

直流无刷无齿槽电机规格书  
SLOTLESS BRUSHLESS DC MOTOR SPECIFICATIONS

受控文件

上海鸣志电器股份有限公司

Table with 4 columns: Specifications, Values, Tolerance, Unit. Section 1: Motor parameters (1.1-1.9).

Table with 4 columns: Specifications, Values, Tolerance, Unit. Section 2: Gearhead data (2.1-2.12).

Table with 4 columns: Specifications, Values, Tolerance, Unit. Section 3: Overall General Data (3.1-3.11).

Table with 4 columns: Specifications, Values, Tolerance, Unit. Section 4: Others (4.1-4.4).

备注 Notes: 所有参数均在20°C给定。大部分参数随温度变化。 All parameters are given at 20°C. Most of parameters will vary with temperature.

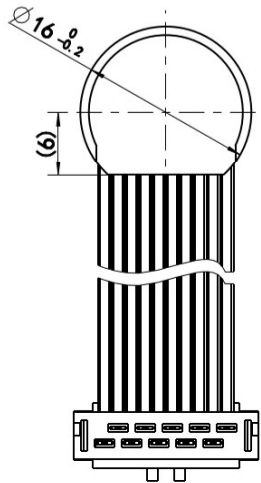
Approval and revision table with columns for Unit, Standardize, Process Review, Check, Design, and drawing details.



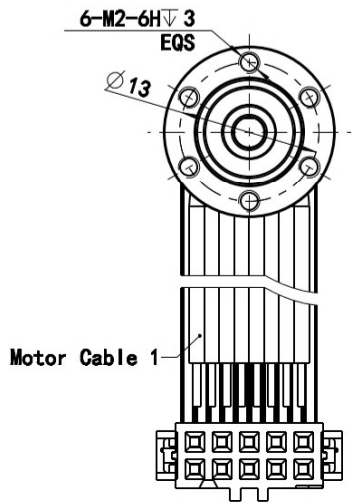
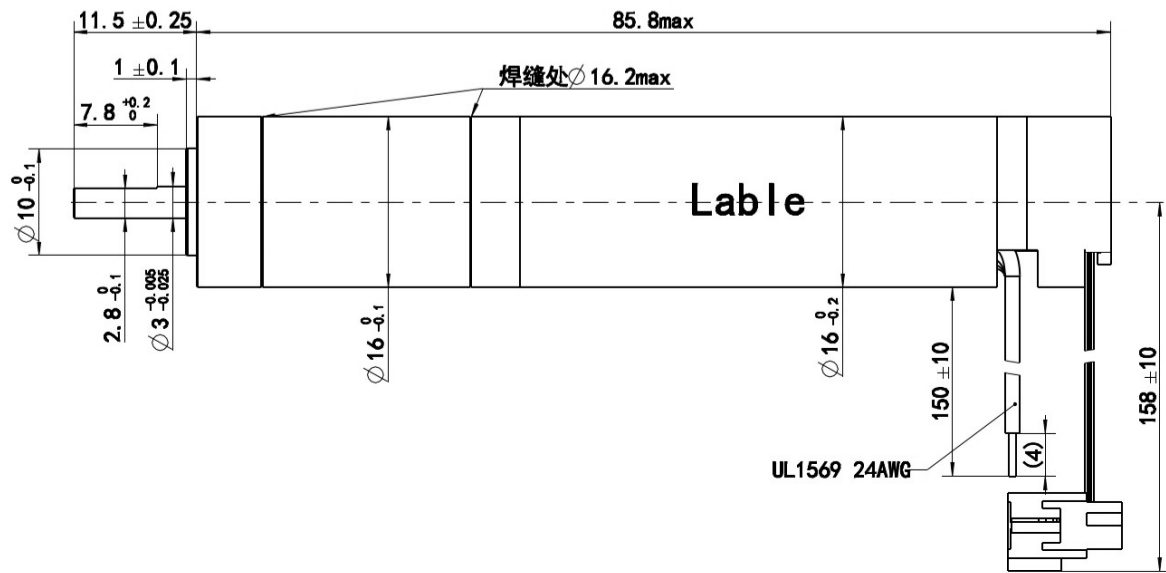
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受控文件

