

FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

佛山市顺德区盈富达微电机有限公司

MOTOR SPECIFICATION

马达规格书

Model No.:YFD390-4244-63

REV:0

1. Motor Type:

马达类型

Small DC motor

微型直流马达

2. Standard Operating Conditions:

使用条件

2-1 Rated Voltage(额定电压)

7.4V DC CONSTANT between motor terminals(端子电压 7.4V)

2-2 Direction of Rotation(旋转方向)

CCW when viewed from output shaft side(从输出端视 CCW)

3. Measuring Conditions:

测试条件

3-1 Motor Position(马达放置状态)

Motor to be held with shaft horizontally(马达水平放置)

3-2 Power Supply(测试电源)

Regulated power supply which assures unquestionable measurement(确保测试没问题的稳压电源)

3-3 Environment Temperature and Humidity(环境温度及湿度)

The test is made in principle at a temperature between 15°C and 35°C and at a relative humidity '75% (一般在 15~35°C 及相对湿度 75%的环境下测试)

4. Electrical Characteristics (at initial stage after 30 seconds run-in):

电气特性(启动 30 秒后测试)

4-1 No Load Current(空载电流)

0.65A max.

4-2 No Load Speed(空载转速)

13200±10% rpm.

4-3 No Load Starting Voltage(始动电压)

1.2Vmax

4-4 Rated Load Current(负载电流)

3.34±12%A .

4-5 Rated Load Speed(负载转速)

10280±10% rpm.

4-6 Rated Load(测试负载)

Fan load with size 20x60 mm(approximately equivalent to / g-cm.)
20x00mm 的一字风叶(大约为 / g-cm)

4-7 Reference Characteristic Curve:
性能曲线

See Motor Performance Curves And Characteristics.
看马达性能曲线图

5. Mechanical Characteristics:

机械特性

5-1 External Apperance(外形)

See Motor Outline(看马达外形图)

5-2 Shaft End Play(虚位)

0.05~0.5 mm

5-3 Runout of Shaft Extension:

0.05 mm max.

轴突端跳动

CONFIRMED & ACCEPTED BY CUSTOMER

客户接受&确认

COMPANY, CHOP & SIGNATURE

盖章&签名

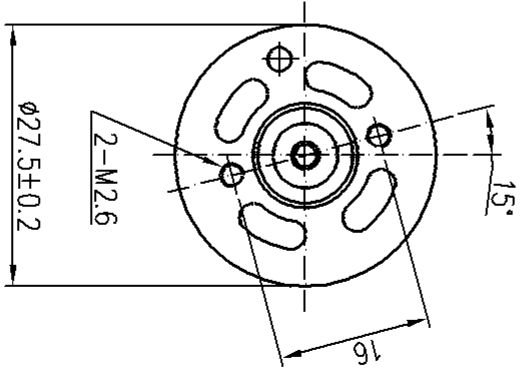
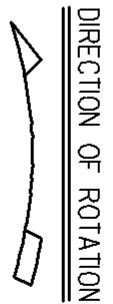
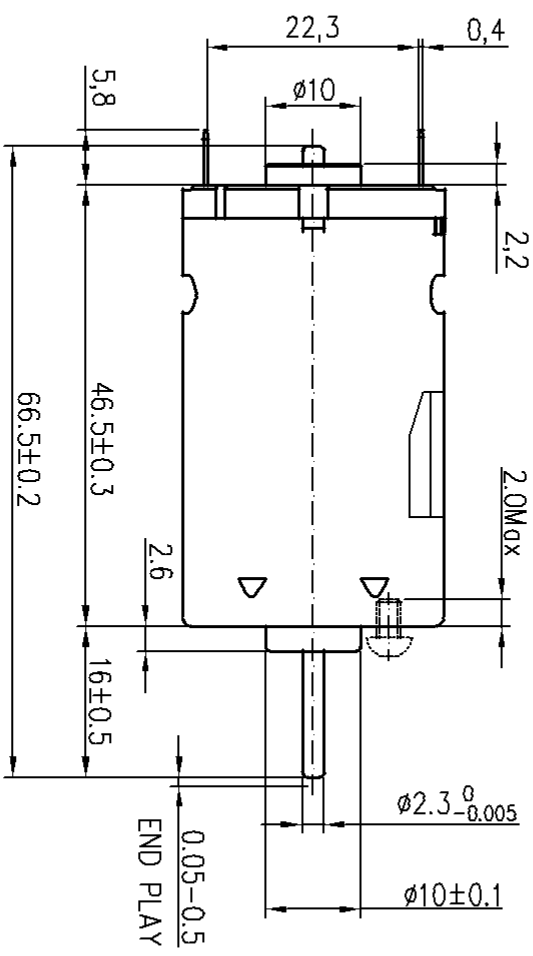
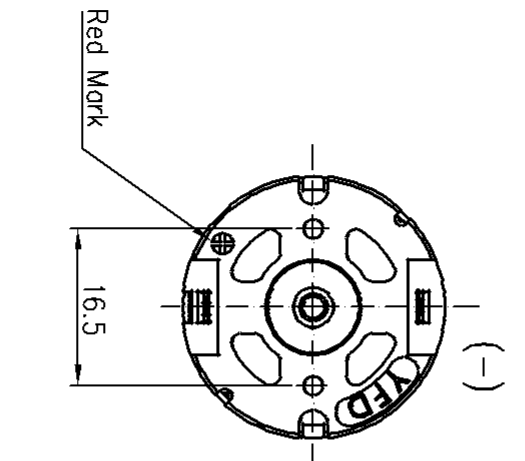
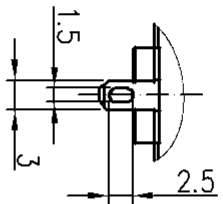
DATE :

