

ZLAC8030L V2.0 上位机使用说明

ZLAC8030L V2.0 PC Software Instruction

版本/Version	说明/Description	日期/Date
V1.00	初版/First Edition	2023/9/11

目录

CATALOGUE

一、 选择中英文版本上位机	2
SELECT CHINESE AND ENGLISH VERSIONS OF PC SOFTWARE	2
二、 使用上位机控制电机运行	3
USE PC SOFTWARE TO CONTROL MOTOR	3
三、 修改参数	8
CHANGE PARAMETERS	8
四、 导出参数	11
EXPORT PARAMETERS	11
五、 导入参数	13
IMPORT PARAMETERS	13

一、选择中英文版本上位机（上位机软件只能使用 RS485 连接）Select Chinese and English versions of PC software（The software only supports RS485 protocol）

1.1、打开上位机软件

Open software

双击上位机应用文件 → 出现如下图对话框 → 选择“English”，上位机就是英文版本，不选择，上位机就是中文版本 → 选择对应的驱动器型号。

Double → Click the software icon → The dialog box appears as follows → If wanting English version, click "English", if wanting Chinese version, do not click "English" → Select the corresponding driver part number.



中文版本（Chinese version）

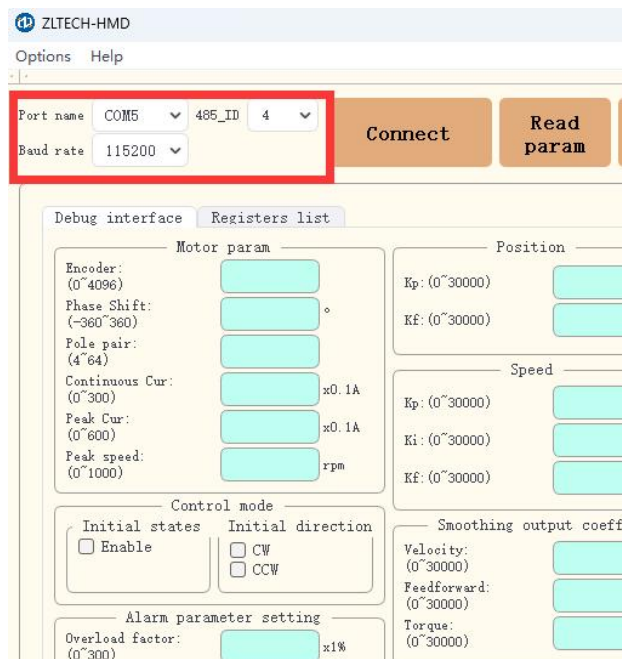


英文版本（English version）

二、使用上位机控制电机运行 Use PC software to control motor

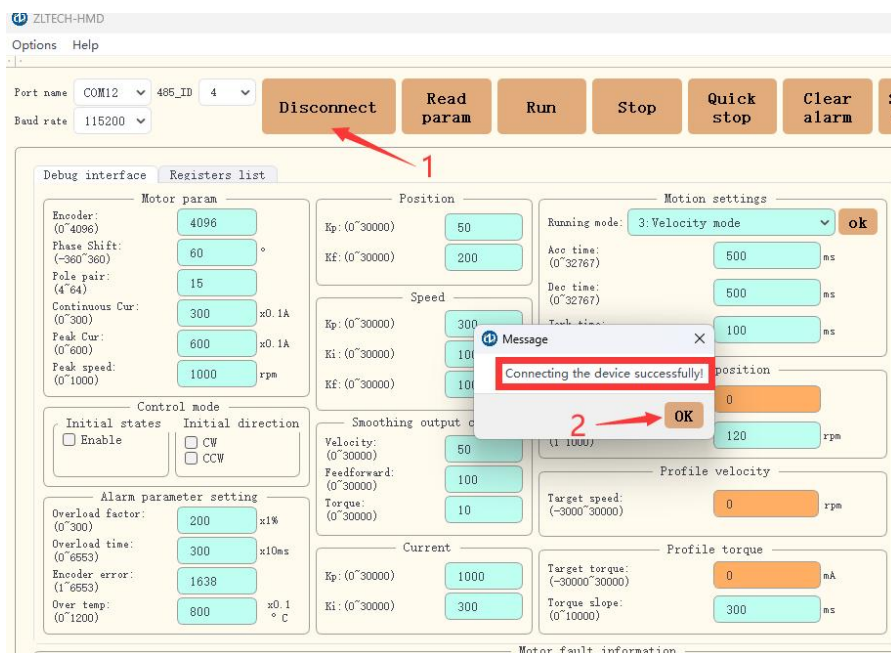
2.1、给驱动器上电，选择对应的串口、485 站号和波特率

Power on the driver, then select the corresponding serial port, 485_ID and baud rate.

