



SUN MICRO MOTOR TECHNOLOGY LTD.

新生電機科技有限公司

MOTOR OUTGOING SPECIFICATION

馬達出廠規格

Model No. :SU12-12240-38C

SSO#:M03005

REV : 0

1. Motor Type:

馬達類型

Small PMDC motor

微型直流馬達

2. Standard Operating Conditions:

標準工作條件

- 2-1 Rated Voltage(額定電壓): 3.0V DC CONSTANT between motor terminals(端子穩壓3.0V).
- 2-2 Direction of Rotation(旋轉方向): CW when viewed from output shaft side(從輸出軸端看CW).
- 2-3 Operation Temperature Range(工作溫度範圍): Between 0°C and 50°C(在0°C ~50°C)
- 2-4 Operation Humidity Range(工作濕度範圍): Between 5% and 95%(在5%~95%)

3. Measuring Conditions:

測試條件

- 3-1 Motor Position(馬達放置狀態): Motor to be held with shaft horizontally(馬達測試時水平放置).
- 3-2 Power Supply(電源): Regulated power supply which assures unquestionable measurement(確保測試沒問題的穩壓電源).
- 3-3 Environment Temperature and Humidity(環境溫度及濕度): The test is made in principle at a temperature between 15°C and 35°C and at a relative humidity 75%(一般在15°C~35°C及相對濕度75%的環境下測試).

4. Electrical Characteristics (at initial stage after 30 seconds run-in):

電氣特性(起動30秒后的初始階段)

- 4-1 No Load Current(無負荷電流): 0.063A max.
- 4-2 No Load Speed(無負荷轉速): 4250±380rpm.
- 4-3 No Load Starting Voltage(無負荷起動電壓): 1.2Vmax
- 4-4 Fan Load Current(風葉負載電流): 0.25A max.
- 4-5 Fan Load Speed(風葉負載轉速): 2240±200rpm.
- 4-6 Fan Load(風葉負載): I-shaped fan load with size70x15.0mm(approximately equivalent to9.8g-cm). 70X15.0mm一字形風葉(大約等于9.8g-cm)
- 4-7 Motor Characteristic Curve(馬達性能曲線): See Motor Performance Curves And Characteristics(見馬達特性曲線圖).

5. Mechanical Characteristics:

機械特性

- 5-1 Dimensions(外形尺寸): As Per Drawing attached(所附圖面M03005)
- 5-2 End Play(虛位): 0.05~0.45 mm
- 5-3 Runout of Shaft Extension(軸突端跳動): 0.05 mm max.

CONFIRMED & ACCEPTED BY CUSTOMER
客戶接受&確認
/ COMPANY, CHOP & SIGNATURE
蓋章&簽名
DATE :

