

FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

MOTOR OUTGOING SPECIFICATION

Model No. :YFD550M-N07261-76

REV : A0

- 1. Motor Type:** Small DC motor
- 2. Standard Operating Conditions:**
- 2-1 Rated Voltage: 18.0V DC CONSTANT between motor terminals.
- 2-2 Direction of Rotation: CW 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: 0.11A max.
- 4-2 No Load Speed: 2970±10% rpm.
- 4-3 No Load Starting Voltage: 2.0Vmax
- 4-4 Rated Load Current: 0.17±12%A .
- 4-5 Rated Load Speed: 2830±10% rpm.
- 4-6 Rated Load: Fan load with size30x80mm(approximately equivalent to 28.5 g-cm.)
- 4-7 Reference Characteristic Curve: See motor performance curves and characteristics.
- 5. Mechanical Characteristics:**
- 5-1 External Apperance: See Motor Outline
- 5-2 Shaft End Play: 0.05~0.5 mm
- 5-3 Runout of Shaft Extension: 0.05 mm max.
- 6.Insulation Grade:** Class B

CONFIRMED & ACCEPTED BY CUSTOMER

COMPANY, CHOP & SIGNATURE

DATE :

PREPARED BY: YWjiang27/7-22 CHECKED BY: _____ APPROVED BY: _____

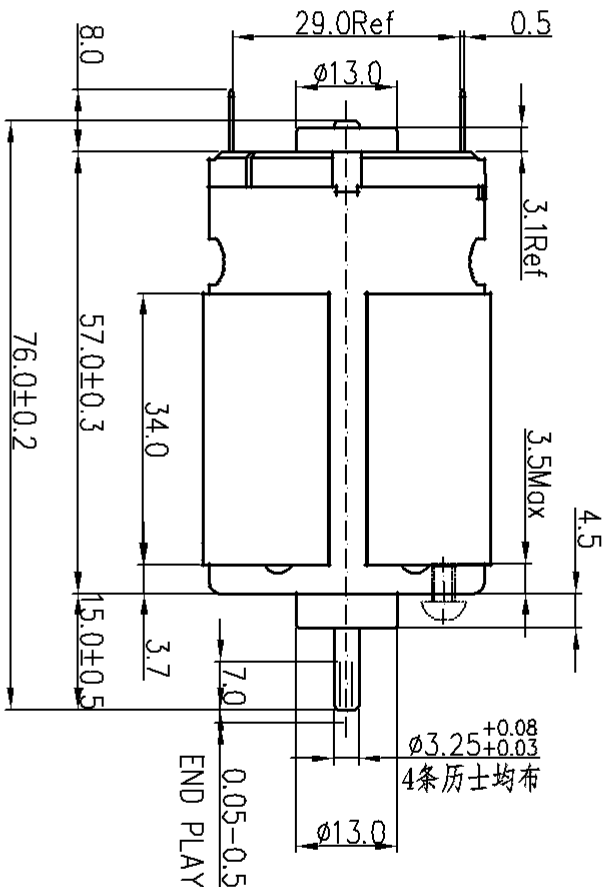
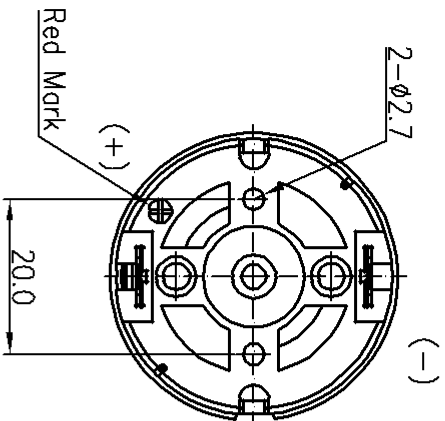
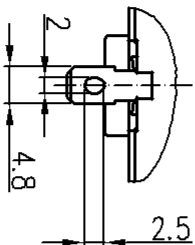
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REMARKS:

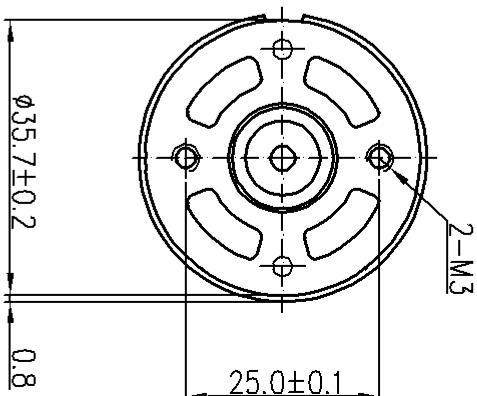
- 1) WHEN PRESS FITTING A GEAR/PULLEY OR ANYTHING ALIKE ONTO MOTOR OUTPUT SHAFT, DO PUSH THE OTHER SHAFT END VERTICALLY, DON'T PUSH THE REAR BRACKET
- 2) SOLDERING TEMPERATURE AND TIME MUST BE 360°(3SEC) OR 400°(2SEC).
- 3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN THE OTHER END OF THE SHAFT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

SERIAL NO :

ISSUE NO :



DIRECTION OF ROTATION



CONFIRMED & ACCEPTED BY CUSTOMER

Company, Chop & Signature

TITLE: MOTOR OUTLINE

PART NO: YFD550M-N07261-76

YingFuDa Micro Motor

DES'D YWjiang27/7-22

CHK'D

APP'D

SCALE 1:1 REV A0



TIME

WAS

DATE

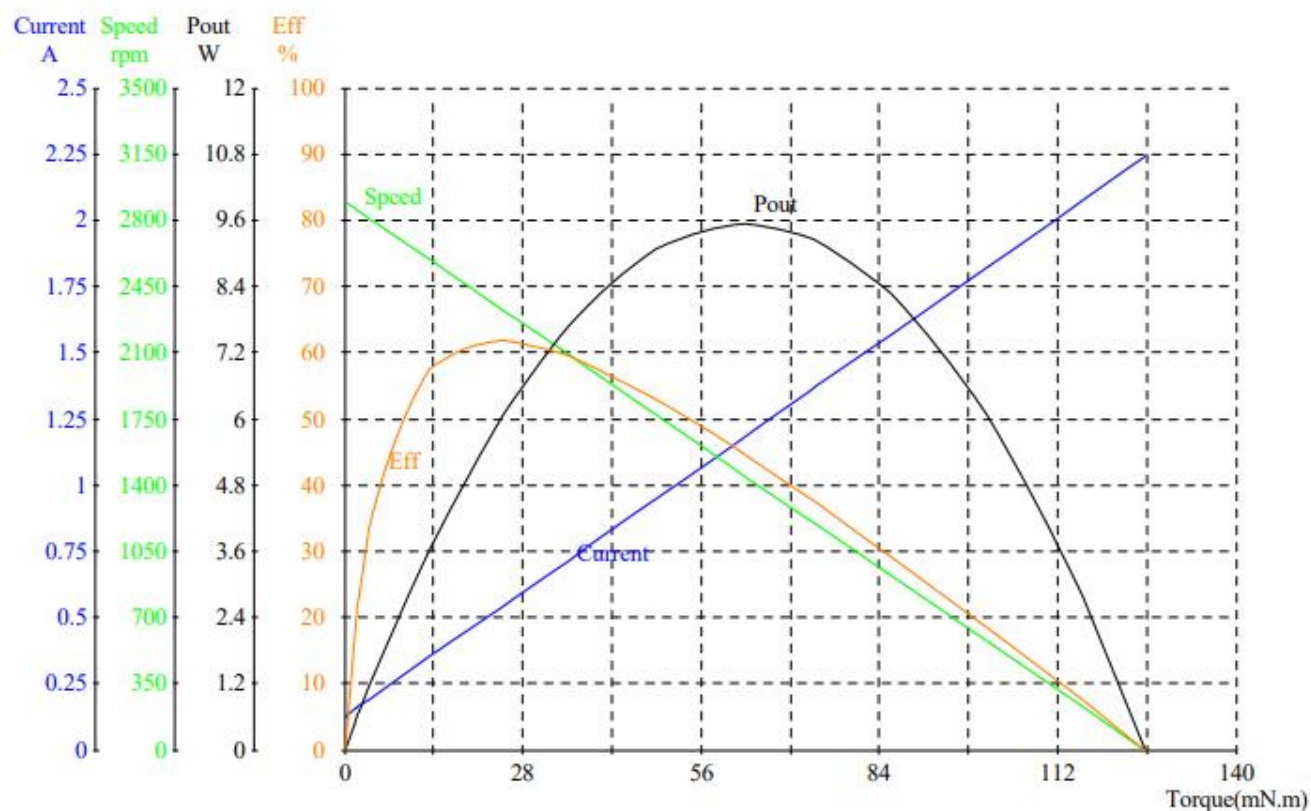
DES'D

APP'D

DATE:

Motor performance curves and characteristics:

Customer:	Voltage: 18.0V
Motor Type: YFD550M-N07261-76	Tester: 001
Number: 202207270006	Test Data: 2022.07.27



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	18.04	0.152	2.744	1.7	2866	0.510	18.6
Rated							
Eff_max	18.05	0.865	15.61	44.0	1885	8.675	55.6
End	18.04	1.609	28.98	85.7	915	8.208	28.3

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	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	18.04	0.126	2.268	0.0	2899	0.000	0.0
2	18.04	0.154	2.783	1.7	2860	0.509	18.3
3	18.04	0.154	2.783	1.7	2860	0.509	18.3
4	18.04	0.154	2.783	1.7	2860	0.509	18.3
5	18.04	0.156	2.813	1.8	2858	0.539	19.1