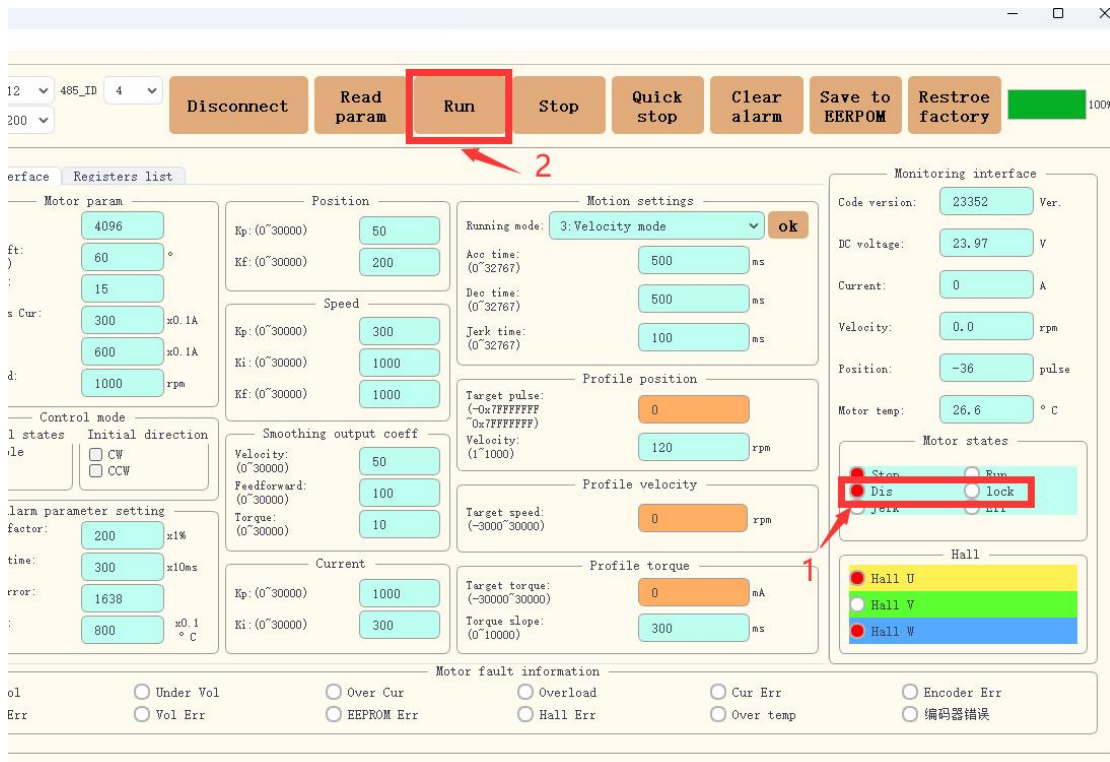
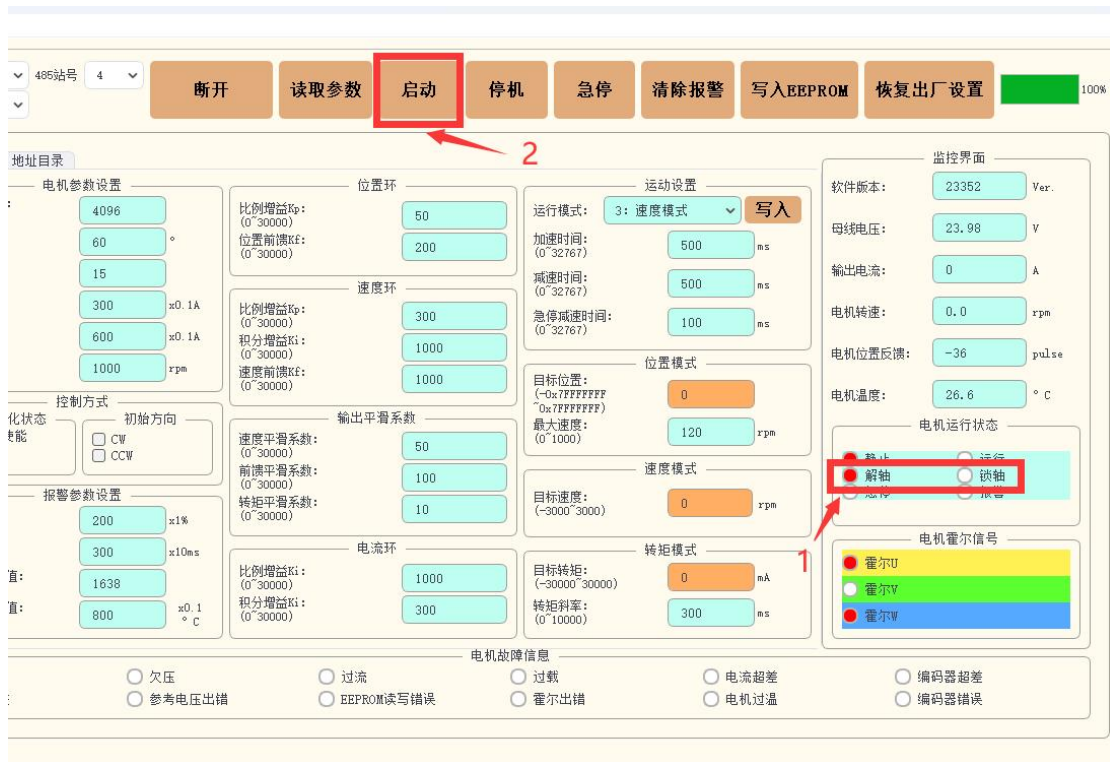


2.2、选择好相应的串口后，点击“连接”按钮→上位机就会弹出“设备连接成功”且自动读取上位机界面的参数→再点击“OK”

After selecting the corresponding serial port, click the "Connect" button →software will pop up "Connecting the device successfully", then read driver's parameters automatically → Click "OK"

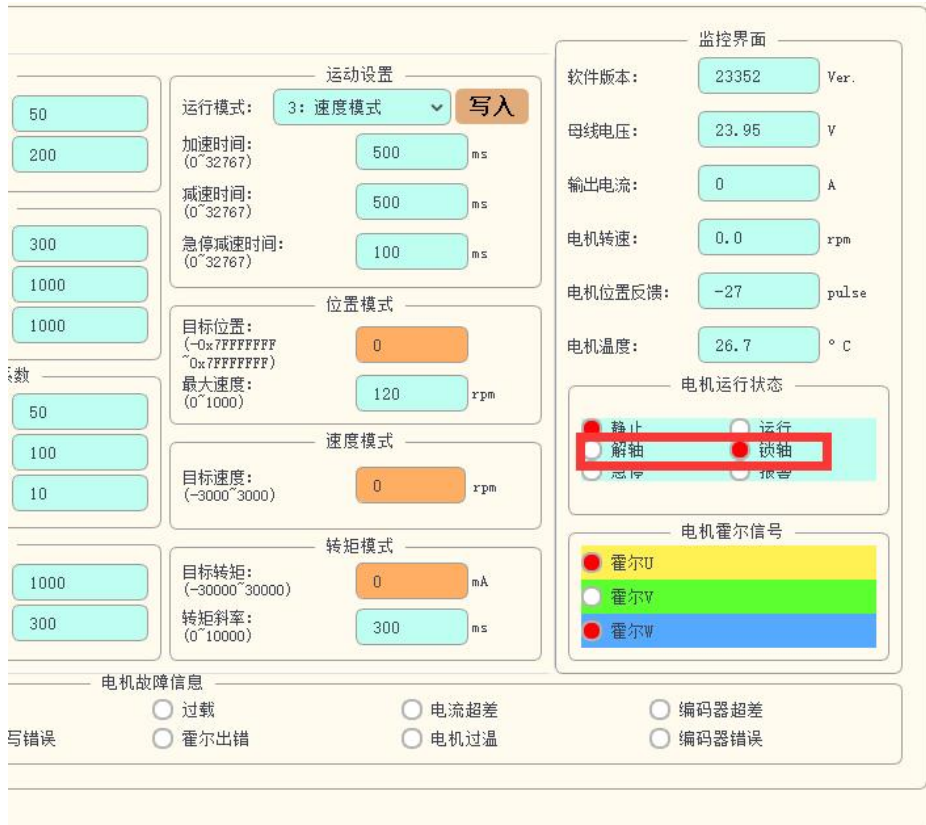


2.3、先看上位机“锁轴”是否开启，没有开启就要先点击“启动”
Check if the motor states is "lock". If not, click "Run" firstly.

