FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

MOTOR OUTGOING SPECIFICATION

Model No. :YFD390M-23500rpm(A86D -01020-0000R)
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: 12.0V 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 环境温度及湿度 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: 1.0A max.
   4-2 空载转速: 23500±7% rpm.
   4-3 始动电压: 1.2Vmax
   4-4 负载电流: 8.0A max .
   4-5 负载转速: 19800 rpm Min
   4-6 负载测试: size 50x20 的一字风叶(大约为 / g-cm.)
   4-7 参考性能曲线: 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: 0.10~0.4 mm
   5-3 轴突端跳动: 0.05 mm max.

6.绝缘等级: B 级

CONFIRMED & ACCEPTED BY CUSTOMER
COMPA NY , CHOP & SIGNA TURE
DATE :

PREPARED BY:YWjiang2/7-24 CHECKED BY: _____ APPROVED BY: _____

REMARKS:

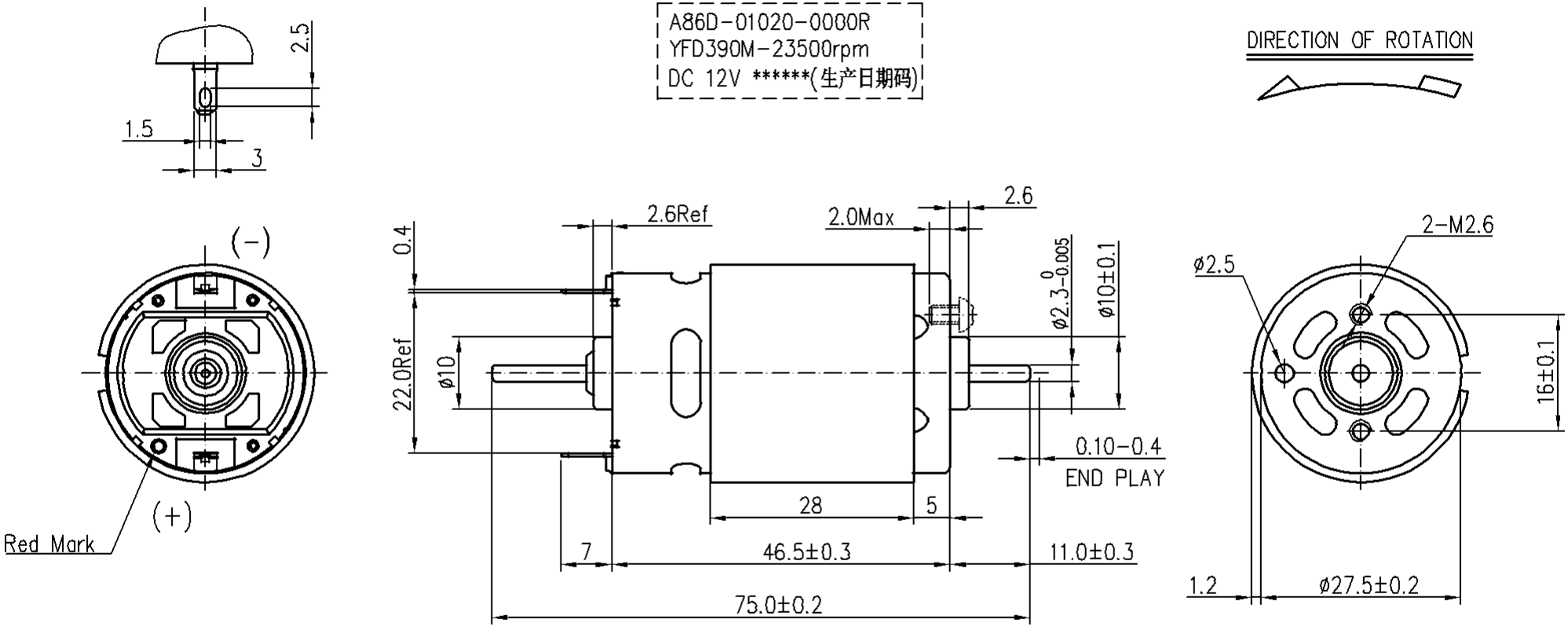
1) WHEN PRESS FITTING A GEAR,PULLEY OR ANYTHING ALIKE ONTO MOTOR OUTPUT SHAFT, DO PUSH THE OTHER SHAFT END VERTICALLY, DON'T PUSH THE REAR BRACKET
2) SOLDERING TERPERATURE AND TIME MUST BE 360℃(3SEC) OR 400℃(2SEC).
3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN THE OTHER END OF THE SHAFT IS AGAINST THE REAR BRACKET END.