PREPARED BY: YWjiang12/10 -24

CHECKED BY: _____

APPROVED BY: _____

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.



TITLE: MOTOR OUTLINE		DES'D		YWjiang12/10-24	
PART NO: YFD390-4244-63		CHK'D			
YingFuDa Micro Motor		APP'D			
		SCALE		1:1	
		REV		A0	
CONFIRMED & ACCEPTED BY CUSTOMER		DATE		DATE	
Company, Chop & Signature					
DATE		DES'D		APP'D	
WAS					
TIME					

Motor performance curves and characteristics:

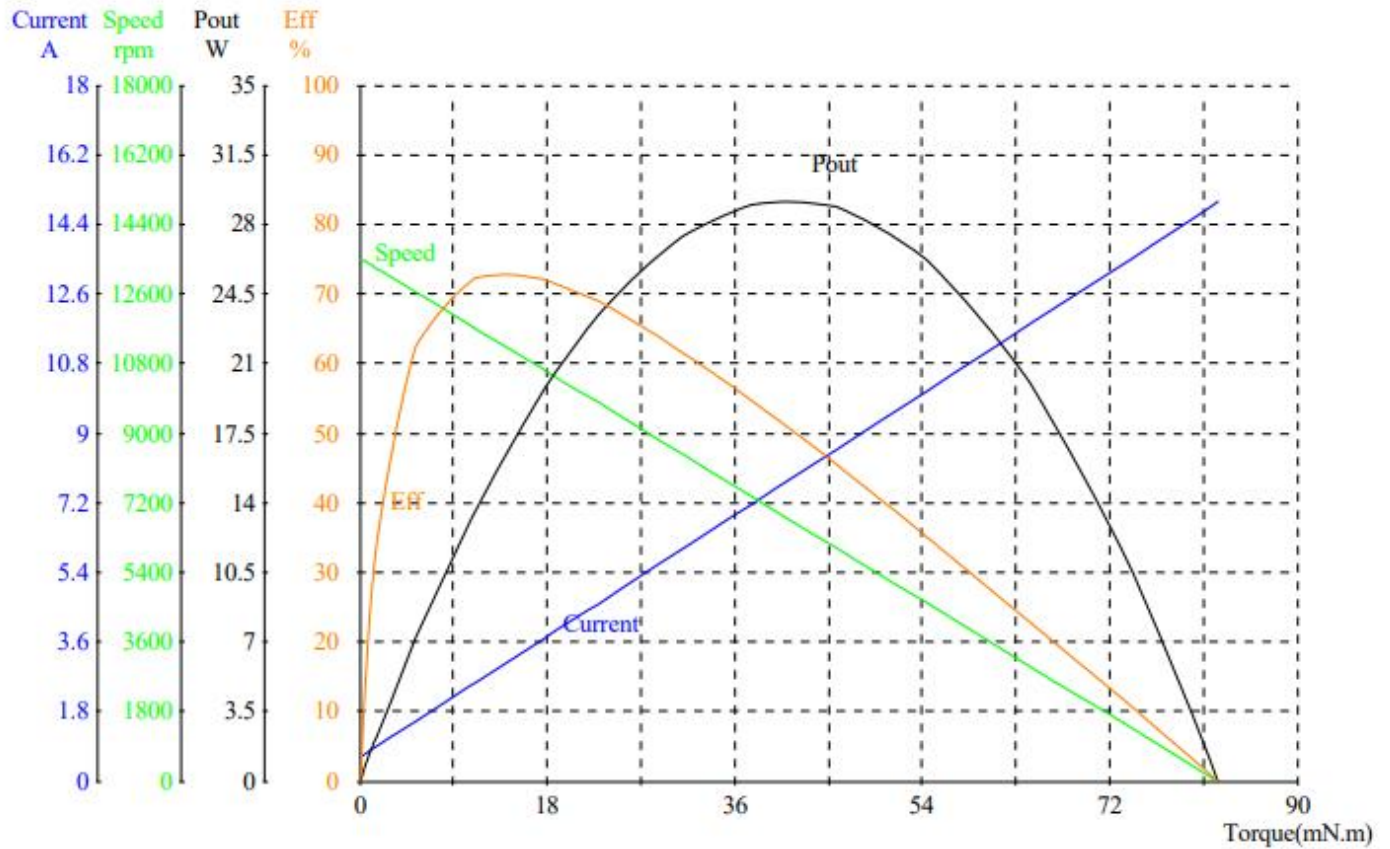
Voltage: 7.4V

Motor Type: YFD390-4244-63

Tester: 001

Number: 202410120003

Test Data: 2024.10.12



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	7.405	0.783	5.781	0.64	13340	0.894	15.5
Rated							
Eff_max	7.401	4.488	33.19	22.85	9746	23.32	70.3
End	7.396	9.231	68.28	47.84	5910	29.60	43.3

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Motor performance curves and characteristics:

Voltage:	7.4V	Motor Type:	YFD390-4244-63
Tester:	001	Number:	202410120003
Test Data:	2024.10.12		

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	7.403	0.610	4.519	0.00	13531	0.000	0.0
2	7.403	0.722	5.344	0.64	13426	0.900	16.8
3	7.403	0.818	6.053	1.19	13335	1.661	27.5
4	7.403	0.830	6.143	1.26	13324	1.758	28.6
5	7.403	0.847	6.272	1.36	13307	1.895	30.2
6	7.403	0.859	6.362	1.43	13297	1.991	31.3
7	7.403	0.889	6.581	1.60	13268	2.223	33.8
8	7.403	0.967	7.161	2.05	13194	2.832	39.5
