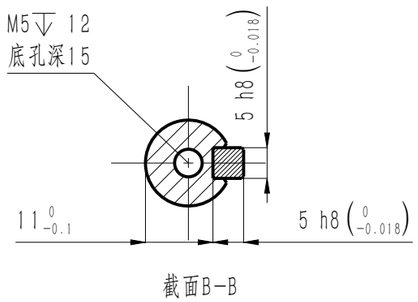
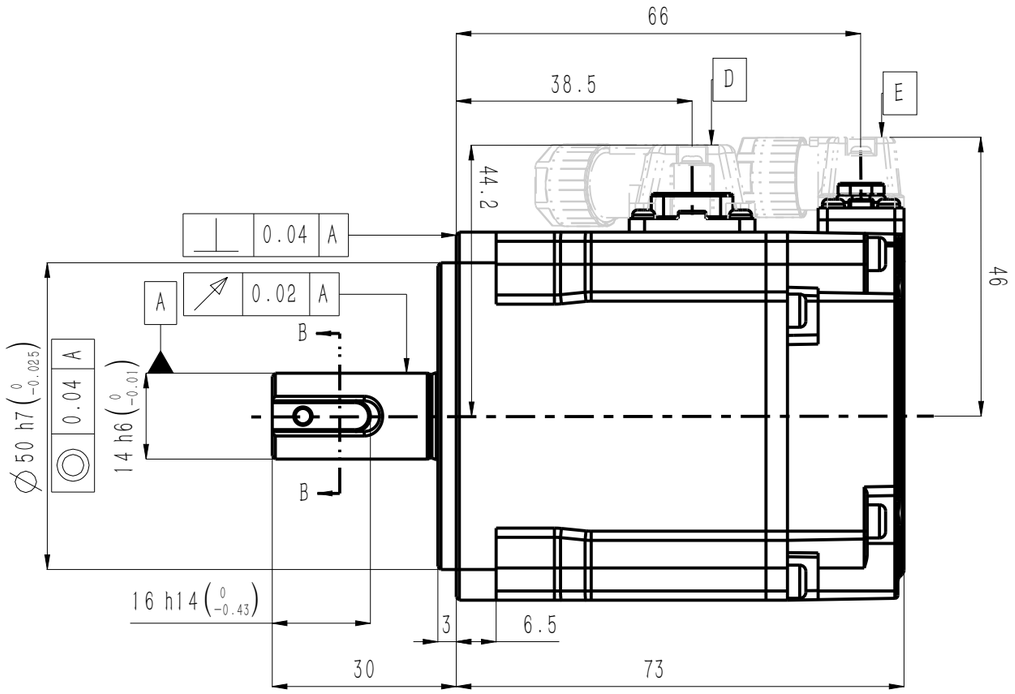
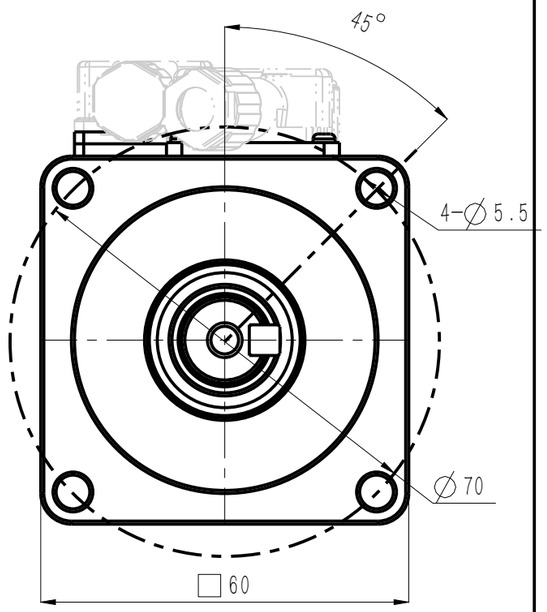
版 本 Edition	变更内容 Description of the change
B	外形图模板变更

B
2026.02.06
正样



截面B-B



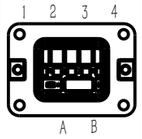


电机技术参数 Motor parameters		
额定电压 Rated voltage	220	V AC
额定功率 Rated power	0.2	kW
额定扭矩 Rated torque	0.64	N · m
峰值扭矩 Peak torque	2.24	N · m
额定电流 Rated current	1.4	Arms
峰值电流 Peak current	4.6	Arms
额定转速 Rated speed	3000	rpm
峰值转速 Maximum speed	7000	rpm
扭矩系数 Torque constant	0.51	N.m/Arms
反电势常数 Back EMF constant	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	0.28±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	0.8	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

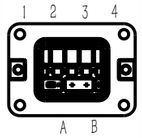


标准款引线定义 Wiring definition without brake					
1	2	3	4	A	B
V	U	W	PE	–	

动力端子规格 Power connector

SC-MC6P-AP2G-044

D

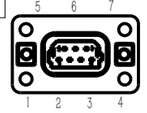


抱闸款引线定义 Wiring definition with brake					
1	2	3	4	A	B
V	U	W	PE	24V DC	0V

信号端子规格 Encoder connector

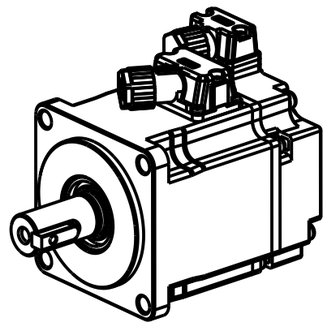
SC-MC7M-A60G-180

E

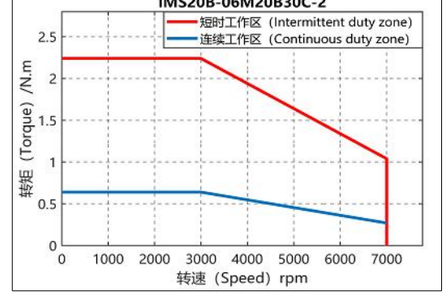


编码器规格 Connector specifications: 17-bit magnetic encoder 23-bit optical encoder

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)	



Speed-torque characteristic curve



SN	料号 P/N	整机型号 Model and Specification	编码器 Encoder
1	11101-01195	IMS20B-06M20B30C-2-M4-AUL	17位多圈磁编
2	11101-01196	IMS20B-06M20B30C-2-P9-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