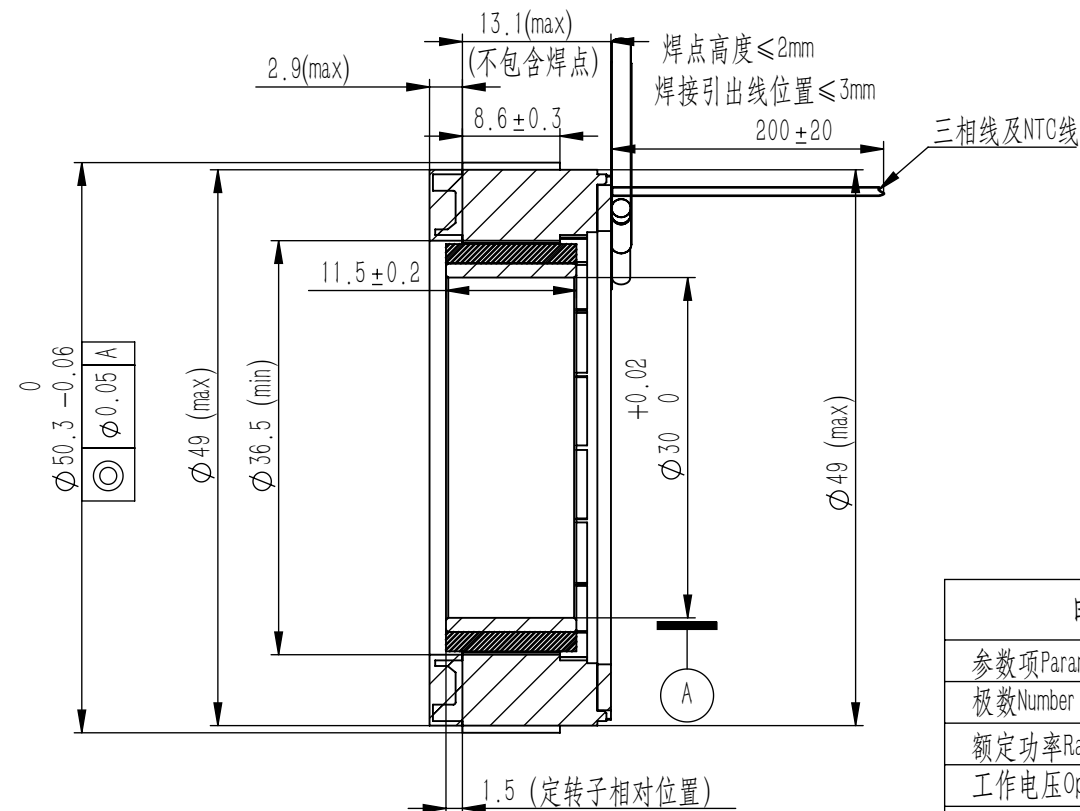
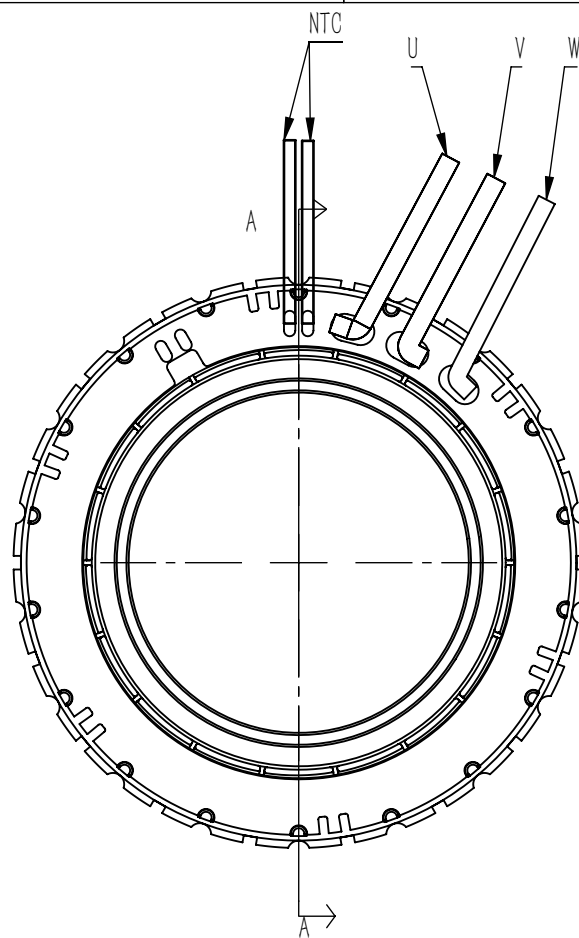
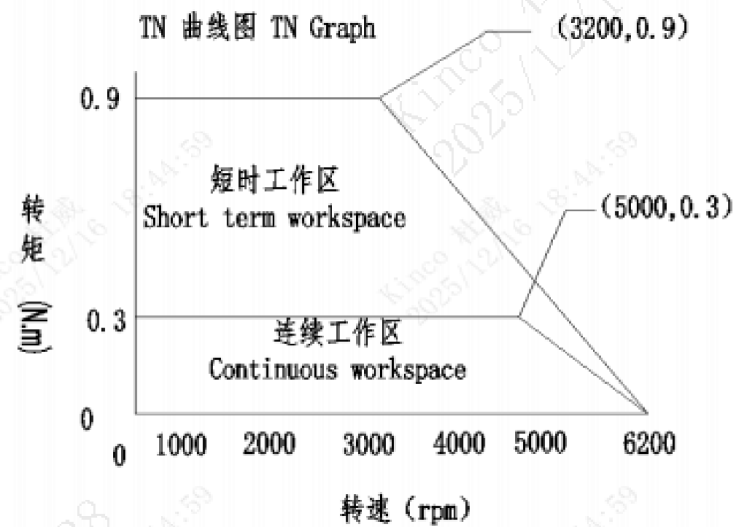




