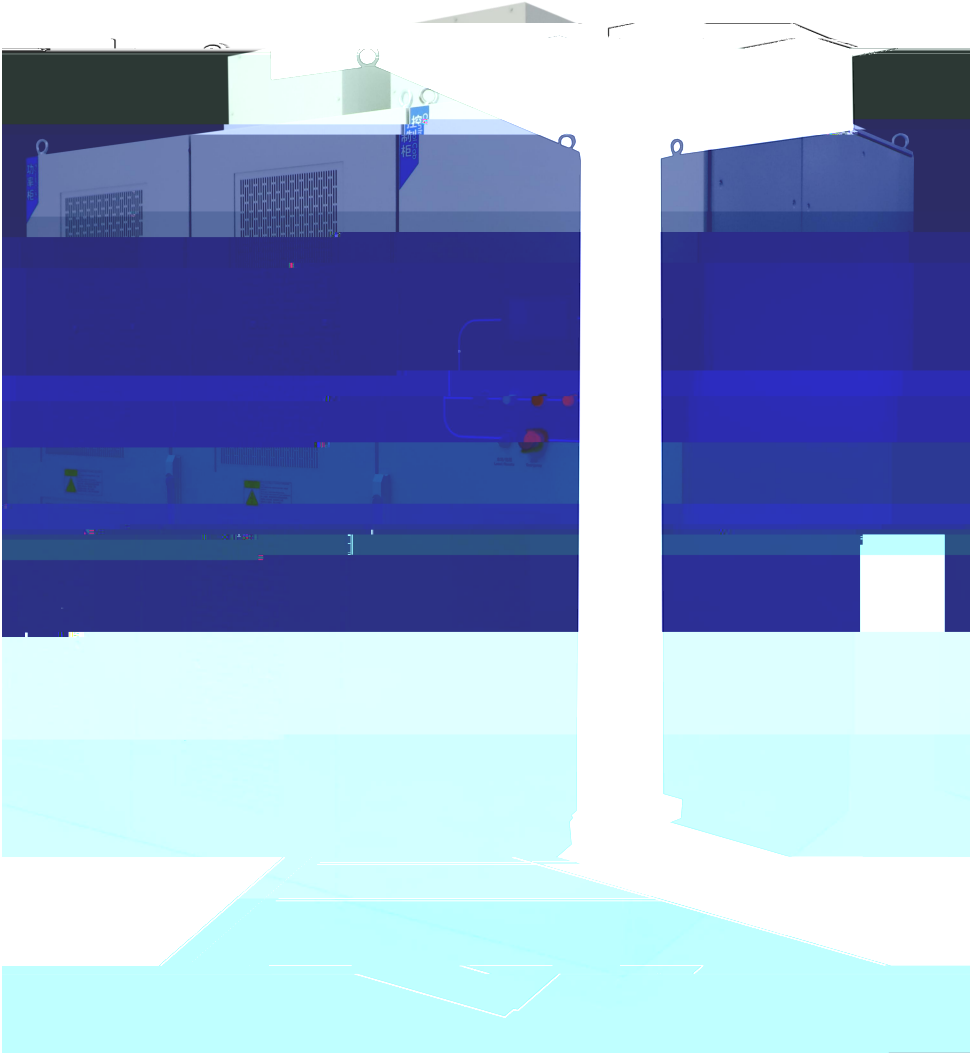

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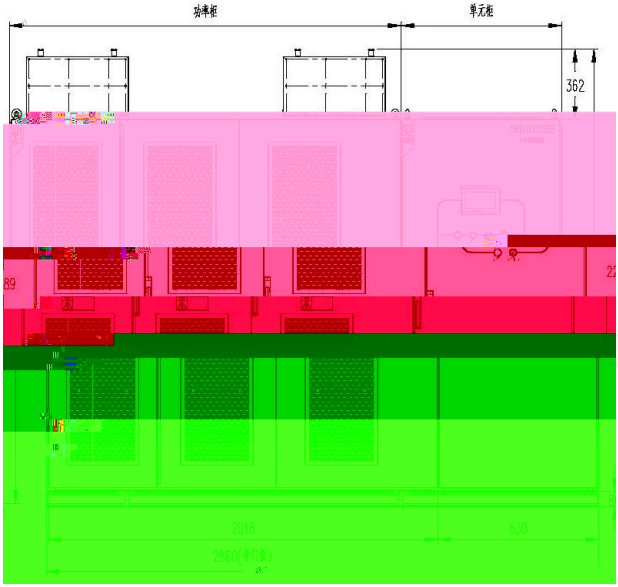
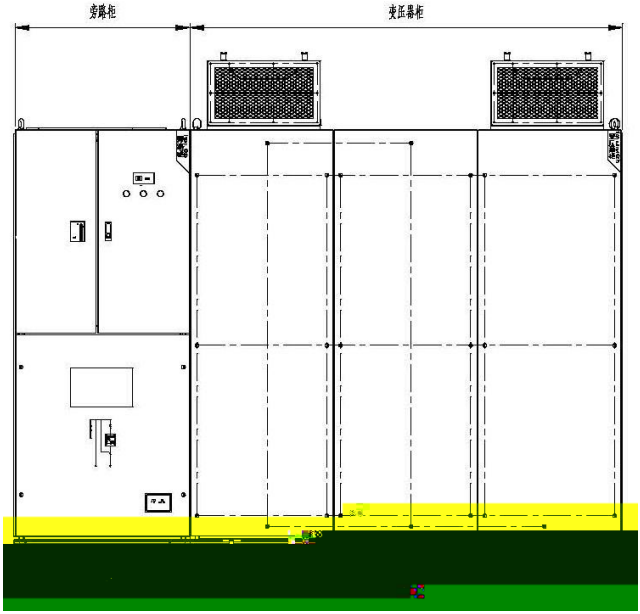
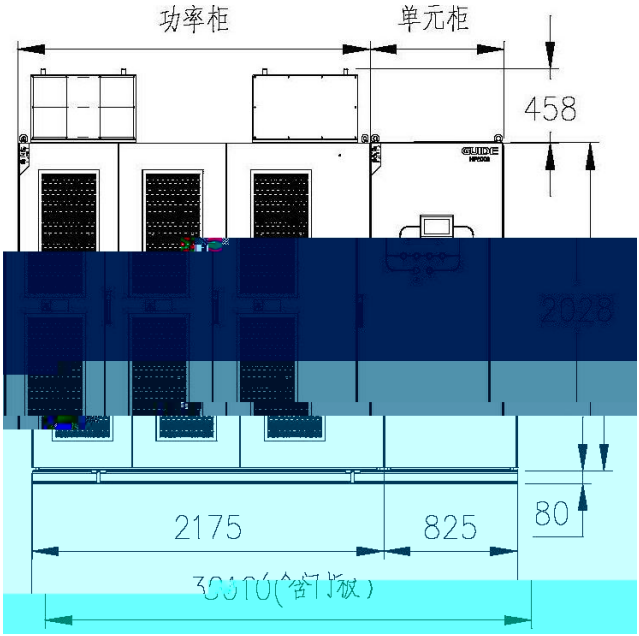
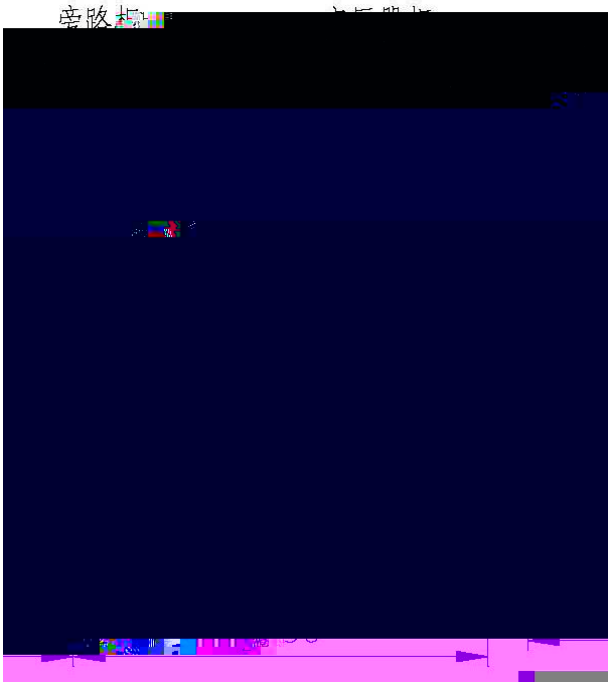
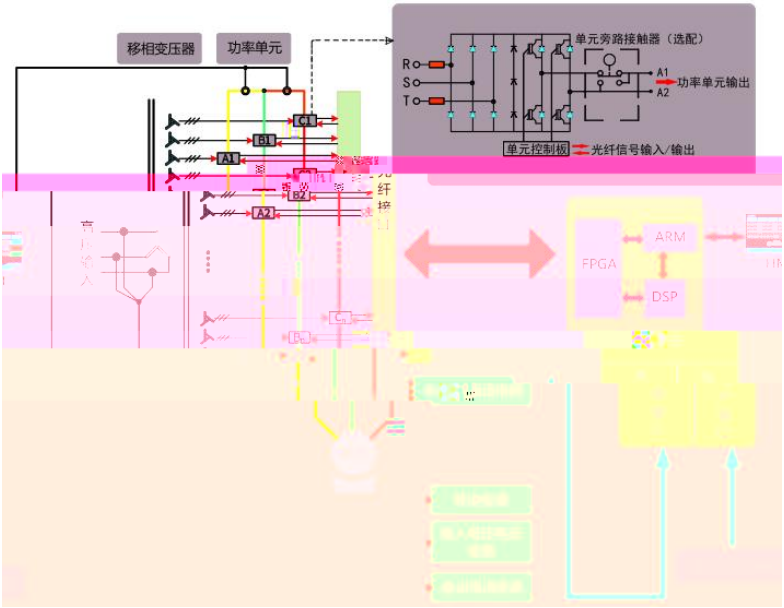
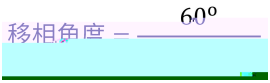

