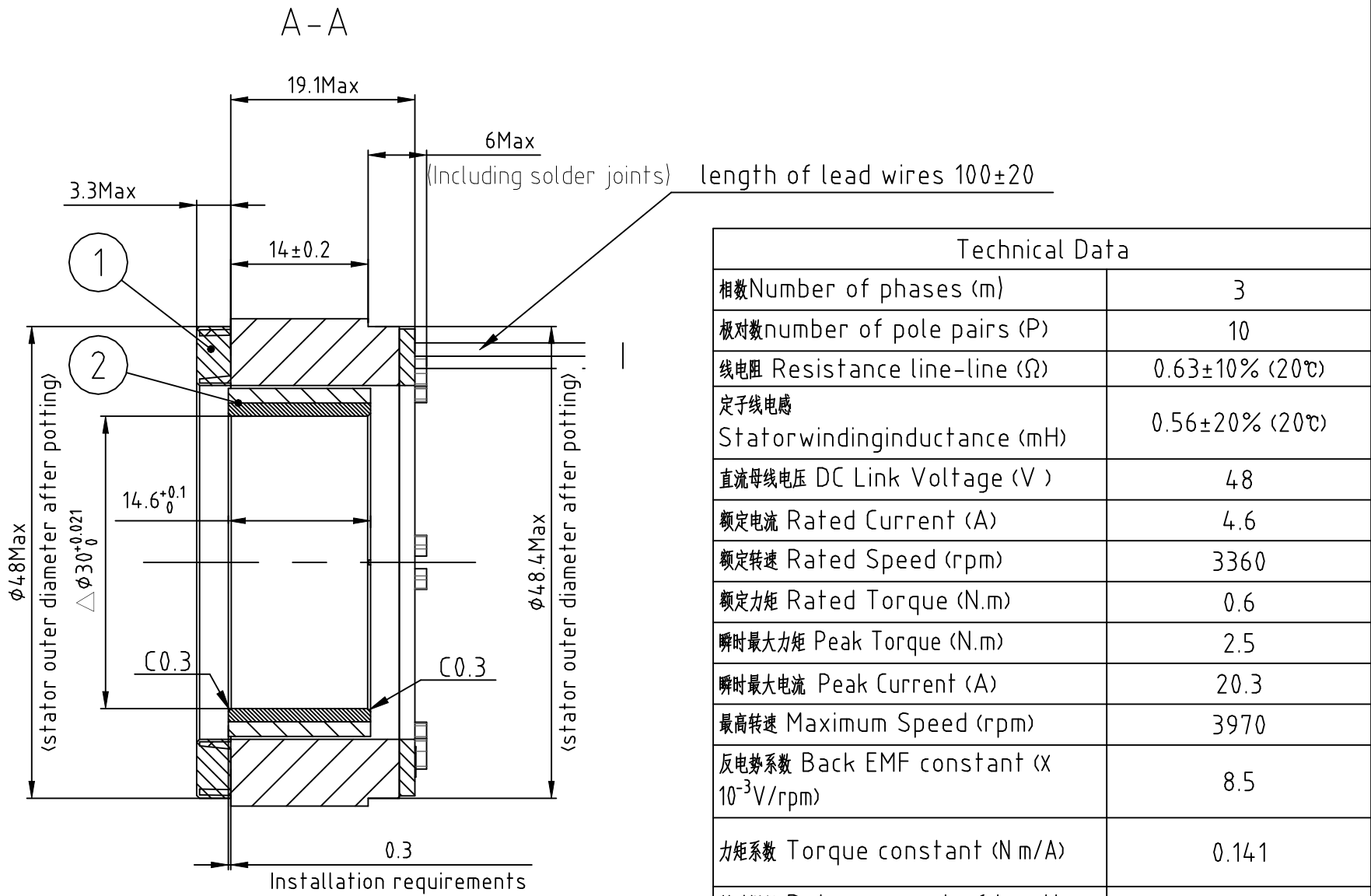
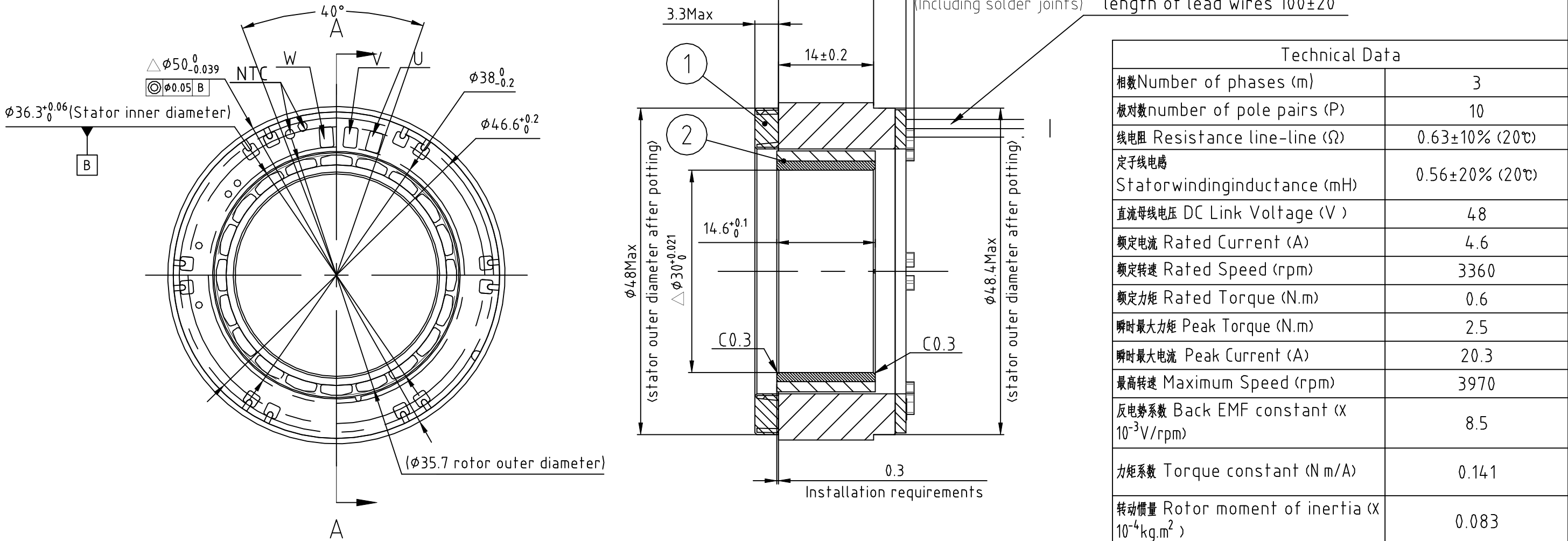


