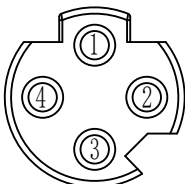
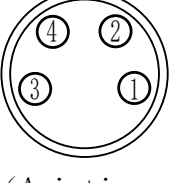
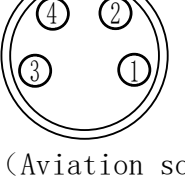
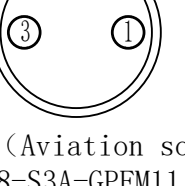
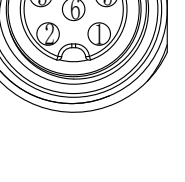
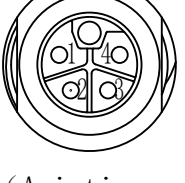
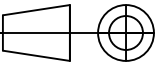
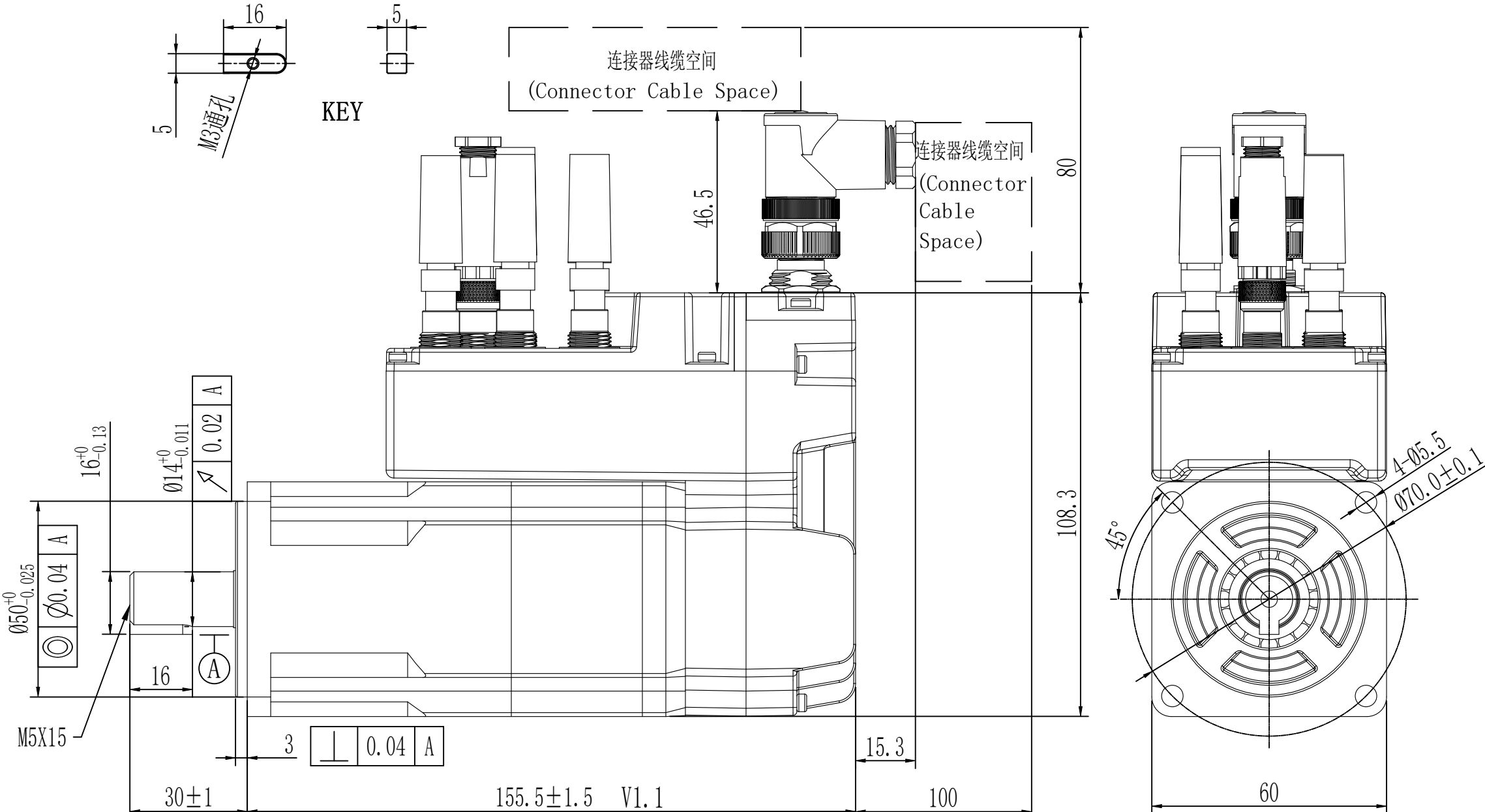