功率柜
单元柜
362
2018
830
2860(含门板)

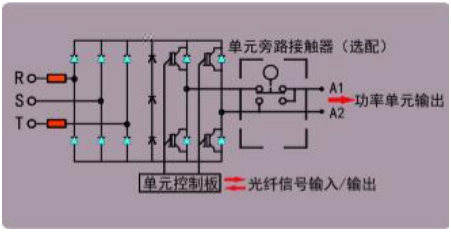

旁路柜
变压器柜

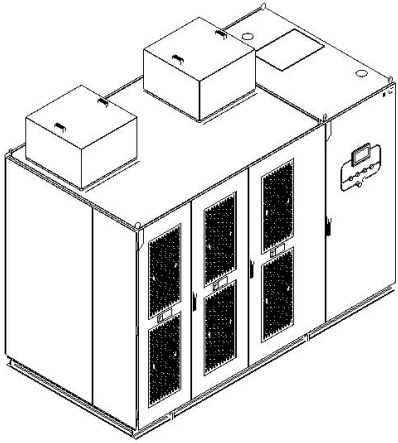

功率柜
单元柜
458
2028
2175
825
80
3010(含门板)

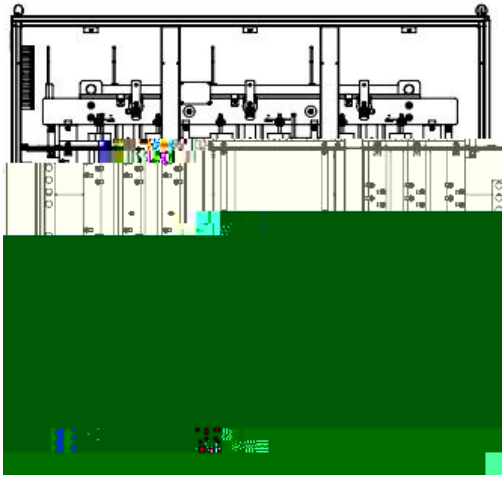


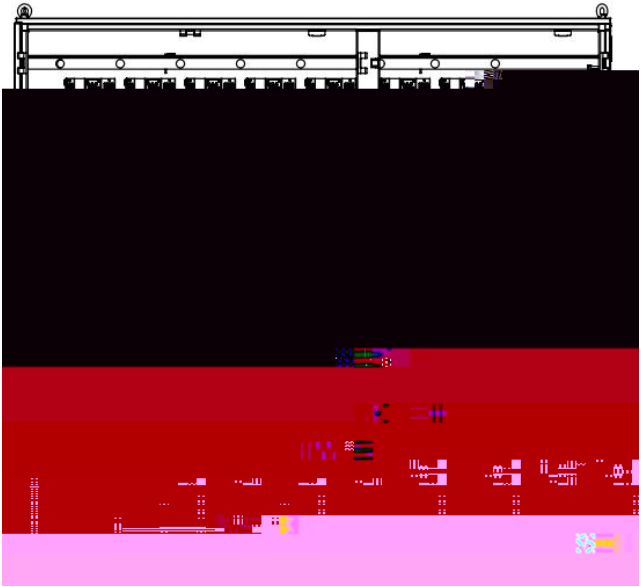

移相变压器
功率单元
单元旁路接触器（选配）
R
S
T
A1
A2
功率单元输出
单元控制板
光纤信号输入/输出
C1
B1
A1
B2
A2
ARM
FPGA
DSP