9	7.403	1.241	9.185	3.62	12937	4.903	53.4
10	7.402	1.554	11.51	5.42	12641	7.174	62.3
11	7.402	1.951	14.44	7.70	12267	9.890	68.5
12	7.402	2.526	18.69	11.00	11726	13.50	72.2
13	7.402	2.547	18.85	11.12	11706	13.63	72.3
14	7.401	3.121	23.10	14.42	11165	16.85	73.0
15	7.401	3.136	23.21	14.50	11151	16.93	72.9
16	7.401	3.710	27.46	17.80	10611	19.77	72.0
17	7.400	3.864	28.59	18.68	10465	20.47	71.6
18	7.400	4.438	32.84	21.98	9924	22.84	69.5
19	7.400	4.590	33.96	22.85	9781	23.40	68.9
20	7.399	5.164	38.21	26.15	9240	25.30	66.2
21	7.399	5.424	40.13	27.64	8995	26.03	64.9
22	7.399	5.998	44.38	30.94	8454	27.38	61.7
23	7.398	6.237	46.15	32.31	8229	27.84	60.3
24	7.398	6.812	50.39	35.61	7687	28.66	56.9
25	7.397	7.152	52.90	37.56	7367	28.97	54.8
26	7.397	7.726	57.15	40.86	6827	29.20	51.1
27	7.397	8.007	59.22	42.47	6561	29.18	49.3
28	7.396	8.581	63.47	45.77	6020	28.85	45.5
29	7.396	8.942	66.13	47.84	5680	28.45	43.0
30	7.395	9.517	70.38	51.14	5139	27.52	39.1
31	7.395	10.09	74.62	54.44	4597	26.20	35.1
32	7.394	10.67	78.87	57.74	4056	24.52	31.1
33	7.394	11.24	83.11	61.04	3514	22.46	27.0
34	7.393	11.82	87.36	64.34	2973	20.03	22.9
35	7.393	12.39	91.60	67.64	2431	17.22	18.8
36	7.392	12.96	95.84	70.94	1890	14.04	14.6
37	7.392	13.54	100.1	74.24	1348	10.48	10.5
38	7.391	14.11	104.3	77.54	807	6.550	6.3
39	7.391	14.69	108.6	80.84	265	2.246	2.1
40	7.391	14.97	110.6	82.46	0	0.000	0.0