SERIAL NO :		ISSUE NO :	

马达激光字唛:

A86D-01020-0000R
YFD390M-23500rpm
DC 12V ******(生产日期码)

DIRECTION OF ROTATION



ITME	WAS	DATE	DES'D	APP'D	DATE:

CONFIRMED & ACCEPTED BY CUSTOMER
Company, Chop & Signature

TITLE:	MOTOR OUTLINE	DES'D	YWjiang2/7-24
		CHK'D	
PART NO:	YFD390M-23500rpm (A86D-01020-0000R)	APP'D	
		SCALE	1:1 REV A0
YingFuDa Micro Motor			

Motor performance curves and characteristics:

Voltage: 12.0V

Motor Type: YFD390M-23500rpm

Tester: 001

Number: 202407030017

Test Data: 2024.07.03

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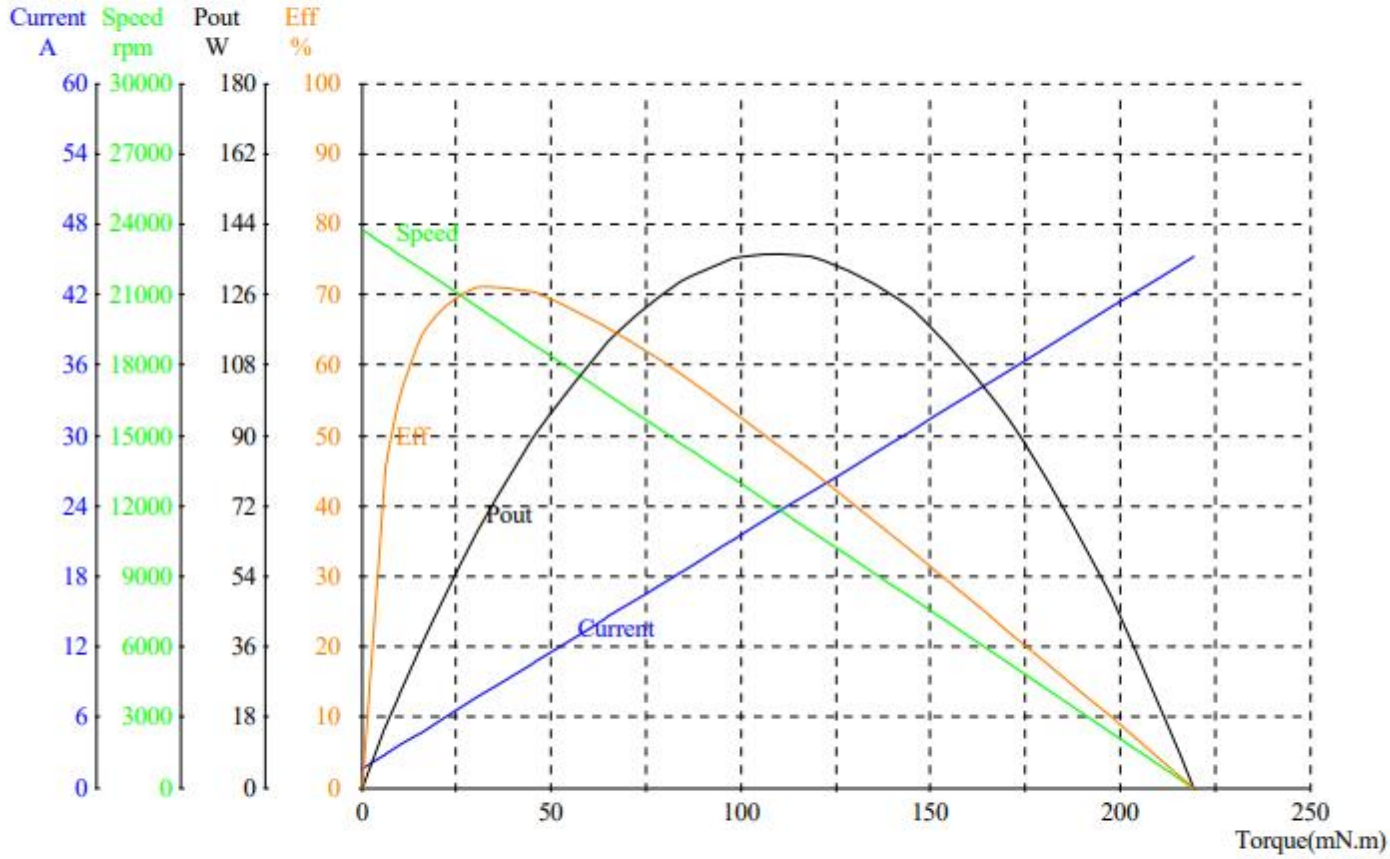

