rpm.
- 4-6 测试负载: size25x59.5mm 的一字风叶(大约 / g-cm.)
- 4-7 性能曲线: 看马达性能曲线图
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.
6. 绝缘等级: B 级

CONFIRMED & ACCEPTED BY CUSTOMER

COMPANY , CHOP & SIGNA TURE

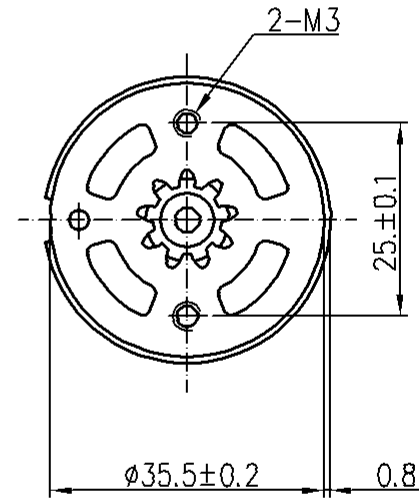
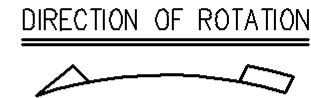
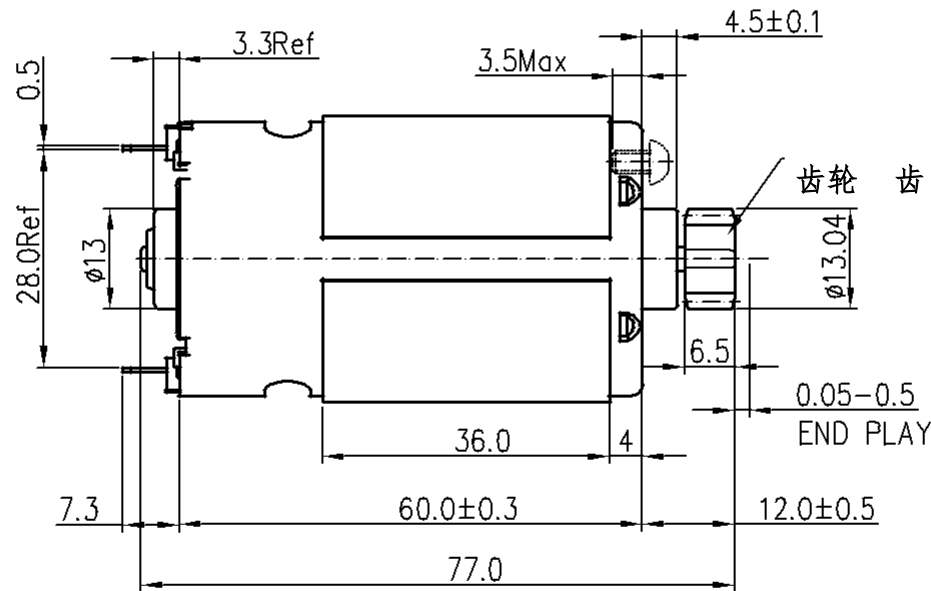
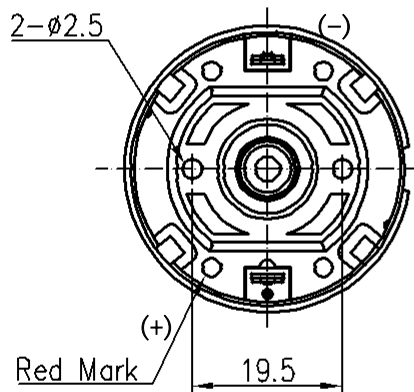
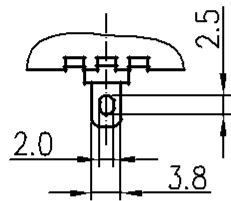
DATE :

PREPARED BY: YWjiang18/4-24

CHECKED BY: _____

APPROVED BY: _____

A		B		C		D		E		F		G		H	
REMARKS: 1) WHEN PRESS FITTING A GEAR,PULLEY OR ANYTHING ALIKE ONTO MOTOR OUTPUT SHAFT, DO PUSH THE OTHER SHAFT END VERTICALLY, DON'T PUSH THE REAR BRACKET 2) SOLDERING TEMPERATURE AND TIME MUST BE 360°(3SEC) OR 400°(2SEC). 3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN THE OTHER END OF THE SHAFT IS AGAINST THE REAR BRACKET END.						SERIAL NO : ISSUE NO : 									



