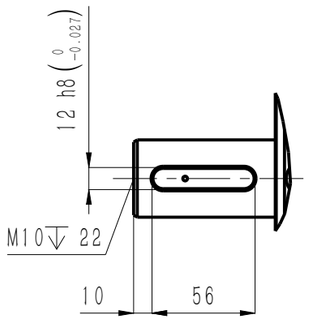
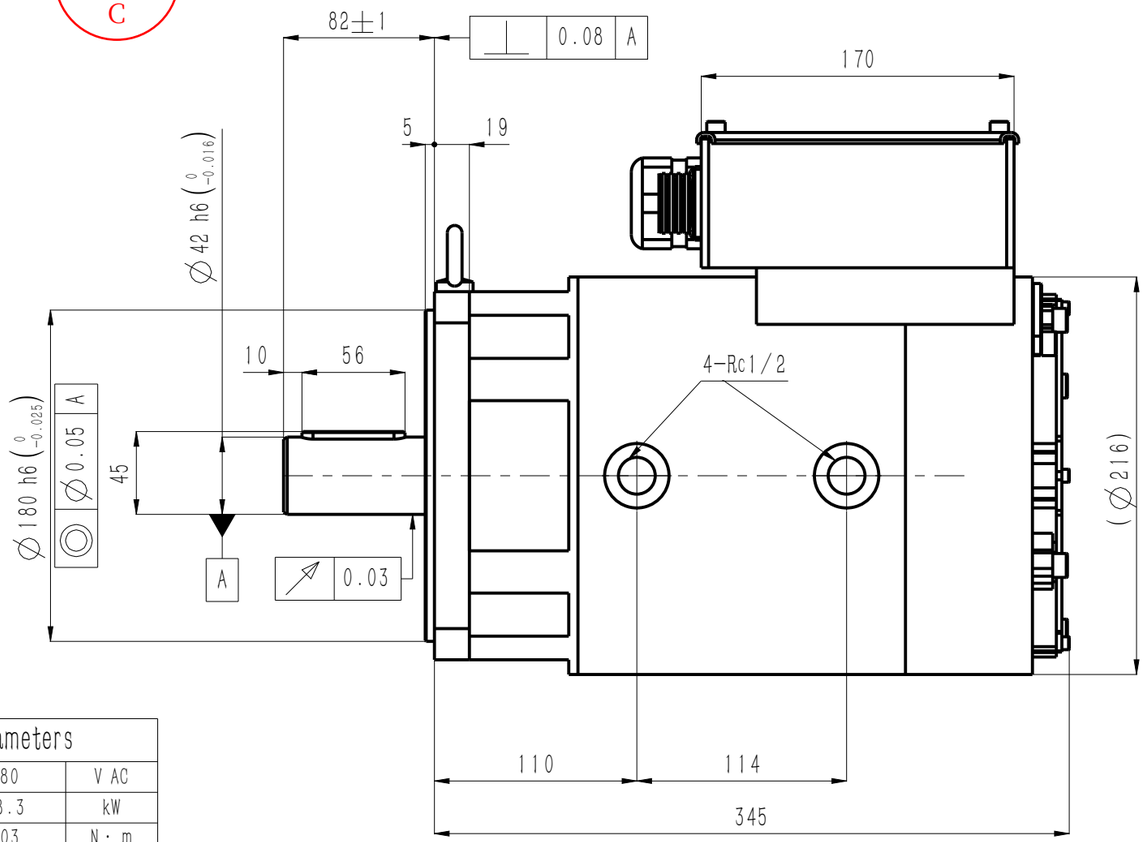
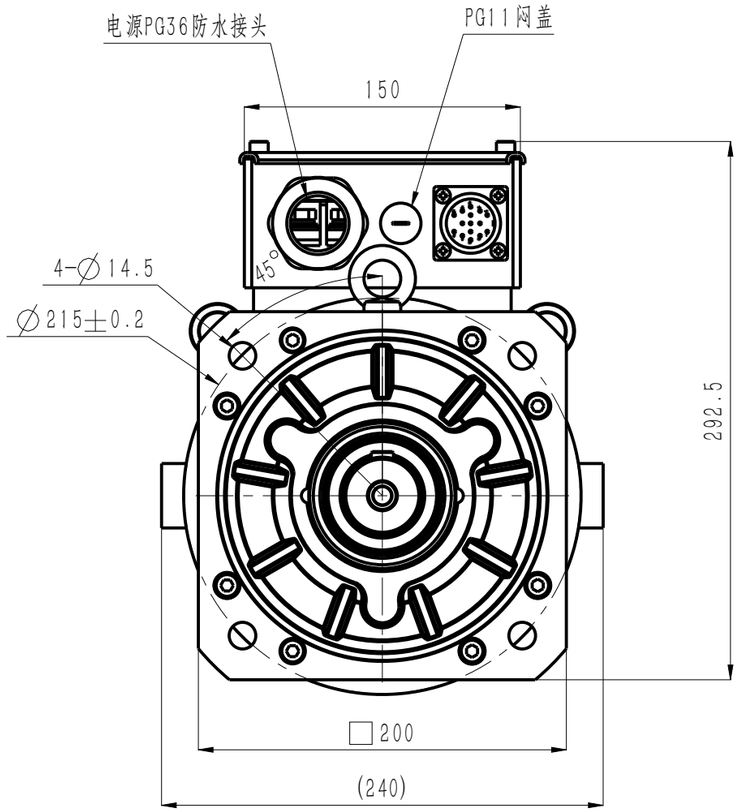
版 本 Edition	变更内容 Description of the change
C	图纸模板变更