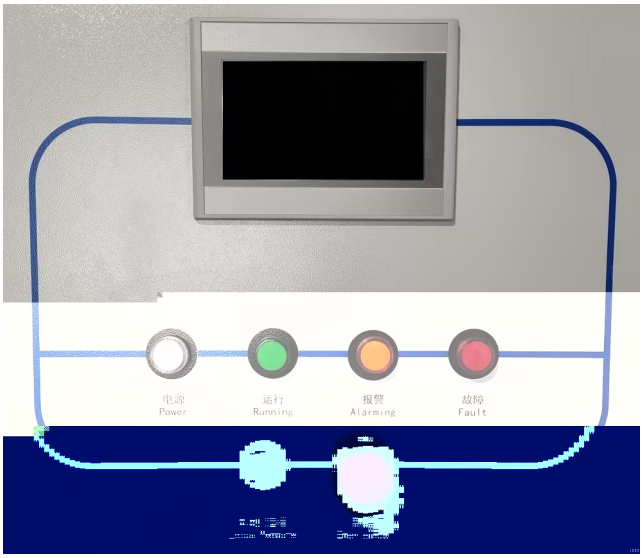

移相角度
60°


单元旁路接触器（选配）
R
S
T
A1
A2
功率单元输出
单元控制板
光纤信号输入/输出








电源
Power
运行
Running
报警
Alarming
故障
Fault

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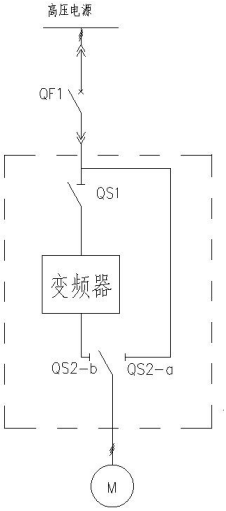
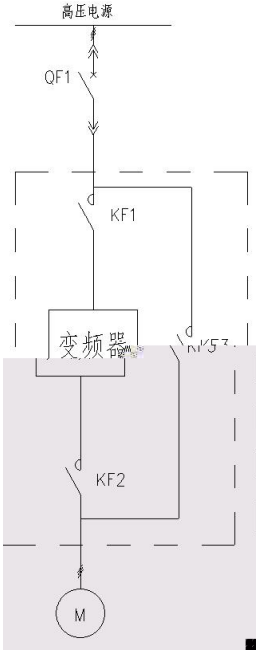
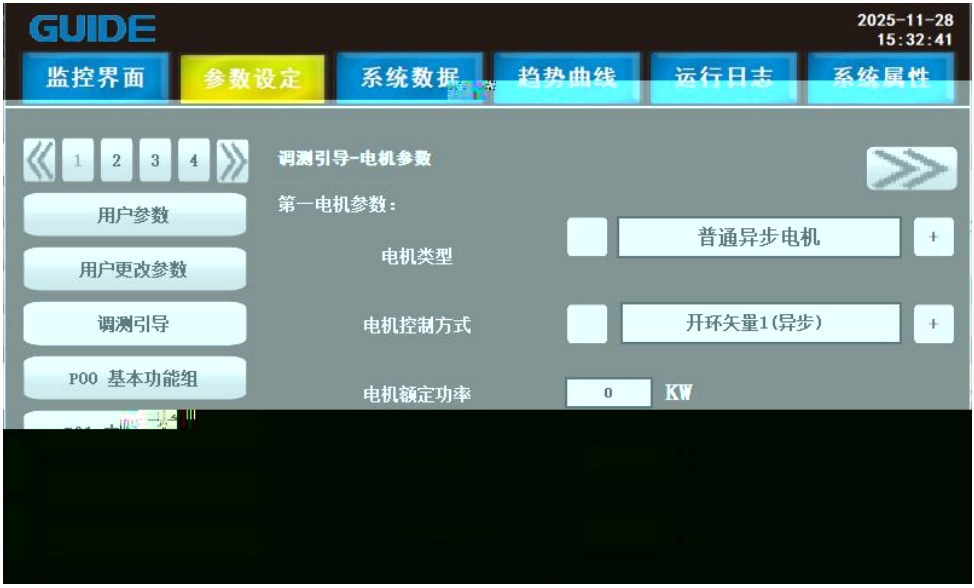
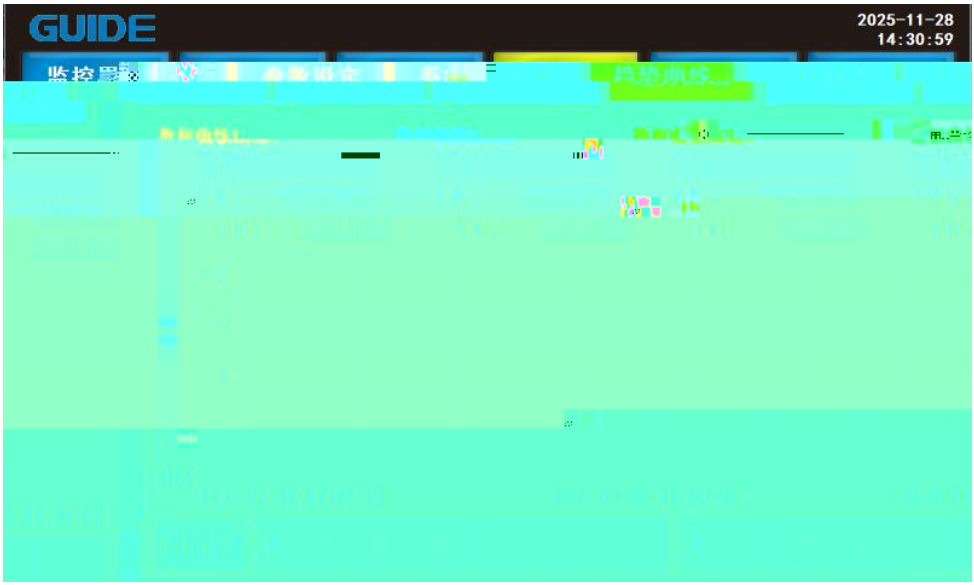

高压电源
QF1
QS1
变频器
QS2-b
QS2-a
M


高压电源
QF1
KF1
变频器
KF2
M

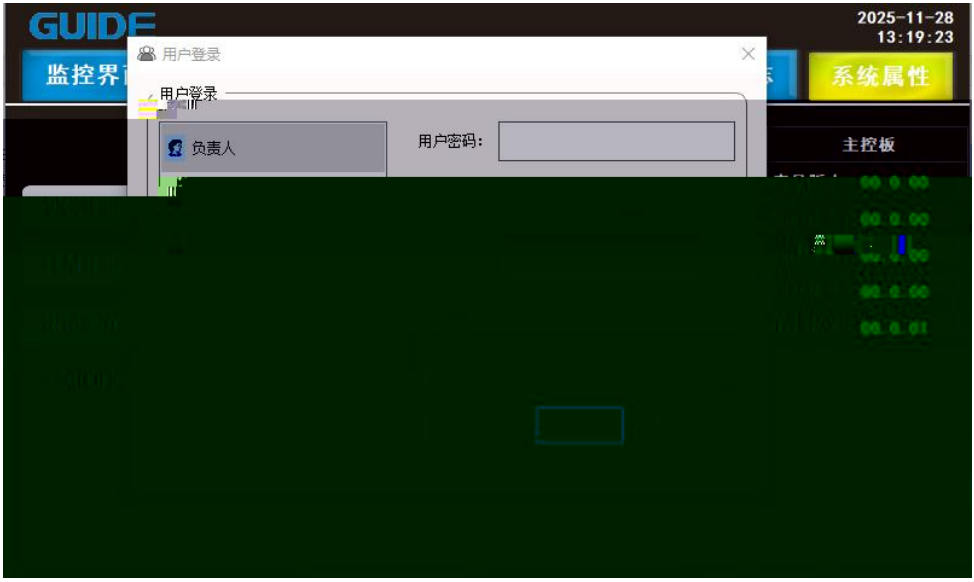
GUIDE
2025-11-28
13:29:38
监控界面
参数设定
系统数据
趋势曲线
运行日志
系统属性
额定电压(V) 10000
额定电流(A)
额定容量(kVA) 1600
启动
输入电压(V) 9996
输入电流(A) 88.4
输入频率(Hz) 50.0
停止
输出电压(V) 9998
输出电流(A) 85.6
输出频率(Hz) 50.00
复位
移相变压器温度 A相/B相/C相