NUMBER	COMPONENT	MODEL
1	stator	FM2-05014KTN346-S
2	rotor	FM2-05014KTN346-R

Definition of Line			
U	V	W	NTC(100K Ω @25 $^{\circ}$ C)
YELLOW	RED	BLACK	BROWN

Definition of Line			
U	V	W	NTC(100K Ω @25 $^{\circ}$ C)
YELLOW	RED	BLACK	BROWN
20AWG Silicone flexible cord			UL1430 28AWG



Technical Data	
相数Number of phases (m)	3
极对数number of pole pairs (P)	10
线电阻 Resistance line-line (Ω)	0.63±10% (20℃)
定子线电感 Statorwindinginductance (mH)	0.56±20% (20℃)
直流母线电压 DC Link Voltage (V)	48
额定电流 Rated Current (A)	4.6
额定转速 Rated Speed (rpm)	3360
额定力矩 Rated Torque (N.m)	0.6
瞬时有最大力矩 Peak Torque (N.m)	2.5
瞬时有最大电流 Peak Current (A)	20.3
最高转速 Maximum Speed (rpm)	3970
反电势系数 Back EMF constant (x 10 ⁻³ V/rpm)	8.5
力矩系数 Torque constant (N m/A)	0.141
转动惯量 Rotor moment of inertia (x 10 ⁻⁴ kg.m ²)	0.083
重量 Weight (kg)	0.136
绝缘等级 Insulation class	F
绝缘电阻 Insulation resistance	DC500V 100MΩ以上
绝缘耐压(stator&NTC) Insulation strength	600VAC/1S/2mA&300VAC/1S/5mA

technical requirement	绝缘耐压(stator&NTC) Insulation strength	600VAC/1S/2mA&300VAC/1S/5mA
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|---|-----|------------|---------------------|--|--|------------------|--------------|-------------|--|
| 1. The weld seam on the outer cylindrical surface of the stator is free of cracks, the surface is free of protrusions, the glue filling is free of copper leakage, and there are no obvious air holes that affect use;
2. The solder joints of the outgoing lines are glued and fixed, and the solder joints of the enameled wires are coated with UV glue. The solder joints are free of impurities such as rosin slag; | | | | | | | | | |
| 设计
Designed | 翟向千 | 2026/04/08 | 标准化
Standardized | | | 材料(Material): | 名称(Title) | 无框电机50系列规格书 | |
| 制图
Drawn | 翟向千 | 2026/03/05 | | | | | 型号(Model) | 见一览表 | |
| 校对
Proofread | | | 审核 | | | 重量(Weight)/g: | 图号(DWG No.) | | |
| 工艺
Processed | | | 批准
Approved | | | 阶段标记(Stage Mark) | 料号(Part No.) | | |
| 检查
Inspected | | | | | | | 比例(Scale) | 1:1 | |

设计 Designed	翟向千	2026/04/08	标准化 Standardized			材料(Material):	名称(Title)	无框电机50系列规格书	
制图 Drawn	翟向千	2026/03/05					型号(Model)	见一览表	
校对 Proofread			审核 Checked			重量(Weight)/g:	图号(DWG No.)		
工艺 Processed			批准 Approved			阶段标记(Stage Mark)	料号(Part No.)		
表单编号 Form No.				版本/版次 Edition/Serial NO.	A00	共1页第1页 Page 1 of 1	比例(Scale)	雷赛机器人	