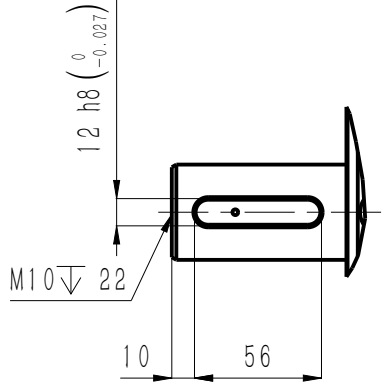


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2026.03.13
A

| 版本 Edition | 变更内容 Description of the change |
|------------|--------------------------------|
| | |



标配：A型圆头普通平键
A12X8X56(GB/T1096)

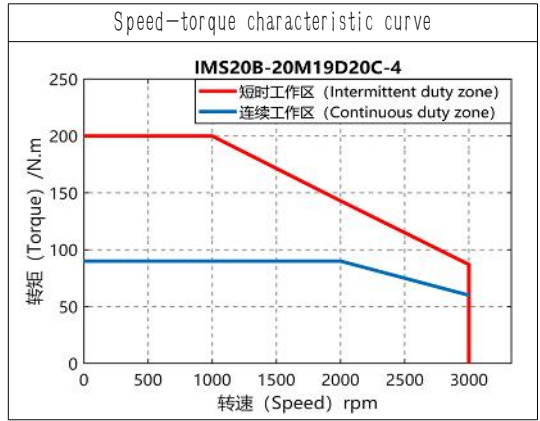
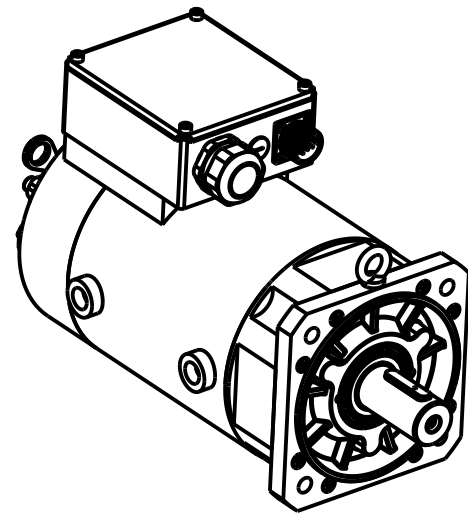
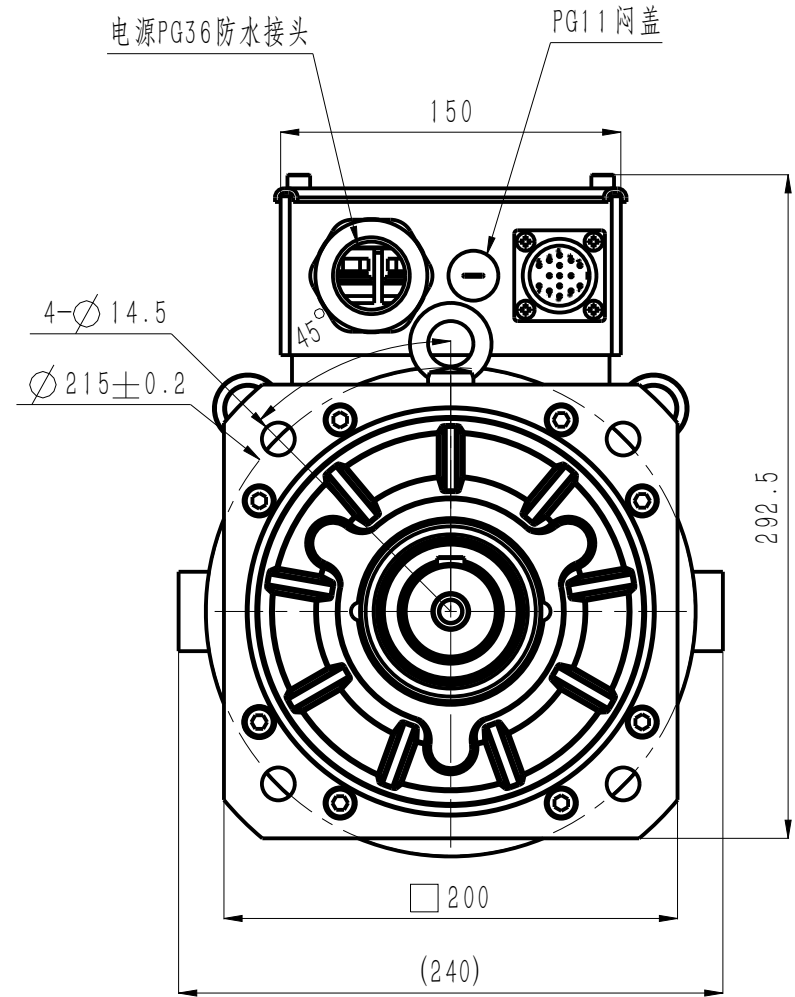
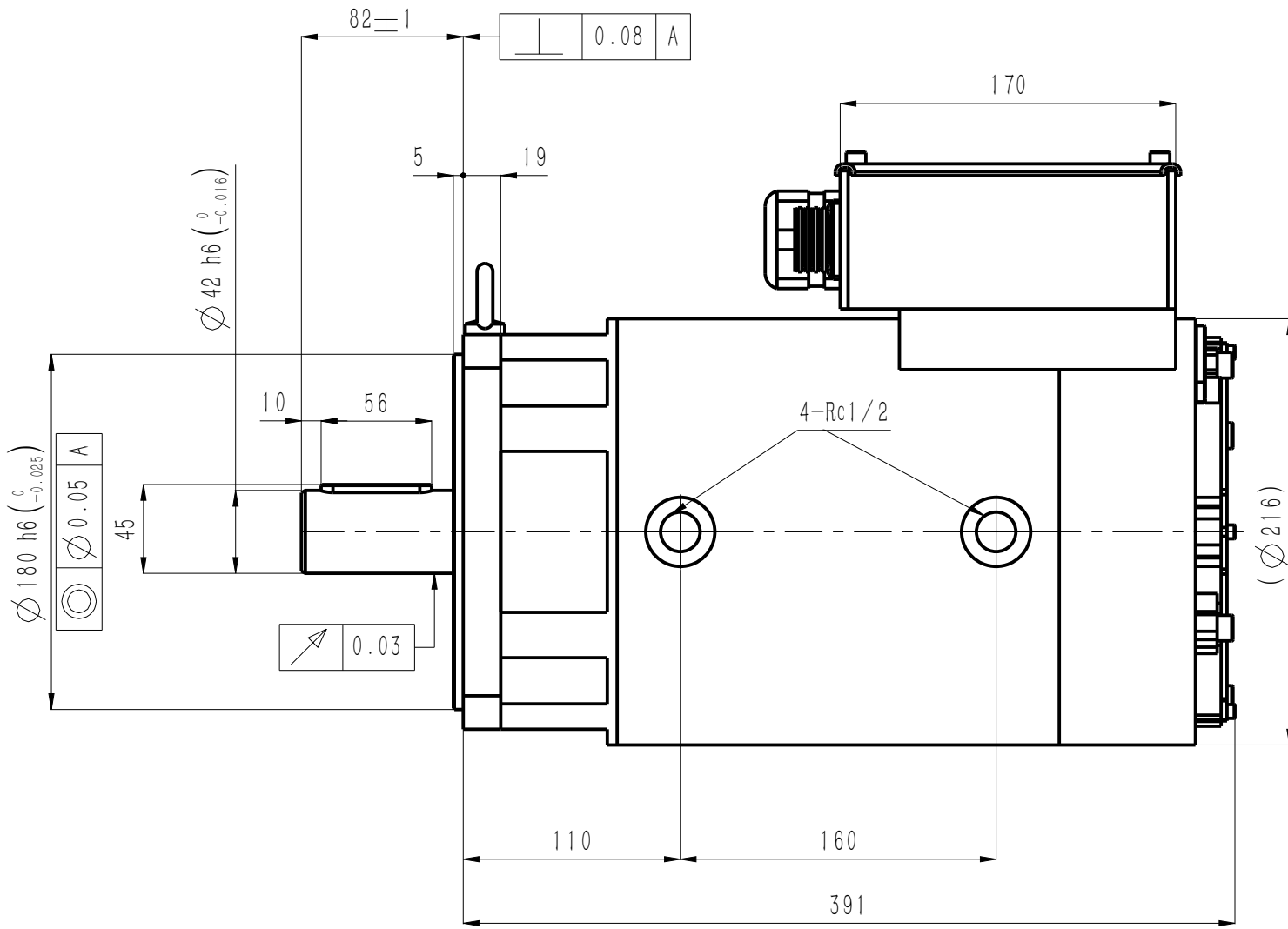
抱闸参数 Brake parameters