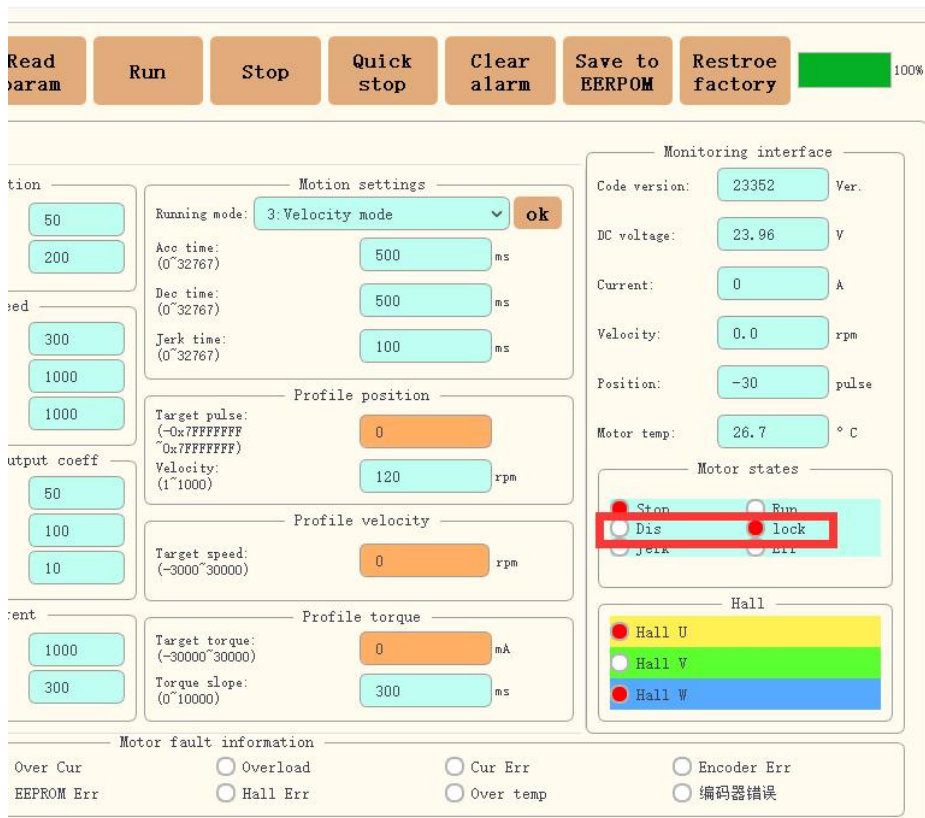


2.4、点击“启动”之后，电机的状态就会变成“锁轴”

After clicking "Run", the state of the motor will change to "lock"



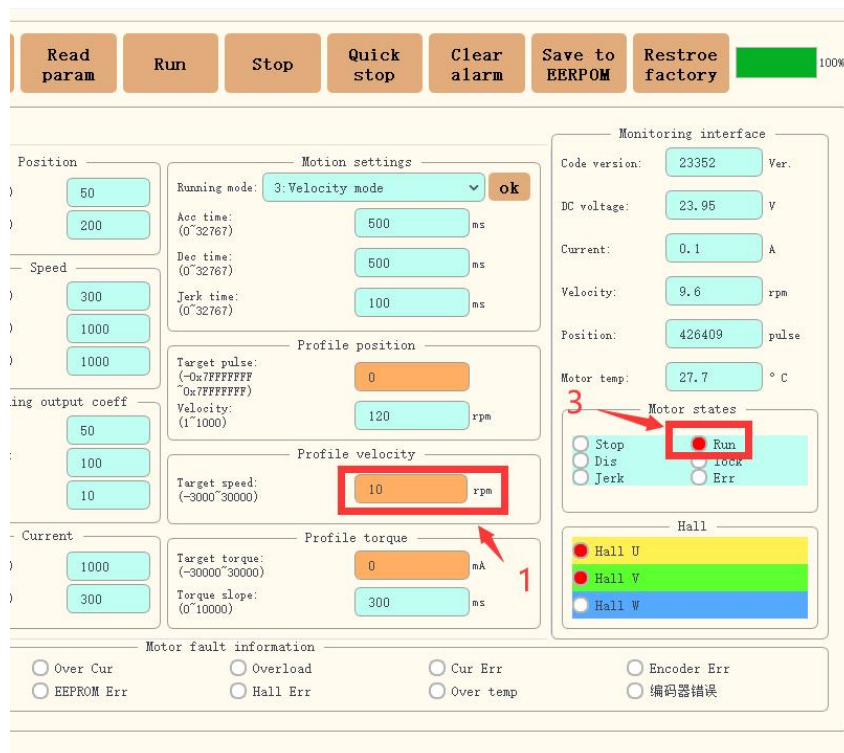
The screenshot shows the software interface with the 'Run' button highlighted. In the 'Motor states' section, the 'Lock' (锁轴) option is selected, indicated by a red circle and a red box. Other options include 'Stop' (停止), 'Run' (运行), 'Release' (解锁), and 'Warning' (警告). The 'Monitoring interface' (监控界面) on the right displays various parameters: Software version (23352), Bus voltage (23.95V), Output current (0A), Motor speed (0.0rpm), Motor position feedback (-27pulse), and Motor temperature (26.7°C). The 'Motion settings' (运动设置) section shows 'Running mode' (运行模式) set to '3: Velocity mode' (速度模式) and 'Write' (写入) button.



This screenshot shows the software interface with the 'Run' button highlighted. In the 'Motor states' section, the 'Lock' (锁轴) option is selected, indicated by a red circle and a red box. Other options include 'Stop' (停止), 'Run' (运行), 'Release' (解锁), and 'Warning' (警告). The 'Monitoring interface' (监控界面) on the right displays various parameters: Code version (23352), DC voltage (23.96V), Current (0A), Velocity (0.0rpm), Position (-30pulse), and Motor temp (26.7°C). The 'Motion settings' (运动设置) section shows 'Running mode' (运行模式) set to '3: Velocity mode' (速度模式) and 'ok' button.

