

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(型号):YFD540-735B-7V4

REV(版本):A0

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- | | |
|--|---|
| 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) | <u>7.4V</u> DC CONSTANT between motor terminals(端子电压 7.4V) |
| 2-2 Direction of Rotation(旋转方向) | <u>CW</u> when viewed from output shaft side(从输出端视顺时针方向) |
| 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) | <u>1.6A</u> max. |
| 4-2 No Load Speed(空载转速) | <u>17000±10%</u> rpm. |
| 4-3 No Load Starting Voltage(始动电压) | <u>0.8V</u> max |
| 4-4 Rated Load Current(负载电流) | <u>8.26±12%</u> A . |
| 4-5 Rated Load Speed(负载转速) | <u>14750±10%</u> rpm. |
| 4-6 Rated Load(测试负载) | Fan load with size 54x25 mm(approximately equivalent to 297.0g-cm.)
54x25mm 的一字风叶(大约为 297. 0g-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) | <u>0.05~0.5</u> mm |
| 5-3 Runout of Shaft Extension:
轴突端跳动 | <u>0.05</u> mm max. |
| 6. Insulation Grade(绝缘等级): | Class B |

CONFIRMED & ACCEPTED BY CUSTOMER

客户接受&确认

COMPANY, CHOP & SIGNATURE

盖章&签名

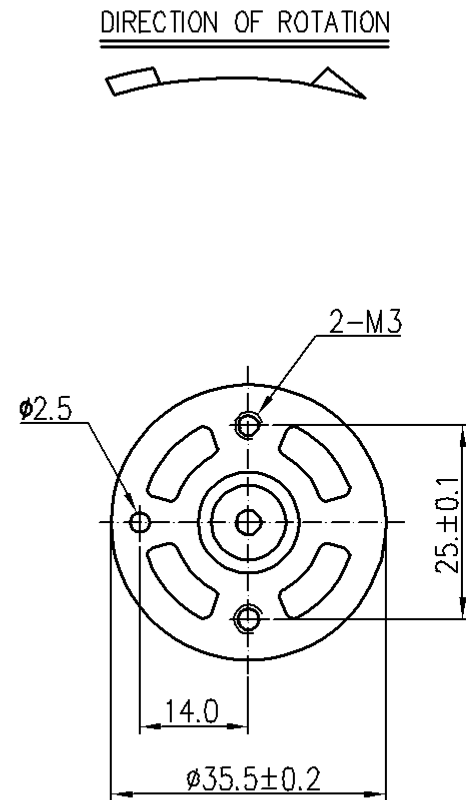
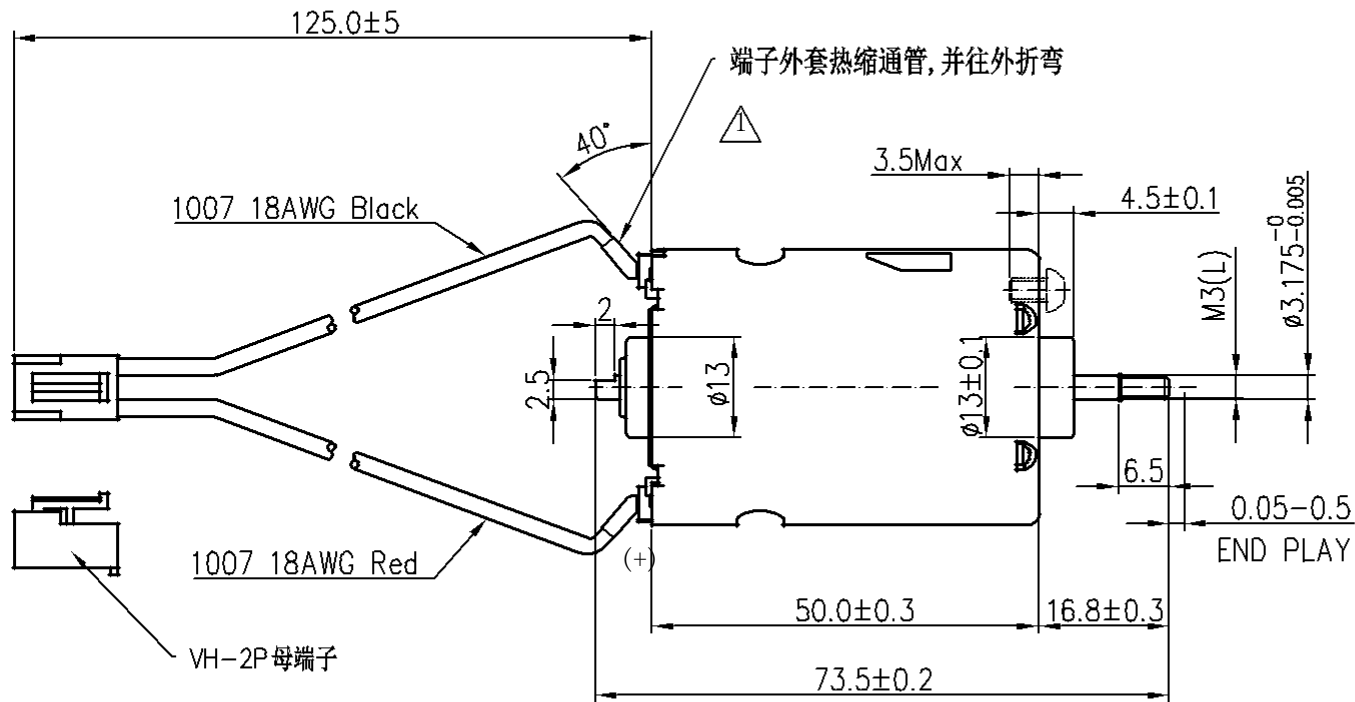
DATE :