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线束相对于前盖安装孔角度偏差:  $\leq \pm 30^\circ$   
Alignment of cable relative to front mounting holes:  $\leq \pm 30^\circ$



Connection

Cable No.	信号/Signal	颜色/Color
1	U	棕/brown
2	V	红/red
3	W	橙/orange
4	$V_{Hall}$ 3~24 VDC	黄/yellow
5	GND	绿/green
6	Hall 1	蓝/blue
7	Hall 2	紫/voilet
8	Hall 3	灰/grey

铭牌 Label Detail

MOONS'	
Motor Type	ECU16052H24-S002
Encoder No.	M16-1024
Gearbox No.	PG16M-0172
Work order	XXXXXXXXX YYYY
Serial Number	QR Code

备注/Note:  
1. 铭牌用激光标刻在电机机壳表面, 目视水平居中;  
The label is attached to the center of the motor housing.  
2. 二维码为含电机型号、生产工单号和序列号。  
The QR code includes motor model No., work order No. and serial number.

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 Standardize	
工艺 Process Review	
审核 Check	
设计 Design	

**MOONS'**  
moving in better ways

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A0	原始版本 Original revision	2022.4.18
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REV.	版本记录 REVISION RECORD	DATE	UNLESS OTHERWISE SPECIFIED	NAMES	SIGNATURE	DATE	Drawing No: 4611180000464	Rev. A0	SCALE: 2:1	Sheet 2 of 3
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受 控 文 件

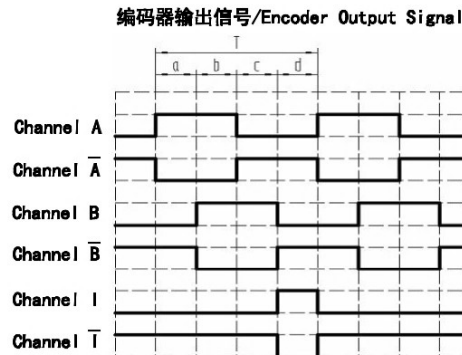
编码器信息 Encoder Informations

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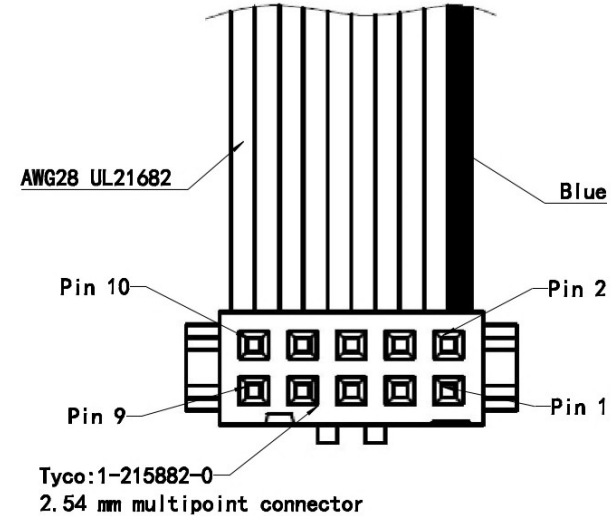
1	工作原理类型 Working principle	Magnetic
2	信号记录类别 Signal record type	Incremental
3	每圈线数 Lines per turn	1024
4	通道数量 Number of channels	3

Connection of Encoder

Pin No.	信号/Signal
1	N.C
2	VCC 4.5V-5.5V
3	GND
4	N.C
5	Channel $\bar{A}$
6	Channel A
7	Channel $\bar{B}$
8	Channel B
9	Channel $\bar{I}$
10	Channel I



Direction of rotation: CW (view from shaft end);  
a, b, c, d = 90° ± 45°;  
Index is aligned with angle commutation zero



备注 Notes:

- 连接器引脚1和4不可施加电压，否则会损坏编码器；  
The encoder will be damaged if applying voltage to pin1 & pin4 of the connector.
- 不允许以编码器线束着力来提起电机。  
It is not allowed to lift the motor with the encoder cable.

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  
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设计 Design	

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