2.5、速度模式 Velocity mode

- (1) 在运行模式选“速度模式”，点击“写入” In Running Mode, select "Velocity mode", then click "OK"
- (2) 给定“目标速度” Set target speed
- (3) 按键盘的“Enter”键 Press "Enter" key on the keyboard
- (4) 电机运行 Motor runs



三、修改参数 Change Parameters

3.1、调试界面修改参数 Change parameters on Debug interface

(1) 点击“调试界面”→修改想要修改的参数→按键盘的“Enter”键（目标值生效）

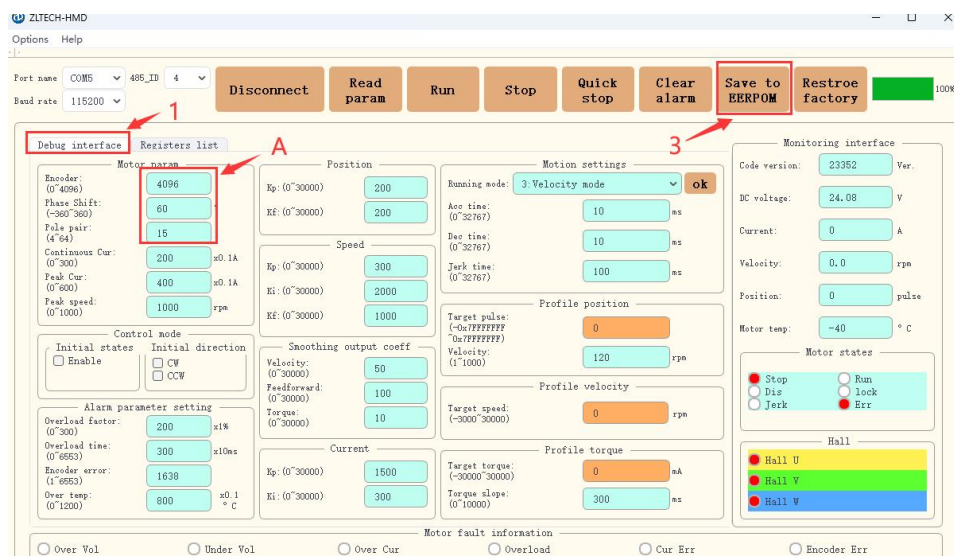
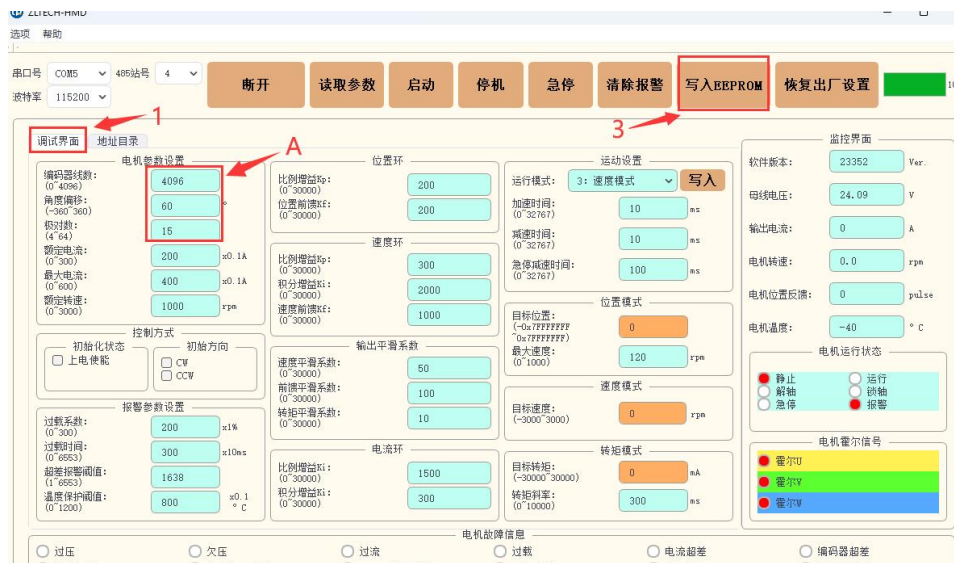
Click "Debug Interface" → Change parameters → press "Enter" on the keyboard to make the target value to take effect

(3) 如果用户需要将参数保存（重启电源也生效）→需要点击“写入 EEPROM”

If user needs to save the parameters (making the value to take effect after restarting) → Click "Save to EEPROM"

(A) 如果用户需要更改“A”区域三个参数：修改参数→按键盘的“Enter”键→写入 EEPROM→重启电源

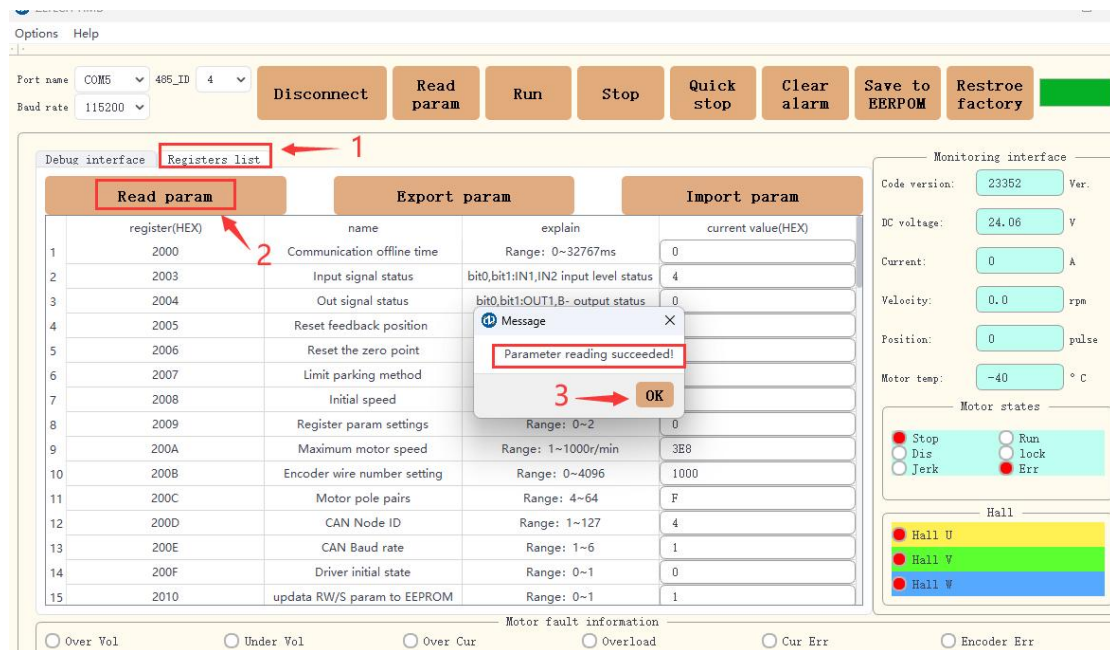
If user needs to change 3 parameters in the A area: Modify parameters → press "Enter" on the keyboard → Click "Save to EEPROM" → Restart the driver



