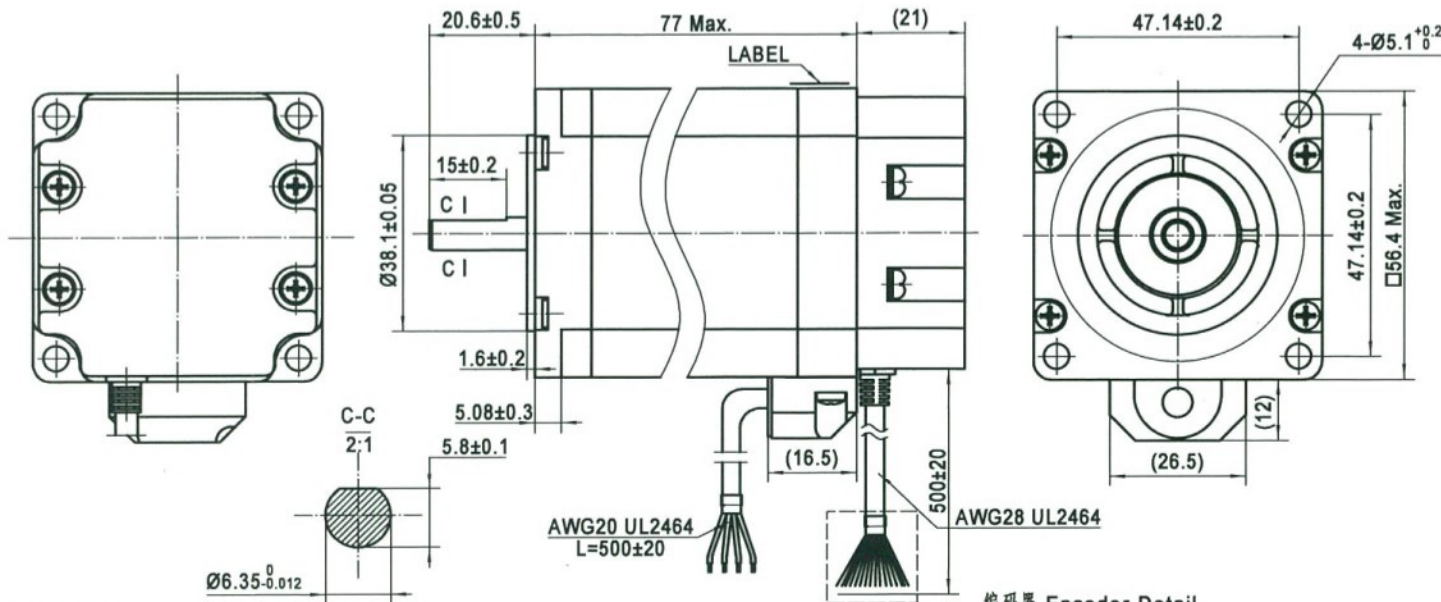


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规格 Specifications

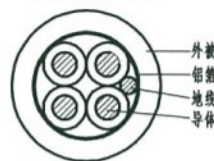
1. 相数 Number of Phase	2
2. 步距角 Step Angle	1.8°
3. 额定电压 Rated Voltage	4.6 V DC
4. 额定电流 Rated Current	2.0 Amp
5. 保持力矩 Holding Torque	2.3 Nm Typ. (Two phase on/ rated current)
6. 相电阻 Phase Resistance	2.3 ohm±10% (20°C)
7. 相电感 Phase Inductance	9.8 mH±20% (1kHz 1V rms)
8. 转子惯量 Rotor Inertia	365 gcm ²
9. 电机重量 Motor Weight	0.87 kg
10. 绝缘等级 Insulation Class	B(130°C)

编码器 Encoder Detail

型号(Model): AM4096-1024P/R (1024线)

COLOR	WHT(白)	BLU(蓝)	GRN(绿)	ORG(橙)
SIGNAL	CH A+	CH A-	CH B+	CH B-
COLOR	YEL(黄)	BRN(棕)	RED(红)	BLK(黑)
SIGNAL	CH Z+	CH Z-	+Vcc	GND

电机动力线断面

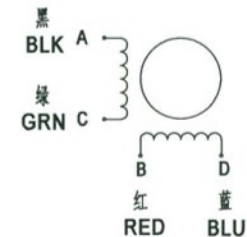


编码器线断面



接线图

Wiring Diagram



励磁顺序 vs. 旋转方向

Exciting Sequence vs. Direction of Rotation

STEP	A	B	C	D	
1	+	+	-	-	CCW ↑
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

从安装面看为顺时针方向

Clockwise view from mounting side.

铭牌 Label Detail

MOONS' STEPPING MOTOR
TYPE ML23HSAL4200-15R
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

标准化 Standard

工艺 Technology

审核 Check

设计 Design

MOONS'

Hybrid Stepping Motor

Shanghai MOONS' Electric Co., Ltd.

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A0 原始版本 Original revision 2021.09.23

REV. 版本记录 REVISION RECORD

DATE

UNLESS OTHERWISE SPECIFIED

NAMES

SIGNATURE

DATE

Type: ML23HSAL4200-15R

Rev. A0

SCALE 1:1

Sheet 1 of 1