| | | |
|---------------------------|------------------------------------|------|
| 额定电压 Rated voltage | 24 | V DC |
| 额定功率 Rated power | 55 | W |
| 电阻(20℃) Resistance | 10.5±7% | Ω |
| 额定扭矩 Rated torque | ≥150 | N·m |
| 释放电压 Release voltage | ≥1.2 | V |
| 吸引电压 Pickup voltage | ≤18 | V |
| 吸合时间 Pickup time | ≤350 | ms |
| 释放时间 Release time | ≤80 | ms |
| 回转间隙 Rotational Clearance | ≤1° (20%额定扭矩) (20%Rated torque) | |

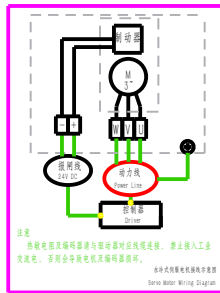
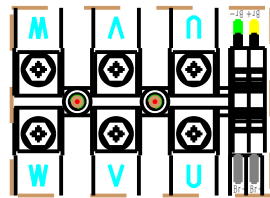
电机技术参数 Motor parameters

| | | |
|------------------------------|---------|--------------------|
| 额定电压 Rated voltage | 380 | V AC |
| 额定功率 Rated power | 18.8 | kW |
| 额定扭矩 Rated torque | 90 | N·m |
| 额定电流 Rated current | 33.6 | Arms |
| 峰值扭矩(1000rpm) Peak torque | 200 | N·m |
| 峰值电流(1000rpm) Peak current | 68.5 | Arms |
| 峰值扭矩(2000rpm) Peak torque | 143 | N·m |
| 峰值电流(2000rpm) Peak current | 60.1 | Arms |
| 峰值扭矩(3000rpm) Peak torque | 87 | N·m |
| 峰值电流(3000rpm) Peak current | 55.9 | Arms |
| 额定转速 Rated speed | 2000 | rpm |
| 峰值转速 Maximum speed | 3000 | rpm |
| 扭矩系数 Torque constant | 2.68 | N·m/Arms |
| 反电势常数 Back EMF constant | 203.6 | V/krpm |
| 线电阻 line resistance | 0.57 | Ω |
| 线电感 line inductance | 11.6 | mH |
| 转动惯量 Moment of inertia | 106±10% | kg·cm ² |
| 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 |

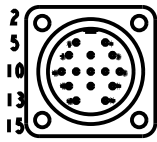
| | | |
|-----------------------------------------|-------------------------------------------------|----|
| IP 防护等级 Ingress Protection Rating | IP55 | |
| 绝缘等级 Insulation class | F | |
| 绝缘电阻 Insulation resistance | >100MΩ DC500V | |
| 电机重量 Motor weight | 60 | kg |
| 工作温度 Operating temperature | -20℃~40℃ | |
| 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位多圈光编 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) |
| | 12位旋变 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 | |
| | 11101-02120 | | | IMS20B-20M19D20C-4-P94Y-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. | | | |
| | | | | | | | |
| A | 新归档 | / | 26-3-7 | 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 | | | |