Downloaded from Arrow.com.

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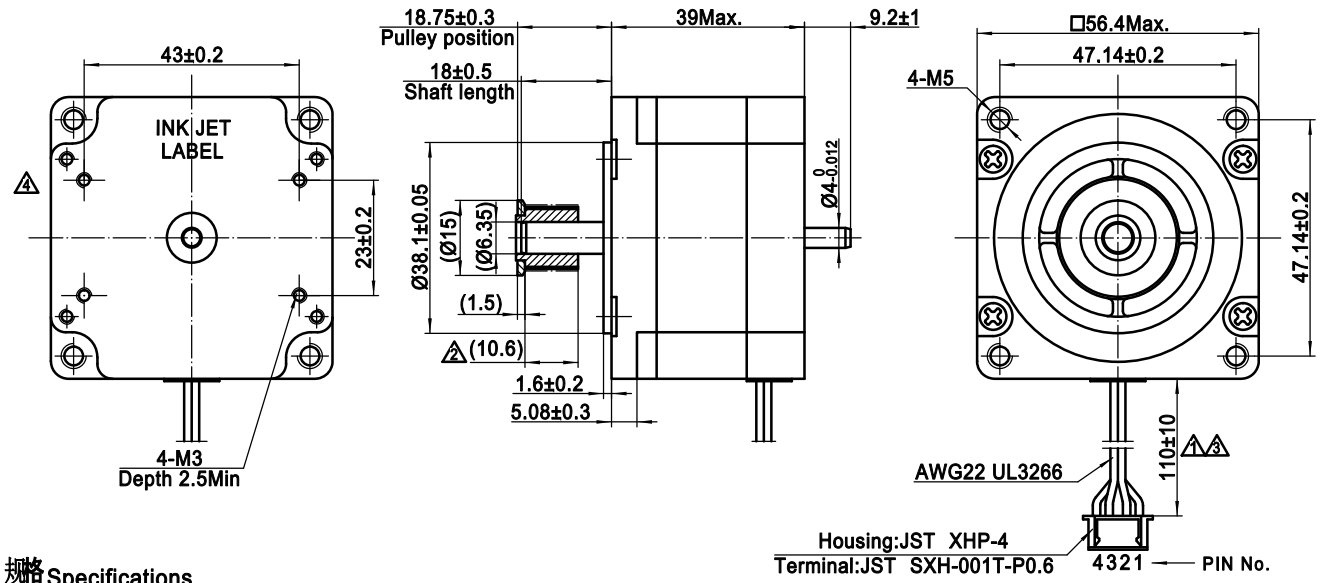
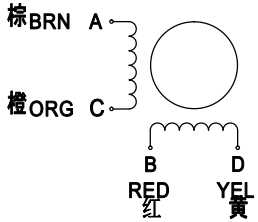



## 接线图 Wiring Diagram




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

| PIN No. | 颜色 Colour |
|---|---|
| 1 | 红 Red |
| 2 | 黄 Yellow |
| 3 | 棕 Brown |
| 4 | 橙 Orange |

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

| STEP | A | B | C | D |
|---|---|---|---|---|
| 1 | + | + | − | − |
| 2 | − | + | + | − |
| 3 | − | − | + | + |
| 4 | + | − | − | + |

CW ↓ ↑ CCW

从安装面看为顺时针方向
Clockwise view from mouting 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 | 3.08V DC |
| 4. 额定电流 Rated Current | 2.2Amp |
| 5. 保持力矩 Holding Torque | 0.71Nm Typ.(Two phase on/rated current) |
| 6. 相电阻 Phase Resistance | 1.4ohm±10%(20°C) |
| 7. 相电感 Phase Inductance | 5mH±20%(1kHz 1V rms) |
| 8. 转子惯量 Rotor Inertia | 122gcm^2 |
| 9. 电机重量 Motor Weight | 0.42kg |
| 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 | 20 |
| 节距 Pitch | 2.032 |
| 节圆 Pitch diameter | Ø12.94 |
| 齿顶圆 Outside diameter | $Ø12.43^{+0.05}_{0}$ |
| 材料 Material | HPb59-1 |

备注 Comment:

5 1：后端盖型腔内增加3698151100075绝缘垫片
(Add 3698151100075 insulating gaskets to the back end cover cavity)

6 2：轴承油脂耐温范围-40~150□
(Bearing grease temperature tolerance range - 40 ~150□)

## 铭牌 Label Detail

MOONS' STEPPING MOTOR
TYPE MS23HA0L4220-02
XXXXXXXX YY/MM/DD

Work Order 加工单号
Date Format 日期格式

| REV. | 版本记录 REVISION RECORD | DATE |
|---|---|---|
| G | 增加备注要求 6 | 2019.05.10 |
| F | 增加备注要求 5 | 2018.12.12 |
| E | 增加4-M3视图 4 | 2018.12.03 |
| D | 线束长度170±10 3 | 2018.02.27 |
| C | 带轮长度8.6 2 | 2017.06.22 |
| B | 线束长度130±10 1 | 2017.02.23 |
| A | 原始版本 Original revision | 2017.02.15 |

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

UNLESS OTHERWISE SPECIFIED

| | NAMES | SIGNATURE | DATE |
|---|---|---|---|
| 批准 Approve | | | |
| 标准化 Standard | | | |
| 工艺 Technology | | | |
| 审核 Check | | | |
| 设计 Design | 曙建强 | | 2019.05.10 |

**MOONS'** Hybrid Stepping Motor
Shanghai Moons' Electric Co., Ltd.

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Type：MS23HA0L4220-02 | Rev.G | SCALE 1:1 | Sheet 1 of 1