					CONFIRMED & ACCEPTED BY CUSTOMER		TITLE: MOTOR OUTLINE		DES'D		YWjiang18/4-24	
					Company, Chop & Signature		PART NO: YFD565M-Q04171		CHK'D			
							YingFuDa Micro Motor		APP'D			
									SCALE		1:1 REV A0	
ITME					WAS		DATE		DES'D		APP'D	

Motor performance curves and characteristics:

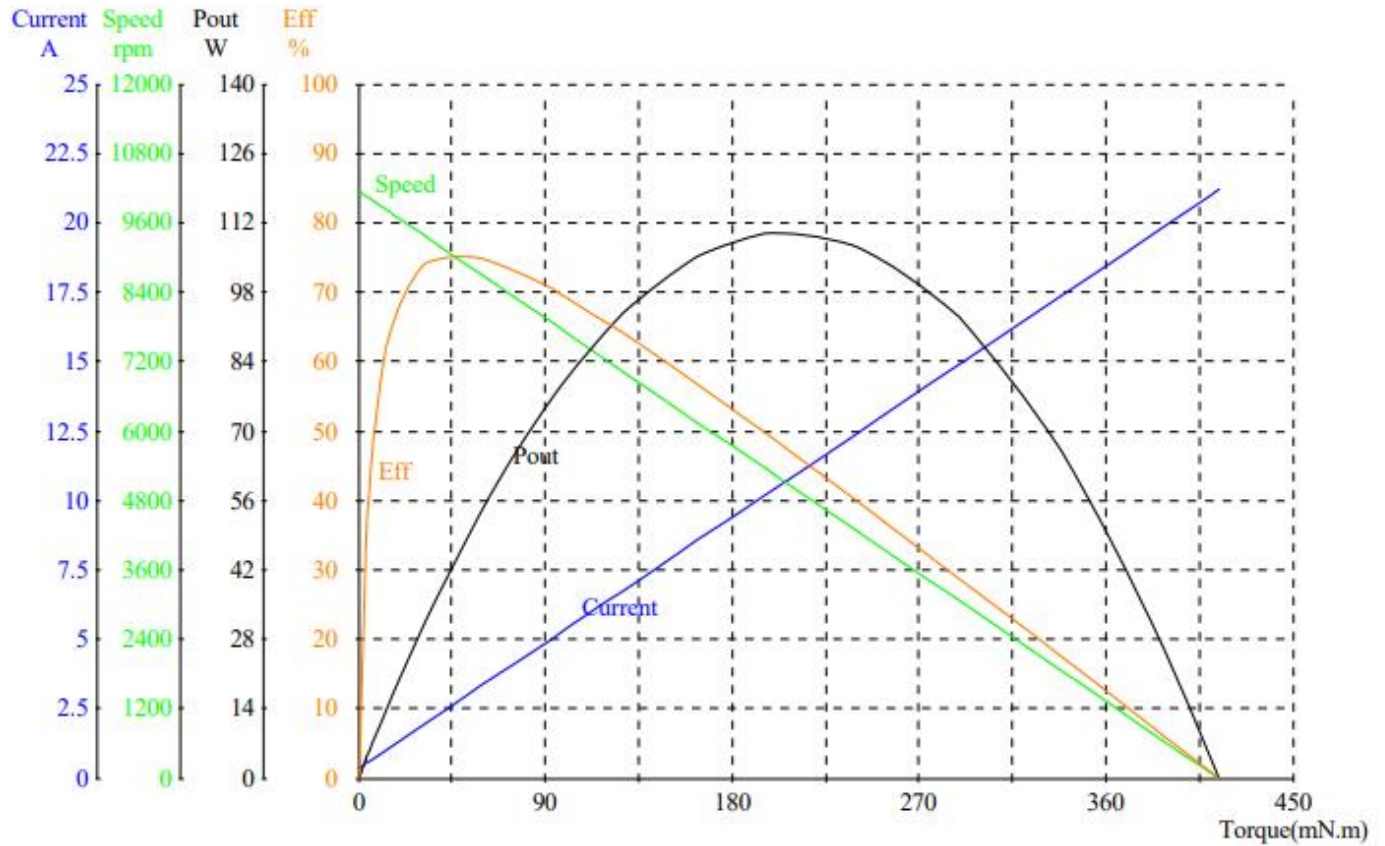
Voltage: 21.6V

Motor Type: YFD565M-Q04171

Tester: 001

Number: 202404180002

Test Data: 2024.04.18



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	21.66	0.560	12.11	3.9	10056	4.123	34.1
Rated							
Eff_max	21.66	3.425	74.13	59.2	8692	53.88	72.7
End	21.66	10.57	228.6	206.1	4375	94.40	41.3

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Tester:	001	Number:	202404180002
Test Data:	2024.04.18		

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	21.66	0.345	7.462	0.0	10148	0.000	0.0
2	21.66	0.541	11.71	3.9	10052	4.105	35.1
3	21.66	0.536	11.60	3.8	10055	4.000	34.5
4	21.66	0.541	11.71	3.9	10052	4.105	35.1
5	21.66	0.541	11.71	3.9	10052	4.105	35.1
6	21.66	0.531	11.49	3.7	10057	3.896	33.9
7	21.66	0.531	11.49	3.7	10057	3.896	33.9
8	21.66	0.541	11.71	3.9	10052	4.105	35.1
9	21.66	0.556	12.04	4.2	10046	4.417	36.7
10	21.66	0.611	13.23	5.3	10018	5.559	42.0
11	21.66	0.681	14.76	6.7	9984	7.003	47.5
12	21.66	0.822	17.81	9.5	9915	9.862	55.4
13	21.66	0.998	21.62	13.0	9829	13.38	61.9
