

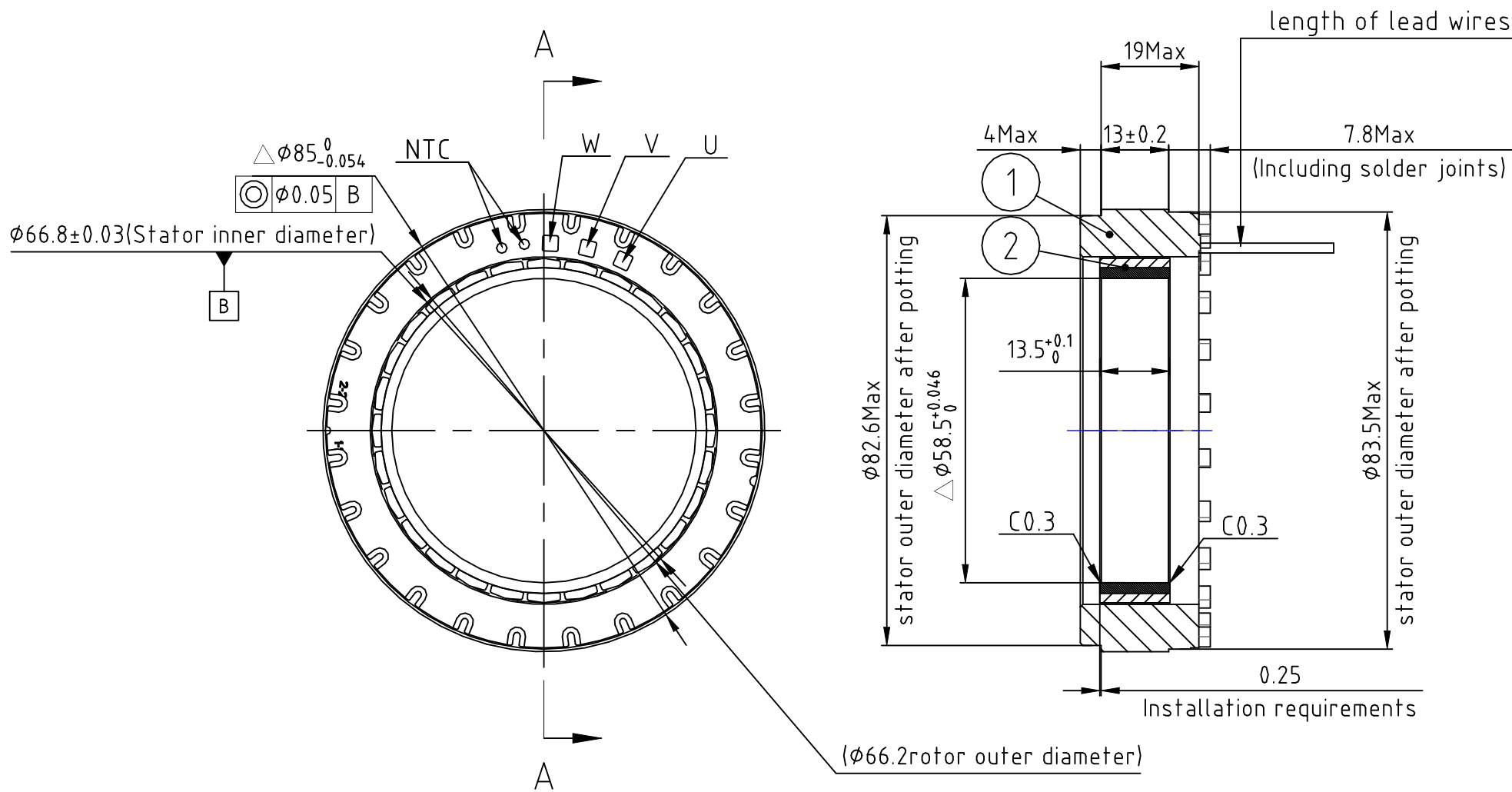
RoHS



NUMBER	COMPONENT	MODEL
1	stator	FM2-08513KTN256-S
2	rotor	FM2-08513KTN256-R

Definition of Line			
U	V	W	NTC(100KΩ@25℃)
YELLOW	RED	BLACK	BROWN
18AWG Silicone flexible cord		UL1430 28AWG	

A-A



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)	0.162±10% (20℃)
定子线电感 Statorwindinginductance (mH)	0.25±20% (20℃)
直流母线电压 DC Link Voltage (V)	48
额定电流 Rated Current (A)	11
额定转速 Rated Speed (rpm)	2500
额定力矩 Rated Torque (N.m)	1.8
瞬时最大力矩 Peak Torque (N.m)	7.0
瞬时最大电流 Peak Current (A)	55
最高转速 Maximum Speed (rpm)	3000
反电势系数 Back EMF constant (X 10 ⁻³ V/rpm)	10.8
力矩系数 Torque constant (N m/A)	0.179
转动惯量 Rotor moment of inertia (X 10 ⁻⁴ kg.m ²)	0.606
重量 Weight (kg)	0.33
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

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	2026/03/05	标准化 Standardized			材料(Material) :	名称(Title)	无框电机85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		比例(Scale)	雷赛机器人	
							FREE		
						共1页第1页 Page 1 of 1			