












智能化成就卓越
Intelligence For Excellence









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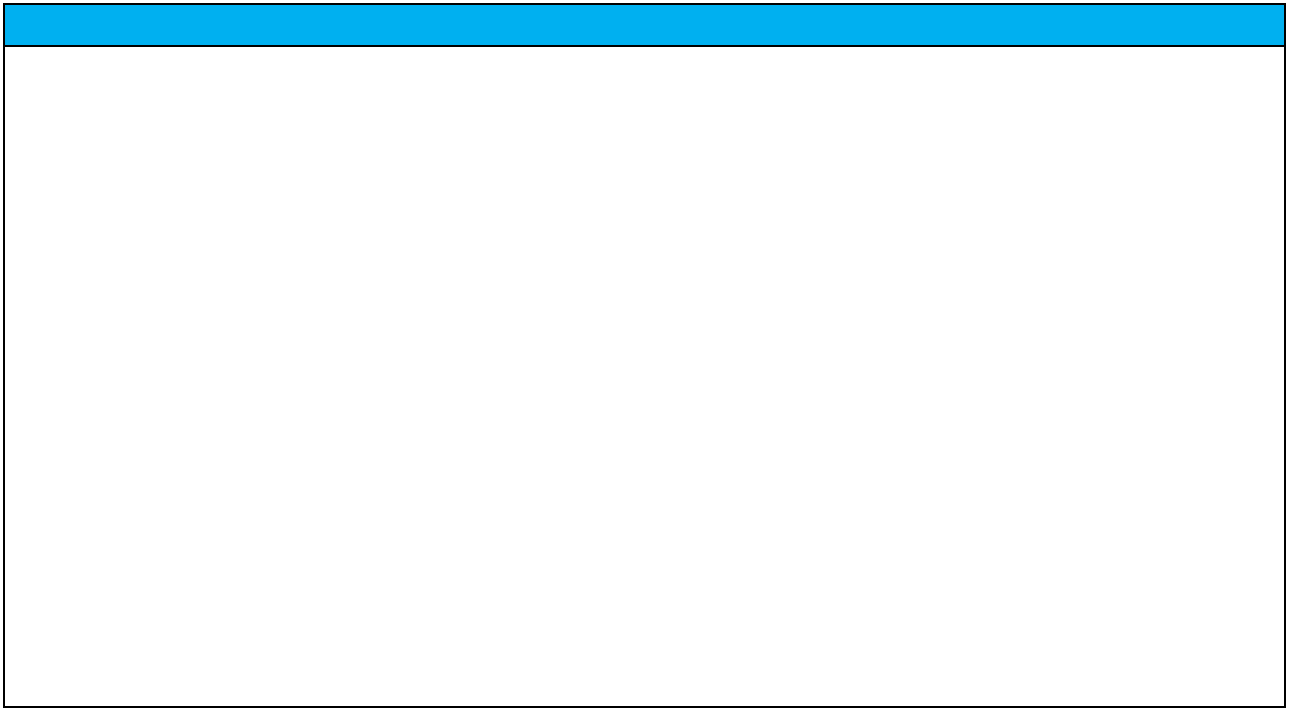
	
	
	

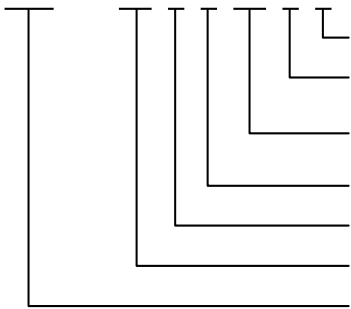
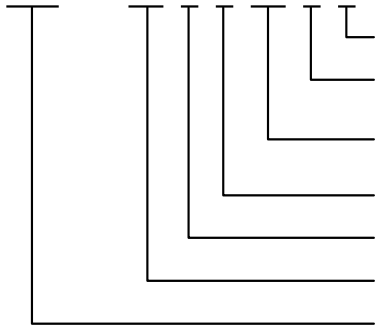
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	
	



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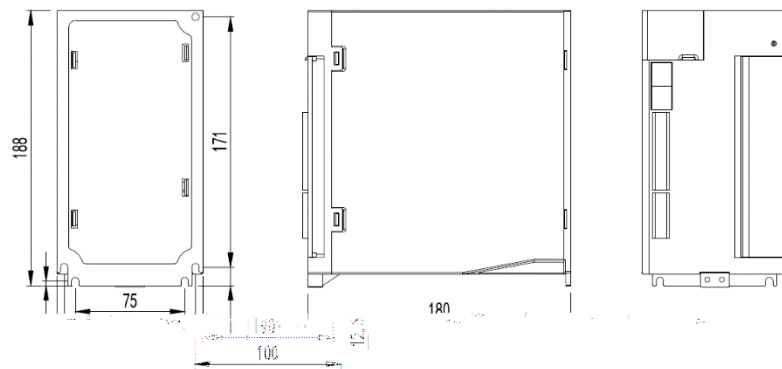
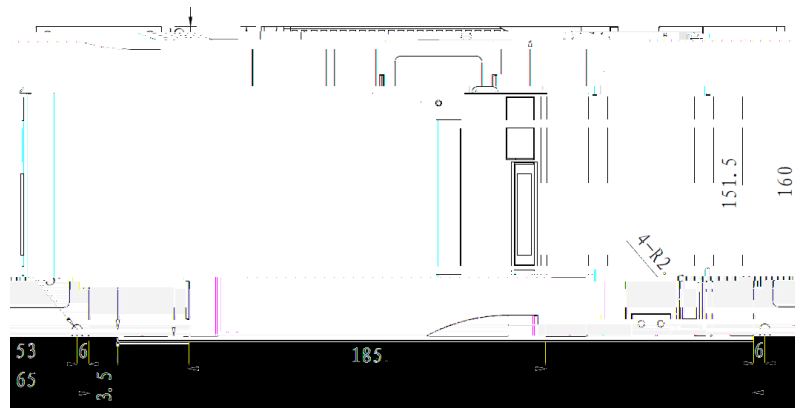
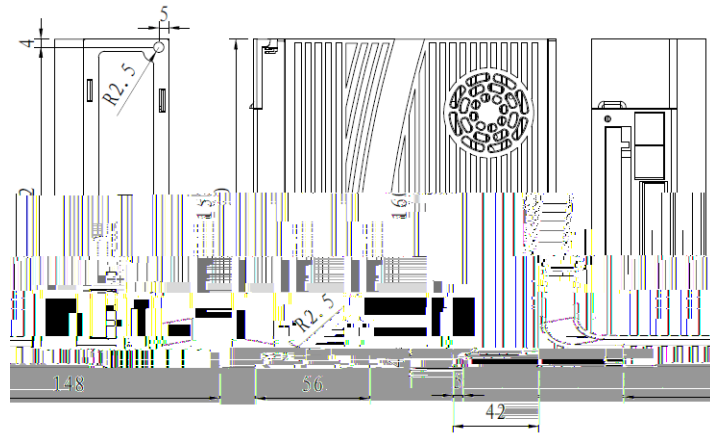
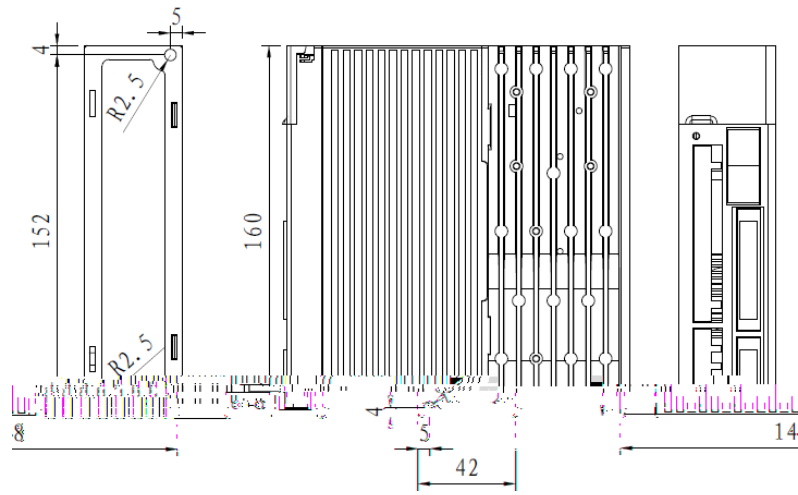