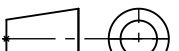
电机性能参数Motor performance parameters		
参数项Parameter item	单位Unit	参数值Parameter values
极数Number of poles	/	20
额定功率Rated Power	W	157
工作电压Operating supply voltage	V	48
额定电流Rated Current	A	3.7
额定转矩Rated Torque	N·m	0.3
额定转速Rated Speed	rpm	5000
最大电流Maximum current	A	10.8
最大转矩Maximum torque	N·m	0.9
最大转速Maximum speed	rpm	6200±10%
连续静态电流Standstill current	A	4.07
连续静态转矩Standstill torque	N·m	0.33
转动惯量Rotational inertia	kg·cm ²	0.07
线电阻Resistance line—line	Ω	0.93±10%
线电感Inductance line—line	mH	0.47±20%
反电动势常数EMF constant	v/krpm	5.37
转矩常数Torque constant	Nm/A	0.089
电气时间常数Electrical time constant	mS	0.62
机械时间常数Mechanical time constant	mS	0.61
电机重量Motor Weight	kg	0.096
绝缘等级Insulation Class	/	F级
反馈装置Feed back device	NTC (100k)	
温度传感器Temperature Sensor	/	
冷却方法Cooling method	不通风全封闭式 Totally enclosed non-ventilated	



技术要求 Technical requirements:

- 1、带★要求,为产品重要和关键特性
Requirements marked with ★ indicate important and critical features of the product
- 2、引出线不能断开,绝缘层和线芯不能损伤
The outgoing line cannot be disconnected, and the insulation layer and wire core cannot be damaged
- 3、定子引出线参照GB/T 7345-2008要求
The stator outgoing line shall comply with the requirements of GB/T 7345-2008
- 4、对于定子三相线,每根引出线应能承受9.0N的拉力
For stator three-phase wires, each lead out wire should be able to withstand a tensile force of 9.0N

信号定义 Definition	引线颜色 Colour	线径 Wire Diameter	备注 Remark
U	红	22AWG	
V	黄		
W	蓝		
NTC	白	26AWG	
NTC	白		

未注线性公差 Undeclared linear tolerance						批准Approve	HH	2025/12/30	料号Part No	307091727	产品外形图Product Outline Drawing		
0.5~3 ±0.2						标准化Standard	ZY	2025/12/30	型号Model	FWK05008-0016-5030N-10DP02	Kinco步科 步科股份：688160 The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited 页码Page NO Sheet 1 OF 1 A3		
>3~6 ±0.3		V1.3	△	更新TN曲线及质量	PCD25282	2025/12/19	工艺Technique	PHX	2025/12/30	版本Version			V1.3
>6~30 ±0.5		V1.2	△	更新电磁参数	PCD25147	2025/10/21	审核Check	LDY	2025/12/30	比例Scale			1.5:1
>30~120 ±0.8		V1.0	/	原始版本	新发布	2025/5/27	设计Design	DW	2025/12/30	投影法			
>120~400 ±1.2		VER	Mark	版本记录Version record	归档方式ECN No.	归档日期Date	评审Review	姓名Names	日期Date	Projection methods			