1			2			3			4			5			6			7			8			9			10		
1			X1A/X1B EtherCAT接口 (EtherCAT interface)			1	TD+						 航空插座 (Aviation socket) : M8-S4D-GPFM11 航空插头 (Aviation plug) : M8-P4D-PWA05																
						2	RD+																						
						3	TD-																						
						4	RD-																						
2			X3A DI接口 (DI interface)			1	24V						 航空插座 (Aviation socket) : M8-S4A-GPFM11 航空插头 (Aviation plug) : M8-P4A-PLA05																
						2	DI1																						
						3	GND																						
						4	DI2																						
3			X3B DI接口 (DI interface)			1	24V						 航空插座 (Aviation socket) : M8-S4A-GPFM11 航空插头 (Aviation plug) : M8-P4A-PLA05																
						2	DI3																						
						3	GND																						
						4	DI4																						
4			X3C DO接口 (DO interface)			1	D01						 航空插座 (Aviation socket) : M8-S3A-GPFM11 航空插头 (Aviation plug) : M8-P3A-PLA05																
						3	D02																						
						4	COMO																						
5			X3D 电池接口 (Battery interface)			1	BAT+						 航空插座 (Aviation socket) : M8-P3A-GPFM11 航空插头 (Aviation plug) : M8-S3A-PLA05																
						3	BAT-																						
						4	/																						
6			X4 STO接口 (STO interface)			1	24V						 航空插座 (Aviation socket) : M8-S6A-GPFM11 航空插头 (Aviation plug) : M8-P6A-PWA05																
						2	GND																						
						3	STOA-																						
						4	STOA+																						
						5	STOB+																						
						6	STOB-																						
7			X5 电源接口 (Power supply interface)			1	GNDS						 航空插座 (Aviation socket) : M12-P5L-GWFM16 航空插头 (Aviation plug) : M12-S5L-PLDP9																
						2	24VS																						
						3	DC-																						
						4	DC+																						
引线名称 Lead Name		引线号 Pin NO	信号定义 Definition	引线号 Pin NO	信号定义 Definition	颜色 Colour	线径Wire Diameter	连接器型号 Connector Models		备注 Remarks																			

未注线性公差 Undeclared linear tolerance							批准Approve	HHH	2025/12/1	料号Part No	3110200094		产品外形图Product Outline Drawing		
0.5~3	±0.2						标准化Standard	ZY	2025/12/1	型号Model	iSMD60D-040-DQBK-ES-000-P000		 步科股份：688160 The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited		
>3~6	±0.3						工艺Technique	JKK	2025/12/1	版本Version	V1.1				
>6~30	±0.5	V1.1	V1.1	修正电机长度 /		2025/12/01	审核Check	ZY	2025/12/1	比例Scale	1:1				
>30~120	±0.8	V1.0	/	原始版本 新发布		/	设计Design	FP	2025/12/1	投影法 Projection methods					
>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			页码Page No	Sheet 1 OF 2	A2

1		2		3		4		5		6		7		8		旧物料号：9.4928		10		A	
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1	2	3	4	5	6	7	8	9	10	
1										1
2										2
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5										5
6										6
7										7
8										8
1	2	3	4	5	6	7	8	旧物料号: 9.4928	10	A