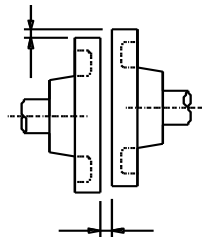


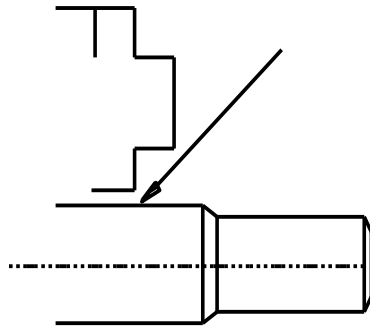
Blue header row						
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线用断路器

用于保护电源线，出现过流时切断电源。

EMI 滤波器

安装噪音滤波器以防来自电源线外部噪音。

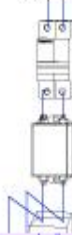
电磁接触器

打开/关闭伺服电源。
使用时请安装浪涌抑制器。

DC 电抗器

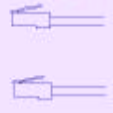
出厂时，e1、e2 之间已经短接。

电源单相
AC220V



L1
L2
L3
N
PE

Emercat 通信接口

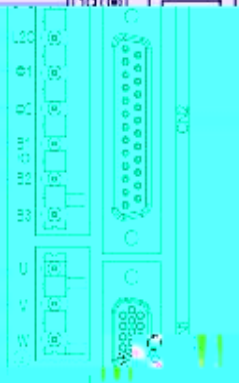


制动电阻

使用内部制动电阻时，将B2和B3短接（出厂时B2和B3已短接）；制动能力不足时，在B1和B2之间连接外部制动电阻，并拆除B2和B3之间的短接线。

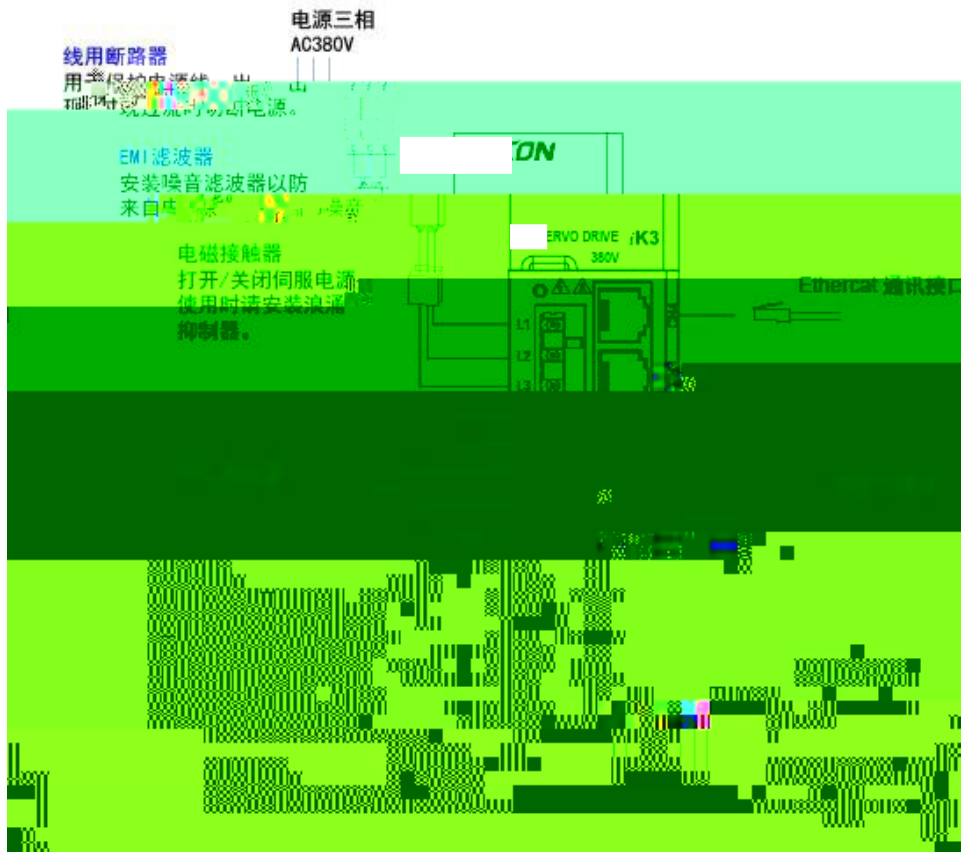
伺服电机

必须和电机UVW 端子一一对应。



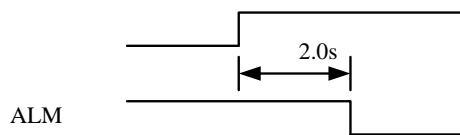
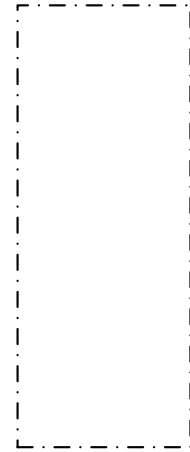
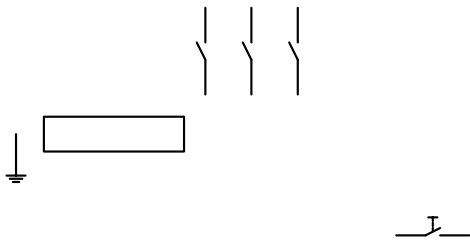
控制 0 端子

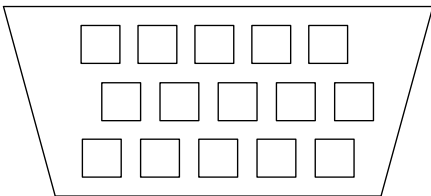
光电编码器



4

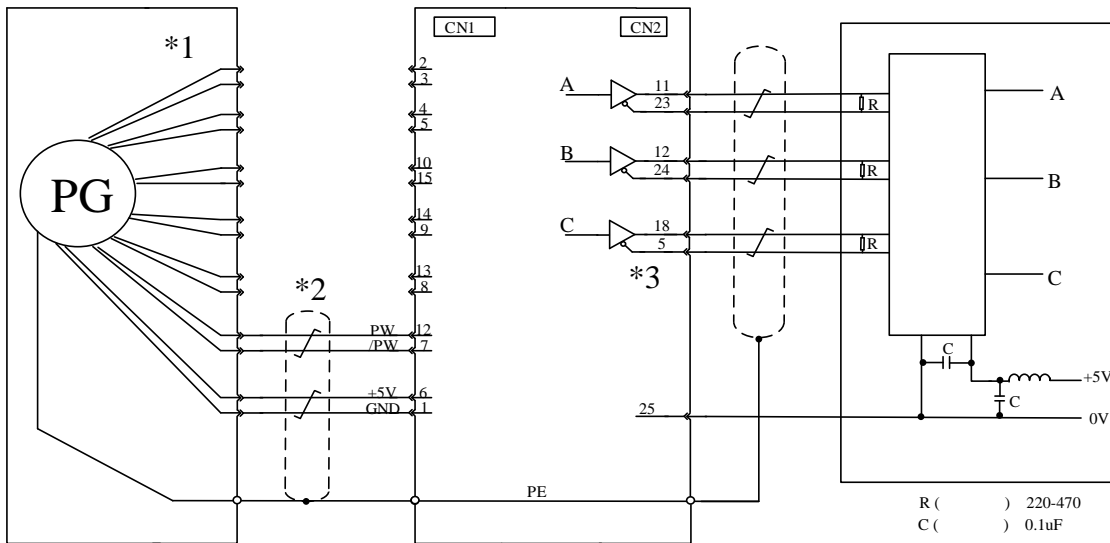
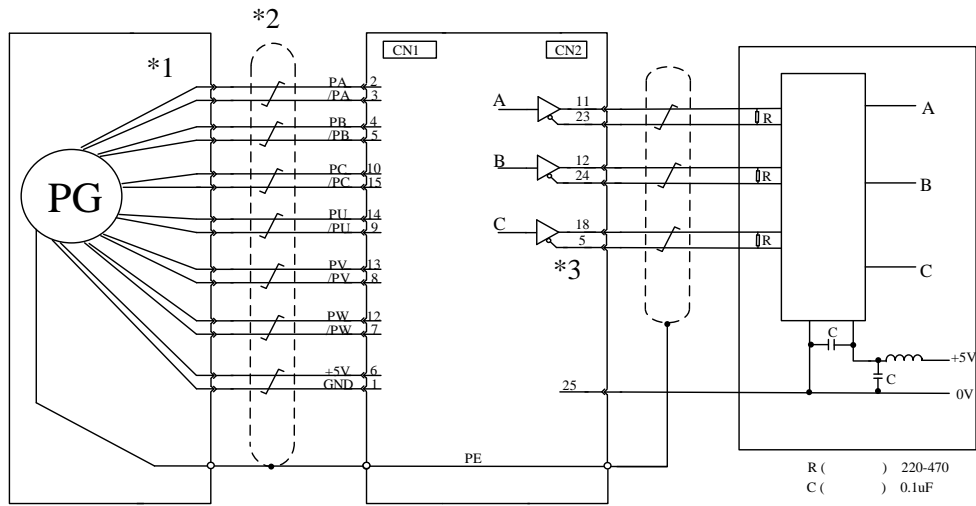
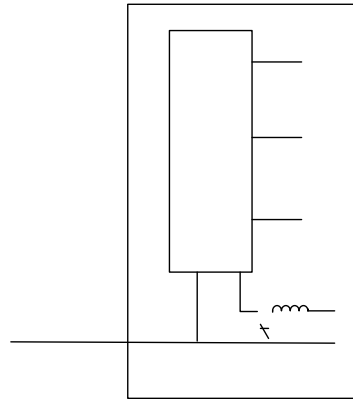