PREPARED BY: YWjiang18/4-19

CHECKED BY: _____

APPROVED BY: _____

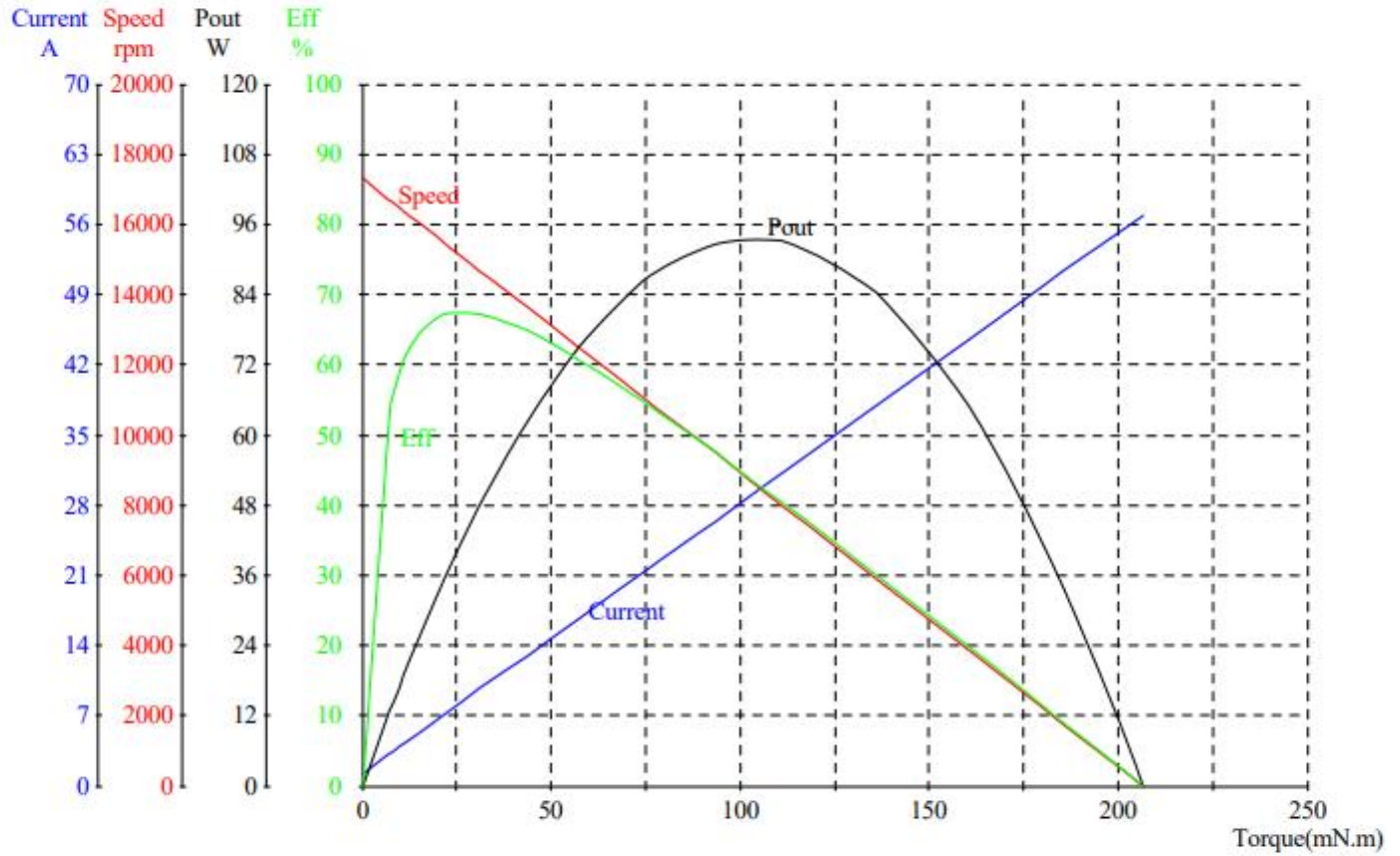
A		B		C		D		E		F		G		H	
REMARKS: 1) WHEN PRESS FITTING A GEAR,PULLEY OR ANYTHING ALIKE ONTO MOTOR OUTPUT SHAFT, DO PUSH THE OTHER SHAFT END VERTICALLY, DON'T PUSH THE REAR BRACKET 2) SOLDERING TERPERATURE AND TIME MUST BE 360(3SEC) OR 400(2SEC). 3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN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



