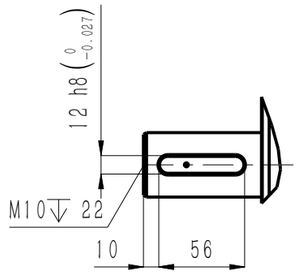
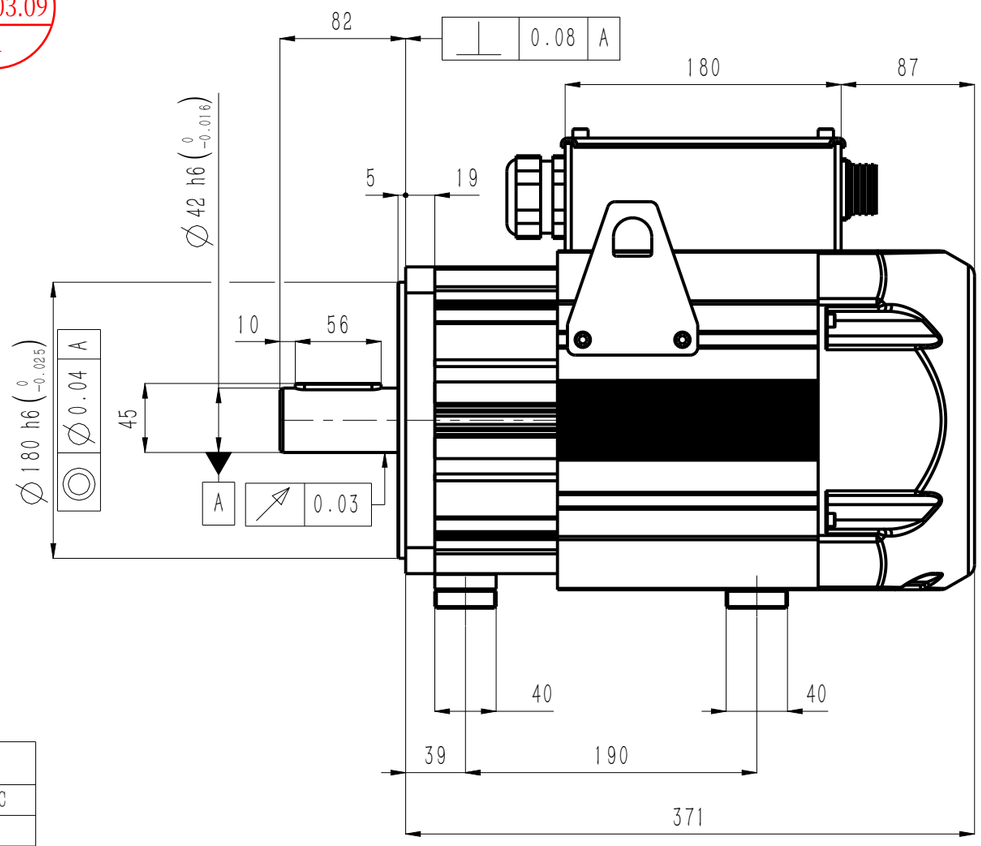
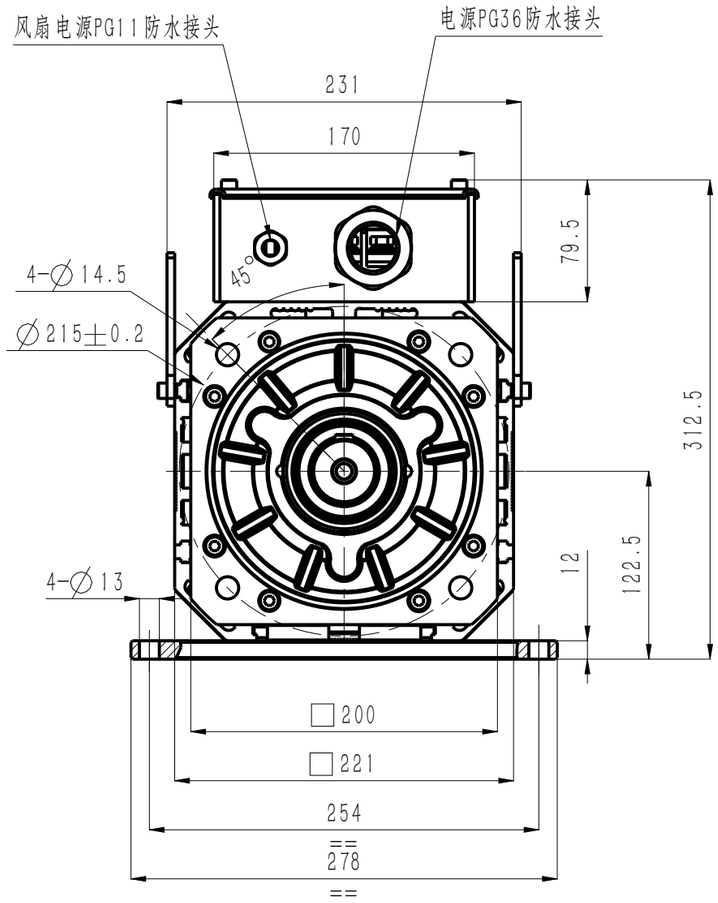
| 版 本 Edition | 变更内容 Description of the change |
|---|---|
| | |