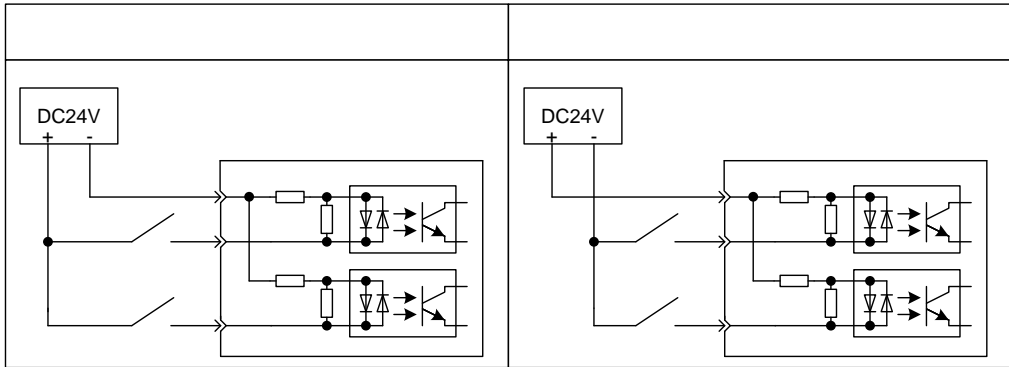
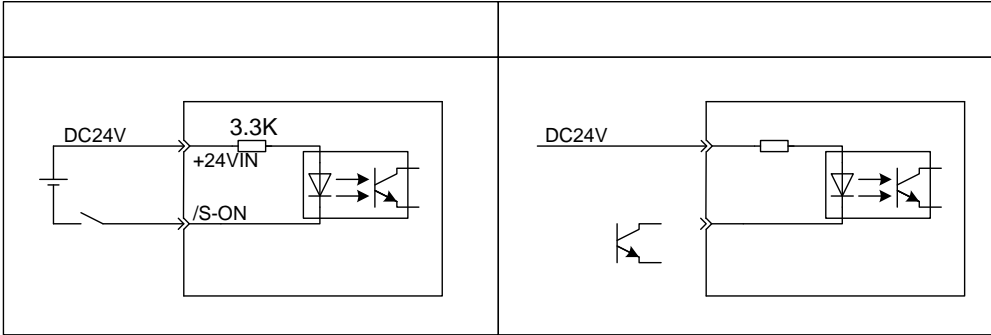




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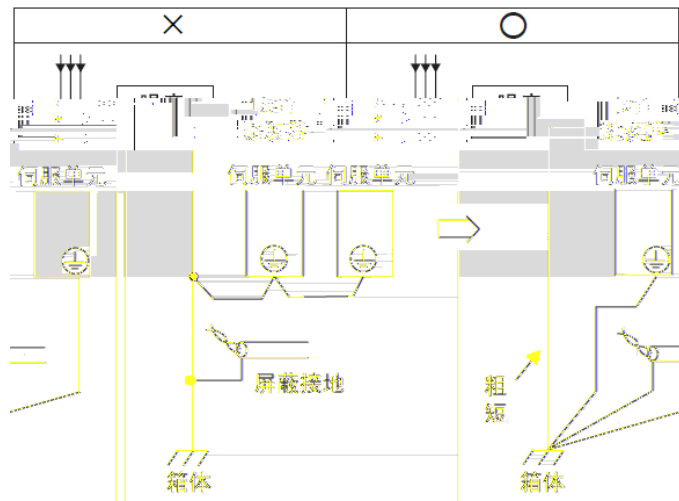
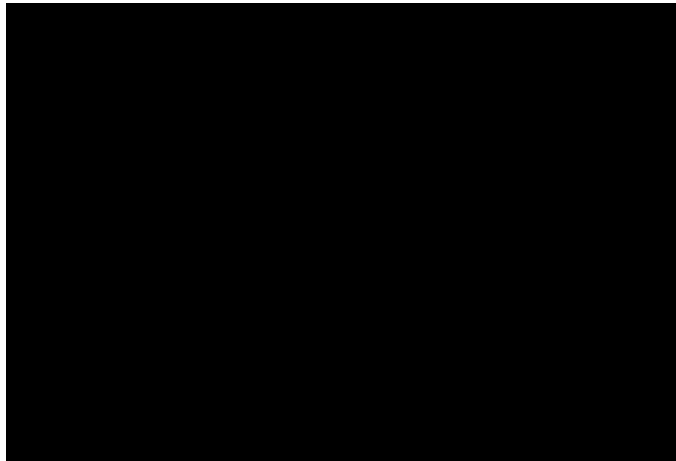
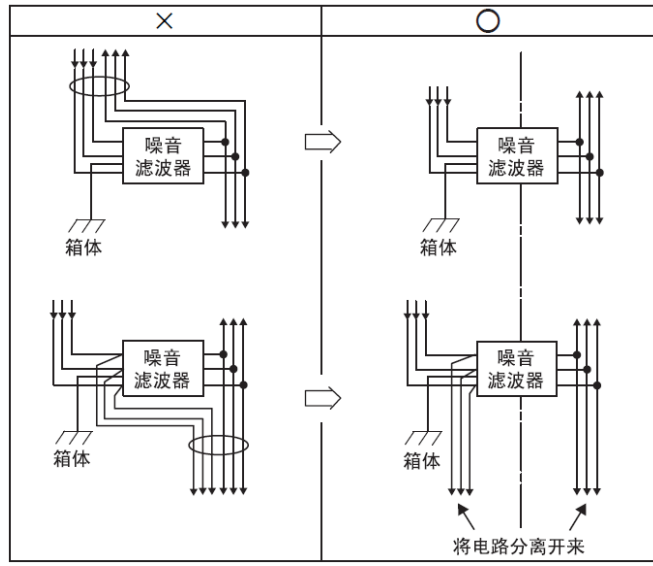
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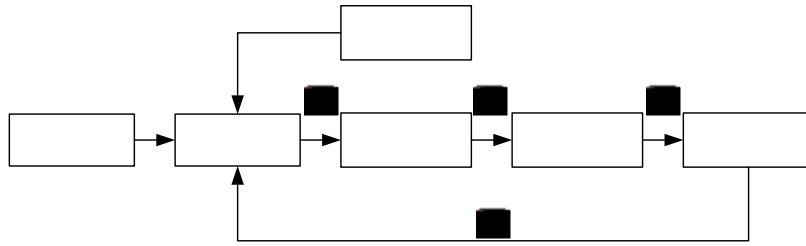
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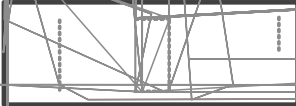




