

YFD

YingFuDa Micro Motor Co Ltd

盈富达微电机有限公司

## **Motor outgoing specification**

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Messre: \_\_\_\_\_

Model No: YFD395-2270-68

Specification No: 1510301

Revision: A0

Date: 2015.10.30

<p><b>CONFIRMED &amp; ACCEPTED BY CUSTOMER</b> <b><i>COMPANY, CHOP &amp; SIGNATURE</i></b></p>
<p>DATE :</p>

PREPARED BY: YWjiang30/10-15 CHECKED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_.

## Motor outgoing specification

**Model No: YFD395-2270-68**

**Sample No: 1510301**

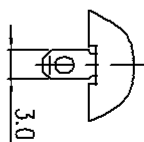
<b>1. Motor Type:</b>	Small DC motor
<b>2. Standard Operating Conditions:</b>	
2-1 Rated Voltage:	<u>32.0V</u> DC CONSTANT between motor terminals.
2-2 Direction of Rotation:	<u>CCW</u> when viewed from output shaft side.
<b>3. Measuring Conditions:</b>	
3-1 Motor Position:	Motor to be held with shaft 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℃ and 35℃ and at a relative humidity 75%.
<b>4. Electrical Characteristics (at initial stage after 30 seconds run-in):</b>	
4-1 No Load Current:	<u>0.17A</u> max.
4-2 No Load Speed:	<u>16200±10%</u> rpm.
4-3 No Load Starting Voltage:	<u>2.8V</u> max
4-4 Rated Load Current:	<u>0.73±12%</u> A .
4-5 Rated Load Speed:	<u>15012±10%</u> rpm.
4-6 Rated Load:	Fan load with size <u>50x15</u> mm(approximately equivalent to <u>91.9</u> g-cm.)
4-7 Reference Characteristic Curve:	See Motor Performance Curves And Characteristics.
4-8 Insulation Resistance	10 M ohm(min) (DC:500V) between motor terminal and motor metal housing
4-9 Dielectric Strength	AC 500V(50Hz to 60Hz) for one minute between motor terminal and motor metal housing
<b>5. Mechanical Characteristics:</b>	
5-1 External Apperance:	See Outline
5-2 Shaft End Play:	<u>0.05~0.5</u> mm
5-3 Runout of Shaft Extension:	<u>0.05</u> mm max.
<b>6.Life:</b>	
6-1 Test voltage	32V (Regulated DC power supply)
6-2 Load	Fan load equivalent to 91.9g.cm
6-3 Test cycle	30 min on, 30 min off is cycle
6-4 Duration	500 cycle
<b>7. Noise test Test</b>	70db(A) max/RMS,with following condition.No load at rated voltage, Set on sponge.Microphone at 30 cm aligned on the motor axis; background noise-level is 30dB(A)Max/RMS.
<b>8. Amplitude test</b>	≤4.9mm/s
<b>9. Insulation Grade:</b>	Class B