14	21.66	1.265	27.39	18.3	9700	18.58	67.8
15	21.66	1.556	33.71	24.1	9558	24.12	71.5
16	21.66	1.938	41.98	31.7	9372	31.10	74.1
17	21.66	2.341	50.70	39.7	9176	38.14	75.2
18	21.66	2.833	61.37	49.5	8936	46.31	75.5
19	21.66	3.321	71.93	59.2	8698	53.91	75.0
20	21.66	3.889	84.24	70.5	8422	62.16	73.8
21	21.66	4.432	96.00	81.3	8157	69.43	72.3
22	21.66	5.015	108.6	92.9	7873	76.58	70.5
23	21.66	5.568	120.6	103.9	7604	82.72	68.6
24	21.66	6.187	134.0	116.2	7303	88.85	66.3
25	21.66	6.755	146.3	127.5	7026	93.79	64.1
26	21.66	7.394	160.1	140.2	6715	98.57	61.6
27	21.66	7.957	172.3	151.4	6441	102.1	59.2
28	21.66	8.570	185.6	163.6	6142	105.2	56.7
29	21.66	9.103	197.2	174.2	5883	107.3	54.4
30	21.66	9.666	209.4	185.4	5608	108.9	52.0
31	21.66	10.17	220.3	195.4	5364	109.7	49.8
32	21.66	10.71	231.9	206.1	5102	110.1	47.5
33	21.66	11.54	250.0	222.7	4695	109.5	43.8
34	21.66	12.37	268.0	239.3	4289	107.5	40.1
35	21.66	13.21	286.1	255.9	3883	104.0	36.4
36	21.66	14.04	304.2	272.4	3477	99.18	32.6
37	21.66	14.88	322.2	289.0	3071	92.93	28.8
38	21.66	15.71	340.3	305.6	2665	85.27	25.1
39	21.66	16.54	358.4	322.2	2259	76.20	21.3
40	21.66	17.38	376.4	338.8	1853	65.72	17.5
41	21.66	18.21	394.5	355.4	1447	53.82	13.6
42	21.66	19.05	412.5	372.0	1040	40.52	9.8
43	21.66	19.88	430.6	388.6	634	25.80	6.0
44	21.66	20.71	448.7	405.1	228	9.678	2.2
45	21.66	21.18	458.8	414.5	0	0.000	0.0