

FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

MOTOR OUTGOING SPECIFICATION

Model No. : YFD540M-23000rpm(A72B-09010-0000R)

REV : 0

1. Motor Type:

Small DC motor

2. Standard Operating Conditions:

2-1 Rated Voltage: 12.0V DC CONSTANT between motor terminals.

2-2 Direction of Rotation: CCW when viewed from output shaft side.

3. Measuring Conditions:

3-1 Motor Position: Motor to be held with shaft horizontally.

3-2 Power Supply: Regulated power supply which assures unquestionable measurement.

3-3 Environment Temperature and Humidity: The test is made in principle at a temperature between 15°C and 35°C and at a relative humidity 75%.

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

4-1 No Load Current: 1.6A max.

4-2 No Load Speed: 23000±10% rpm.

4-3 No Load Starting Voltage: 0.8Vmax

4-4 Rated Load Current: 14.5±12% A .

4-5 Rated Load Speed: 18400±10% rpm.

4-6 Rated Load: Fan load with size 25x60 mm(approximately equivalent to 708 g-cm.)

4-7 Reference Characteristic Curve: See Motor Performance Curves And Characteristics.

5. Mechanical Characteristics:

5-1 External Apperance: See Outline

5-2 Shaft End Play: 0.05~0.5 mm

5-3 Runout of Shaft Extension: 0.05 mm max.

CONFIRMED & ACCEPTED BY CUSTOMER

COMPANY, CHOP & SIGNATURE

DATE :

PREPARED BY: YWjiang28/6-18

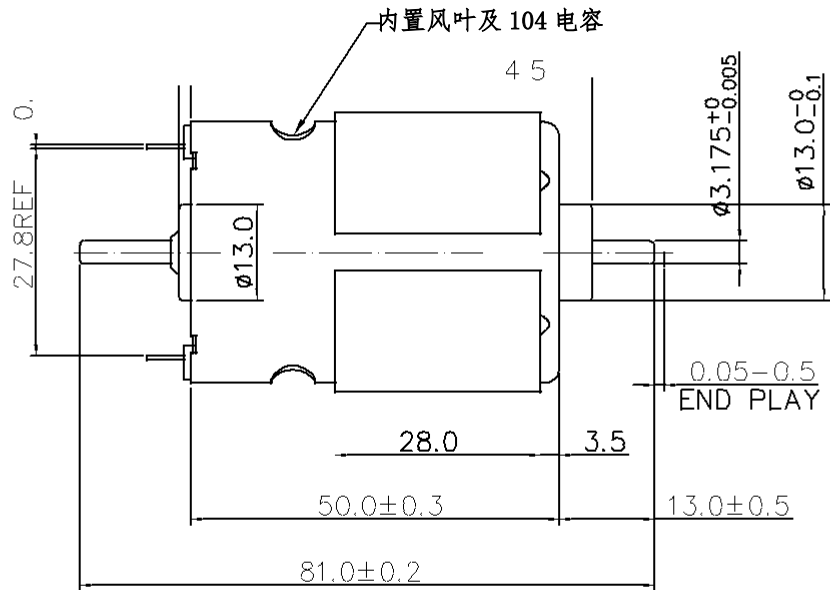
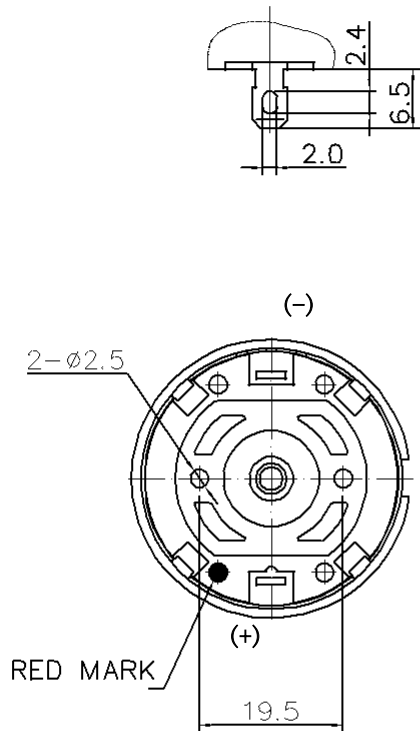
CHECKED BY: _____

APPROVED BY: _____

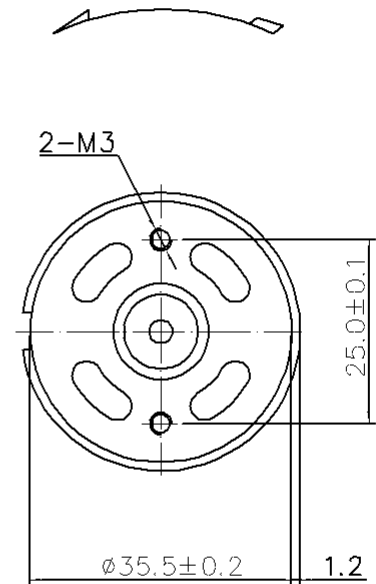
A	B	C	D	E	F	G	H
SERIAL NO :					ISSUE NO :		

