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NTC: (剥5 搪锡)
L=300±20

动力线: (剥5 搪锡)
L=300±20

紫 W

棕 V

蓝 U

受控

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

线束定义表Wire Singal Defintion			
信号定义 Defintion	引线颜色 Colour	线径Wire Diameter	备注 Remarks
U相 MOTOR U	蓝 BU	16 AWG	
V相 MOTOR V	棕 BN		
W相 MOTOR W	紫 VT		
NTC	白 WH	26AWG	
NTC	白 WH		

未注线性公差 Undeclared linear tolerance						批准Approve	HH	2025/12/23	料号Part No	307092060		产品外形图Product Outline Drawing Kinco步科 步科股份: 688160 The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited		
0.5~3	±0.2					标准化Standard	ZY	2025/12/23	型号Model	FMK08523-0073-3542N-10DP02				
>3~6	±0.3	V1.2	△	下端胶面4.5→4.7max	PCD25277	2025/12/23	工艺Technique	PHX	2025/12/23	版本Version	V1.2			
>6~30	±0.5	V1.1	△	设计优化, 更新铁芯叠厚公差	PCD25147	2025/10/21	审核Check	DW	2025/12/23	比例Scale	1:1			
>30~120	±0.8	V1.0	/	原始版本	新发布	2025/8/26	设计Design	LTL	2025/12/23	投影法 Projection methods		页码Page No	Sheet 1 OF 1	A3
>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Data					

TN 曲线图 TN Graph

短时工作区
Short term workspace

连续工作区
Continuous workspace

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	732
工作电压Operating supply voltage	V	48V DC
额定电流Rated Current	A	16.5
额定转矩Rated Torque	N.m	2
额定转速Rated Speed	rpm	3500
最大电流Maximum current	A	49.5
最大转矩Maximum torque	N.m	6
最大转速Maximum speed	rpm	4000±10%
连续静态电流Standstill current	A	18.15
连续静态转矩Standstill torque	N.m	2.2
转动惯量Rotational inertia	kg.cm2	1.5
线电阻Resistance line-line	Ω	0.065±10%
线电感Inductance line-line	mH	0.19±20%
反电动势常数EMF constant	v/krpm	8.1±5%
转矩常数Torque constant	Nm/A	0.134
电气时间常数Electrical time constant	ms	1.426
机械时间常数Mechanical time constant	ms	1.02
电机重量Motor Weight	kg	0.49
绝缘等级Insulation Class	/	F级
反馈装置Feed back device	/	
温度传感器Temperature Sensor	NTC温度传感器 (25℃ 100K)	
冷却方法Cooling method	不通风全封闭式Totally enclosed non-ventilated	

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