

YingFuDa Micro Motor Co Ltd

盈富达微电机有限公司

Product Specification

Customer Name

Model No.

YFD365V-2078-51

Specification No.

1806011

Revision

A1

Date issued

2020.3.18

CONFIRMED & ACCEPTED BY CUSTOMER
COMPANY , CHOP & SIGNATURE

DATE :

PREPARED BY: YWjiang18/3-20

CHECKED BY:

APPROVED BY:

Product Specification

Model No: YFD365V-2078-51

Sample No: 1806011

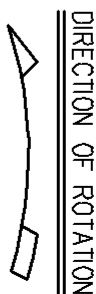
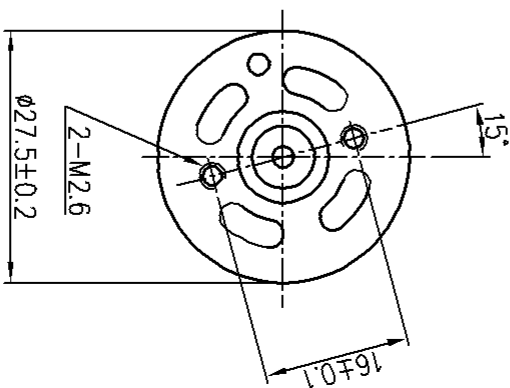
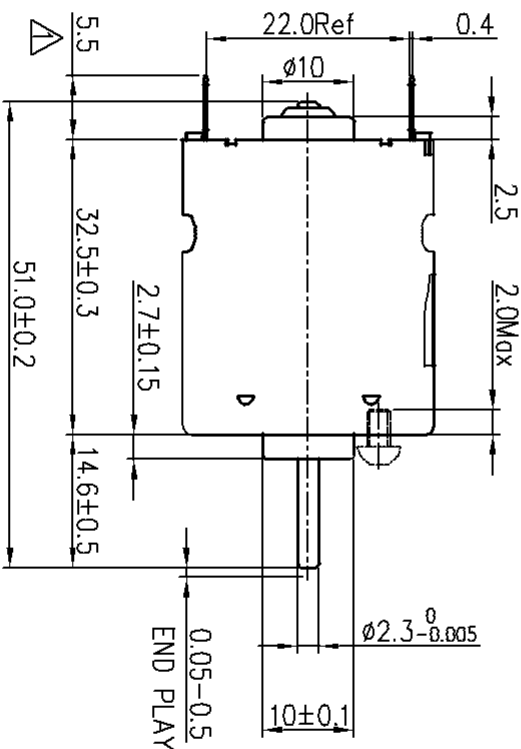
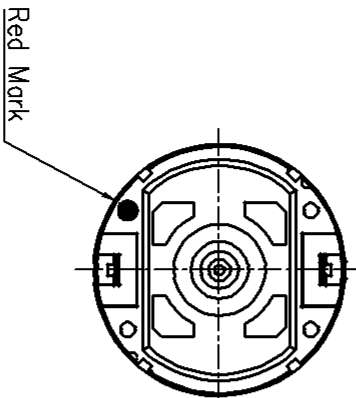
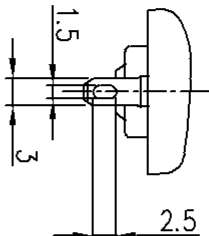
1. 马达类型: 微型直流马达
2. 标准测试条件:
 - 2-1 额定电压: 30.0V DC 向马达正负极端子输入的电压.
 - 2-2 旋转方向: CCW 从马达输出轴端视.
3. 测试条件:
 - 3-1 马达放置状态: 马达水平放置.
 - 3-2 测试电源: 确保测试没问题的稳压电源
 - 3-3 环境温度与湿度: 一般在 15°C-35°C 及相对湿度 75% 的环境下测试
4. 电气特性(启动 30 秒后测试):
 - 4-1 空载电流: 0.39A max.
 - 4-2 空载转速: 34400 ± 10% rpm.
 - 4-3 始动电压: 2.0Vmax
 - 4-4 负载电流: 1.77 ± 12%A .
 - 4-5 负载转速: 25280 ± 10% rpm.
 - 4-6 测试负载: 15x40 mm 的一字风叶(大约 182.0g-cm.)
 - 4-7 性能曲线: 看马达性能曲线图
 - 4-8 绝缘电阻: 马达端子与外壳之间, 施加 DC500V 电压, 绝缘阻值不低于 10MΩ
 - 4-9 介电强度: 马达端子与外壳之间施加一分钟 AC500V/1mA (50Hz 或 60Hz) 电压
 - 4-10 振动值: ≤4.9mm/s
5. 机械特性:
 - 5-1 外形: 看马达外形图
 - 5-2 虚位: 0.05~0.5 mm
 - 5-3 轴突端跳动: 0.05mm max. 输出轴 2/3 处, 用百分表测量
 - 5-4 马达重量: 52.7 g (Approx)
6. 寿命测试:
 - 6-1 测试电压: 30.0V (直流稳压电源)
 - 6-2 负载 Torque: 负载风叶大约 90.0 g. cm
 - 6-3 负载 Current: 1.36A max
 - 6-4 负载 Speed: 28800 ± 10% rpm
 - 6-5 测试周期及条件: 15 分钟开, 15 分钟停为一个周期
 - 6-6 要求满足的测试周期: 600 cycle
7. 噪音测试: 马达放在在海棉上, 拾音器距离马达输出轴 30cm 处, 在 无载条件下接入额定电压. 机械噪音不超过 68dB, 最大背景噪音小于 30dB
8. 其它特性:
 - 8-1 绝缘等级: Class F
 - 8-2 ECP Requirement: Motor conform to 2011/65/EU RoHS Directive