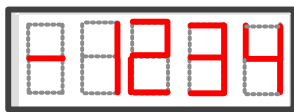
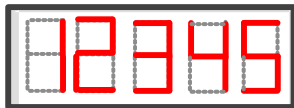
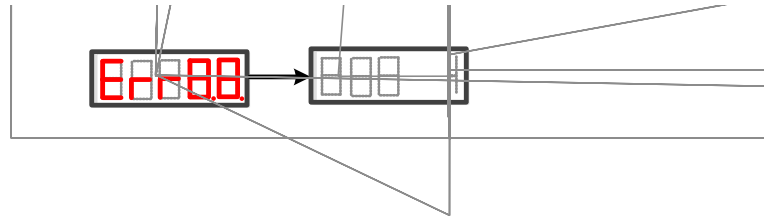
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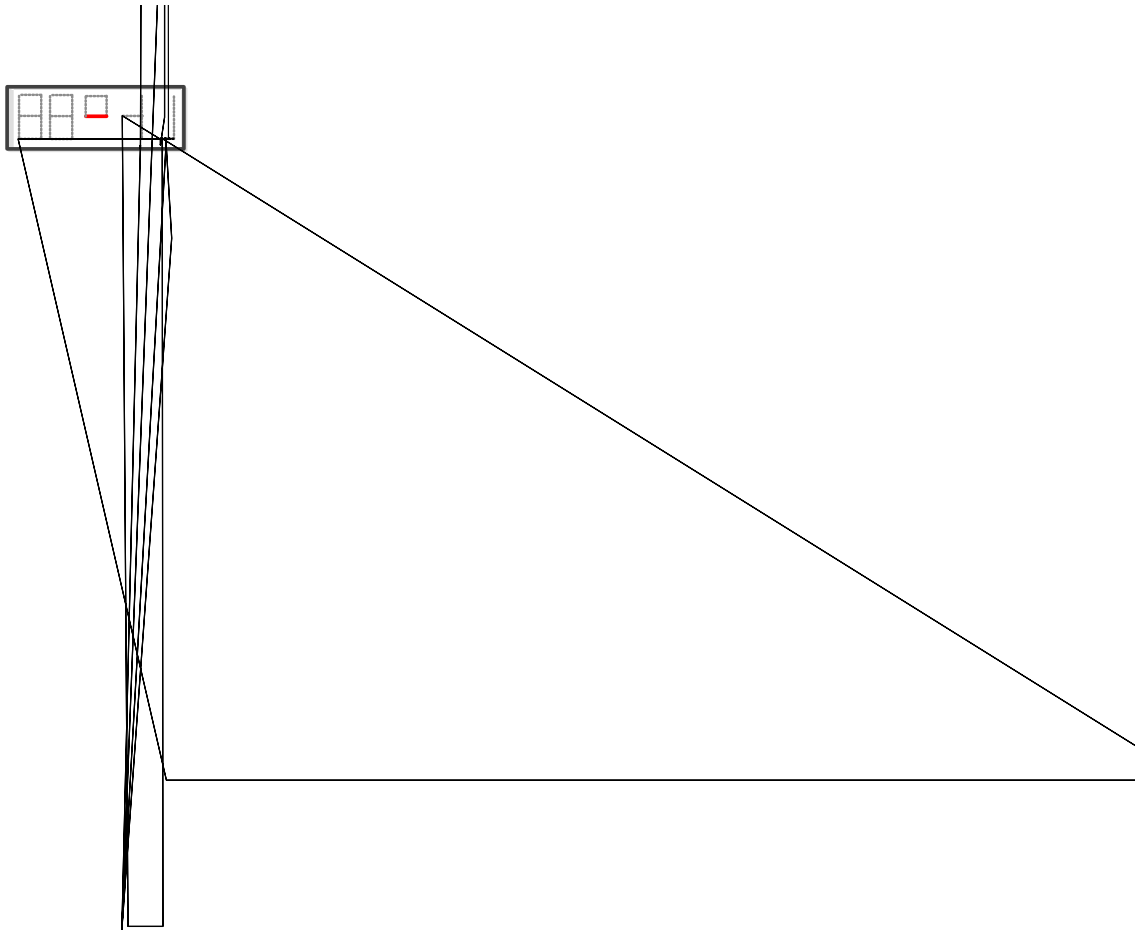
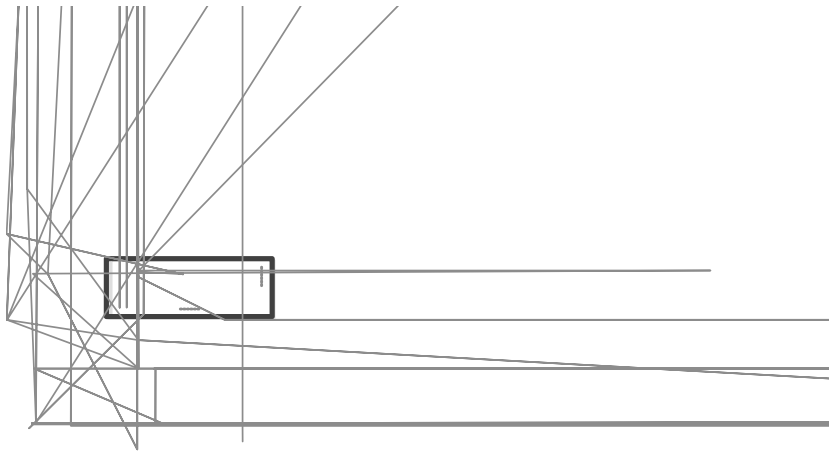
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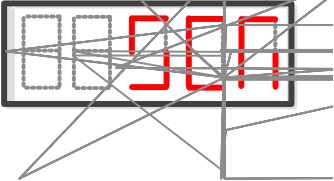
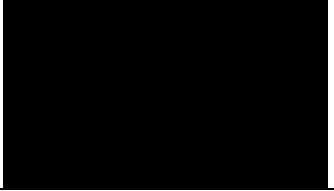
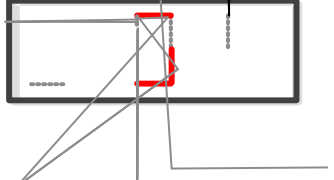
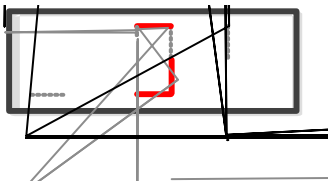
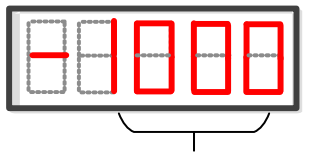
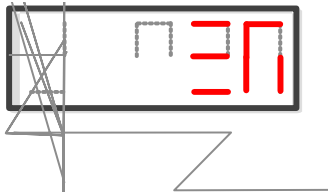
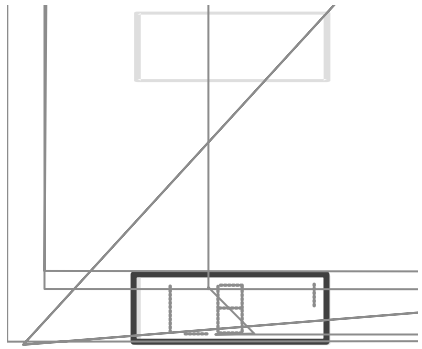




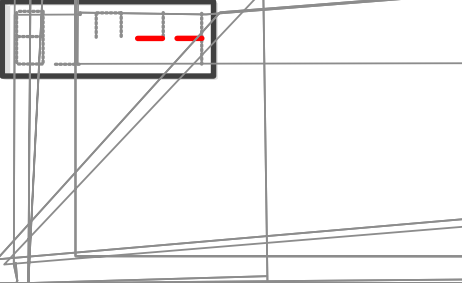
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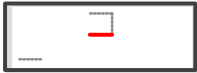
			
			
			
			





				
				
				
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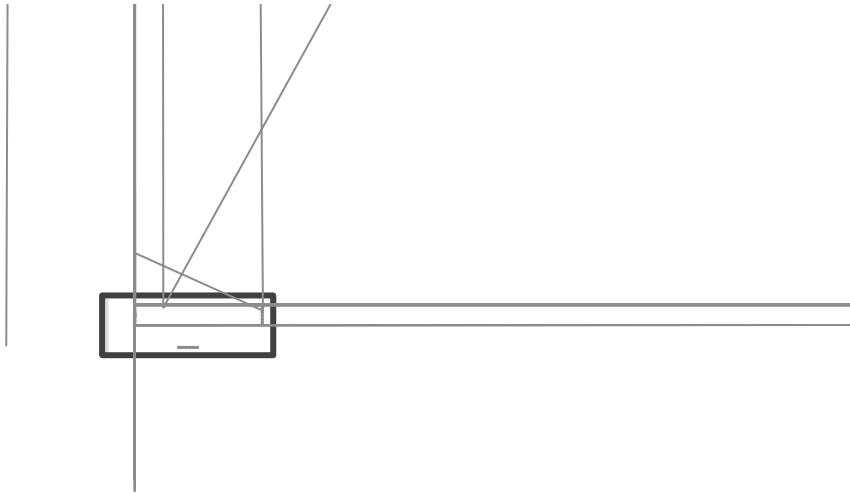


