

受控文件

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

鸣志电器(太仓)有限公司

Table with 5 columns: Specifications, Values, Tolerance, Unit. Section 1: Motor parameters (1.1-1.9). Includes bearings type, poles, phases, insulation class, resistance, inductance, speed constant, torque constant, and speed/torque gradient.

Table with 5 columns: Specifications, Values, Tolerance, Unit. Section 2: Gearhead data (2.1-2.12). Includes gearhead type, bearings type, reduction ratios, stages, backlash, rotation direction, axial/radial play, and axial/radial loads.

Table with 5 columns: Specifications, Values, Tolerance, Unit. Section 3: Overall General Data (3.1-3.11). Includes nominal voltage, no load speed, no load current, rated torque, rated current, rated speed, maximum efficiency, stall torque, stall current, weight, and ambient temperature range.

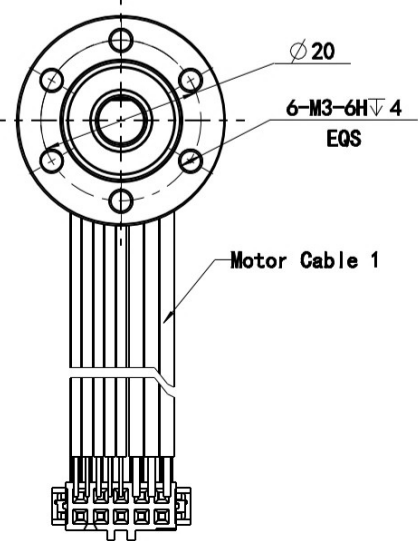
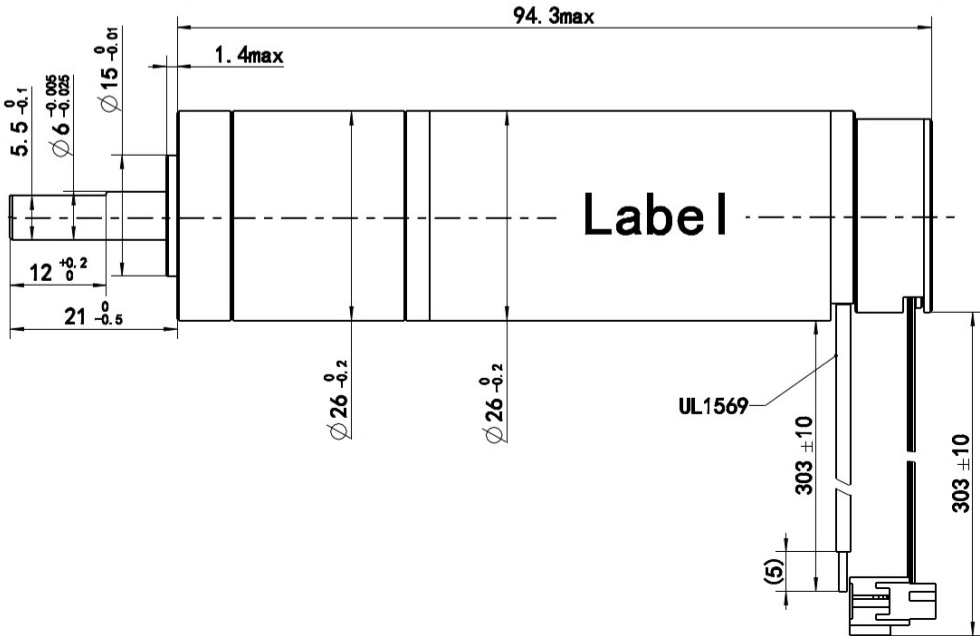
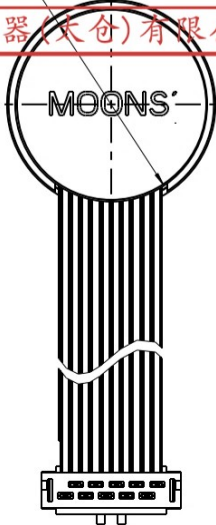
Table with 5 columns: Specifications, Values, Tolerance, Unit. Section 4: Others (4.1-4.4).