5
4
3
2
1

5
4
3
2
1



DIRECTION OF ROTATION

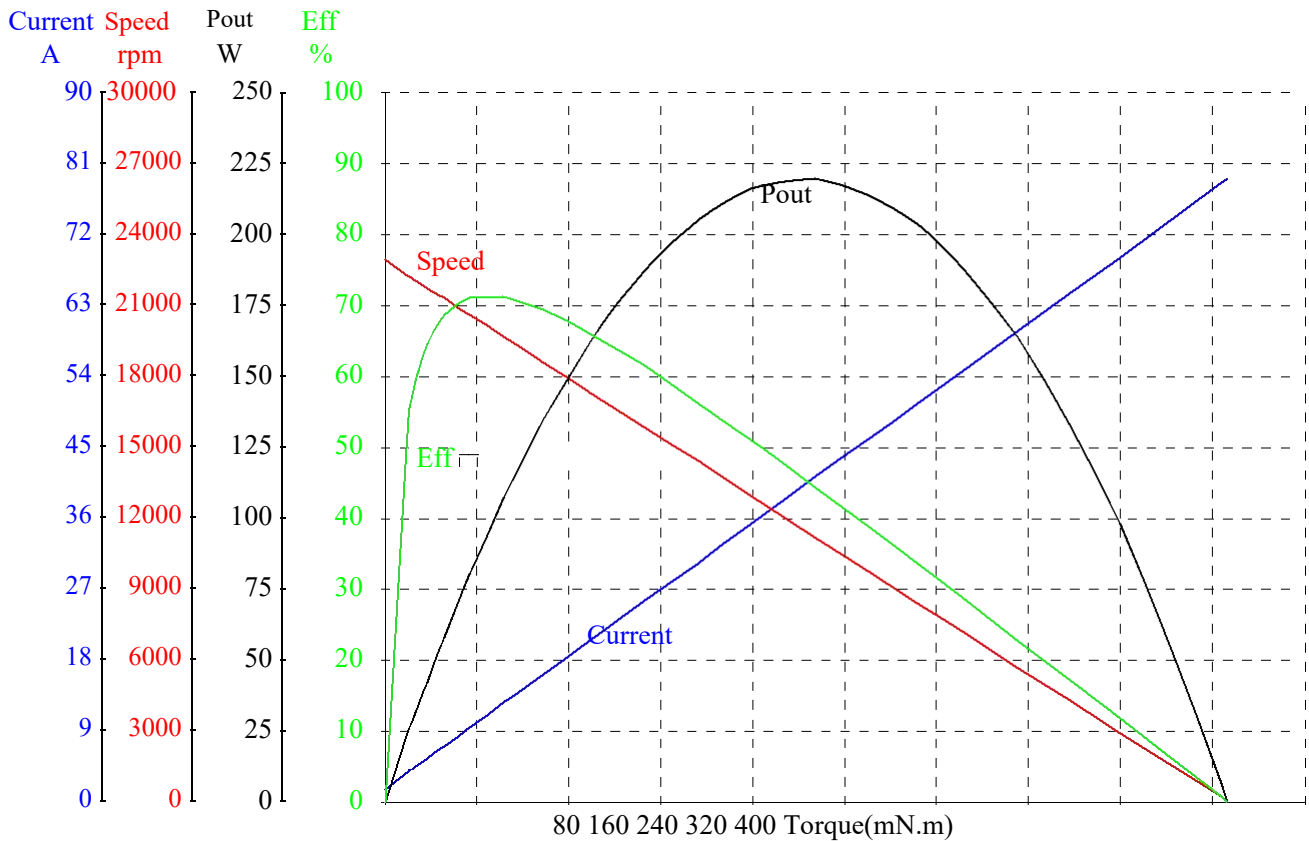


					CONFIRMED & ACCEPTED BY CUSTOMER		TITLE: MOTOR OUTLINE		DES'D YWjiang28/6-18	
					Company, Chop & Signature		PART NO: YFD540M, 23000rpm (A72B-09010-0000R)		CHK'D	
							YINGFUDA MICRO MOTOR		APP'D	
									SCALE 1:1	
									REV A0	
ITEM	WAS	DATE	DES'D	APP'D	DATE:					

FOSHAN SHUNDE YINGFUDA MICRO MOTOR

Motor performance curves and characteristics:

Customer: Voltage: 12.0V
ProductName A72B-09010-0000R Power rated:
Motor Type: YFD540 Tester: 001
Number: 180628a Test Data: 2018.06.29



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	12.02	4.456	53.58	10.8	22150	24.98	46.6
Rated							
Eff_max	12.02	12.47	149.9	52.0	19459	105.8	70.6
End	12.00	44.85	538.3	173.1	11097	201.2	37.4

FOSHAN SHUNDE YINGFUDA MICRO MOTOR

Motor performance curves and characteristics:

Customer:
ProductName A72B-09010-0000R
Motor Type: YFD540
Number: 180628a

Voltage: 12.0V
Power rated:
Tester: 001
Test Data: 2018.06.29

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	12.02	1.530	18.39	0.0	22875	0.000	0.0
2	12.02	3.810	45.80	10.8	22202	25.10	54.8
3	12.02	3.810	45.80	10.8	22202	25.10	54.8
4	12.02	3.895	46.82	11.2	22177	26.00	55.5
5	12.02	4.043	48.59	11.9	22132	27.58	56.7
6	12.02	4.233	50.88	12.8	22077	29.59	58.1
7	12.02	4.423	53.16	13.7	22021	31.58	59.4
8	12.02	4.697	56.46	15.0	21939	34.45	61.0
9	12.02	5.035	60.52	16.6	21839	37.96	62.7
10	12.02	5.437	65.35	18.5	21720	42.07	64.4
11	12.02	5.880	70.68	20.6	21589	46.56	65.9
12	12.02	6.366	76.52	22.9	21445	51.42	67.2
13	12.02	6.999	84.13	25.9	21258	57.65	68.5
14	12.02	7.717	92.76	29.3	21047	64.56	69.6
15	12.02	8.478	101.9	32.9	20821	71.72	70.4
16	12.02	9.365	112.6	37.1	20560	79.86	70.9
17	12.02	10.31	124.0	41.6	20279	88.32	71.2
18	12.02	11.37	136.7	46.6	19966	97.41	71.3
19	12.02	12.51	150.4	52.0	19629	106.9	71.1
20	12.02	13.57	163.1	57.0	19316	115.3	70.7
21	12.02	14.94	179.6	63.5	18911	125.7	70.0
22	12.02	16.19	194.6	69.4	18542	134.7	69.3
23	12.02	17.54	210.8	75.8	18143	144.0	68.3
24	12.02	19.10	229.6	83.2	17681	154.0	67.1
25	12.02	20.54	246.8	90.0	17256	162.6	65.9
26	12.02	22.06	265.1	97.2	16807	171.0	64.5
27	12.02	23.64	284.2	104.7	16338	179.1	63.0
28	12.02	25.33	304.5	112.7	15839	186.9	61.4
29	12.02	26.89	323.3	120.1	15377	193.4	59.8
30	12.02	28.58	343.6	128.1	14878	199.5	58.1
31	12.02	30.36	364.9	136.5	14353	205.1	56.2
32	12.02	32.15	386.5	145.0	13822	209.8	54.3
33	12.02	33.63	404.2	152.0	13385	213.0	52.7
34	12.02	35.17	422.8	159.3	12930	215.7	51.0
35	12.02	36.56	439.5	165.9	12518	217.4	49.5
36	12.02	38.09	457.8	173.1	12068	218.7	47.8
37	12.02	41.18	495.0	187.8	11153	219.2	44.3
38	12.02	44.28	532.2	202.4	10237	217.0	40.8
39	12.02	47.38	569.5	217.1	9322	211.9	37.2
40	12.02	50.47	606.7	231.8	8406	204.0	33.6
41	12.02	53.57	643.9	246.4	7491	193.3	30.0
42	12.02	56.67	681.1	261.1	6575	179.7	26.4
43	12.02	59.76	718.3	275.7	5660	163.4	22.7
44	12.02	62.86	755.6	290.4	4744	144.3	19.1
45	12.02	65.96	792.8	305.1	3829	122.3	15.4

FOSHAN SHUNDE YINGFUDA MICRO MOTOR

Motor performance curves and characteristics:

Customer:	Voltage:	12.0V
ProductName A72B-09010-0000R	Power rated:	
Motor Type: YFD540	Tester:	001
Number: 180628a	Test Data:	2018.06.29

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
46	12.02	69.05	830.0	319.7	2913	97.53	11.8
47	12.02	72.15	867.2	334.4	1998	69.95	8.1
48	12.02	75.25	904.4	349.1	1083	39.56	4.4
49	12.02	78.34	941.7	363.7	167	6.363	0.7
50	12.02	78.91	948.5	366.4	0	0.000	0.0