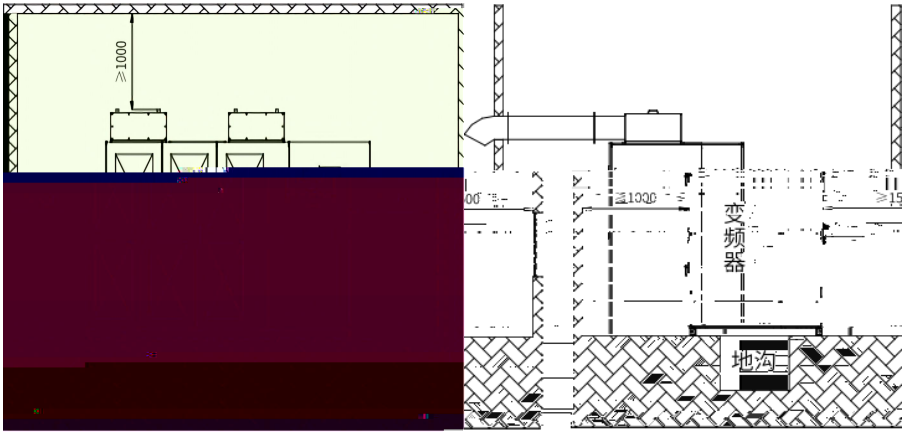

GUIDE
2025-11-28
15:32:41
监控界面
参数设定
系统数据
趋势曲线
运行日志
系统属性
1
2
3
4
调测引导-电机参数
用户参数
用户更改参数
调测引导
P00 基本功能组
第一电机参数：
电机类型
普通异步电机
电机控制方式
开环矢量1(异步)
电机额定功率
0
KW

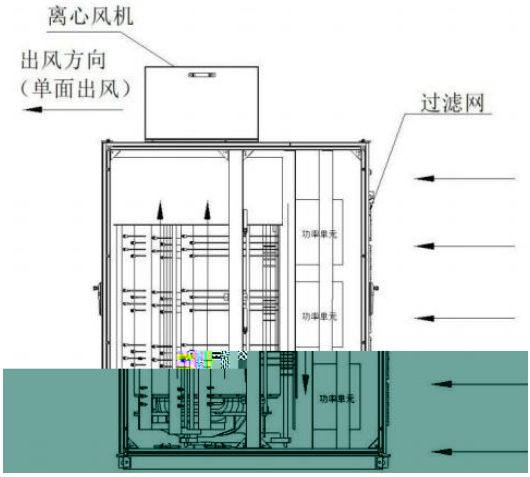
GUIDE
2025-12-08
10:30:14
监控界面
参数设定
系统数据
趋势曲线
运行日志
系统属性
单元状态
单元温度
母线电压
单元状态
单元温度
母线电压
单元状态
单元温度
母线电压
A1
43℃
920V

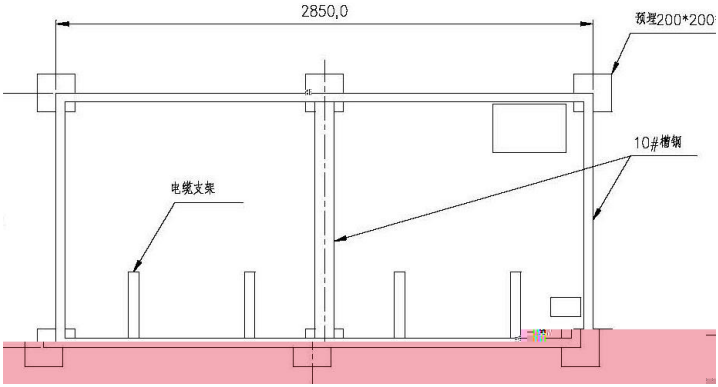

GUIDE
2025-11-28
14:30:59

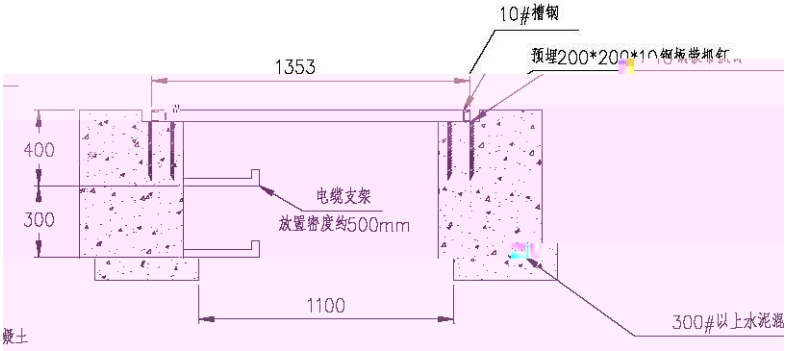
GUIDE
2025-11-28
14:29:43
监控界面
参数设定
系统数据
趋势曲线
运行日志
系统属性
日期
时间
报警描述
2025/11/28
14:13:25
通讯故障
当前报警
报警日志
操作日志
上一页
下一页


GUIDE
2025-11-28
13:19:23
系统属性
用户登录
用户登录
负责人
用户密码:
主控板


≥1000
≥1000
变频器
地沟


离心风机
出风方向
（单面出风）
过滤网
功率单元
功率单元
功率单元


2850,0
预埋200*200
10#槽钢
电缆支架


10#槽钢
1353
400
300
电缆支架
放置密度约500mm
1100
300#以上水泥混

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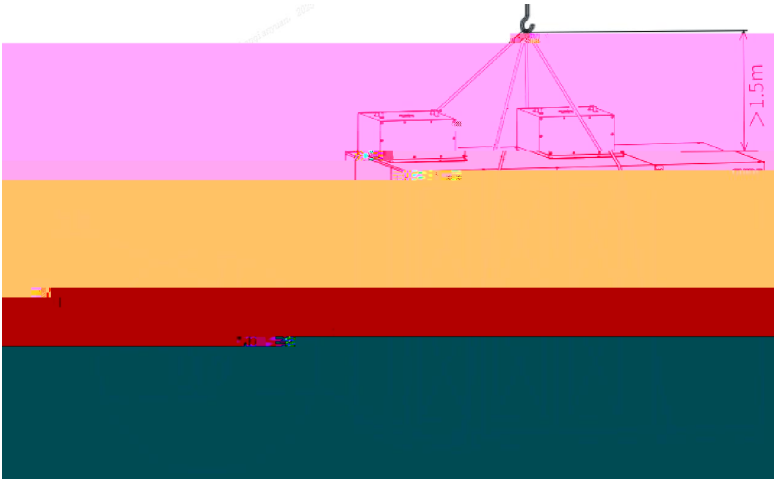
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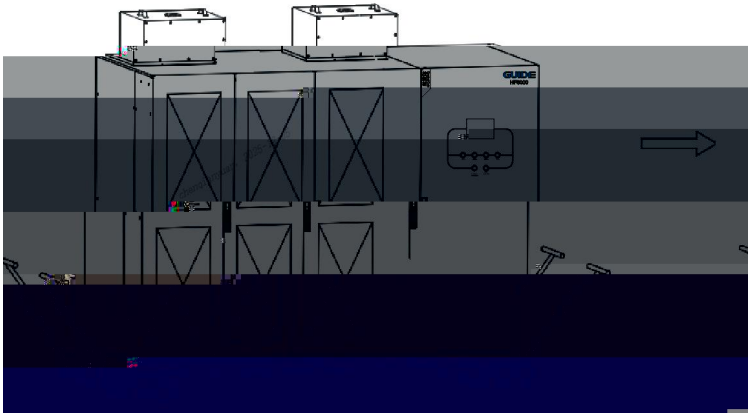
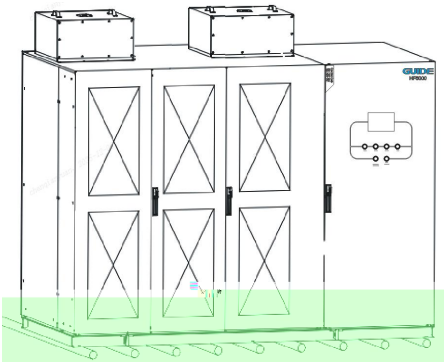

