



马达出厂规格 (MOTOR OUTGOING SPECIFICATION)

客户(CUSTOMER): _____
 型号(MODEL) : RBE. 102036-004
 版本号(REV.) : A
 日期(DATE) : 2018. 01. 24

客户确认/日期 CONFIRM BY CUSTOMER/DATE	
编制(PREPARED): Jone	
审核(CHECKED):	
批准(APPROVED):	

1. 适用范围(SCOPE)

本文规定的测试条件和技术要求适用于深圳市中驱电机有限公司交付的 RBE. 102036-004 直流无刷电机。

This document defines the test standard and specification for RBE. 102036-004 BLDC motor which is delivered by CHINA DRIVE MOTORS(SHENZHEN) CO., LTD.

2. 标准工作条件(STANDARD OPERATING CONDITIONS)

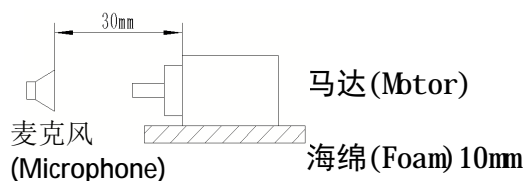
- | | |
|----------------------------------|---|
| 2.1 额定电压(Rated Voltage): | DC 36V |
| 2.2 运行条件(Operating Condition): | 温度(Temp.): -10°C~+40°C
相对湿度(Relative Humidity): 5~85% |
| 2.3 保存条件(Storage Condition): | 温度(Temp.): -20°C~+40°C
相对湿度(Relative Humidity): 5%~90% |
| 2.4 旋转方向(Direction of Rotation): | CCW&CW |

3. 电气性能(ELECTRICAL CHARACTERISTIC)

- | | | |
|---------------------------------------|--------|------|
| 3.1 空载电流(No Load Current): | ≤1000 | mA |
| 3.2 空载转速(No Load Speed): | 610±5% | RPM |
| 3.3 负载电流(Rated Load Current): | ≤5.5 | A |
| 3.4 负载转速(Rated Load Speed): | 550±5% | RPM |
| 3.5 额定负载(Rate Load): | 2000 | mN.m |
| 3.6 附性能曲线(Performance Curve Attached) | | |

4. 机械特性(MECHANICAL CHARACTERISTIC)

- | | | |
|------------------|--------------------------|-------|
| 4.1 重量(Weight): | ≈2089 | g |
| 4.2 外形(Outline): | Refer to outline drawing | |
| 4.3 噪音(Noise): | ≤60 | dB(A) |



测试条件: 常温常湿, 背景噪音<25dB(A), 距离马达端面30cm, 额定电压空载运行。
 Test Condition: Normal temp. and humidity, background noise is 25dB(A) Max., 30cm away from motor mounting surface, rated voltage and no load.

Performance Curve

SOF NO. :

Proposal No:

Winding :1.0x15

Motor test reference no :