A B C D E F G H

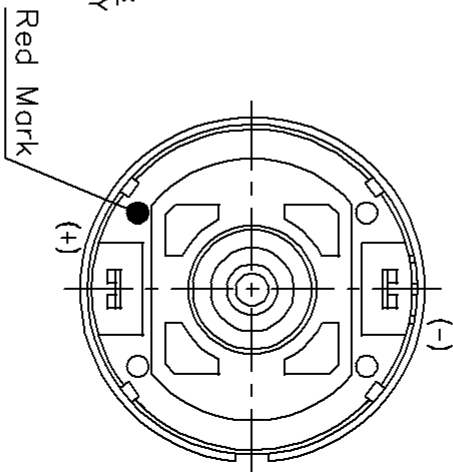
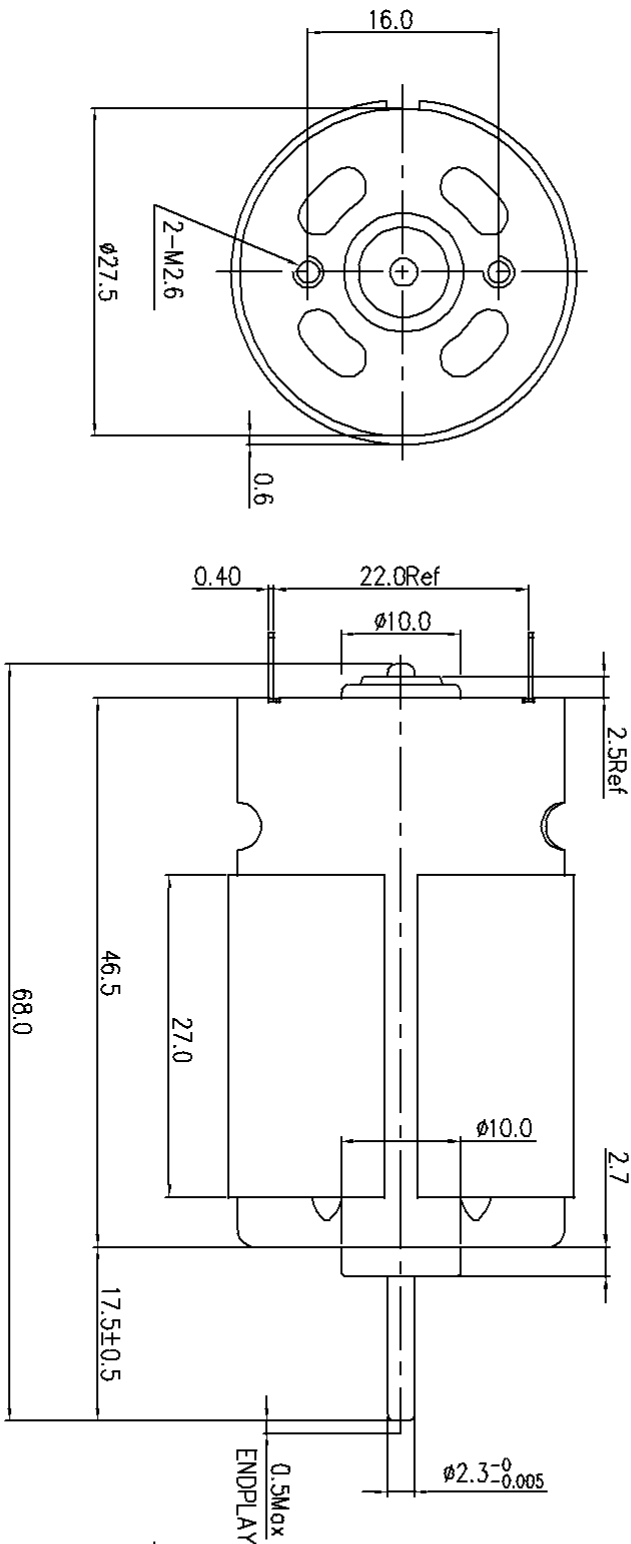
REMARKS:

- 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 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.

ISSUE NO:



DIRECTION OF ROTATION



CONFIRMED & ACCEPTED BY CUSTOMER

Company, Chop & Signature

TITLE: MOTOR OUTLINE

PART NO: YFD395-2270-68

YINGFUDA MICRO MOTOR

DES'D YW/tang30/10-15

CHK'D

APP'D

SCALE

REV A0

REV

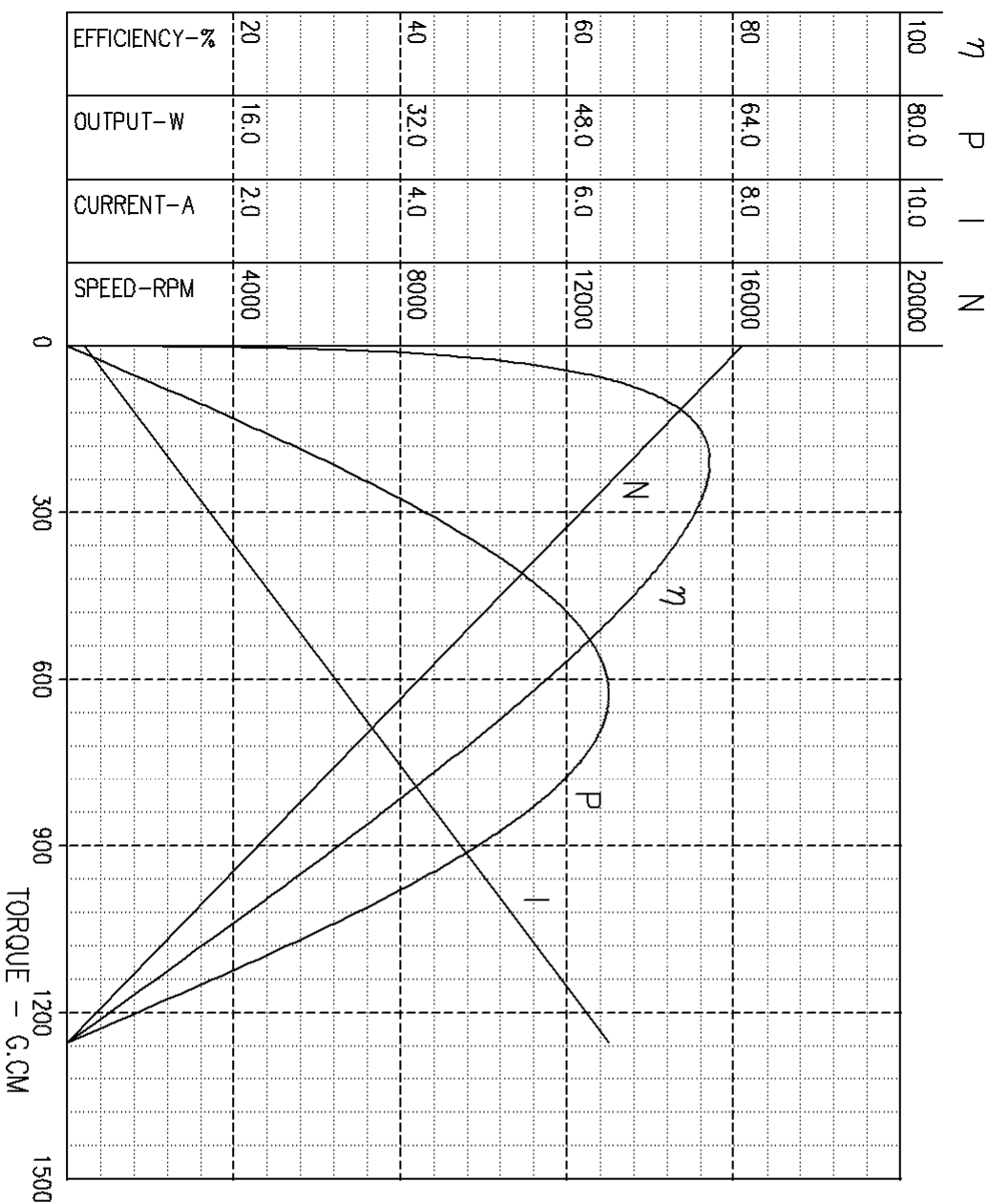
WAS

DATE DES'D APP'D

DATE:

# FOSHAN SHUNDE YINGFUDA MICRO MOTOR

## MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:



MODEL: YFD395-2270-68

OPERATING RANGE:12-36V

NOMINAL VOLTAGE: 32.0V

### PERFORMANCE

#### AT NO LOAD

SPEED = 16200 RPM  
CURRENT = 0.14 AMP

#### AT STALL EXTRAPOLATION

TORQUE = 1253.0 G.CM  
CURRENT = 6.5 AMP.

#### AT MAXIMUM EFFICIENCY:

EFFICIENCY = 77.4 %  
SPEED = 13860 RPM  
TORQUE = 190.0 G.CM  
CURRENT = 1.09 AMP.  
OUTPUT = 27.0 WATTS

#### AT MAXIMUM OUTPUT

SPEED = 8100 RPM  
TORQUE = 626.5 G.CM  
CURRENT = 3.25 AMP.  
OUTPUT = 52.0 WATTS

THE CURVES REPRESENT THE THEORETICAL PERFORMANCE  
OF THE SAMPLE ONLY.

PREPARED BY: YWJiang30/10-15

REVIEWED BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_