CONFIRMED & ACCEPTED BY CUSTOMER						TITLE: MOTOR OUTLINE		DES'D YWjiang18/4-19	
Company, Chop & Signature								CHK'D	
						PART NO: YFD540-735B-7V4		APP'D	
△1 端子往外折弯, 增加热缩通套管 2019.5.23								SCALE 1:1 REV A1	
ITME WAS DATE DES'D APP'D DATE:						YingFuDa Micro Motor			

Motor performance curves and characteristics:

Customer:	Voltage: 7.4V
Product Name	Power rated:
Motor Type: YFD540-735B-7V4	Tester: 001
Test Data: 2019.4.18	



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	7.405	3.875	28.69	7.5	16464	12.89	44.9
Rated							
Eff_max	7.402	9.490	70.25	31.2	14528	47.50	67.6
Pout_max	7.390	31.86	235.4	111.2	7996	93.05	39.5
End	7.390	31.86	235.4	111.2	7996	93.05	39.5

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Test Data: 2019.4.18

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	7.407	1.239	9.175	0.0	17306	0.000	0.0
2	7.406	3.260	24.14	7.5	16678	13.10	54.2
3	7.406	3.260	24.14	7.5	16678	13.10	54.2
4	7.406	3.340	24.74	7.8	16653	13.60	55.0
5	7.406	3.448	25.54	8.2	16619	14.27	55.9
6	7.406	3.664	27.13	9.0	16552	15.60	57.5
7	7.406	3.933	29.13	10.0	16468	17.24	59.2
8	7.406	4.284	31.72	11.3	16360	19.36	61.0
9	7.405	4.418	32.72	11.8	16318	20.16	61.6
10	7.405	5.119	37.91	14.4	16100	24.27	64.0
11	7.405	5.685	42.09	16.5	15924	27.51	65.4
12	7.404	6.359	47.08	19.0	15716	31.26	66.4
13	7.404	7.086	52.46	21.7	15489	35.19	67.1
14	7.403	7.841	58.05	24.5	15254	39.13	67.4
15	7.403	8.622	63.83	27.4	15012	43.06	67.5
16	7.402	9.646	71.40	31.2	14693	48.00	67.2
17	7.402	10.72	79.38	35.2	14358	52.92	66.7
18	7.401	11.67	86.35	38.7	14065	56.99	66.0
19	7.400	13.01	96.31	43.7	13647	62.44	64.8
20	7.400	14.01	103.7	47.4	13337	66.19	63.8
21	7.399	15.41	114.0	52.6	12902	71.05	62.3
22	7.398	16.73	123.8	57.5	12491	75.20	60.7
23	7.397	18.40	136.1	63.7	11972	79.85	58.7
24	7.396	19.94	147.5	69.4	11495	83.52	56.6
25	7.395	21.37	158.0	74.7	11051	86.43	54.7
26	7.394	22.80	168.6	80.0	10608	88.85	52.7
27	7.393	24.47	180.9	86.2	10088	91.05	50.3
28	7.392	26.38	195.0	93.3	9495	92.74	47.6
29	7.391	28.02	207.1	99.4	8983	93.49	45.1
30	7.390	29.56	218.5	105.1	8507	93.60	42.8
31	7.389	31.20	230.6	111.2	7995	93.09	40.4
32	7.388	33.43	247.0	119.5	7303	91.35	37.0
33	7.386	35.66	263.4	127.7	6610	88.41	33.6
34	7.385	37.89	279.8	136.0	5917	84.27	30.1
35	7.384	40.12	296.2	144.3	5225	78.93	26.6
36	7.382	42.35	312.6	152.6	4532	72.39	23.2
37	7.381	44.58	329.0	160.8	3840	64.66	19.7
38	7.380	46.81	345.4	169.1	3147	55.72	16.1
39	7.378	49.04	361.8	177.4	2455	45.58	12.6
40	7.377	51.27	378.2	185.6	1762	34.25	9.1
41	7.376	53.49	394.6	193.9	1069	21.71	5.5
42	7.374	55.72	410.9	202.2	377	7.979	1.9
43	7.374	56.94	419.8	206.7	0	0.000	0.0