备注 Notes:
- 所有参数均在20°C给定。大部分参数随温度变化。
- 当电机固定在导热支架上时，热阻通常可降低50%。
- 电机电气安全标准符合<GB/T 21418中6.6介电性能>的要求。

Approval and revision section including: Unit:mm, First angle method, tolerance standards (GB/T 1804-m, GB/T 1184-K), approval signatures, and the MOONS' logo with tagline 'moving in better ways'. Includes a table for revision records (REV., 版本记录, REVISION RECORD) and drawing information (Drawing No: 4611180000891, Rev. A0, SCALE: 1:1, Sheet 1 of 3).

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鸣志电器(太仓)有限公司



线束相对于前盖安装孔角度偏差: ≤±10°
Alignment of cable relative to front mounting holes: ≤±10°

Connection of Motor

Cable No.	信号/Signal	颜色/Color	线规/Wire gage
1	电机绕组1/Motor winding1	红/red	AWG 20
2	电机绕组2/Motor winding2	黑/black	
3	电机绕组3/Motor winding3	白/white	
4	V _{hall} 3~24 VDC	橙/orange	AWG 26
5	GND	蓝/blue	
6	霍尔传感器/Hall IC 1	黄/yellow	
7	霍尔传感器/Hall IC 2	棕/brown	
8	霍尔传感器/Hall IC 3	灰/grey	

铭牌 Label Detail



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 laser engraved on the motor housing in middle.
2. 二维码为含整机型号、生产工单号和序列号。
The QR code includes motor model No., work order and serial No.

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



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REV.	版本记录 REVISION RECORD	DATE	UNLESS OTHERWISE SPECIFIED	NAMES	SIGNATURE	DATE	Drawing No: 461118000891	Rev. A0	SCALE: 1.5:1	Sheet 2 of 3
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受 控 文 件

编码器信息 Encoder Informations

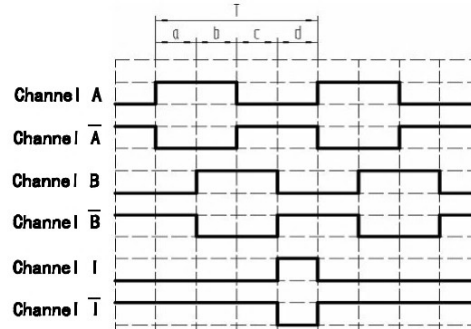
鸣志电器(太仓)有限公司

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
5	每圈计数(位) counts per turn (bit)	4096 (12)

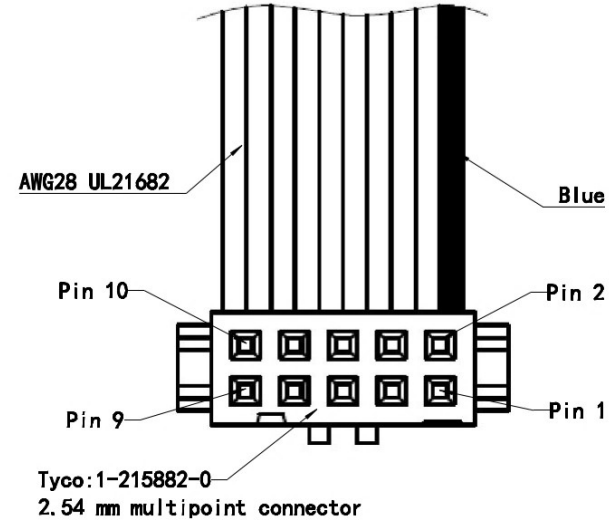
Connection of Encoder

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 B
8	Channel B
9	Channel T
10	Channel I

编码器输出信号/Encoder Output Signal



Direction of rotation: CW (view from shaft end);
 a, b, c, d = $90^\circ \pm 45^\circ$;
 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
 Geometrical tolerance for features without
 individual tolerance indications
 GB/T 1184-K eqv ISO 2768-2:K

批准 Approve
 标准化 Standardize
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 设计 Design

MOONS'
moving in better ways

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