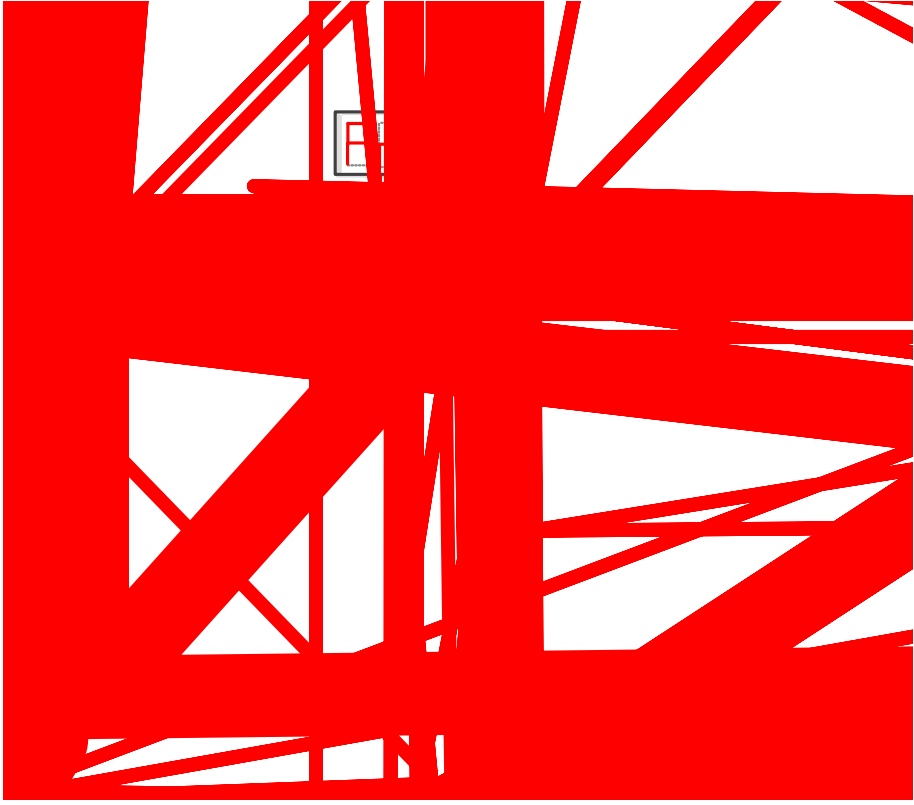
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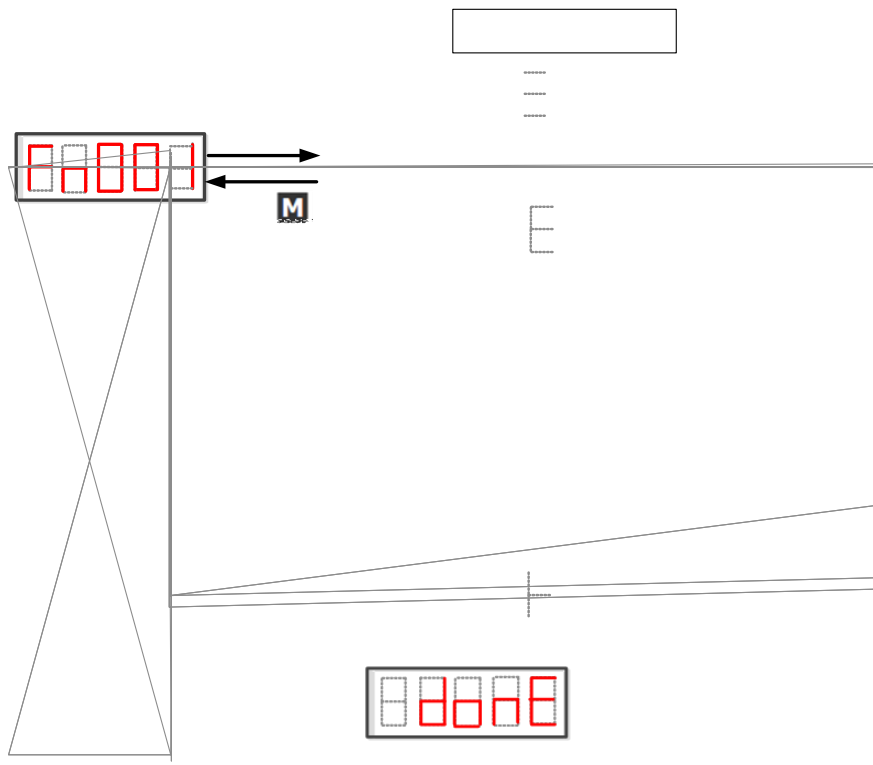


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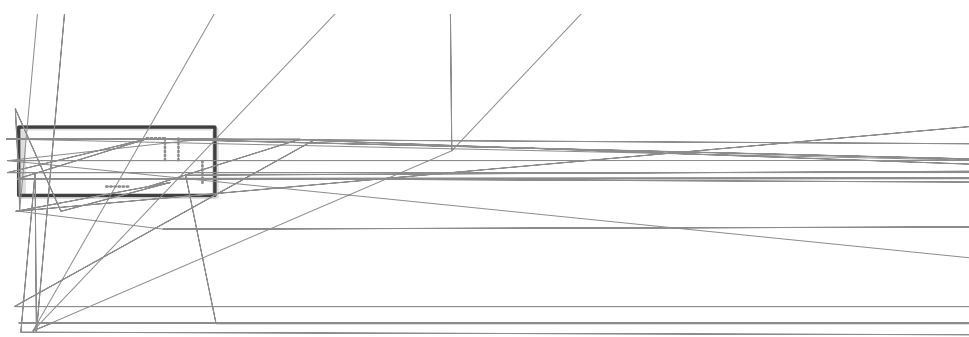




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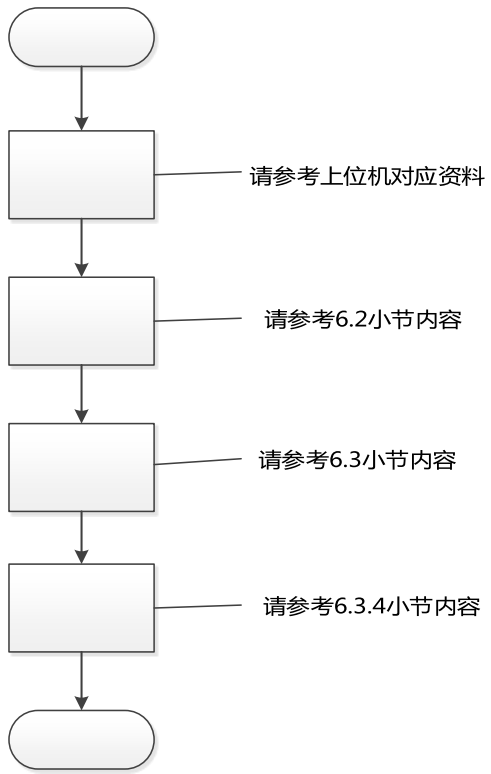
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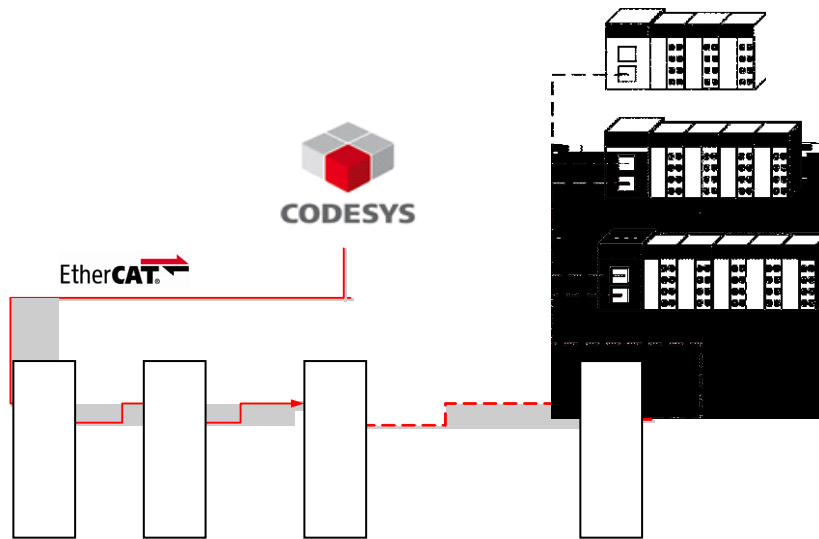