Date : 2018-1-24

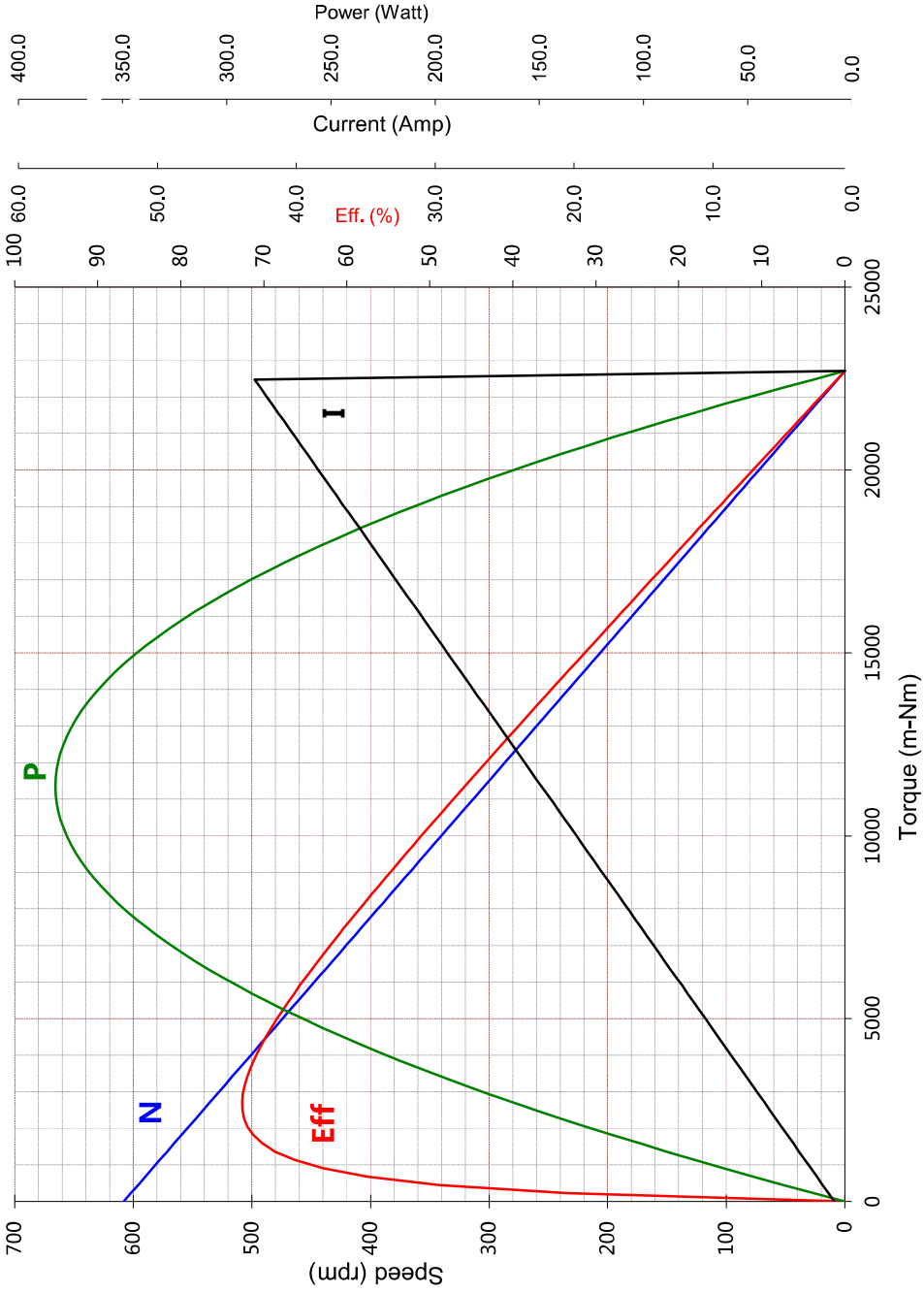
Performance (In an ambient temperature of 25 -30 C)