GUIDE


GUIDE
HP5000

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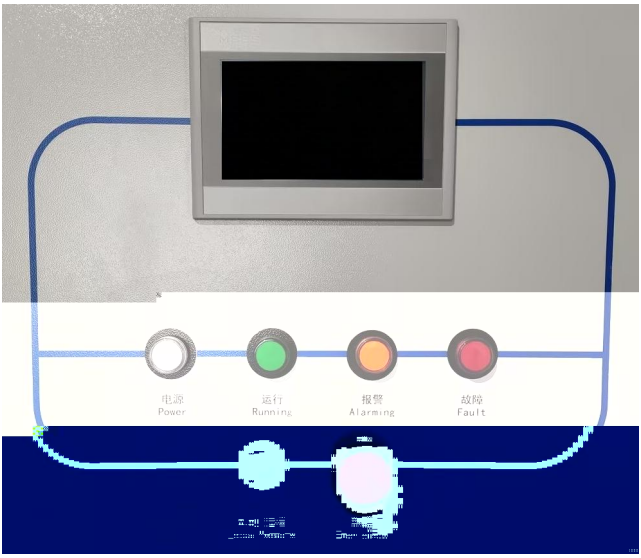
电源
Power
运行
Running
报警
Alarming
故障
Fault

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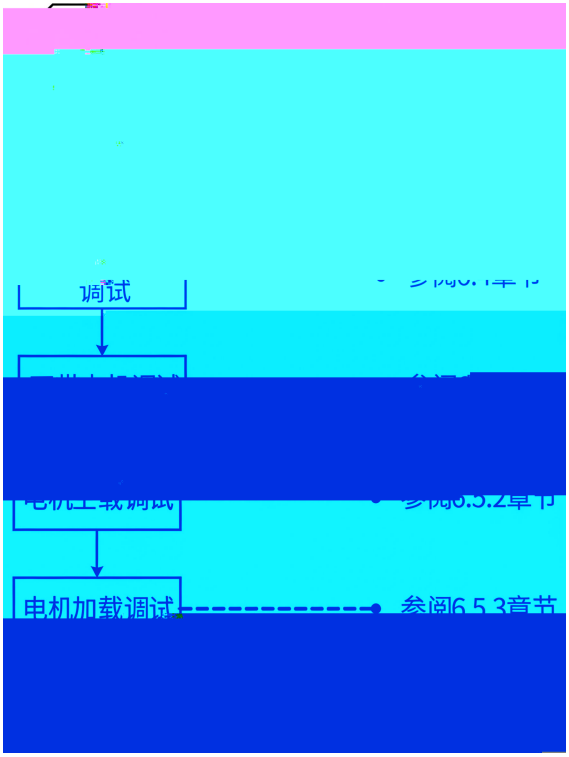
调试
参阅6.1章节
电机空载调试
参阅6.5.2章节
电机加载调试
参阅6.5.3章节

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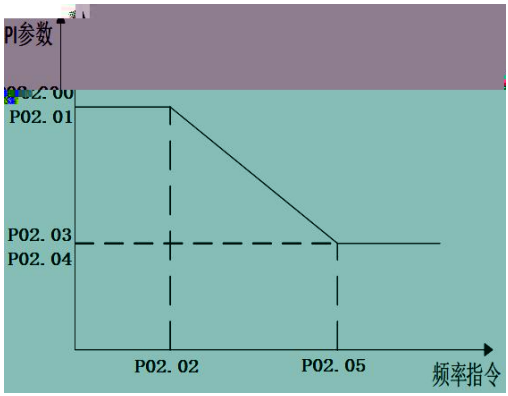
ГОСИ


PI参数
P02. 01
P02. 03
P02. 04
P02. 02
P02. 05
频率指令

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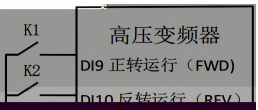
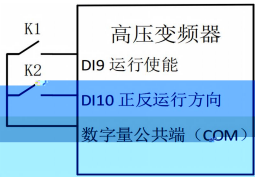
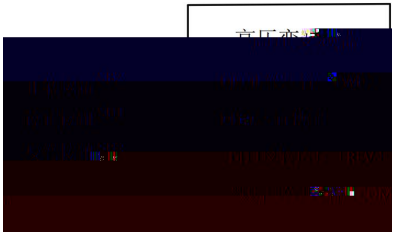
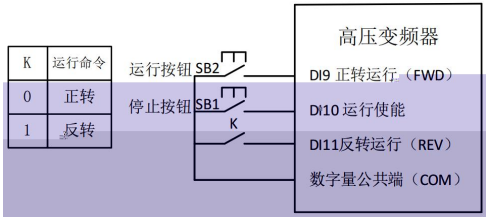
K1	K2	运行命令
1	0	正转
0	1	反转



K1	K2	运行命令
1	0	正转
1	1	反转
0	0	停止
0	1	停止






K
运行命令
0
正转
1
反转
运行按钮 SB2
停止按钮 SB1
K
高压变频器
DI9 正转运行（FWD）
DI10 运行使能
DI11反转运行（REV）
数字量公共端（COM）

