

FOSHAN SHUNDE YINGFUDA MICRO MOTOR CO.,LTD

MOTOR OUTGOING SPECIFICATION

Model No. : YFD775M-N0810-90

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: 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: 1.1A max.
- 4-2 No Load Speed: 13900±10% rpm.
- 4-3 No Load Starting Voltage: 2.0Vmax
- 4-4 Rated Load Current: 4.82±12%A .
- 4-5 Rated Load Speed: 12800±10% rpm.
- 4-6 Rated Load: Fan load with size 24.5x68.5x2.5mm
- 4-7 Reference Characteristic Curve: See motor performance curves and characteristics.
- 4-8 Vibration value: ≤4.9mm/S
- 5. Mechanical Characteristics:**
- 5-1 External Apperance: See Motor Outline
- 5-2 Shaft End Play: 0.12 mm Max
- 5-3 Runout of Shaft Extension: 0.05 mm Max.

CONFIRMED & ACCEPTED BY CUSTOMER

COMPANY, CHOP & SIGNATURE

DATE :

PREPARED BY: YWjiang12/8-22

CHECKED BY: _____

APPROVED BY: _____

Motor performance curves and characteristics:

Customer:

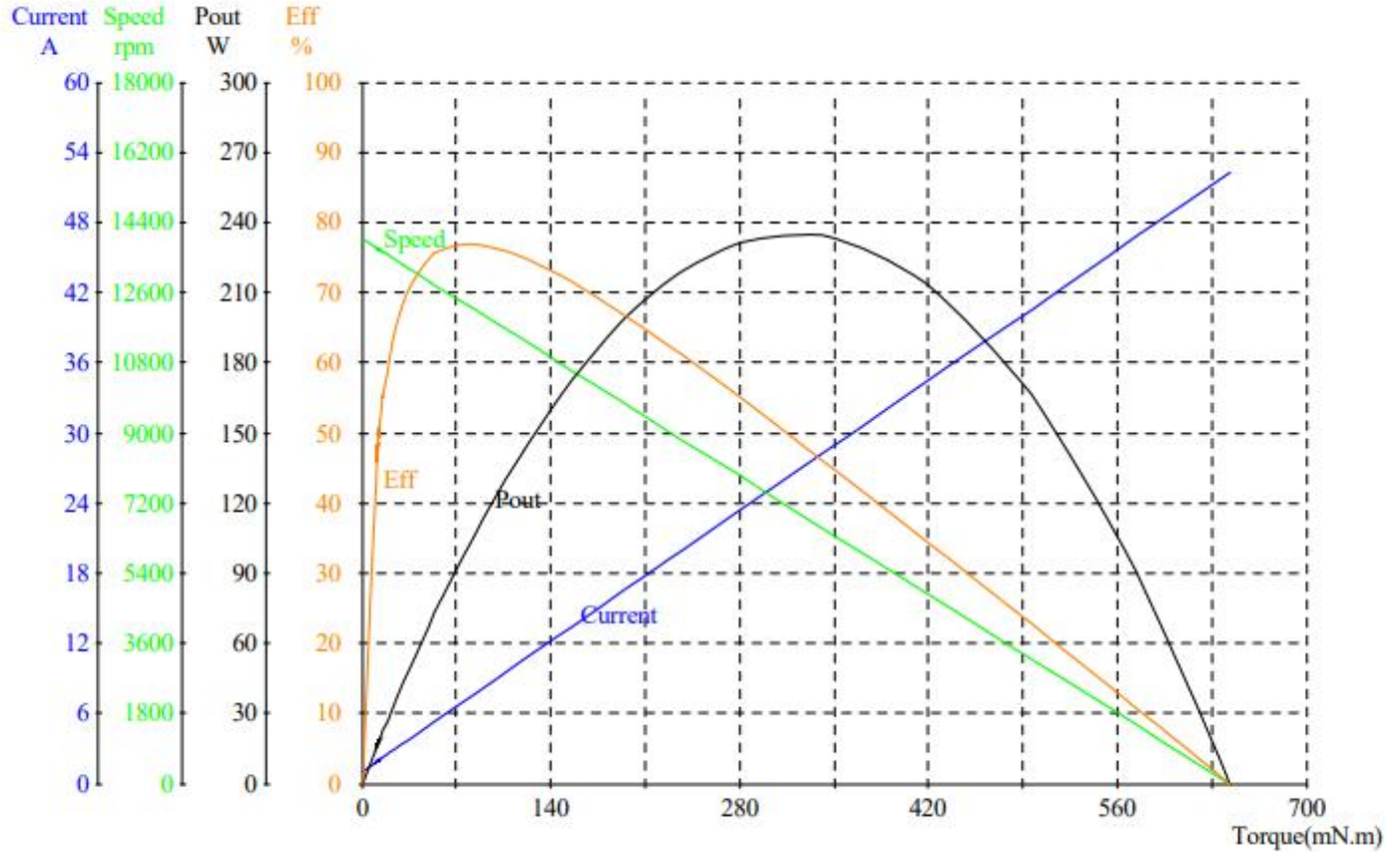
Voltage: 18.0V

Motor Type: YFD775M-N0810-90

Tester: 001

Number: 202208120003

Test Data: 2022.08.12



State	Voltage	Current	Pin	Torque	Speed	Pout	Eff
	V	A	W	mN.m	rpm	W	%
No_Load	18.03	1.843	33.22	9.7	13620	13.78	41.5
Rated							
Eff_max	18.03	8.305	149.5	92.8	11972	116.3	77.8
End	18.02	25.65	461.7	290.2	6333	192.4	41.7

FOSHAN SHUNDE YINGFUDA MICRO MOTOR

Motor performance curves and characteristics:

Customer: Voltage: 18.0V
Motor Type: YFD775M-N0810-90 Tester: 001
Number: 202208120003 Test Data: 2022.08.12

	Voltage	Current	Pin	Torque	Speed	Pout	Eff
Number	V	A	W	mN.m	rpm	W	%
1	18.03	1.015	18.31	0.0	13981	0.000	0.0
2	18.03	1.788	32.24	9.7	13770	13.98	43.4
3	18.03	1.876	33.82	10.8	13746	15.54	46.0
4	18.03	1.979	35.69	12.1	13718	17.38	48.7
5	18.03	1.924	34.68	11.4	13733	16.39	47.3
6	18.03	1.796	32.38	9.8	13768	14.13	43.6
7	18.03	1.963	35.40	11.9	13722	17.10	48.3