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of **36.00** Volts

With a circuit resistance **0.000** Ohms

AT No Load



Speed : 608 Rpm

Current : 0.762 Amp

Torque : 22703.377 m-Nm

Current : 43.084 Amp

Efficiency : 72.60 %

Torque : 2664.913 m-Nm

Speed : 537 Rpm

Current : 5.730 Amp

Output : 149.758 Watts

At maximum power

Torque : 11351.688 m-Nm

Speed : 304 Rpm

Current : 21.923 Amp

Output : 361.379 Watts

Characteristics

Torque Constant : 536.442 m-Nm/Amp

E.M.F Constant : 536.442 mV/rad/sec

Dy. Resistance : 0.836 Ohms

Motor Regulation: 0.027 Rpm/m-Nm

Calculation

At Torque Level: 800.000 m-Nm

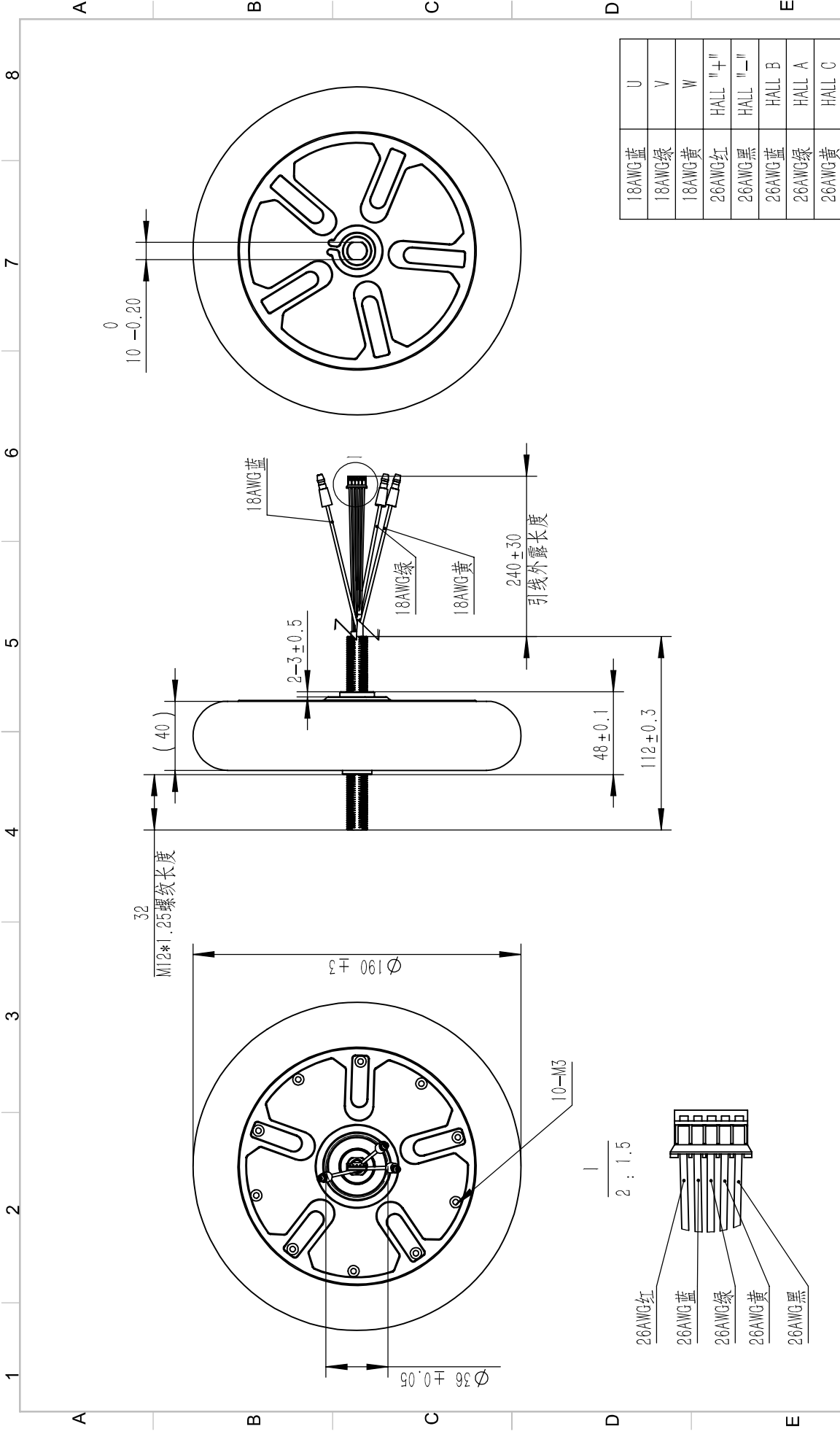
Speed : 586.6 Rpm

Current : 2.253 Amp

Efficiency : 60.58 %

Output : 49.141 Watts

COMPUTER PRINT-OUT NOMINAL MOTOR CURVES.
Performance and characteristics are measured based on limited motor samples only.



		深圳市中驱电机有限公司 China Drive Motors (ShenZhen) Co., Ltd.			
TITLE: RBE-102036-004外形图		SHEET: 1 OF 1 REVISION: T2			
MATERIAL:		FINISHING:			
UNIT: mm SCALE: 1:3 COMPLY WITH DIRECTIVE 2011/65/EU (RoHS).		UNIT: mm			
Unspecified Tolerance (GB/T 1804 - m)		>400-1000 ±0.8 #2 >100-2000 ±1.2 #2 >200-400 ±0.5 #0.8 >120-400 ±0.3 #0.5 >6-30 ±0.2 #0.3 >3-6 ±0.1 #0.1 0.5-3 ±0.2 #0.2 >10-50 ±0.1 #0.1 >5-10 ±0.1 #0.1		>2000-4000 ±1.2 #2 >100-2000 ±1.2 #2 >400-1000 ±0.8 #0.8 >120-400 ±0.3 #0.5 >6-30 ±0.2 #0.3 >3-6 ±0.1 #0.1 0.5-3 ±0.2 #0.2 >10-50 ±0.1 #0.1 >5-10 ±0.1 #0.1	
Linear Dimensions		Permissible deviations for ranges of lengths of shorter side of the angle concerned			
Fillet & Chamfer Dimensions		>400 ±10' #5 >120-400 ±10' #4.5 >6-30 ±20' #3 >3-6 ±20' #2			
Angular Dimensions		>400 ±10' #5 >120-400 ±10' #4.5 >6-30 ±20' #3 >3-6 ±20' #2			
REVISION	DESCRIPTION	DATE			
1		3			
2		3			
3		3			
4		4			
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