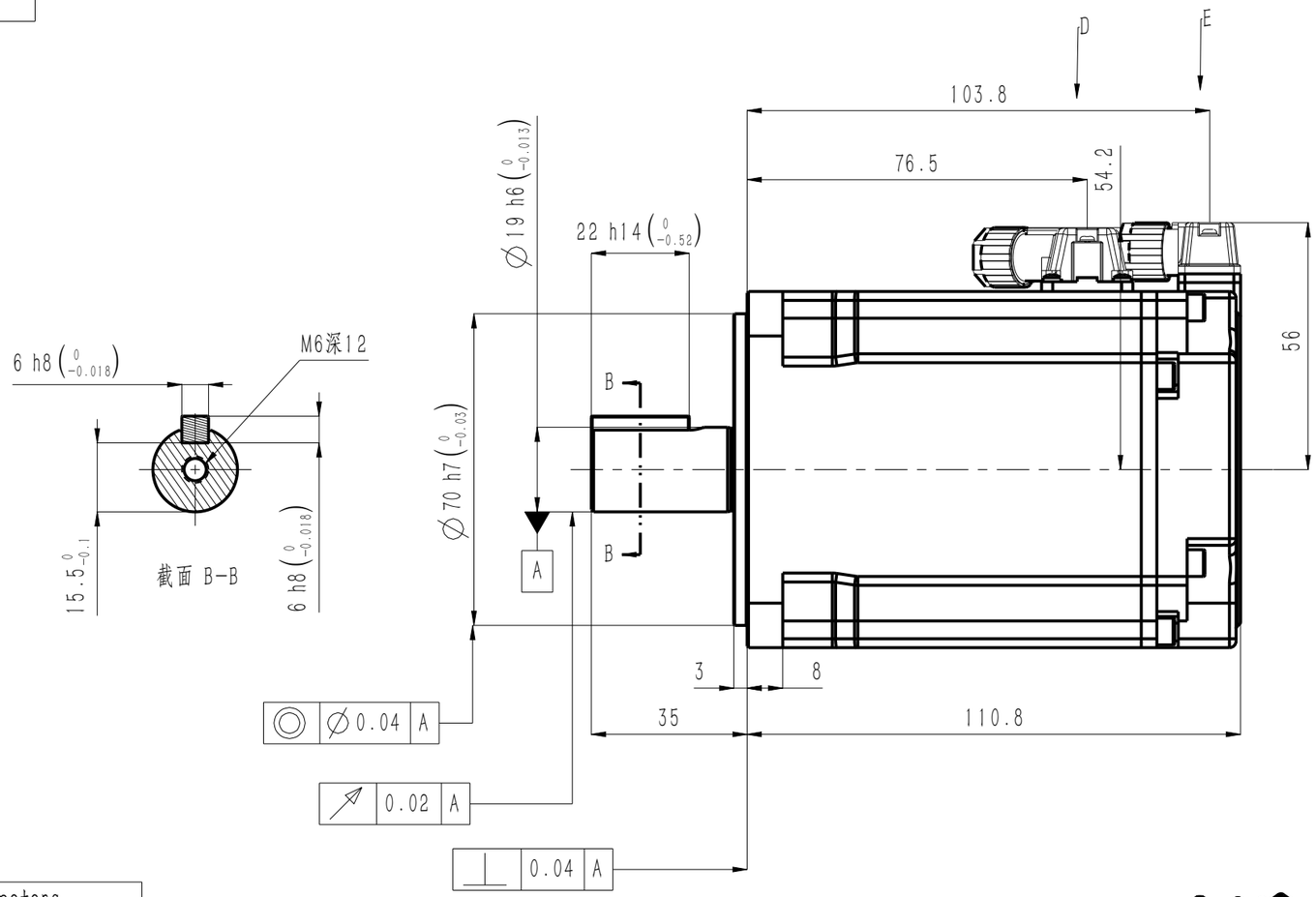
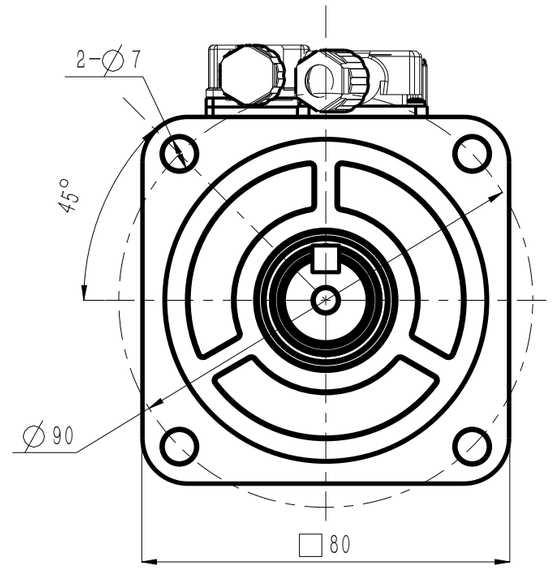
版 本 Edition	变更内容 Description of the change
B	模板更新