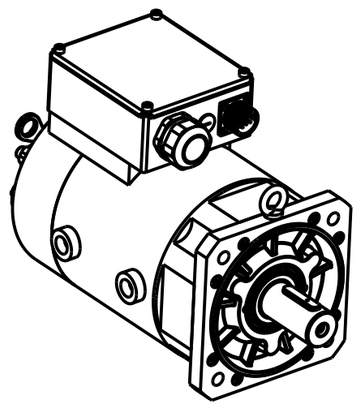
正样
2026.02.24
C

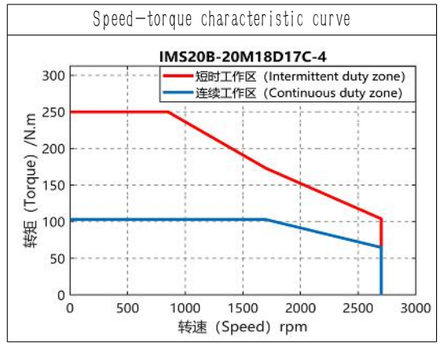


标配： A型圆头普通平键
A12X8X56(GB/T1096)



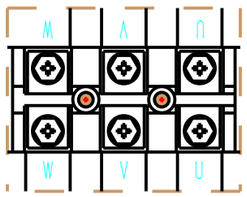


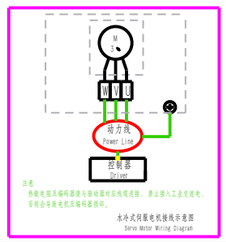




电机技术参数 Motor parameters		
额定电压 Rated voltage	380	V AC
额定功率 Rated power	18.3	kW
额定扭矩 Rated torque	103	N · m
额定电流 Rated current	32.8	Arms
峰值扭矩(850rpm) Peak torque	250	N · m
峰值电流(850rpm) Peak current	72.7	Arms
峰值扭矩(1700rpm) Peak torque	173	N · m
峰值电流(1700rpm) Peak current	60.1	Arms
峰值扭矩(2700rpm) Peak torque	104	N · m
峰值电流(2700rpm) Peak current	60.1	Arms
额定转速 Rated speed	1700	rpm
峰值转速 Maximum speed	2700	rpm
扭矩系数 Torque constant	3.14	N.m/Arms
反电势常数 Back EMF constant	233.3	V/krpm
线电阻 line resistance	0.61	Ω
线电感 line inductance	13.75	mH
转动惯量 Moment of inertia	115±10%	kg · cm2
轴向允许载荷 Axial allowable load	/	N
径向允许载荷 Radial allowable load	/	N
极对数 Number of pole pairs	4	对
IP防护等级 Ingress Protection Rating	IP55	
绝缘等级 Insulation class	F	
绝缘电阻 Insulation resistance	＞100MΩ DC500V	
电机重量 Motor weight	53	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)	

引线定义
Wiring definition





信号航插规格 Encoder connector	编码器规格 Connector specifications	引线定义 Wiring definition								
		1	2	3	4	5	6	7	8	9
YD28J15Z	23-bit optical encoder	PE (屏蔽)	SD+ (蓝)	SD- (黄)	+5V (红)	0V (黑)	BAT+ (棕)	BAT- (白)	KTY84-130+ (黄)	KTY84-130- (绿)
2 5 10 13 15 1 3 6 11 14	12-bit Resolver encoder	PE (屏蔽)	Ref+ (红白)	Ref- (黄白)	Cos- (黑)	Cos+ (红)	Sin+ (黄)	Sin- (蓝)	KTY84-130+ (黄)	KTY84-130- (绿)

SN	料号 P/N	整机型号 Model and Specification	编码器 Encoder
	11101-01779	IMS20B-20M18D17C-4-R7Y-A	12位旋变
	11101-01782	IMS20B-20M18D17C-4-P9Y-A	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.			
C	替换	/	26-2-10	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