3.2、地址目录修改参数 Change parameters in Registers List

3.2.1、点击“地址目录”→ 读取全部参数 → OK

Click "Registers List" → Read parameters → OK



3.2.2、修改参数 Change Parameters

- (1) 修改想要修改的参数 Change the parameters you want
- (2) 按键盘的“Enter”键 Press “Enter” on the keyboard
- (3) 写入 EEPROM Click “Save to EEPROM”



号 COM5 485站号 4 115200

断开 读取参数 启动 停机 急停 清除报警 写入EEPROM 恢复出厂设置 100%

调试界面 地址目录

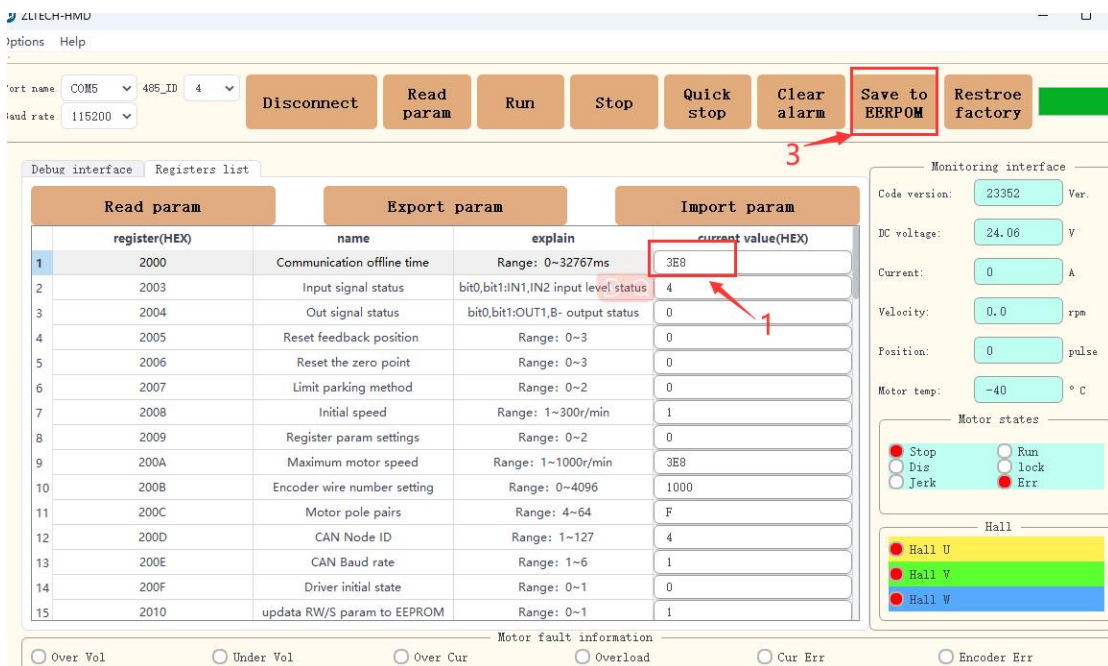
索引(HEX)	名称	说明	当前值(HEX)
2000	通信掉线保护时间	范围: 0~32767ms	3E8
2003	输入信号状态	bit0,bit1:IN1,IN2两路输入口状态	4
2004	输出信号状态	bit0,bit1:OUT1,B-两路输出口状态	0
2005	反馈位置清零	范围: 0~3	0
2006	绝对位置模式当前位置清零	范围: 0~3	0
2007	限位停车方式	范围: 0~2	0
2008	起始速度	范围: 1~300r/min	1
2009	寄存器参数设置	范围: 0~2	0
200A	电机最大转速	范围: 1~1000r/min	3E8
200B	编码器线数设置	范围: 0~4096	1000
200C	电机极对数	范围: 4~64	F
200D	CAN自定义驱动节点号	范围: 1~127	4
200E	CAN自定义波特率	范围: 0~6	1
200F	上电锁轴方式	范围: 0~1	0
2010	是否同步存储RW/S参数于EEPROM	范围: 0~1	1

电机故障信息: ☐ 过压 ☐ 欠压 ☐ 过流 ☐ 过载 ☐ 电流超差 ☐ 编码器超差

监控界面: 软件版本: 23352 Ver. 母线电压: 24.07 V 输出电流: 0 A 电机转速: 0.0 rpm 电机位置反馈: 0 pulse 电机温度: -40 °C

电机运行状态: ☒ 静止 ☐ 运行 ☐ 解锁 ☐ 锁轴 ☐ 急停 ☐ 报警

电机霍尔信号: ☒ 霍尔U ☒ 霍尔V ☒ 霍尔W



Options Help

Port name COM5 485_ID 4 115200

Disconnect Read param Run Stop Quick stop Clear alarm Save to EEPROM Restore factory

Debug interface Registers list

register(HEX)	name	explain	current value(HEX)
2000	Communication offline time	Range: 0~32767ms	3E8
2003	Input signal status	bit0,bit1:IN1,IN2 input level status	4
2004	Out signal status	bit0,bit1:OUT1,B- output status	0
2005	Reset feedback position	Range: 0~3	0
2006	Reset the zero point	Range: 0~3	0
2007	Limit parking method	Range: 0~2	0
2008	Initial speed	Range: 1~300r/min	1
2009	Register param settings	Range: 0~2	0
200A	Maximum motor speed	Range: 1~1000r/min	3E8
200B	Encoder wire number setting	Range: 0~4096	1000
200C	Motor pole pairs	Range: 4~64	F
200D	CAN Node ID	Range: 1~127	4
200E	CAN Baud rate	Range: 1~6	1
200F	Driver initial state	Range: 0~1	0
2010	update RW/S param to EEPROM	Range: 0~1	1

Motor fault information: ☐ Over Vol ☐ Under Vol ☐ Over Cur ☐ Overload ☐ Cur Err ☐ Encoder Err

Monitoring interface: Code version: 23352 Ver. DC voltage: 24.06 V Current: 0 A Velocity: 0.0 rpm Position: 0 pulse Motor temp: -40 °C