State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	12.02	2.658	31.93	6.6	23143	16.09	50.4
Rated							
Eff_max	12.01	10.46	125.6	46.1	18705	90.31	71.9
End	12.00	26.91	323.1	109.8	9988	114.9	35.5

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	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	12.02	1.589	19.10	0.0	23800	0.000	0.0
2	12.02	2.902	34.88	6.6	23085	15.95	45.7
3	12.02	2.882	34.64	6.5	23096	15.72	45.4
4	12.02	2.902	34.88	6.6	23085	15.95	45.7
5	12.02	2.902	34.88	6.6	23085	15.95	45.7
6	12.02	2.942	35.36	6.8	23062	16.42	46.4
7	12.02	2.981	35.84	7.0	23041	16.89	47.1
8	12.02	3.041	36.55	7.3	23008	17.59	48.1
9	12.02	3.240	38.94	8.3	22899	19.90	51.1
10	12.02	3.419	41.09	9.2	22803	21.96	53.4
11	12.02	3.737	44.92	10.8	22628	25.59	57.0
12	12.02	4.135	49.70	12.8	22411	30.03	60.4
13	12.02	4.732	56.87	15.8	22086	36.54	64.2
14	12.02	5.488	65.95	19.6	21673	44.48	67.4
15	12.02	6.443	77.42	24.4	21152	54.04	69.8
16	12.02	7.656	91.99	30.5	20490	65.43	71.1
17	12.01	8.969	107.8	37.1	19774	76.81	71.3
18	12.01	10.71	128.7	45.9	18822	90.40	70.2
19	12.01	10.76	129.2	46.1	18797	90.73	70.2
20	12.01	12.47	149.8	54.7	17864	102.3	68.3
21	12.01	14.22	170.7	63.5	16912	112.4	65.8
22	12.01	14.58	175.1	65.3	16714	114.3	65.3
23	12.01	16.32	196.0	74.1	15762	122.2	62.4
24	12.01	16.59	199.1	75.4	15618	123.3	61.9
25	12.00	18.33	220.1	84.2	14666	129.2	58.7
26	12.00	18.94	227.3	87.2	14337	130.9	57.6
27	12.00	20.68	248.2	96.0	13385	134.5	54.2
28	12.00	21.08	253.0	98.0	13166	135.1	53.4
29	12.00	22.83	273.9	106.8	12214	136.5	49.8
30	12.00	23.43	281.1	109.8	11884	136.6	48.6
31	12.00	25.18	302.0	118.6	10932	135.7	44.9
32	11.99	26.92	322.9	127.4	9979	133.1	41.2
33	11.99	28.67	343.8	136.1	9028	128.7	37.4
34	11.99	30.41	364.7	144.9	8074	122.5	33.6
35	11.99	32.16	385.6	153.7	7123	114.6	29.7
36	11.99	33.91	406.4	162.5	6169	104.9	25.8
37	11.99	35.65	427.3	171.2	5218	93.53	21.9
38	11.98	37.40	448.2	180.0	4264	80.38	17.9
39	11.98	39.14	469.0	188.8	3312	65.47	14.0
40	11.98	40.89	489.9	197.6	2360	48.81	10.0
41	11.98	42.64	510.7	206.3	1407	30.40	6.0
42	11.98	44.38	531.5	215.1	455	10.24	1.9
43	11.98	45.21	541.5	219.3	0	0.000	0.0