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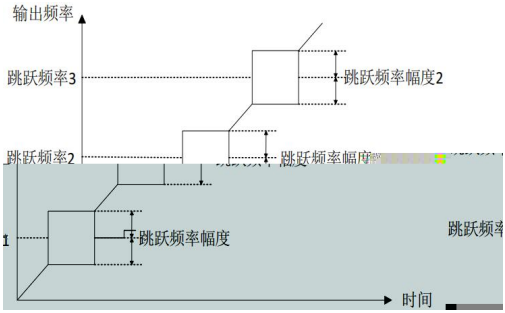
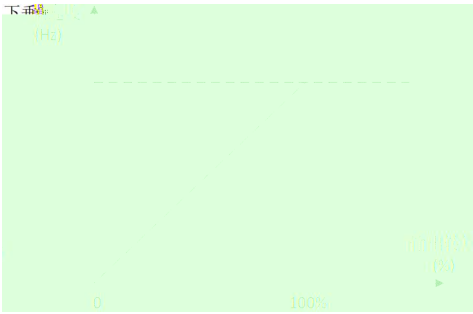
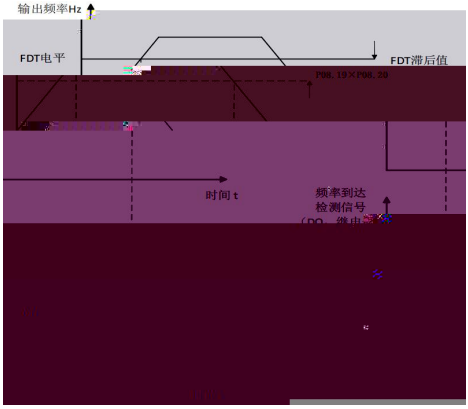
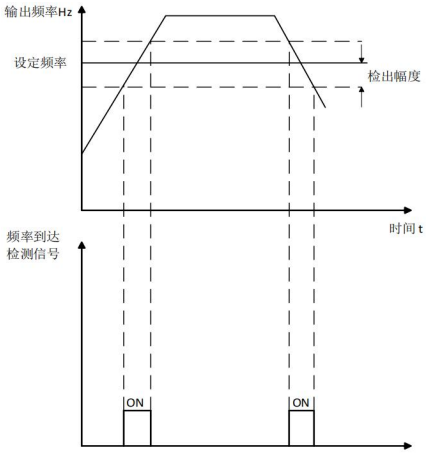
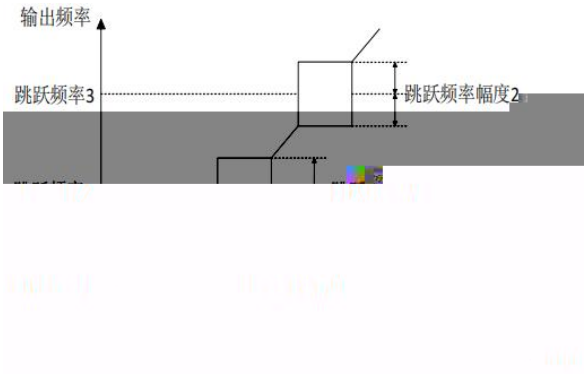
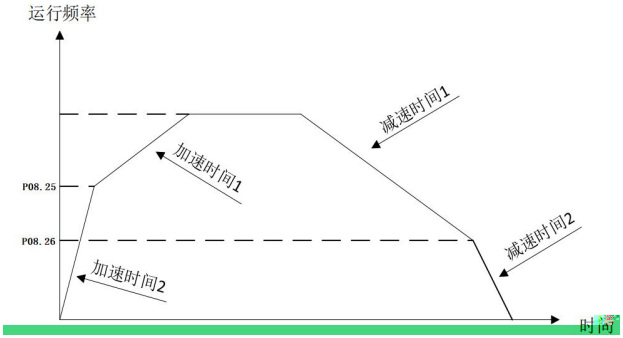

输出频率
跳跃频率3
跳跃频率幅度2
跳跃频率2
跳跃频率幅度
跳跃频率幅度
时间

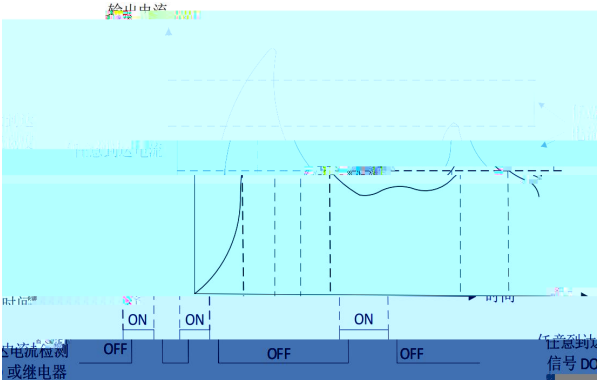

下垂
(Hz)
(%)
0
100%

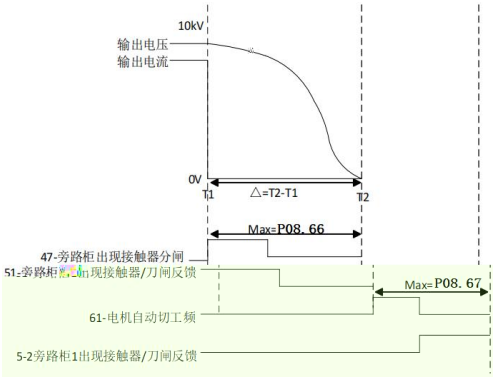

输出频率Hz
FDT电平
FDT滞后值
P08.19×P08.20
时间 t
频率到达
检测信号

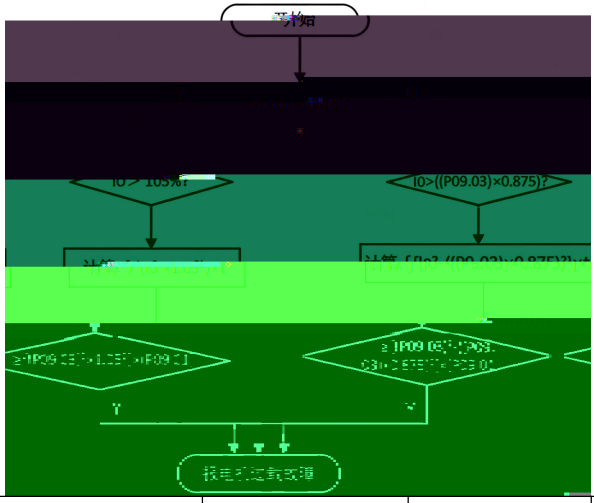

输出频率Hz
设定频率
检出幅度
时间 t
频率到达
检测信号
ON
ON

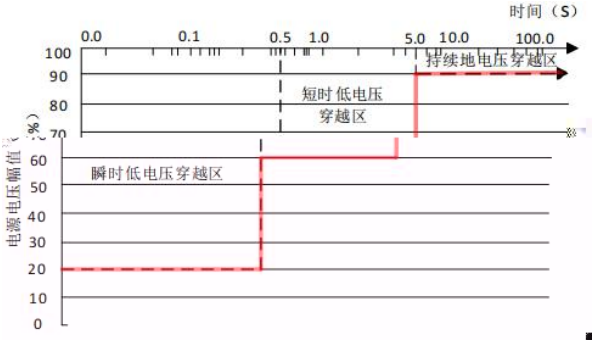

输出频率
跳跃频率3
跳跃频率幅度2

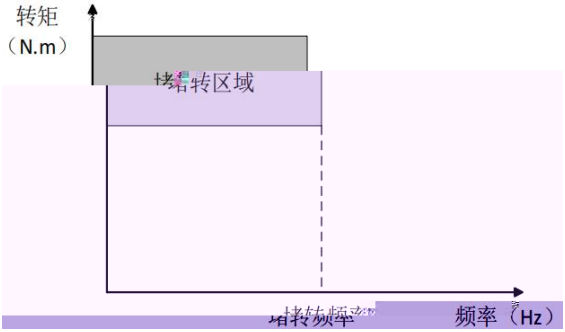

运行频率
减速时间1
加速时间1
P08. 25
P08. 26
减速时间2
加速时间2
时间

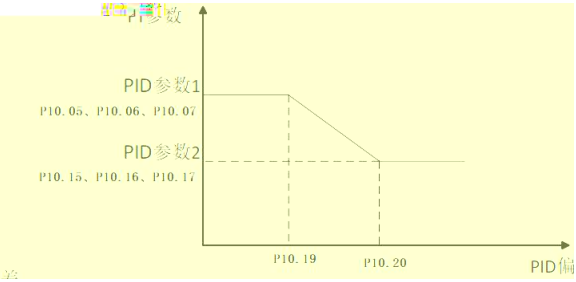

输出电流
任意时间电源
时间
时间
ON
ON
ON
OFF
OFF
OFF
电流检测
或继电器
任意到达
信号 DC

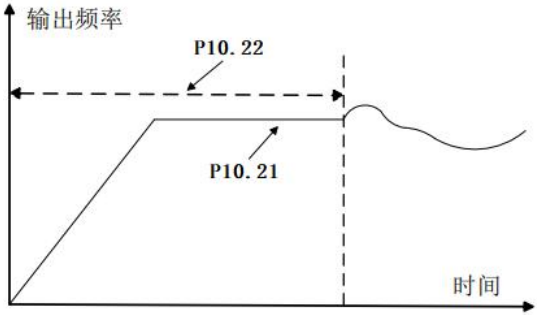

10kV
输出电压
输出电流
0V
T1
△=T2-T1
T2
Max=P08. 66
47-旁路柜出现接触器分闸
51-旁路柜出现接触器/刀闸反馈
Max=P08. 67
61-电机自动切工频
5-2旁路柜1出现接触器/刀闸反馈