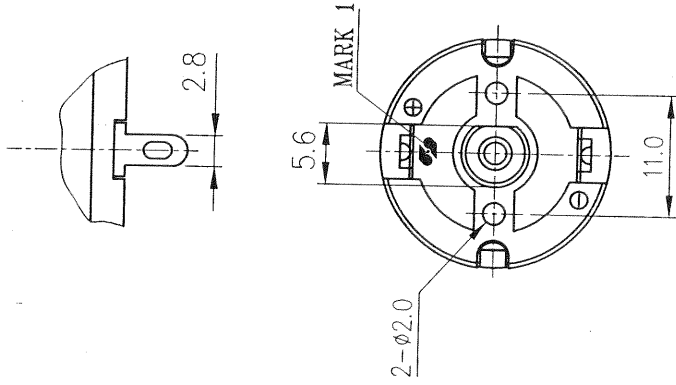
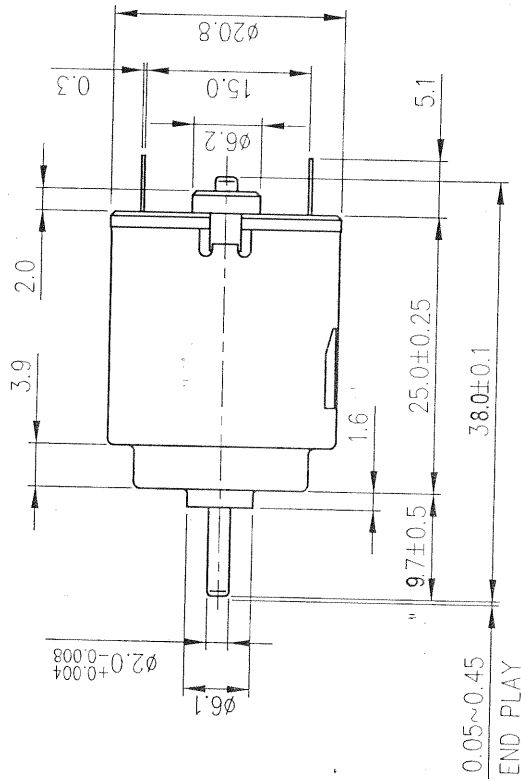
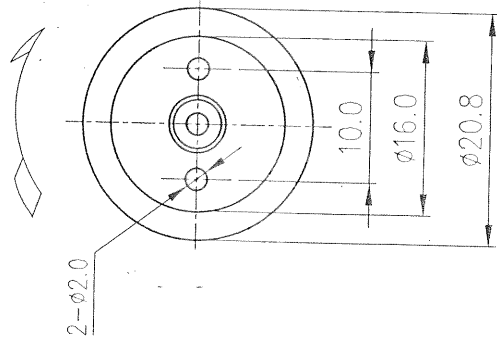
PREPARED BY: 劉建威 10/17/06 CHECKED BY: _____

APPROVED BY: 李國強 10/17/2006

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°C(3SEC) OR 400°C(2SEC).
- 3) MEASURING THE DIMENSION OF THE SHAFT EXTENSION WHEN THE OTHER END OF THE SHAFT IS AGAINST THE REAR BRACKET END.

DIRECTION OF ROTATION



ISSUE NO:

Sun Micro Motor Technology Ltd		DES'D	刘建斌 4/9-06
MODEL NO. SU12-12240-38C		CHK'D	
SSO#:	M03005	REV APP'D	2 (3/15) 4/12/06
TOLERANCE EXCEPT AS NOTED		DO NOT SCALE DRAWING	
1PL DECIMAL	±0.15	2PL DECIMAL	±0.1
ANGLE			±2°
CONFIRMED & ACCEPTED BY CUSTOMER <i>Company, Chop & Signature</i>		CUSTOMER NO.	
REV.	WAS	DES'D	DATE