B
2026.02.12
正样





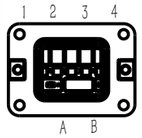
电机技术参数 Motor parameters

额定电压 Rated voltage	220	V AC
额定功率 Rated power	1.0	kW
额定扭矩 Rated torque	3.18	N · m
峰值扭矩 Peak torque	11.14	N · m
额定电流 Rated current	5.5	Arms
峰值电流 Peak current	19	Arms
额定转速 Rated speed	3000	rpm
峰值转速 Maximum speed	7000	rpm
扭矩系数 Torque constant	0.61	N.m/Arms
反电势常数 Back EMF constant	39.2	V/krpm
线电阻 line resistance	1.05	Ω
线电感 line inductance	7.01	mH
转动惯量 Moment of inertia	2.2±10%	kg · cm2
轴向允许载荷 Axial allowable load	147	N
径向允许载荷 Radial allowable load	392	N
极对数 Number of pole pairs	5	对
IP防护等级 Ingress Protection Rating	IP67	
绝缘等级 Insulation class	F	
绝缘电阻 Insulation resistance	>100MΩ DC500V	
电机重量 Motor weight	2.6	kg
工作温度 Operating temperature	-20℃~40℃	
工作湿度 Operating humidity	20%~80% (不结露 Non-dewfall)	
推荐安装海拔 Recommend installing altitude	<1000m(1km以上降额使用) (Derate for use above 1km)	

动力端子规格 Power connector

SC-MC6P-AP2G-054

D



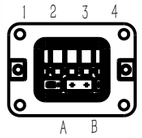
标准款引线定义 Wiring definition without brake

1	2	3	4	A	B
V	U	W	PE	–	

动力端子规格 Power connector

SC-MC6P-AP2G-044

D



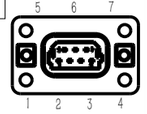
抱闸款引线定义 Wiring definition with brake

1	2	3	4	A	B
V	U	W	PE	24V DC	0V

信号端子规格 Encoder connector

SC-MC7M-A60G-180

E

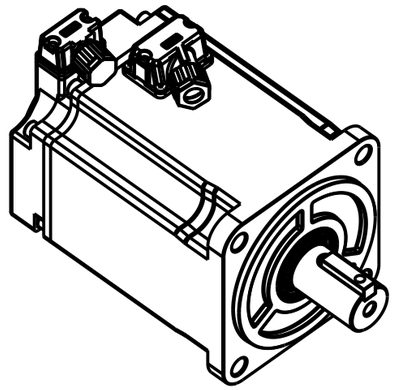


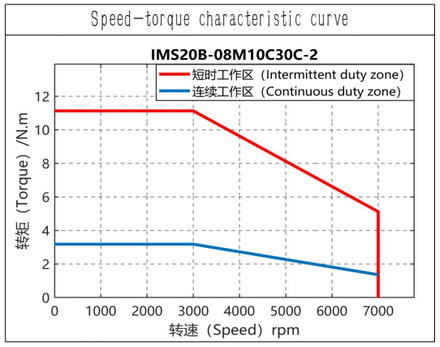
编码器规格 Connector specifications

17-bit magnetic encoder
23-bit optical encoder

引线定义 Wiring definition

1	2	3	4	5	6	7
SD+ (白)	SD- (棕)	BAT+ (蓝)	BAT- (黄)	+5V (红)	0V (黑)	PE (绿)





SN	料号 P/N	整机型号 Model and Specification	编码器 Encoder
1	11101-01313	IMS20B-08M10C30C-2-M4-AUL	17位多圈磁编
2	11101-01309	IMS20B-08M10C30C-2-P9-AUL	23位多圈光编

B	替换	/	20260208
A	新归档	/	20250826
版 本	更改方式	更改人	日期
设 计	/		
校 核	/		
工 艺	/		
审 核	/		
标准化	/		
批 准	/		

深圳市英威腾电气股份有限公司
Shenzhen INVT Electric Co., Ltd.

名 称	电机外形图 Motor outline dimension drawing		
料 号	/	材 质	/
图 号	/	投影标识	
重 量	/	比 例	1:1
		第 1 页	共 1 页