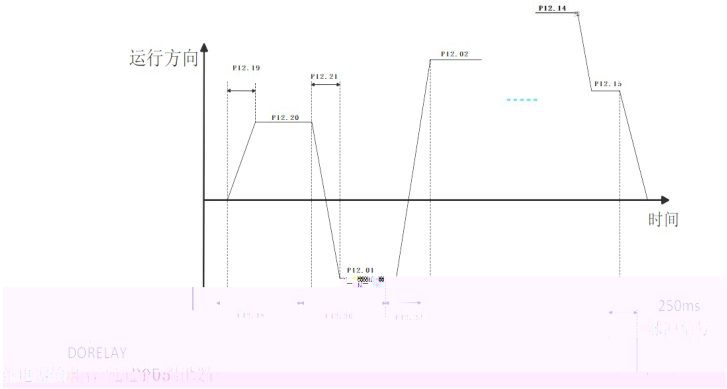

开始
Y
报电机过载故障

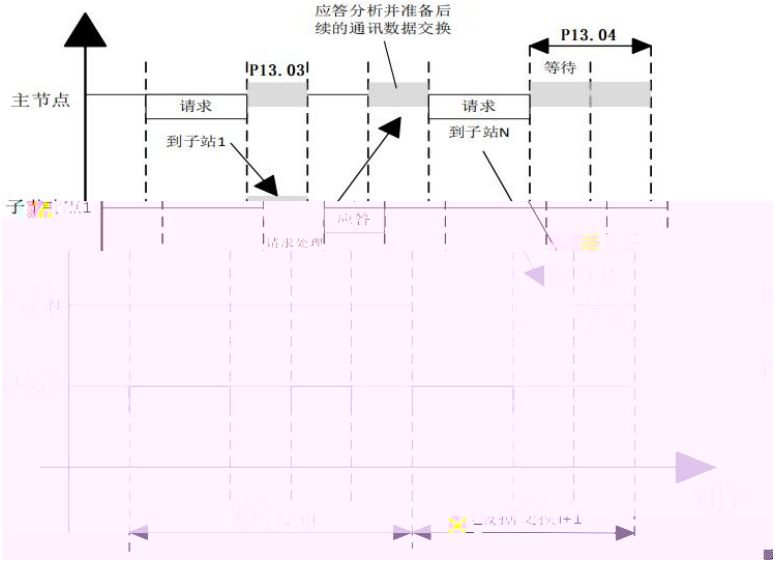

时间（S）
0.0
0.1
0.5
1.0
5.0
10.0
100.0
100
90
80
70
60
50
40
30
20
10
0
持续地电压穿越区
短时低电压
穿越区
瞬时低电压穿越区
电源电压幅值（%）