DWG-3A-S.O. ONLY USED FOR THE DRAWING OF CUSTOMER CONFIRMING

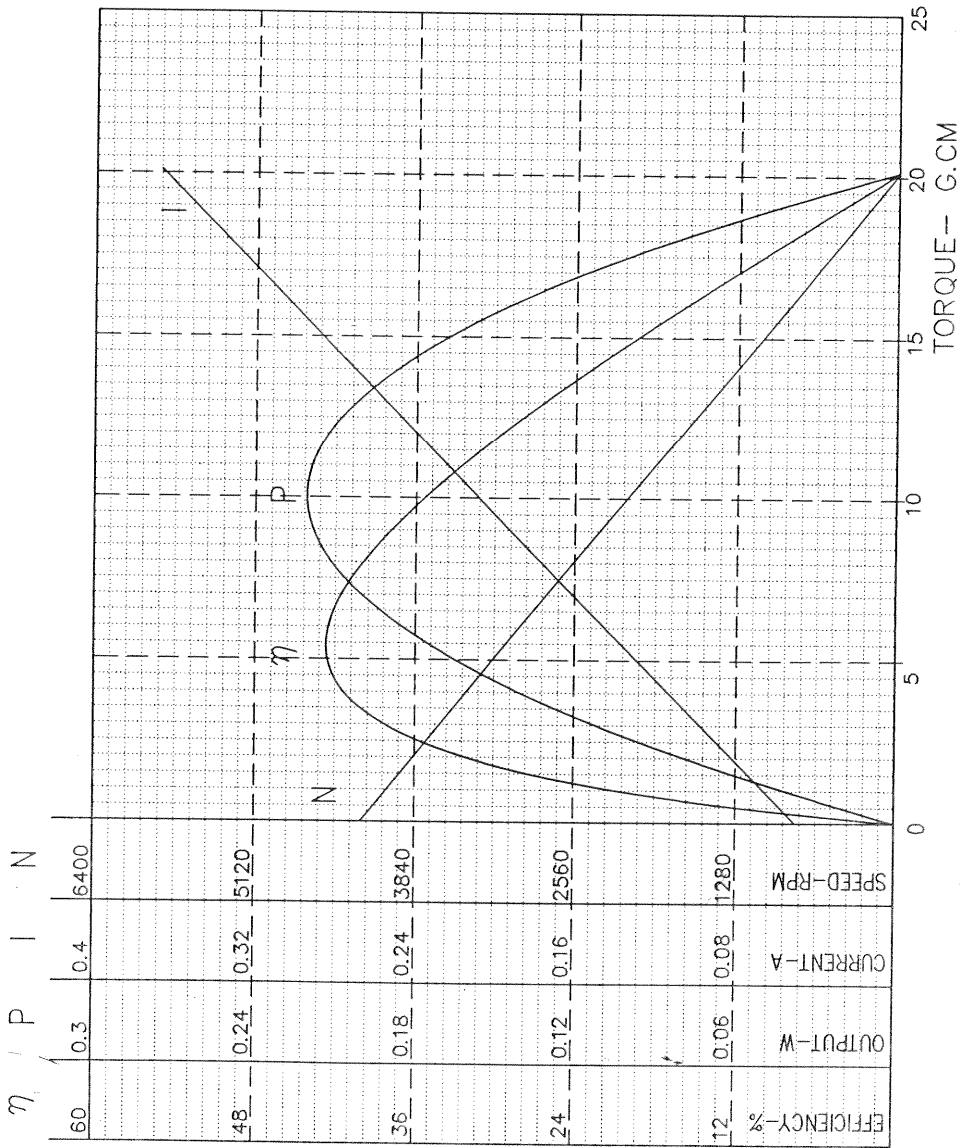
MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

馬達特性曲線

MODEL: **SU12-12240-38C**

VOLTAGE: **3 V**

SS0#: M03005



PERFORMANCE (性能)
AT NO LOAD (無負荷點)
 SPEED (轉速) = 4275 RPM
 CURRENT (電流) = 0.05 AMP

AT STALL EXTRAPOLATION (堵轉點)
 TORQUE (力矩) = 20.1 G.CM
 CURRENT (電流) = 0.367 AMP

AT MAXIMUM EFFICIENCY (最大效率點)
 EFFICIENCY (效率) = 42.67 %
 SPEED (轉速) = 3123 RPM
 TORQUE (力矩) = 5.4 G.CM
 CURRENT (電流) = 0.135 AMP
 OUTPUT (功率) = 0.173 WATTS

AT MAXIMUM OUTPUT (最大輸出功率點)
 SPEED (轉速) = 2137 RPM
 TORQUE (力矩) = 10.0 G.CM
 CURRENT (電流) = 0.208 AMP
 OUTPUT (功率) = 0.220 WATTS
 EFFICIENCY (效率) = 35.24 %

THE CURVES REPRESENT THE THEORETICAL PERFORMANCE OF THE SAMPLE ONLY.
 曲線僅表示樣品的技術特性

PREPARED BY: 張建文 4/2-06 REVIEWED BY: _____ APPROVED BY: 張國光 4/11/2006