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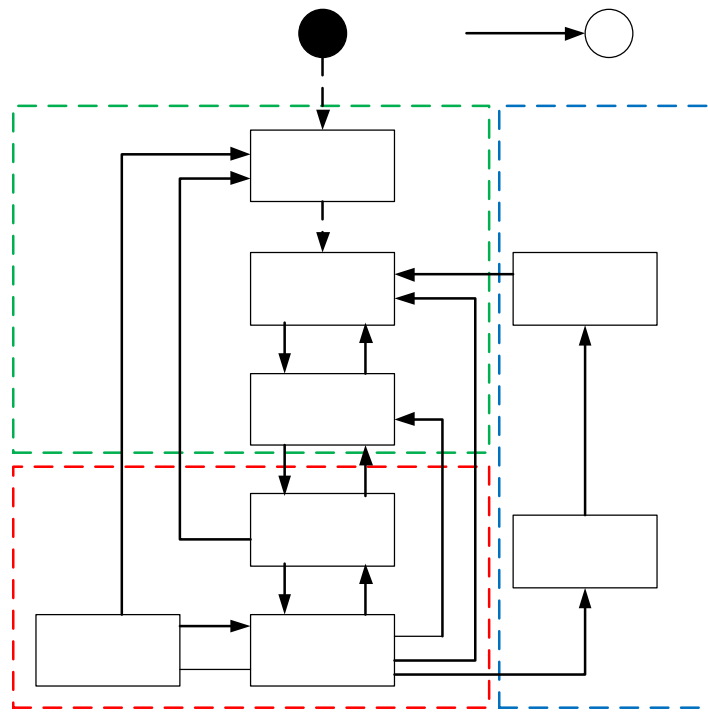


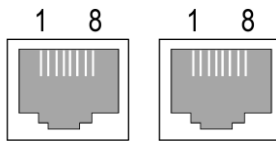


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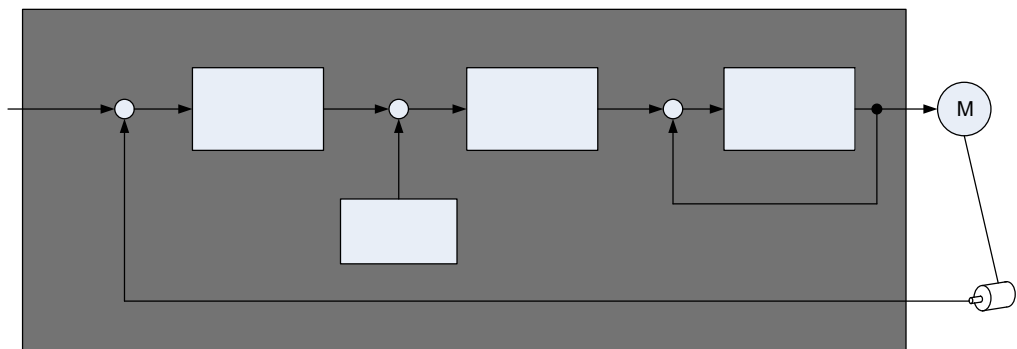


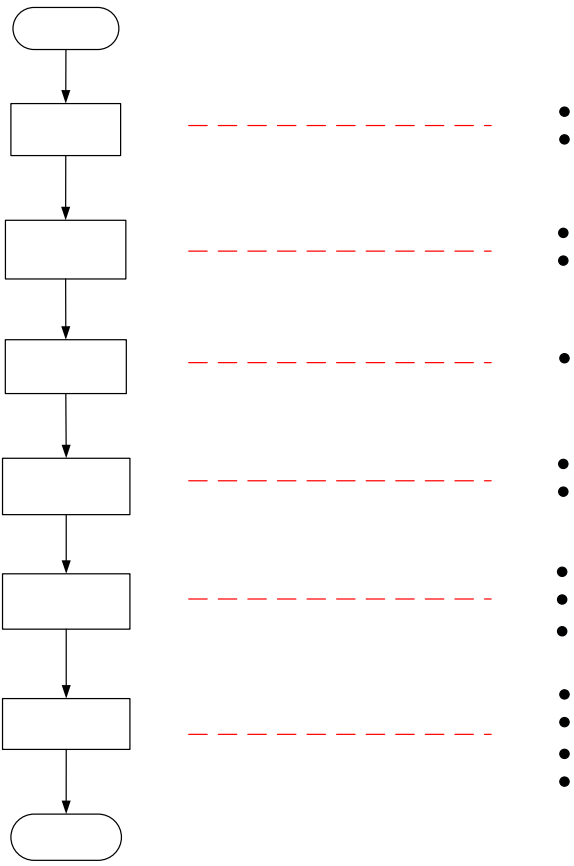




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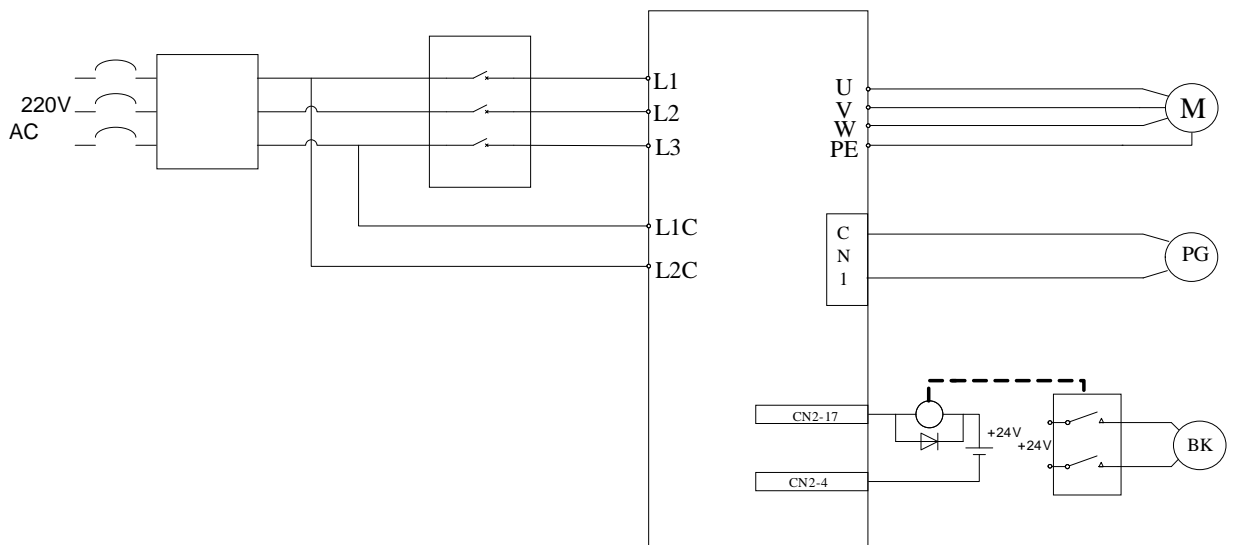
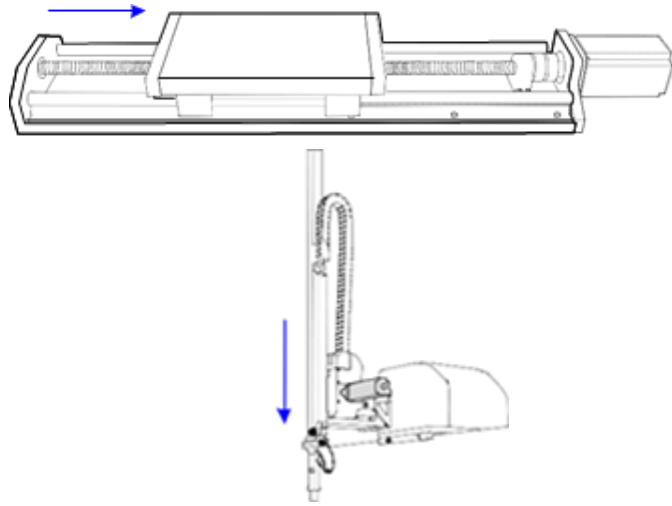