一体机性能参数Performance parameters with Drive			
参数项Parameter item	单位Unit	参数值Parameter values	
动力电源Power supply	VDC	48	
逻辑电源Logic power	VDC	24	
额定功率Rated Power	W	400W	
额定电流Rated Current	A	10	
额定转矩Rated Torque	N.m	1.27	
额定转速Rated Speed	rpm	3000	
最大电流Maximum current	Arms	33.6	
最大转矩Maximum torque	N.m	3.81	
最大转速Maximum speed	rpm	4000	
转动惯量Rotational inertia	kg.cm2	0.49	
最大径向力Radial force Max	N	245	
最大轴向力Axial force Max	N	74	
重量Weight	kg	2.0	
绝缘等级Insulation Class	/	F	
防护等级Protection Degree	/	IP65	
工作制Working system	/	S1	
工作环境温度Working Temperature	/	-20~40℃	

TN 曲线图 TN Graph

转矩 (N·m)

4

2

0

0

1000

2000

3000

4000

5000

转速 (rpm)

(2100, 3.81)

短时工作区
Short term workspace

(3300, 1.27)

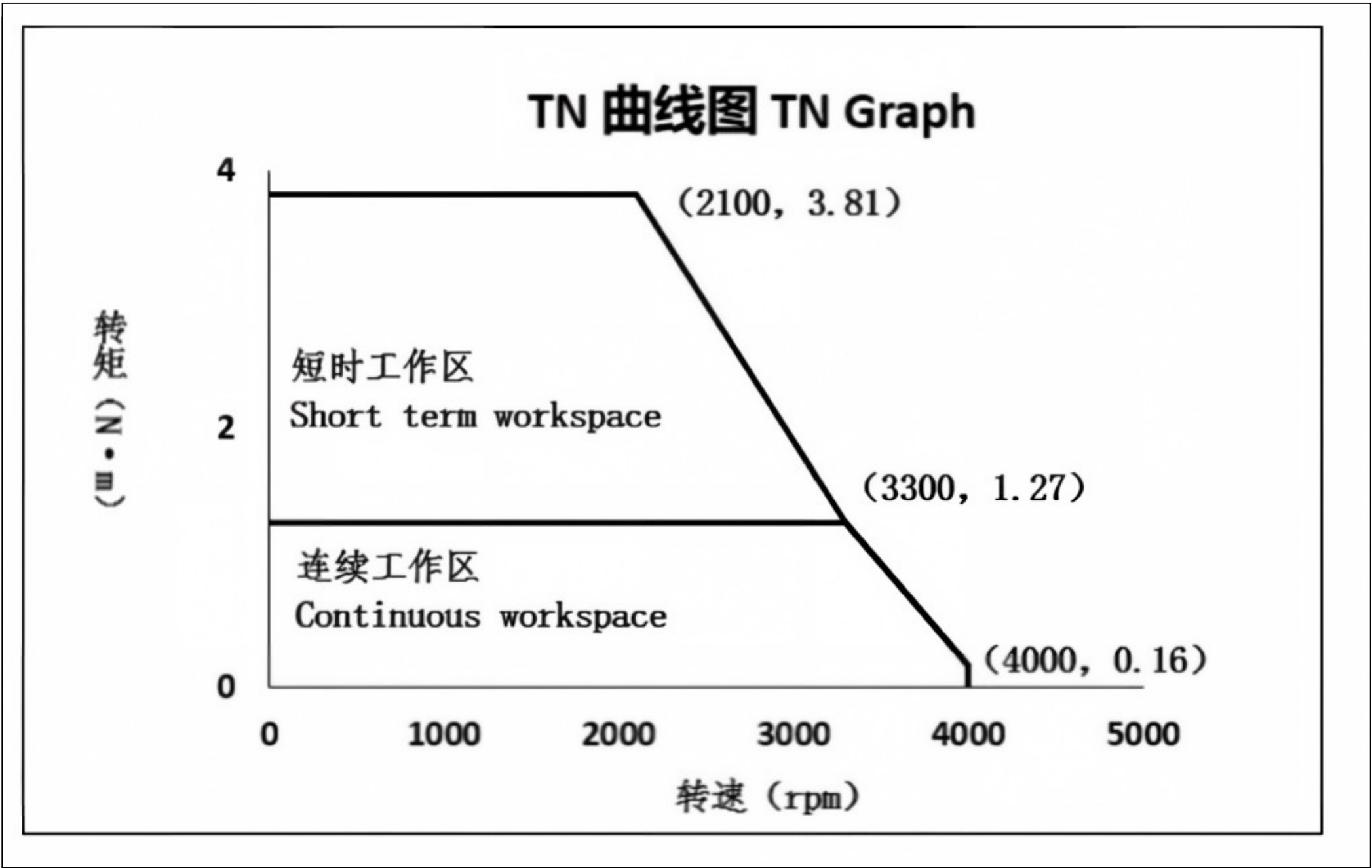
连续工作区
Continuous workspace

(4000, 0.16)

制动器性能参数Brake performance parameters			编码器性能参数Encoder performance parameters		
参数项Parameter item	单位Unit	参数值Values	参数项Parameter item	参数值Values	
额定电压Rated Voltage	V	24	类型Type	磁电式多圈绝对值 (Magnetic multi-turn absolute encoder)	
静力矩Static torque	N·m	2			
制动时间Braking time	ms	60			
释放时间Release time	ms	\	分辨率Resolution	131072 (M16/S17bit)	
吸合电压Attract Voltage	V	16			

未注线性公差 Undeclared linear tolerance						批准Approve	HH	2025/12/1	料号Part No	3110200094		产品外形图Product Outline Drawing
0.5~3	±0.2					标准化Standard	ZY	2025/12/1	型号Model	iSMD60D-040-DQBK-ES-000-P000		Kinco步科 步科股份：688160 The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited
>3~6	±0.3					工艺Technique	JKK	2025/12/1	版本Version	V1.1		
>6~30	±0.5	V1.1	V1.1	修正电机长度	/	2025/12/01	审核Check	ZY	2025/12/1	比例Scale	1:1	
>30~120	±0.8	V1.0	/	原始版本	新发布		设计Design	FP	2025/12/1	投影法 Projection methods		
