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復核: \_\_\_\_\_

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SUN MICRO MOTOR TECHNOLOGY LTD.

### MOTOR OUTGOING SPECIFICATION

Model No. : SRH555S-6016P-75R-02

SSO#: M15404

REV : A

- 1. Motor Type:** Small PMDC motor
- 2. Standard Operating Conditions:**
- 2-1 Rated Voltage: 9.6V 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: 1.55A max.
- 4-2 No Load Speed: 15000±2250rpm.
- 4-3 No Load Starting Voltage: 3.0V max.
- 4-4 Rated Load Current: 4.5A max.
- 4-5 Rated Load Speed: 14000±1680rpm.
- 4-6 Rated Load: Fan load with size 50x29.5mm (approximately equivalent to 200g-cm).
- 4-7 Reference Characteristic Curve: See Motor Performance Curves And Characteristics.
- 5. Mechanical Characteristics:**
- 5-1 External Appearance: See Outline
- 5-2 Shaft End Play: 0.05-0.5 mm
- 5-3 Runout of Shaft Extension: 0.05 mm max.

CONFIRMED &amp; ACCEPTED BY CUSTOMER

COMPANY, CHOP &amp; SIGNATURE


**SUN MICROMOTOR TECHNOLOGY LTD.**

## Part List

Model No. : SRH555S-6016P-75R-02                      SSO#:M15404  
 Rev : 0

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### 1. Plastic Cap

a) Material : Glass reinforced nylon 66(Zytel 70G-33HS1-L)

### 2. Body Casing

a) Material : Cold rolled carbon steel strip.

### 3. Leaf Spring

a) Material : Beryllium copper strip.

### 4. Brushes

a) Material : Copper-electrographite.

### 5. Lamination

a) Material : Laminated silicon steel.

### 6. Epoxy Resin

a) Manufacturer : SOMAR Corp.  
 b) Material : Epiform F-219 epoxy resin rated 130°C, Class B.  
 c) UL File No. : E50219.

### 7. Armature Magnet Wire

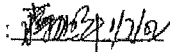
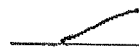
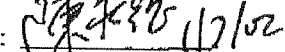
a) Manufacturer : Tai-I Electrical Wire & Cable Co., Ltd.  
 b) Material : Polyester coated copper wire, PEW 155°C, Class F.  
 c) UL File No. : E85640 (S)  
 OR  
 a) Manufacturer : Xin Long Magnet Wire Co., Ltd.  
 b) Material : Polyester coated copper wire, PEW 155°C, Class F.  
 c) UL File No. : E171082 (S)

### 8. Magnet

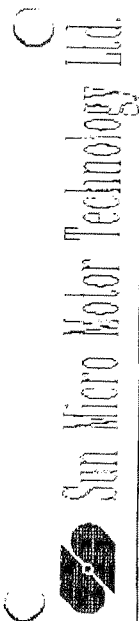
a) Material : Anisotropic ferrite magnet.

### 9. Commutator

a) Material : Five copper bars insulated by phenolic.

PREPARED BY:  11/10 CHECKED BY:  APPROVED BY:  11/02

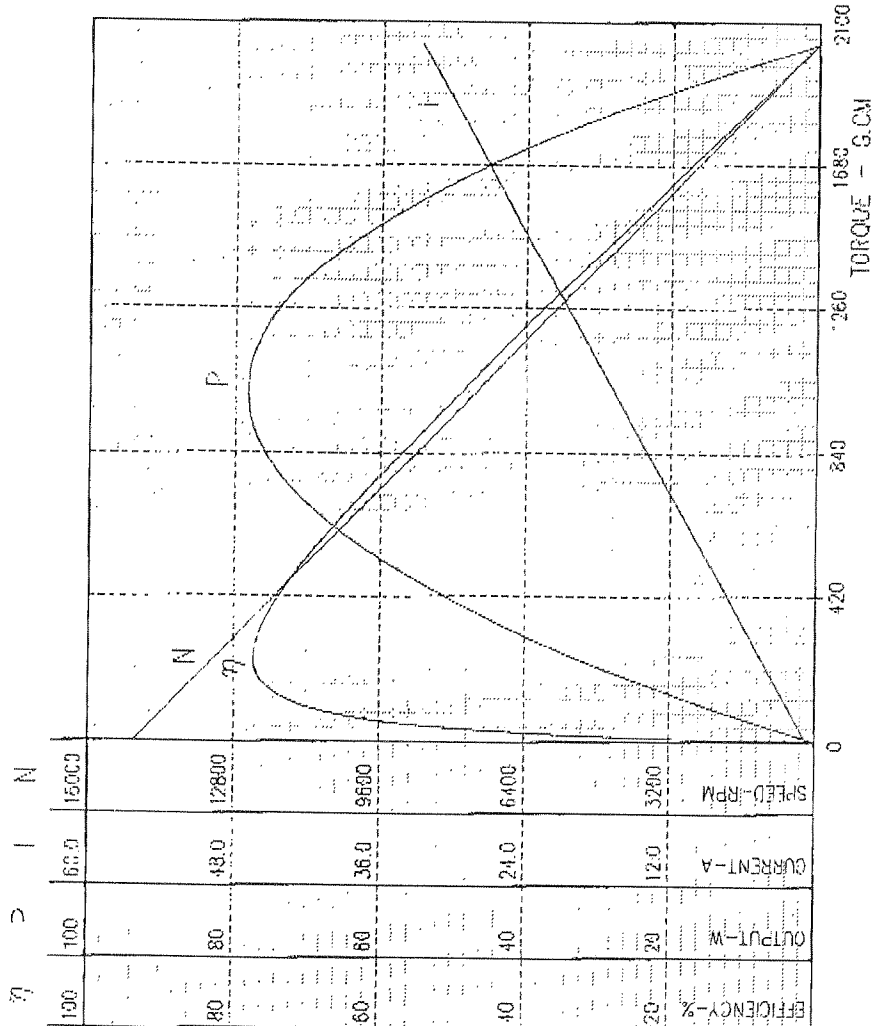




MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

MODEL: **SRH555S-6016P-75R-02** VOLTAGE: **9.6 V**

SSO#: **M15404**



PERFORMANCE AT NO LOAD  
 SPEED = 15000 RPM  
 CURRENT = 0.663 AMP

AT SMALL EXTRAPOLATION  
 TORQUE = 2036.1 G.CM  
 CURRENT = 32.748 AMP

AT MAXIMUM EFFICIENCY  
 EFFICIENCY = 77.30 %  
 SPEED = 13242 RPM  
 TORQUE = 242.7 G.CM  
 CURRENT = 4.433 AMP  
 OUTPUT = 32.893 WATTS

AT MAXIMUM OUTPUT  
 SPEED = 7500 RPM  
 TORQUE = 1018.0 G.CM  
 CURRENT = 16.374 AMP  
 OUTPUT = 78.311 WATTS

THE CURVES REPRESENT THE THEORETICAL PERFORMANCE OF THE SAMPLE ONLY.

PREPARED BY: [Signature] 17/02  
 REVIEWED BY: [Signature]  
 APPROVED BY: [Signature] 17/02