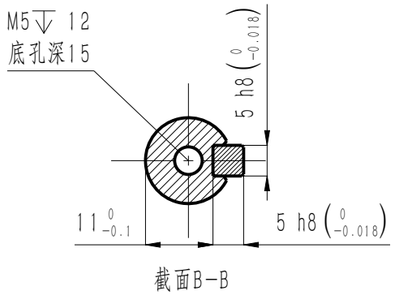
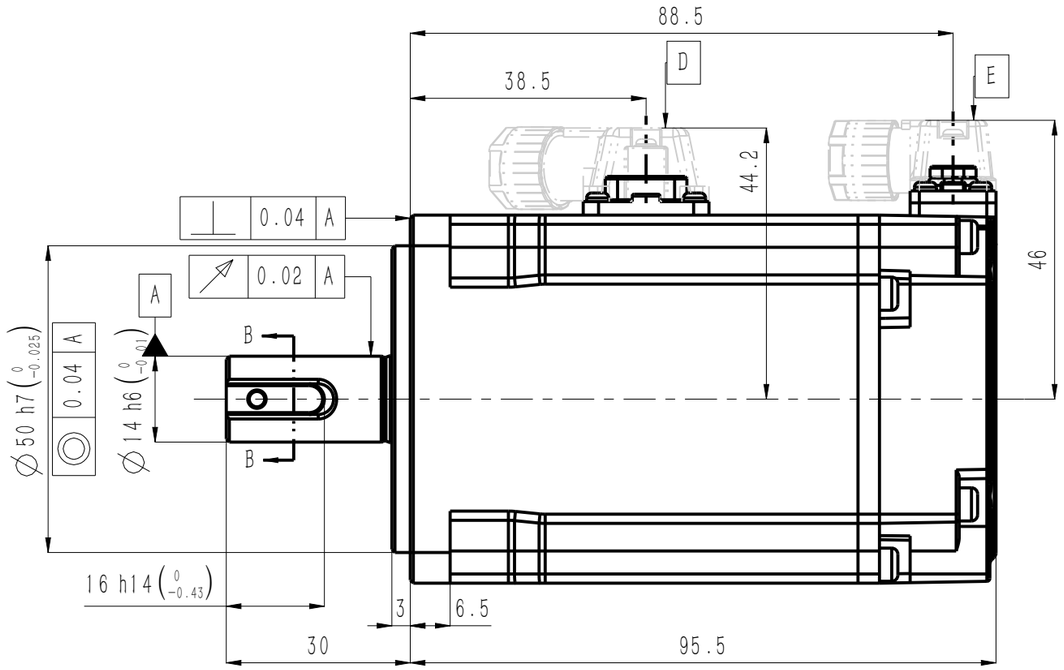
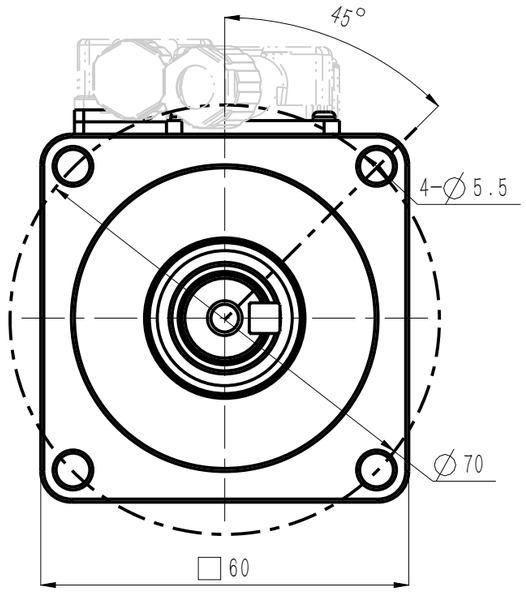
版 本 Edition	变更内容 Description of the change
B	外形图模板变更

B
2026.02.06
正样



截面B-B





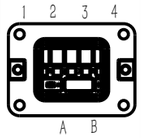
抱闸参数 Brake parameters		
额定电压 Rated voltage	24±10%	V DC
额定功率 Rated power	7.5	W
电阻(20℃) Resistance	76.8±7%	Ω
额定扭矩 Rated torque	1.3	N·m
释放电压 Release voltage	0.5~8	V
吸引电压 Pickup voltage	<16.8	V
吸合时间 Pickup time	<60	ms
释放时间 Release time	<20	ms
回转间隙 Rotational Clearance	<0.5° (20%额定扭矩) (20%Rated torque)	

电机技术参数 Motor parameters		
额定电压 Rated voltage	220	V AC
额定功率 Rated power	0.2	kW
额定扭矩 Rated torque	0.64	N·m
峰值扭矩 Peak torque	2.24	N·m
额定电流 Rated current	1.4	Arms
峰值电流 Peak current	4.6	Arms
额定转速 Rated speed	3000	rpm
峰值转速 Maximum speed	7000	rpm
扭矩系数 Torque constant	0.51	N.m/Arms
反电势常数 Back EMF constant	34.41	V/krpm
线电阻 line resistance	11.72	Ω
线电感 line inductance	31.46	mH
转动惯量 Moment of inertia	0.31±10%	kg·cm2
轴向允许载荷 Axial allowable load	74	N
径向允许载荷 Radial allowable load	245	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	1.1	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

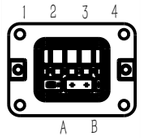


标准款引线定义 Wiring definition without brake					
1	2	3	4	A	B
V	U	W	PE	–	

动力端子规格 Power connector

SC-MC6P-AP2G-044

D

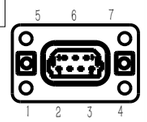


抱闸款引线定义 Wiring definition with brake					
1	2	3	4	A	B
V	U	W	PE	24V DC	0V

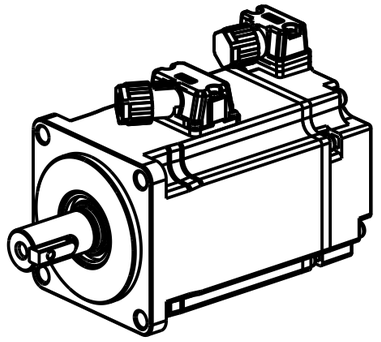
信号端子规格 Encoder connector

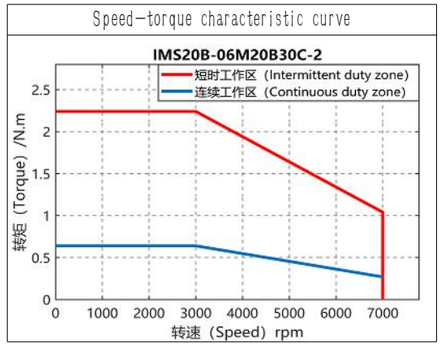
SC-MC7M-A60G-180

E



编码器规格 Connector specifications	引线定义 Wiring definition						
	1	2	3	4	5	6	7
17-bit magnetic encoder 23-bit optical encoder	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	11101-01192	IMS20B-06M20B30C-2-M44-AUL	17位多圈磁编
2	11101-01194	IMS20B-06M20B30C-2-P94-AUL	23位多圈光编

				深圳市英威腾电气股份有限公司 Shenzhen INVT Electric Co., Ltd.		
B	替 换	/	20260204			
A	新归档	/	20250928	名 称	电机外形图 Motor outline dimension drawing	
版 本	更改方式	更改人	日 期			
设 计	/			料 号	/	材 质 /
校 核	/					
工 艺	/			图 号	/	投影标识
审 核	/					
标准化	/			重 量	/	比 例 1:1
批 准	/					第 1 页 共 1 页