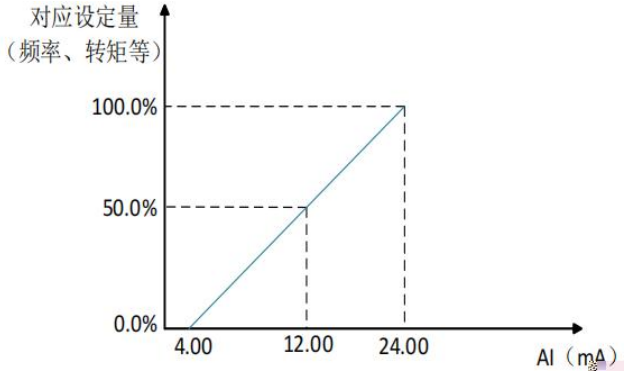

转矩
（N.m）
堵转区域
堵转频率
频率（Hz）

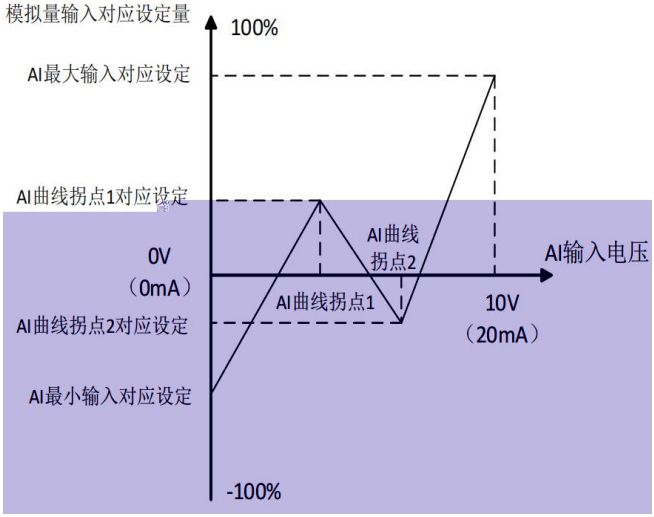

PID参数
PID参数1
P10.05、P10.06、P10.07
PID参数2
P10.15、P10.16、P10.17
P10.19
P10.20
PID偏

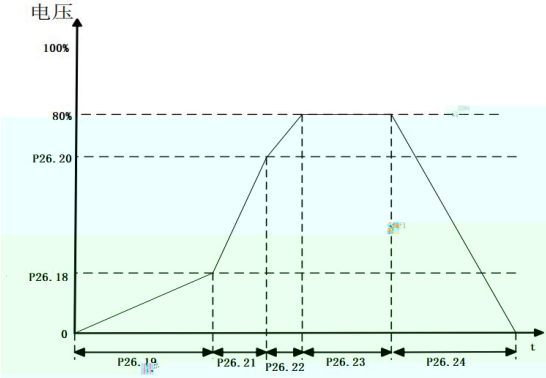

输出频率
P10. 22
P10. 21
时间


运行方向
时间
P12.19
P12.20
P12.21
P12.01
P12.02
P12.14
P12.15
250ms
DORELAY

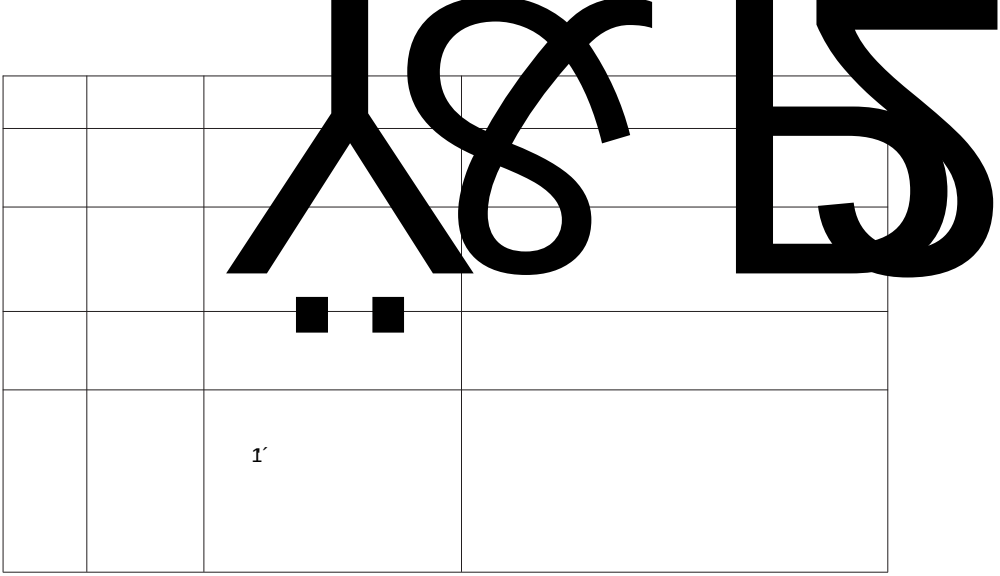

应答分析并准备后
续的通讯数据交换
P13. 04
等待
P13. 03
主节点
请求
请求
到子站1
到子站N
应答

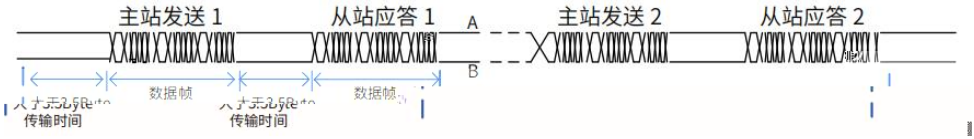

对应设定量
（频率、转矩等）
100.0%
50.0%
0.0%
4.00
12.00
24.00
AI（mA）

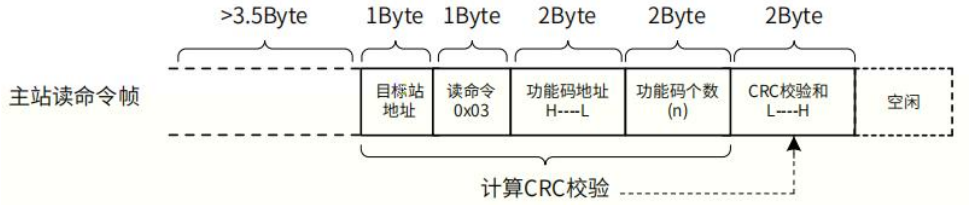

模拟量输入对应设定量
100%
AI最大输入对应设定
AI曲线拐点1对应设定
AI曲线
拐点2
AI输入电压
0V
（0mA）
AI曲线拐点1
10V
（20mA）
AI曲线拐点2对应设定
AI最小输入对应设定
-100%

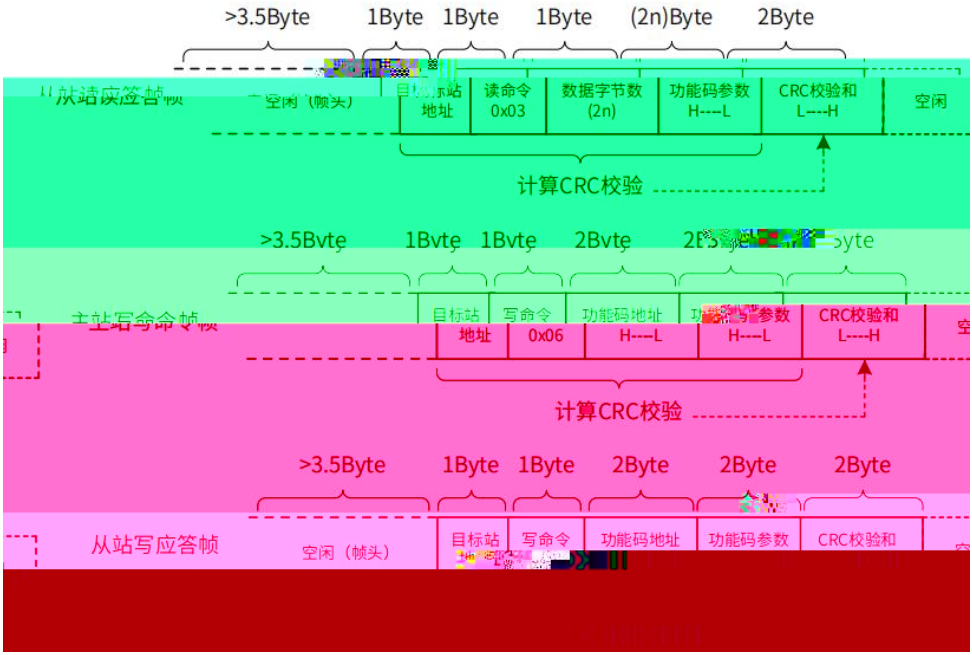

电压
100%
80%
P26. 20
P26. 18
0
t
P26. 19
P26. 21
P26. 22
P26. 23
P26. 24

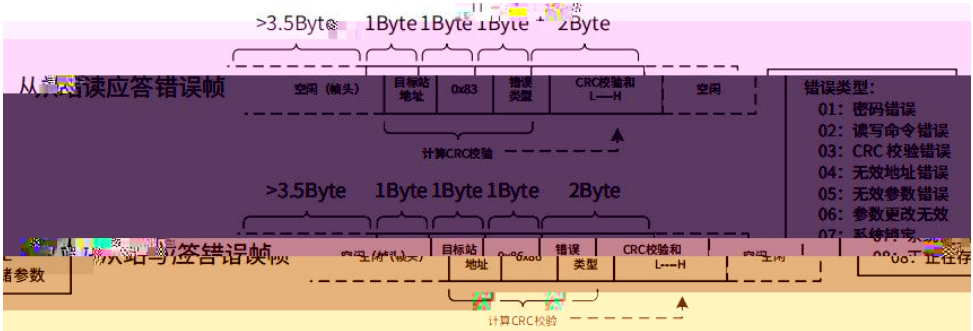
ΛЄ




主站发送 1
从站应答 1
A
主站发送 2
从站应答 2
B
数据帧
数据帧
传输时间
传输时间


>3.5Byte
1Byte
1Byte
2Byte
2Byte
2Byte
主站读命令帧
目标站地址
读命令 0x03
功能码地址 H----L
功能码个数 (n)
CRC校验和 L----H
空闲
计算CRC校验


>3.5Byte
1Byte
1Byte
1Byte
(2n)Byte
2Byte
从站读应答帧
空闲（帧头）
目标站地址
读命令 0x03
数据字节数 (2n)
功能码参数 H----L
CRC校验和 L----H
空闲
计算CRC校验
>3.5Byte
1Byte
1Byte
2Byte
2Byte
2Byte
主站写命令帧
目标站地址
写命令 0x06
功能码地址 H----L
功能码参数 H----L
CRC校验和 L----H
计算CRC校验
>3.5Byte
1Byte
1Byte
2Byte
2Byte
2Byte
从站写应答帧
空闲（帧头）
目标站
写命令
功能码地址
功能码参数
CRC校验和


>3.5Byte
1Byte
1Byte
1Byte
2Byte
从站读应答错误帧
空闲（帧头）
目标站地址
0x83
错误类型
CRC校验和 L---H
空闲
计算CRC校验
错误类型：
01：密码错误
02：读写命令错误
03：CRC 校验错误
04：无效地址错误
05：无效参数错误
06：参数更改无效
>3.5Byte
1Byte
1Byte
1Byte
2Byte
从站写应答错误帧
目标站地址
错误类型
CRC校验和 L---H
计算CRC校验

■

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