>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	页码Page No	Sheet 2 OF 2	A2

一体机性能参数Performance parameters with Drive		
参数项Parameter item	单位Unit	参数值Parameter values
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逻辑电源Logic power	VDC	24
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额定转速Rated Speed	rpm	3000
最大电流Maximum current	Arms	33.6
最大转矩Maximum torque	N.m	3.81
最大转速Maximum speed	rpm	4000
转动惯量Rotational inertia	kg.cm2	0.49
最大径向力Radial force Max	N	245
最大轴向力Axial force Max	N	74
重量Weight	kg	2.0
绝缘等级Insulation Class	/	F
防护等级Protection Degree	/	IP65
工作制Working system	/	S1
工作环境温度Working Temperature	/	-20~40℃



制动器性能参数Brake performance parameters		
参数项Parameter item	单位Unit	参数值Values
额定电压Rated Voltage	V	24
静力矩Static torque	N•m	2
制动时间Braking time	ms	60
释放时间Release time	ms	\
吸合电压Attract Voltage	V	16

编码器性能参数Encoder performance parameters	
参数项Parameter item	参数值Values
类型Type	磁电式多圈绝对值 (Magnetic multi-turn absolute encoder)
分辨率Resolution	131072 (M16/S17bit)

未注线性公差 Undeclared linear tolerance						批准Approve	HH	2025/12/1	料号Part No	3110200094	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			
						标准化Standard	ZY	2025/12/1	型号Model	iSMD60D-040-DQBK-ES-000-P000				
	0.5~3	±0.2					工艺Technique	JKK	2025/12/1	版本Version	V1.1			
	>3~6	±0.3					审核Check	ZY	2025/12/1	比例Scale	1:1			
	>6~30	±0.5	V1.1	V1.1	修正电机长度	/	2025/12/01	设计Design	FP	2025/12/1	投影法 Projection methods			
>30~120	±0.8	V1.0	/	原始版本	新发布		评审Review	姓名Names	日期Data					
>120~400	±1.2	VER	Mark	版本记录Version record	归档方式ECN No	归档日期Date						页码Page No	Sheet 2 OF 2	A2