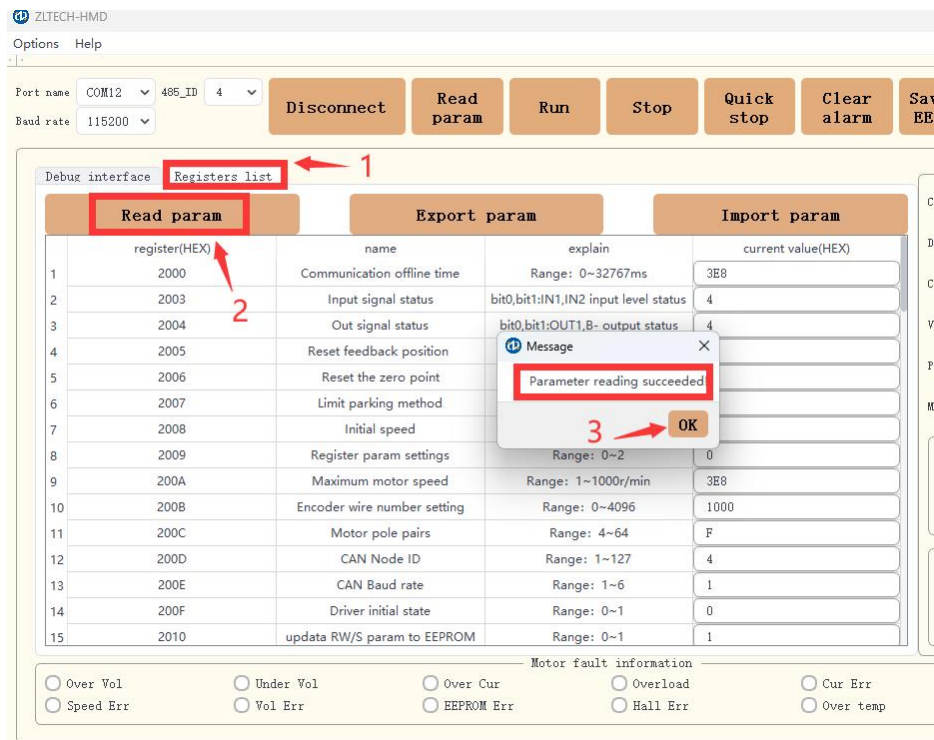
Motor states: ☒ Stop ☐ Run ☐ Dis ☐ lock ☐ Jerk ☐ Err

Hall: ☒ Hall U ☒ Hall V ☒ Hall W

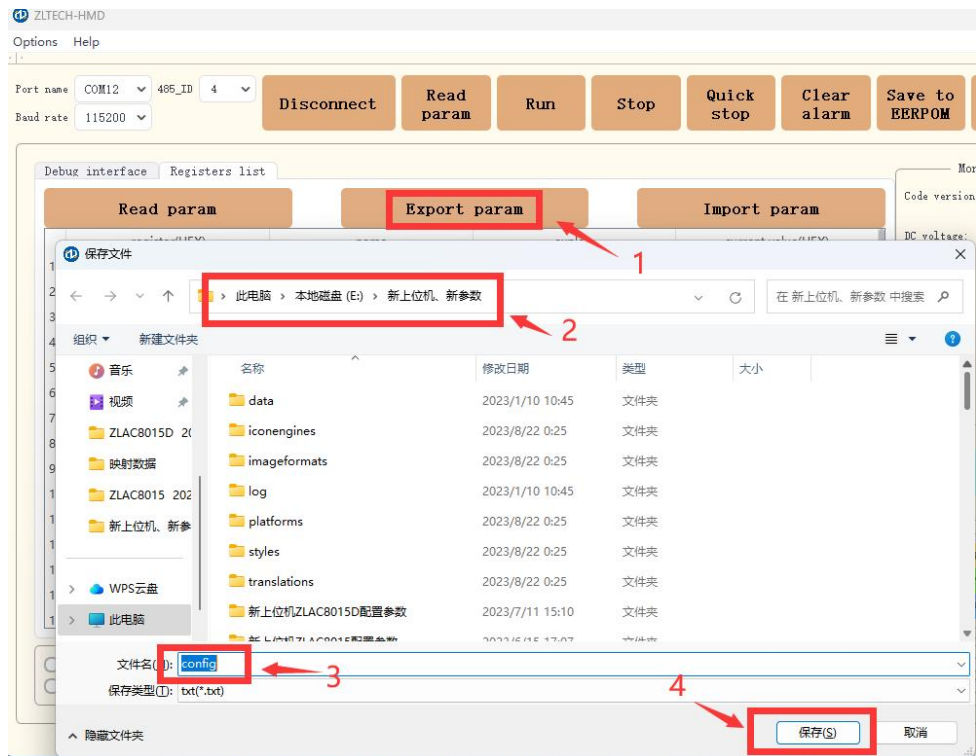
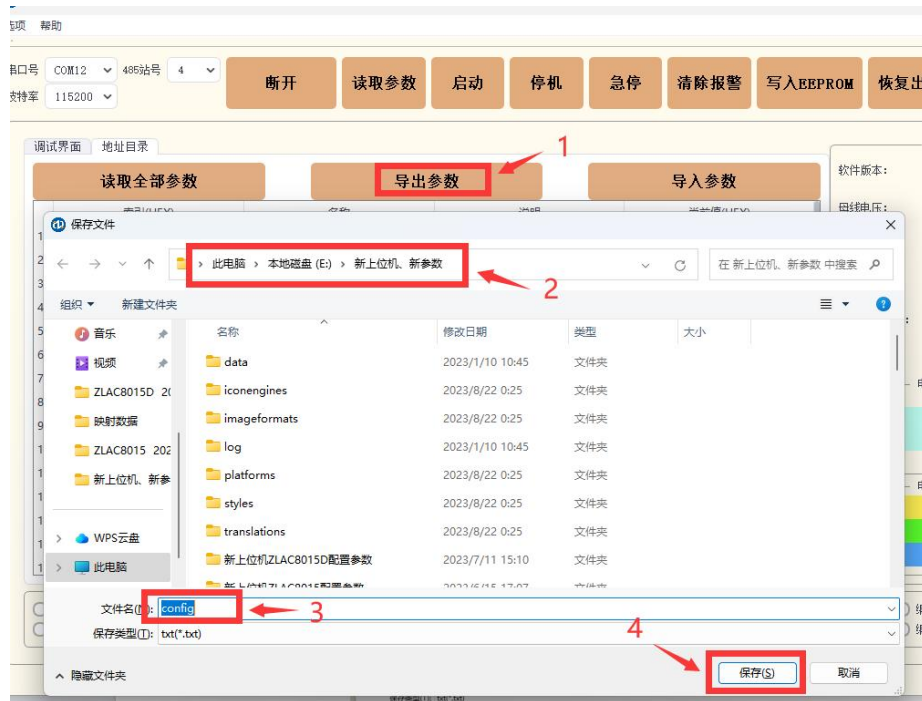
四、导出参数 Export Parameters