8	18.03	1.860	33.53	10.6	13751	15.26	45.5
9	18.03	2.091	37.70	13.5	13688	19.35	51.3
10	18.03	2.043	36.84	12.9	13701	18.50	50.2
11	18.03	1.979	35.69	12.1	13718	17.38	48.7
12	18.03	2.099	37.84	13.6	13685	19.49	51.5
13	18.03	2.059	37.13	13.1	13696	18.79	50.6
14	18.03	1.979	35.69	12.1	13718	17.38	48.7
15	18.03	2.075	37.41	13.3	13692	19.07	51.0
16	18.03	2.027	36.55	12.7	13705	18.22	49.9
17	18.03	2.067	37.27	13.2	13694	18.93	50.8
18	18.03	2.195	39.57	14.8	13659	21.17	53.5
19	18.03	2.282	41.15	15.9	13636	22.70	55.2
20	18.03	2.266	40.86	15.7	13640	22.42	54.9
21	18.03	2.266	40.86	15.7	13640	22.42	54.9
22	18.03	2.505	45.17	18.7	13575	26.58	58.8
23	18.03	2.609	47.04	20.0	13546	28.37	60.3
24	18.03	2.633	47.47	20.3	13541	28.78	60.6
25	18.03	2.864	51.63	23.2	13478	32.74	63.4
26	18.03	3.190	57.52	27.3	13388	38.27	66.5
27	18.03	3.430	61.83	30.3	13323	42.26	68.4
28	18.03	3.804	68.58	35.0	13220	48.45	70.6
29	18.03	4.258	76.76	40.7	13097	55.81	72.7
30	18.03	4.832	87.10	47.9	12940	64.90	74.5
31	18.03	5.342	96.29	54.3	12801	72.78	75.6
32	18.03	6.043	108.9	63.1	12610	83.31	76.5
33	18.02	6.704	120.8	71.4	12429	92.92	76.9
34	18.02	7.613	137.2	82.8	12182	105.6	77.0
35	18.02	8.409	151.6	92.8	11964	116.2	76.7
36	18.02	9.326	168.1	104.3	11715	127.9	76.1
37	18.02	10.13	182.6	114.4	11495	137.7	75.4
38	18.02	11.19	201.6	127.7	11206	149.8	74.3
39	18.02	12.27	221.0	141.2	10913	161.3	73.0
40	18.02	13.39	241.2	155.3	10606	172.5	71.5
41	18.02	14.43	260.0	168.4	10322	182.0	70.0
42	18.02	15.56	280.4	182.6	10014	191.4	68.3
43	18.01	16.69	300.6	196.7	9707	199.9	66.5
44	18.01	17.82	321.0	210.9	9398	207.5	64.7
45	18.01	18.85	339.5	223.8	9118	213.6	62.9
46	18.01	19.99	360.1	238.2	8805	219.6	61.0
47	18.01	21.01	378.4	251.0	8527	224.1	59.2
48	18.01	22.10	397.9	264.6	8231	228.0	57.3
49	18.01	23.12	416.3	277.4	7953	231.0	55.5