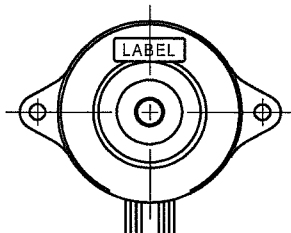
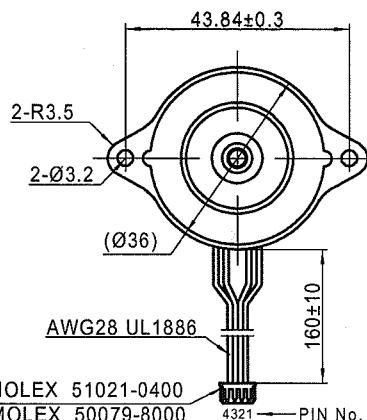
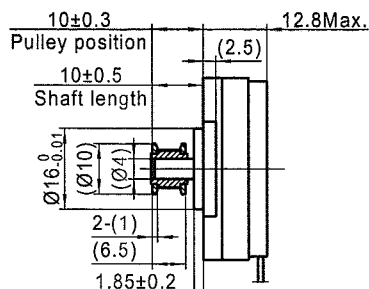


4611110016288

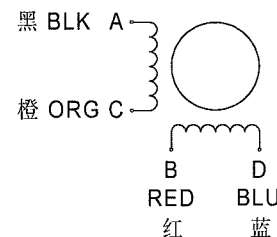


保 密



Housing: MOLEX 51021-0400  
Terminal: MOLEX 50079-8000

接线图  
Wiring Diagram



连接器针位vs.引线颜色  
Pin No. vs. Lead Wire Colour

| PIN No. | 颜色 Colour |
|---------|-----------|
| 1       | 黑 BLK     |
| 2       | 橙 ORG     |
| 3       | 红 RED     |
| 4       | 蓝 BLU     |

励磁顺序vs.旋转方向  
Exciting Sequence vs. Direction of Rotation

| STEP | A | B | C | D |          |
|------|---|---|---|---|----------|
| 1    | + | + | - | - | CCW<br>↑ |
| 2    | - | + | + | - |          |
| 3    | - | - | + | + |          |
| 4    | + | - | - | + |          |

从安装面看为顺时针方向  
Clockwise view from mounting side

规格 Specifications

|                           |                                        |
|---------------------------|----------------------------------------|
| 1. 相数 Number of Phase     | 2                                      |
| 2. 步距角 Step Angle         | 0.9°                                   |
| 3. 额定电压 Rated Voltage     | 4.8V DC                                |
| 4. 额定电流 Rated Current     | 0.3Amp                                 |
| 5. 保持力矩 Holding Torque    | 44mNm Typ.(Two phase on/rated current) |
| 6. 相电阻 Phase Resistance   | 16ohm±10%(20°C)                        |
| 7. 相电感 Phase Inductance   | 8.5mH±20%(1kHz 1V rms)                 |
| 8. 转子惯量 Rotor Inertia     | 4gcm <sup>2</sup>                      |
| 9. 电机重量 Motor Weight      | 60g                                    |
| 10. 绝缘等级 Insulation Class | B(130°C)                               |

带轮规格 Pulley Specification

|                      |                                     |
|----------------------|-------------------------------------|
| 齿型 Profile           | MXL                                 |
| 齿数 Number of Teeth   | 12                                  |
| 节距 Pitch             | 2.032                               |
| 节圆 Pitch Diameter    | Ø7.76                               |
| 齿顶圆 Outside Diameter | Ø7.25 <sup>+0.05</sup> <sub>0</sub> |
| 材料 Material          | HPb59-1                             |

铭牌 Label Detail

MOONS' STEPPING MOTOR  
TYPE 14HK0405-02N  
XXXXXXXX YY/MM/DD

Work Order 加工单号  
Date Format 日期格式

Unit: mm  
第一角画法  
FIRST ANGLE METHOD  
未注线性与角度尺寸公差  
Tolerances for linear and angular dimensions without individual tolerance indications  
GB/T 1804-m eqv ISO 2768-1 : m  
未注形状与位置尺寸公差  
Geometrical tolerance for features without individual tolerance indications  
GB/T 1184-K eqv ISO 2768-2 : K

|               |                |
|---------------|----------------|
| 批准 Approve    | 1.29           |
| 标准化 Standard  | 9.29           |
| 工艺 Technology | 9.29           |
| 审核 Check      | 9.29           |
| 设计 Design     | 徐文彬 2016.09.29 |

**MOONS'**  
Shanghai Moons' Electric Co., Ltd.

Hybrid Stepping Motor

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|      |                        |            |                            |       |           |      |                    |       |           |              |
|------|------------------------|------------|----------------------------|-------|-----------|------|--------------------|-------|-----------|--------------|
| A    | 原始版本 Original revision | 2016.09.29 | UNLESS OTHERWISE SPECIFIED | NAMES | SIGNATURE | DATE | Type: 14HK0405-02N | Rev.A | SCALE 1:1 | Sheet 1 of 1 |
| REV. | 版本记录 REVISION RECORD   | DATE       |                            |       |           |      |                    |       |           |              |

## 偏离申请报告

## Deviation Application Report

Shanghai Moons Electric Co. Ltd

客户型号Customer P/N 121007743捷扬光电

Rev. \_\_\_\_\_

Date 2016.09.29

MOONS'型号 MOONS' P/N 14HK0405-02N

Rev. A

本报告列出和客户要求的偏离。请在客户备注栏中说明您是否有任何不接受的申请，没有说明将被认为是同意这些偏离被应用到将来的产品中。

This report lists the deviation from customer requirements. Please let us know if any of these deviation is unacceptable for you, otherwise it must be deemed to accept and agree us to adopt it in production.

| 编号<br>Item | 描述<br>Description | 客户要求<br>Customer Requirement | MOONS' 规范<br>MOONS' Specification | 偏离原因<br>Deviation Reason |
|------------|-------------------|------------------------------|-----------------------------------|--------------------------|
| 1          | 出轴直径              | Φ4.762                       | Φ4                                | 带轮更改为12齿MXL，齿根圆太小，出轴需要改小 |
| 2          | 线规标准              | AWG28 UL1061                 | AWG28 UL1886                      | MOONS' 标准                |
| 3          | 相序VS线束颜色          | A棕C橙B红D黄                     | A黑C橙B红D蓝                          | MOONS' 标准                |
|            |                   |                              |                                   |                          |
|            |                   |                              |                                   |                          |
|            |                   |                              |                                   |                          |
|            |                   |                              |                                   |                          |
|            |                   |                              |                                   |                          |

设计 Design: 徐文彬2016.09.29

批准 Approve: 2016.9.29

客户备注Customer Comments:

☐ 同意偏离/Approval for the Deviation

顾客签字Customer Signature \_\_\_\_\_