4.1、先点击“地址目录”→再点击“读取全部参数”→OK

Click "Registers List" → then click "Read parameters"→OK



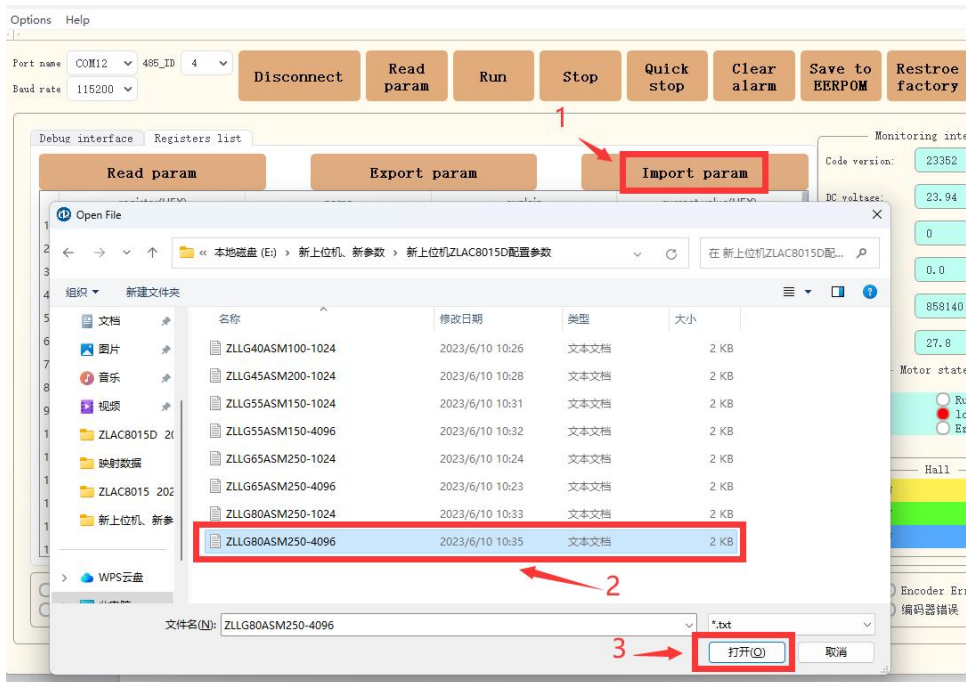
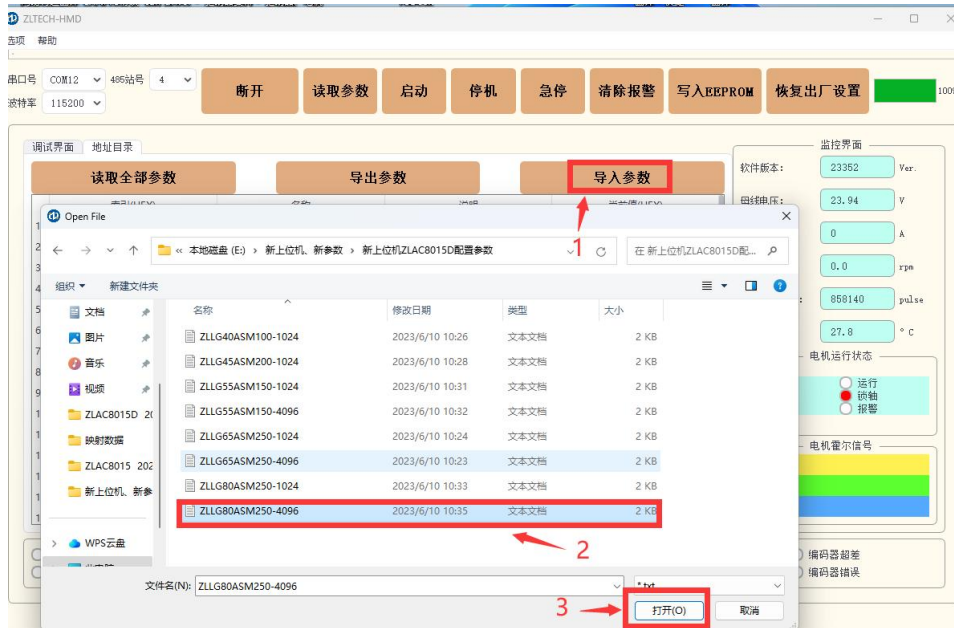
4.2、点击“导出参数”→选择保存参数的目录→修改保存参数的“文件名”→ 保存
Click "Export Parameters" →Select the directory you want to save the parameter file→Modify the "file name" of saved parameter file → Click "Save"



五、导入参数 Import Parameters

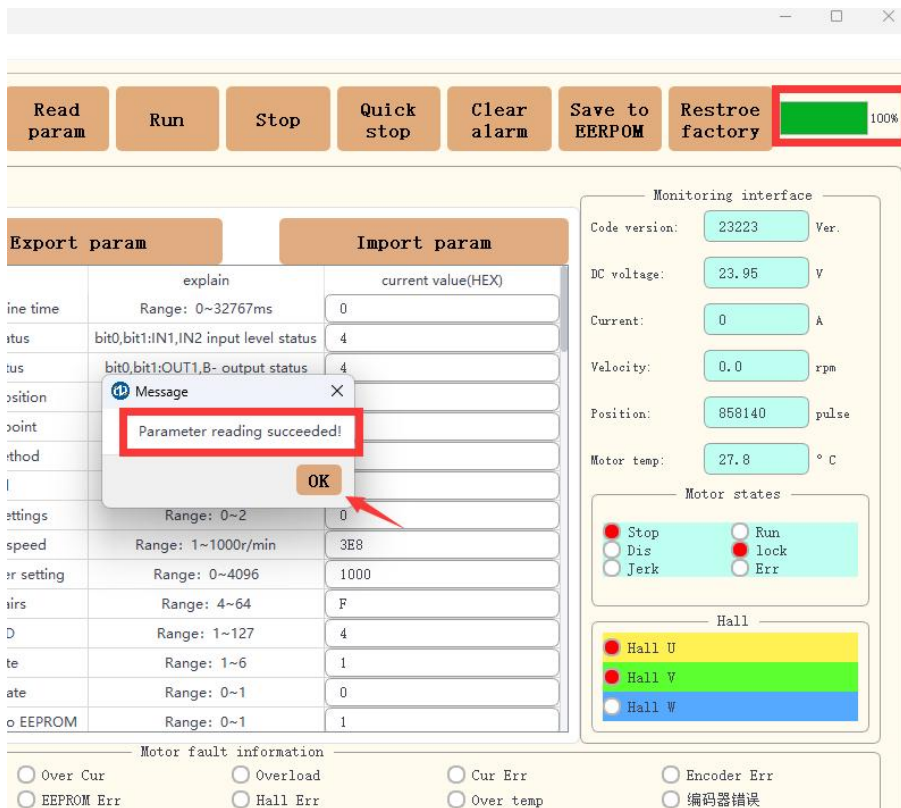
5.1、点击“导入参数”按钮→选择想要导入参数的文件→点击打开

Click "Import Parameters" button → Select the parameter file you want to import → Click "Open"