正样
2026.03.09
A



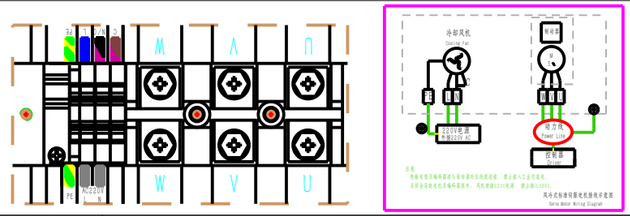

标配：A型圆头普通平键
A12X8X56(GB/T1096)




| 电机技术参数 Motor parameters | | |
|---|---|---|
| 额定电压 Rated voltage | 380 | V AC |
| 额定功率 Rated power | 9.4 | kW |
| 额定扭矩 Rated torque | 60 | N · m |
| 额定电流 Rated current | 16.3 | Arms |
| 峰值扭矩(750rpm) Peak torque | 150 | N · m |
| 峰值电流(750rpm) Peak current | 43.8 | Arms |
| 峰值扭矩(1500rpm) Peak torque | 125 | N · m |
| 峰值电流(1500rpm) Peak current | 46.4 | Arms |
| 峰值扭矩(2500rpm) Peak torque | 63 | N · m |
| 峰值电流(2500rpm) Peak current | 34.1 | Arms |
| 额定转速 Rated speed | 1500 | rpm |
| 峰值转速 Maximum speed | 2500 | rpm |
| 扭矩系数 Torque constant | 3.68 | N · m/Arms |
| 反电势常数 Back EMF constant | 237.7 | V/krpm |
| 线电阻 line resistance | 1.13 | Ω |
| 线电感 line inductance | 21.76 | mH |
| 转动惯量 Moment of inertia | 73±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 | IP54 | |
| 绝缘等级 Insulation class | F | |
| 绝缘电阻 Insulation resistance | ＞100MΩ DC500V | |
| 电机重量 Motor weight | 40.6 | kg |
| 工作温度 Operating temperature | -20℃~40℃ | |
| 工作湿度 Operating humidity | 20%~80%<br>(不结露 Non-dewfall) | |
| 推荐安装海拔<br>Recommend installing altitude | ＜1000m(1km以上降额使用)<br>(Derate for use above 1km) | |

引线定义
Wiring definition

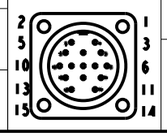




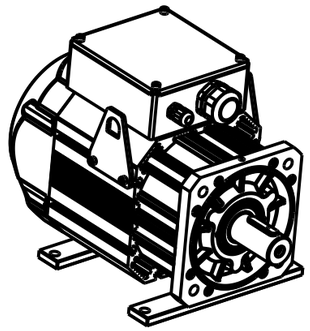


信号航插规格
Encoder connector

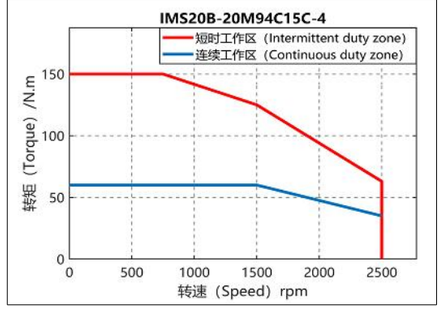
YD28J15Z




| 编码器规格 Connector specifications | 引线定义 Wiring definition | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 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-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) |



Speed-torque characteristic curve




| SN | 料号 P/N | 整机型号 Model and Specification | 编码器 Encoder |
|---|---|---|---|
| | 11101-01480 | IMS20B-20M94C15C-4-R7F-A | 12位旋变 |
| | 11101-01481 | IMS20B-20M94C15C-4-P9F-A | 23位多圈光编 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | 深圳市英威腾电气股份有限公司<br>Shenzhen INVT Electric Co., Ltd. | | | |
| A | 新归档 | / | 26-2-9 | 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 |