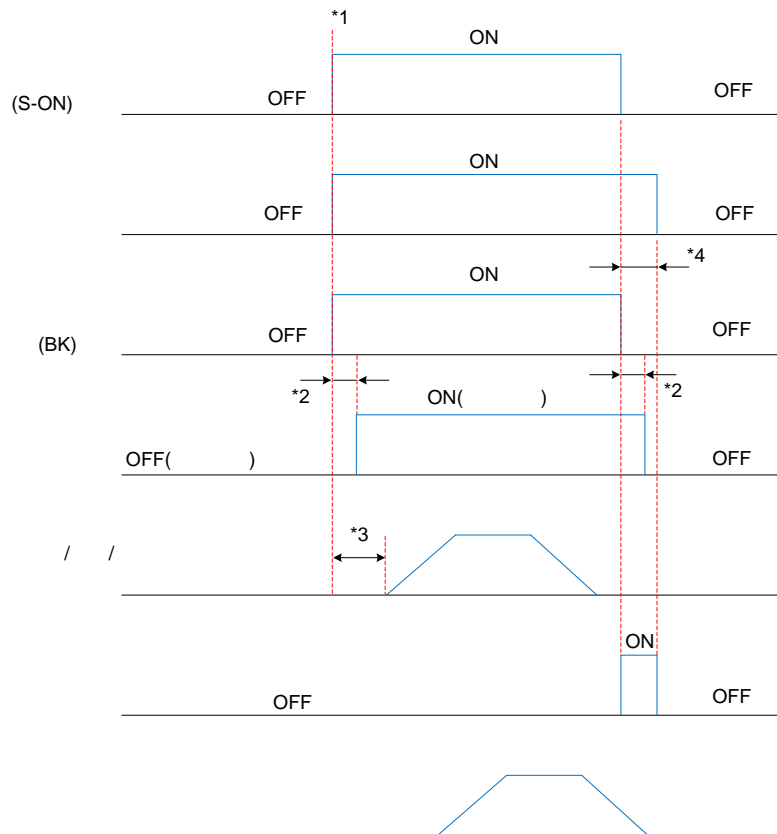
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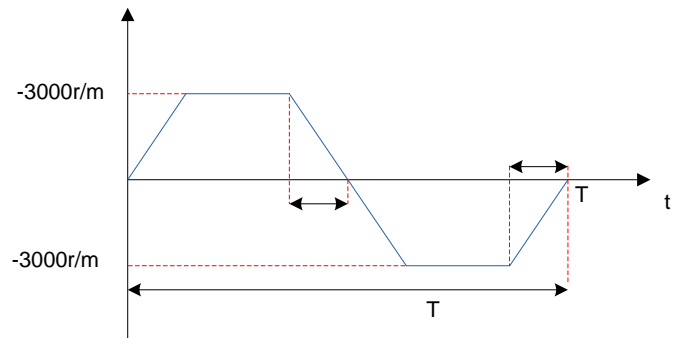


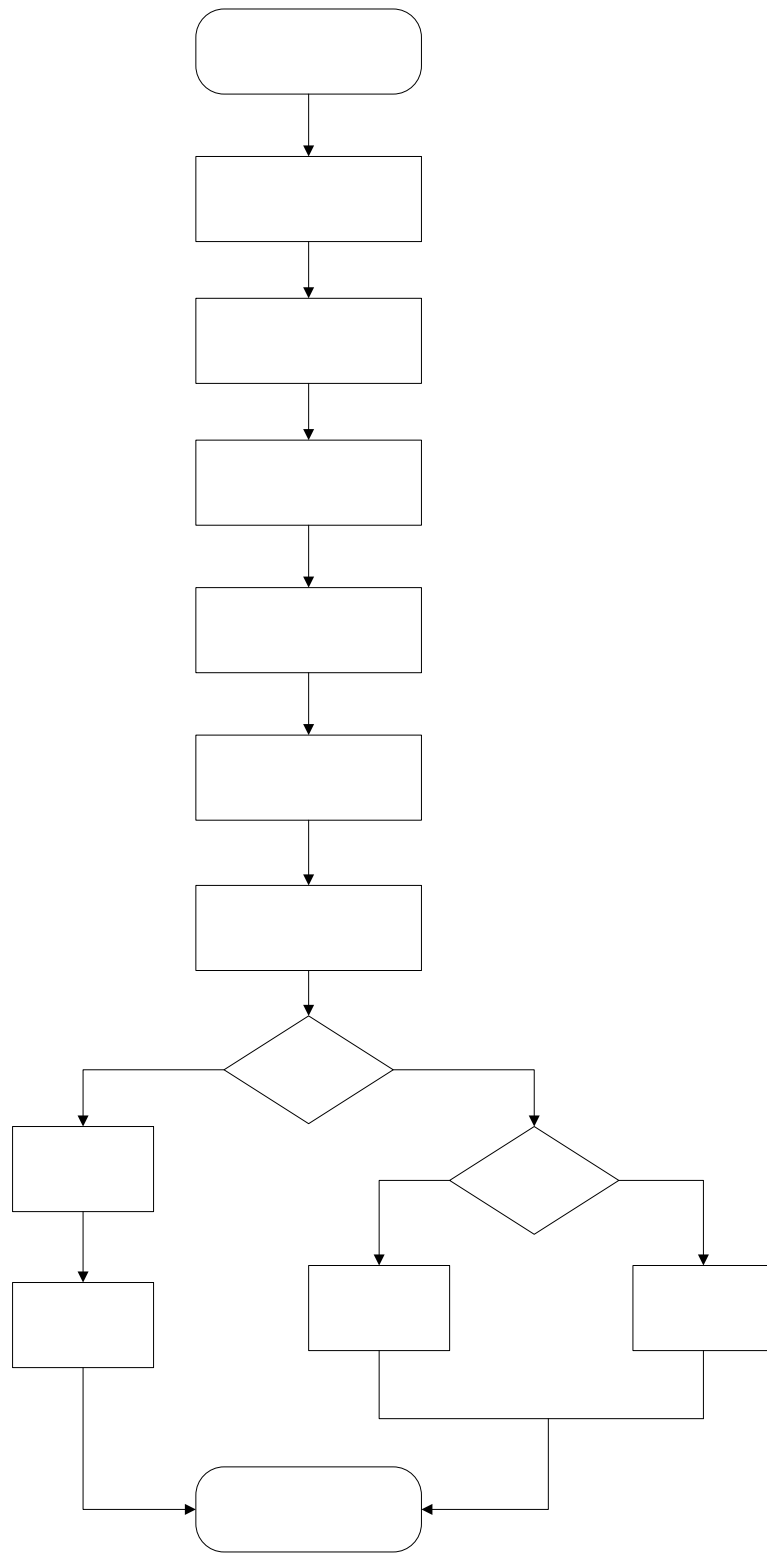




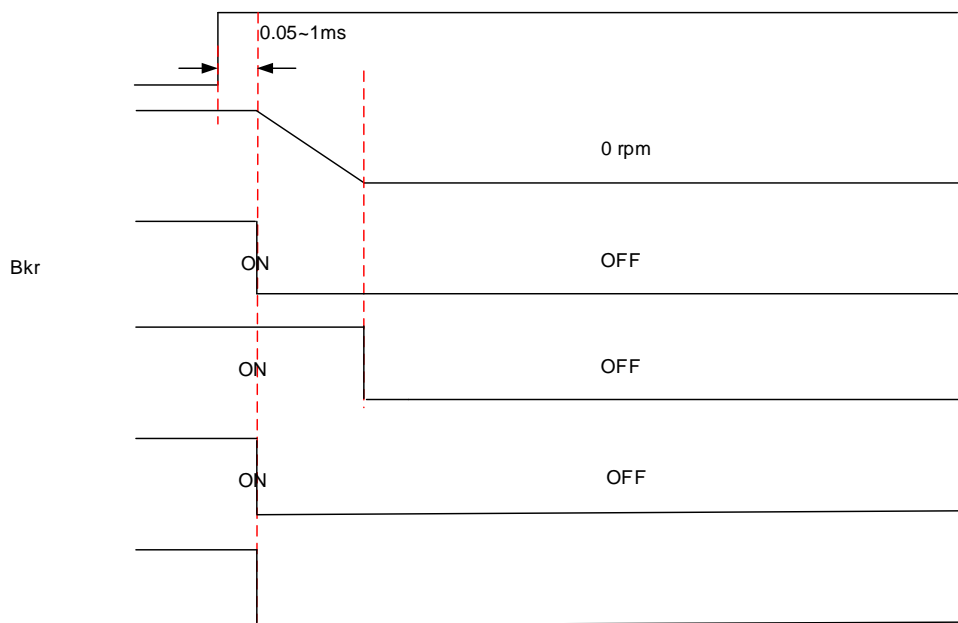
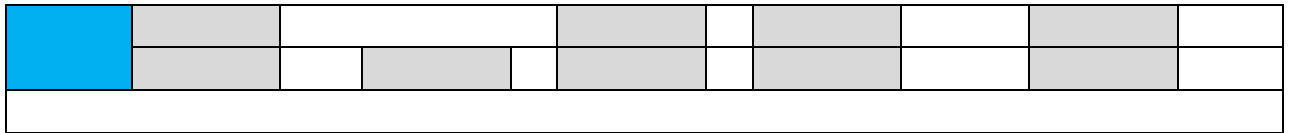