6	18.04	0.158	2.844	1.9	2856	0.568	20.0
7	18.04	0.161	2.904	2.1	2851	0.627	21.6
8	18.04	0.166	2.995	2.4	2844	0.715	23.9
9	18.04	0.173	3.117	2.8	2835	0.831	26.7
10	18.04	0.191	3.450	3.9	2810	1.147	33.3
11	18.04	0.220	3.966	5.6	2770	1.624	41.0
12	18.04	0.275	4.966	8.9	2694	2.511	50.6
13	18.04	0.351	6.330	13.4	2590	3.634	57.4
14	18.04	0.435	7.856	18.4	2475	4.775	60.8
15	18.04	0.457	8.241	19.7	2445	5.044	61.2
16	18.05	0.541	9.767	24.7	2329	6.031	61.8
17	18.05	0.578	10.42	26.9	2279	6.419	61.6
18	18.05	0.662	11.95	31.9	2163	7.232	60.5
19	18.05	0.714	12.88	35.0	2092	7.668	59.5
20	18.05	0.798	14.41	40.0	1977	8.284	57.5
21	18.05	0.865	15.61	44.0	1885	8.684	55.6
22	18.05	0.950	17.14	49.0	1769	9.081	53.0
23	18.05	1.031	18.62	53.9	1657	9.350	50.2
24	18.05	1.116	20.15	58.9	1541	9.507	47.2
25	18.05	1.186	21.41	63.1	1445	9.544	44.6
26	18.06	1.270	22.94	68.1	1329	9.478	41.3
27	18.06	1.355	24.47	73.2	1213	9.289	38.0
28	18.06	1.372	24.78	74.2	1189	9.235	37.3
29	18.06	1.457	26.31	79.2	1073	8.899	33.8
30	18.06	1.541	27.84	84.3	957	8.441	30.3
31	18.06	1.566	28.28	85.7	924	8.287	29.3
32	18.06	1.650	29.80	90.7	808	7.672	25.7
33	18.06	1.735	31.33	95.8	692	6.934	22.1
34	18.06	1.819	32.86	100.8	576	6.074	18.5
35	18.06	1.904	34.39	105.8	459	5.091	14.8
36	18.07	1.988	35.92	110.9	343	3.986	11.1
37	18.07	2.073	37.45	115.9	227	2.759	7.4
38	18.07	2.158	38.98	120.9	111	1.410	3.6
39	18.07	2.239	40.45	125.8	0	0.000	0.0