A B C D E F G H

SERIAL NO :

ISSUE NO :

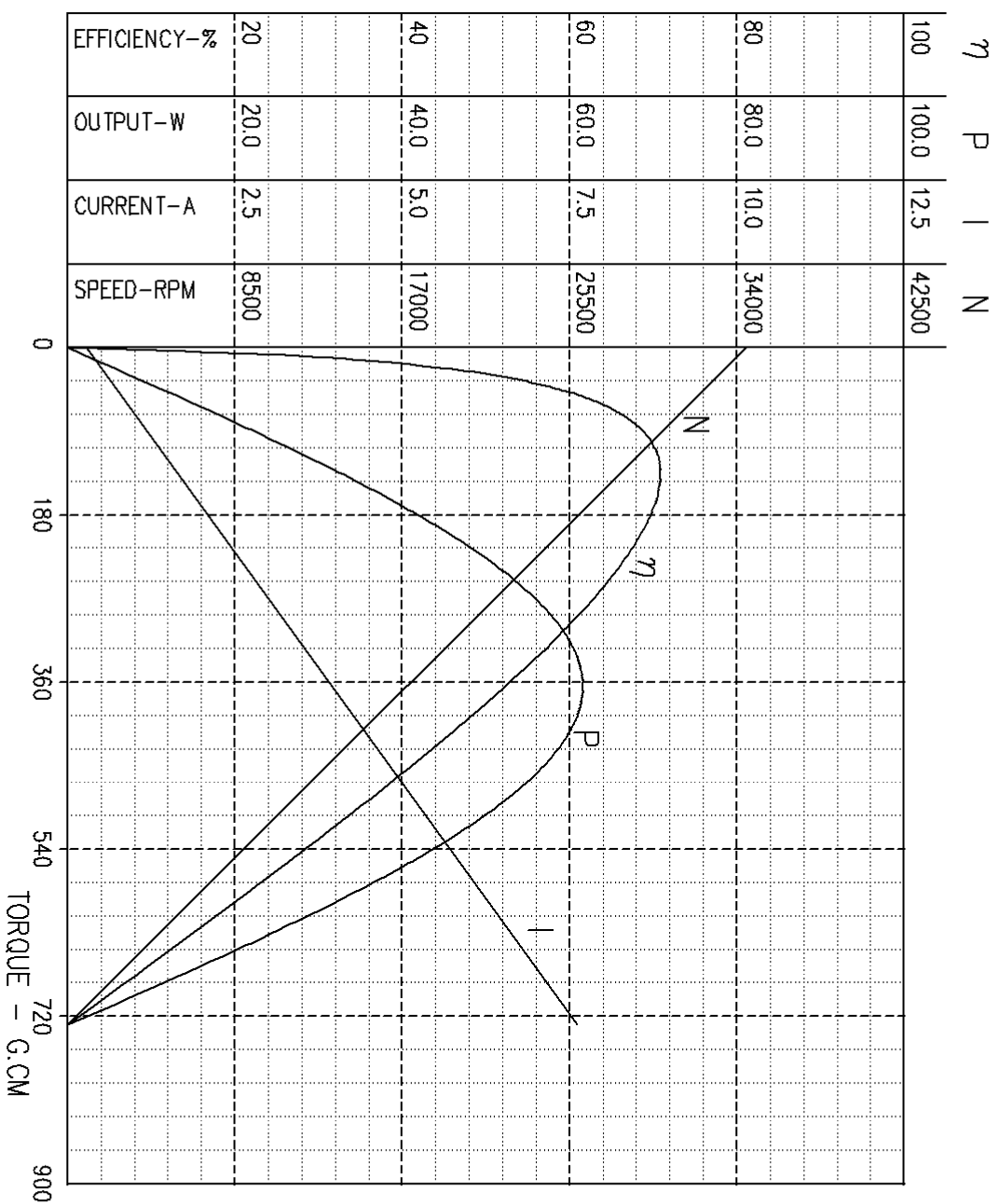
REMARKS:
1) WHEN PRESS FITTING A GEAR,PULLEY OR ANYTHING ALIKE ONTO MOTOR OUTPUT SHAFT, DO PUSH THE OTHER SHAFT END VERTICALLY, DON'T PUSH THE REAR BRACKET
2) SOLDERING TEMPERATURE AND TIME MUST BE 360°(3SEC) OR 400°(2SEC).
3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN THE OTHER END OF THE SHAFT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



						CONFIRMED & ACCEPTED BY CUSTOMER		TITLE: MOTOR OUTLINE		DES'D	Ywjiang2/6-18
						Company, Chop & Signature				CHK'D	
								PART NO: YFD365V-2078-51		APP'D	
								YingFuDa Micro Motor		SCALE	1:1
										REV	A0
△	端子伸出长度由7.0mm 变更为5.5mm	DATE	2020.4.2	DES'D		APP'D					
TIME	WAS	DATE		DES'D		APP'D					

FOSHAN SHUNDE YINGFUDA MICRO MOTOR

MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:



MODEL: YFD365V-2078-51

OPERATING RANGE 6.0-30V

NOMINAL VOLTAGE: 30.0V

PERFORMANCE

AT NO LOAD

SPEED = 34482 RPM
CURRENT = 0.24 AMP

AT STALL EXTRAPOLATION

TORQUE = 729.3 G.CM
CURRENT = 7.62 AMP.

AT MAXIMUM EFFICIENCY:

EFFICIENCY = 71.0 %
SPEED = 26758 RPM
TORQUE = 136.9 G.CM
CURRENT = 1.76 AMP.
OUTPUT = 37.6 WATTS

AT MAXIMUM OUTPUT

SPEED = 16471 RPM
TORQUE = 364.6 G.CM
CURRENT = 4.0 AMP.
OUTPUT = 61.6 WATTS

THE CURVES REPRESENT THE THEORETICAL PERFORMANCE OF THE SAMPLE ONLY.