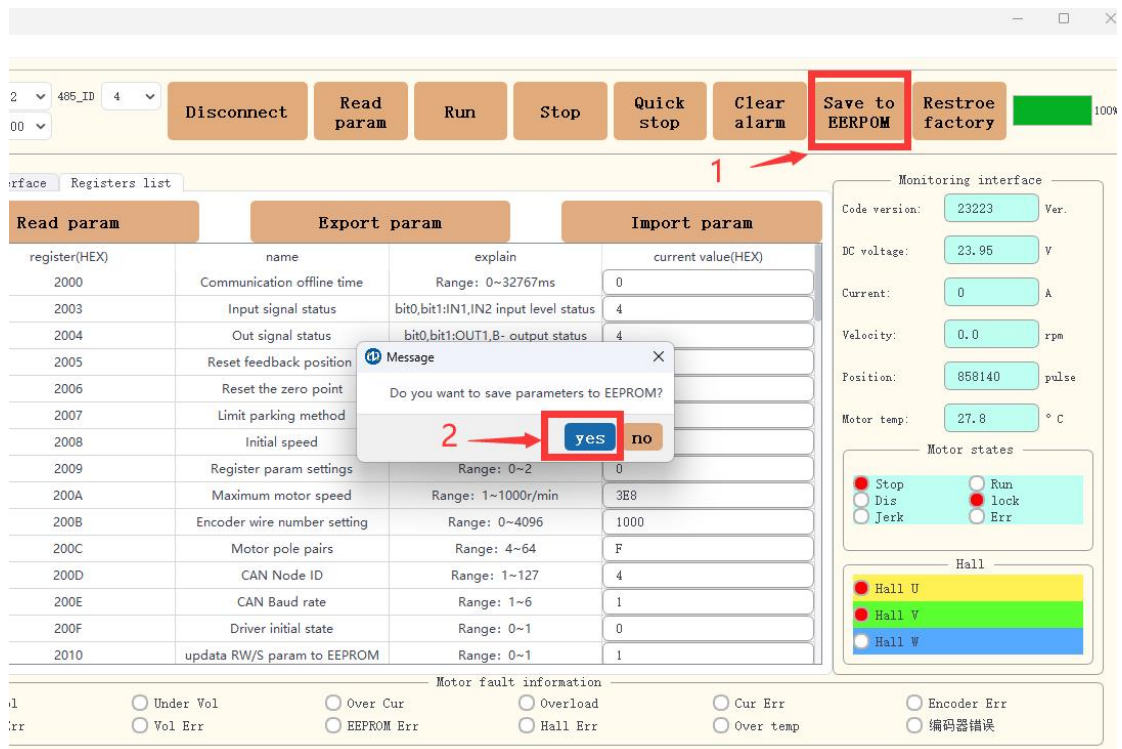
5.2、选择相应文件之后进度条就开始变化，直到进度条到达 100%并弹出对话框“参数读取成功”→点击“OK”

After selecting the corresponding parameter file, the progress bar will start to reach 100%, and "Parameter reading succeeded" will pop up → Click"OK"



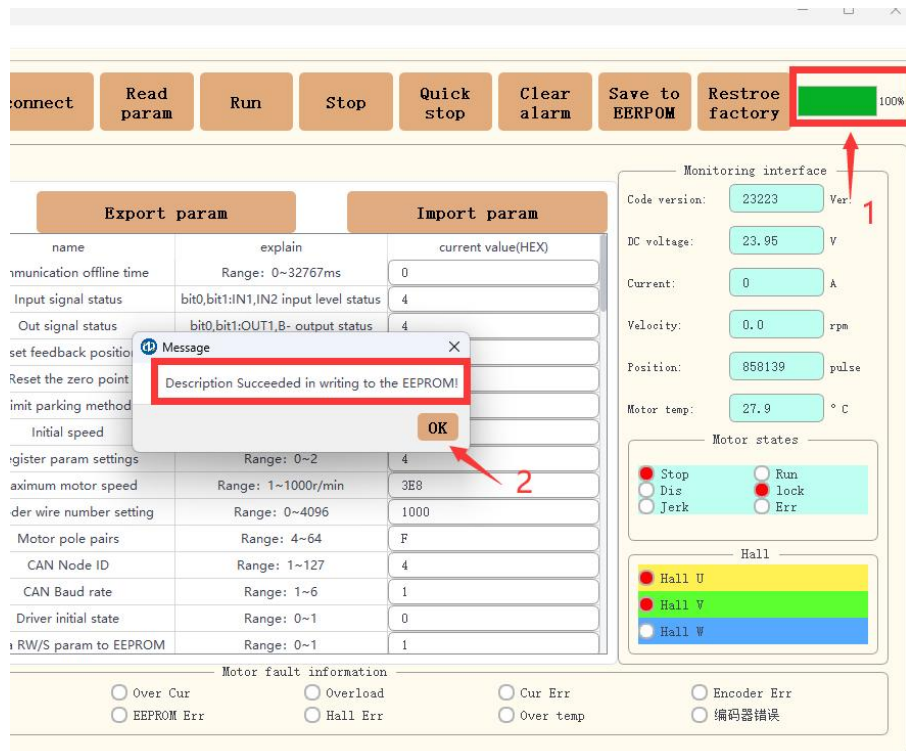
5.3、点击“写入 EEPROM”按钮→弹出对话框点击“YES”

Click "Save to EEPROM" button → Click "YES" in the pop-up dialog box



5.4、点击“YES”之后进度条就会开始变化直到 100%并弹出对话框“写入 EEPROM 成功”字样
→点击“OK”→重启电源

After clicking "YES", the progress bar will start to reach 100%, and "Description Succeeded on writing to the EEPROM " will pop up → Click "OK" → Restart the driver



注意：写入 EEPROM 成功之后必须重启电源

**Note: You need to restart the driver after the EEPROM is successfully
written**