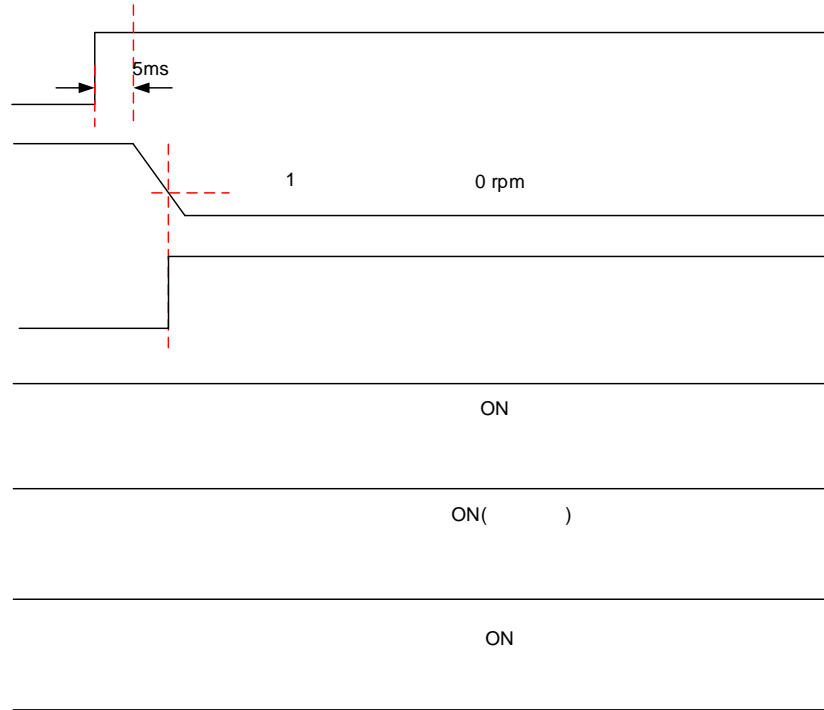






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Bkr

ON

ON()

ON

S-ON

OFF

ON

3ms

(Brk)

OFF

ON

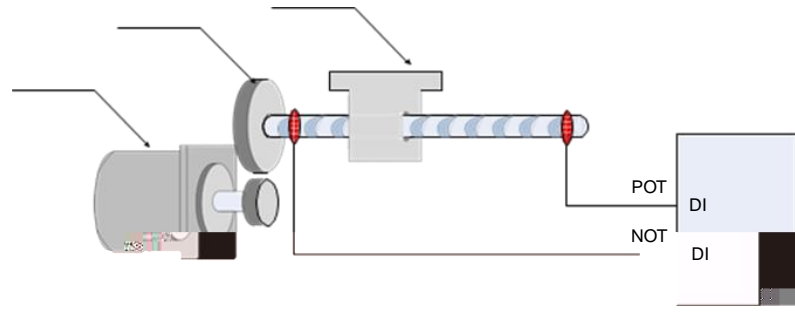
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ON()

P21.07 ms

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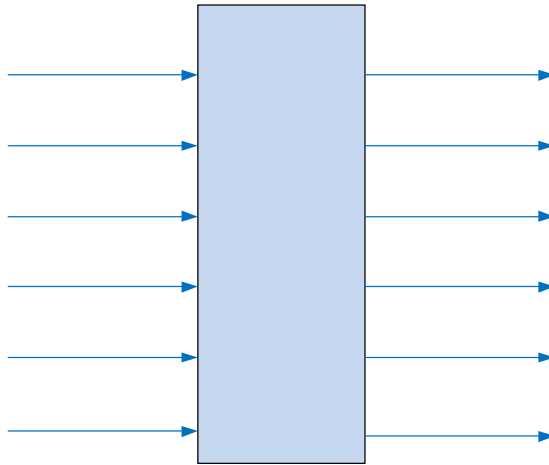
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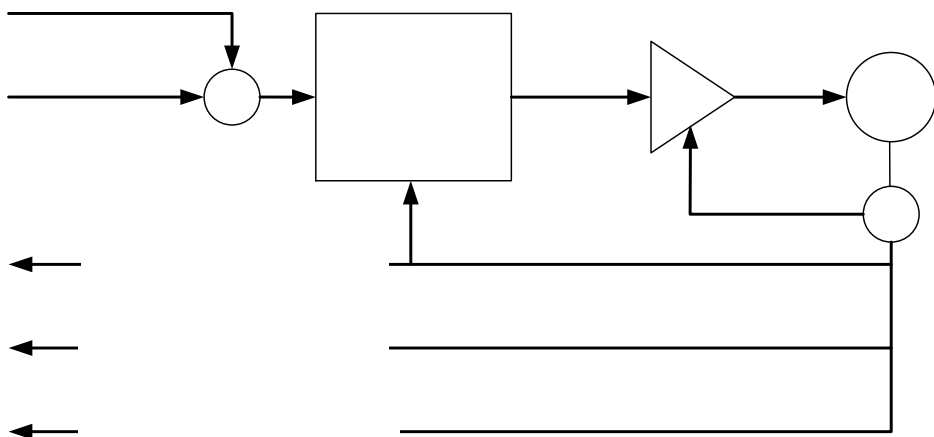


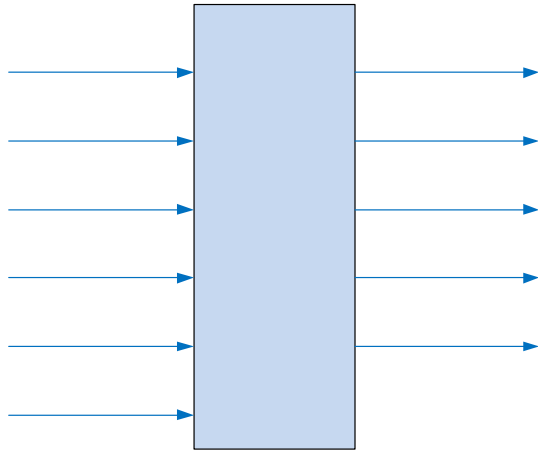
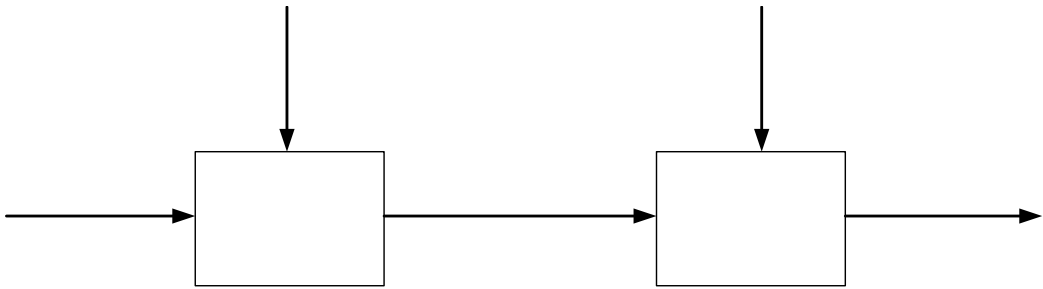


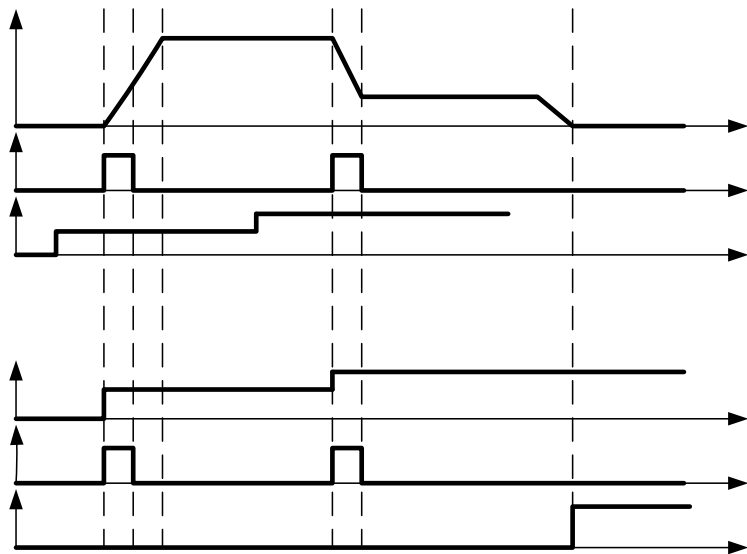


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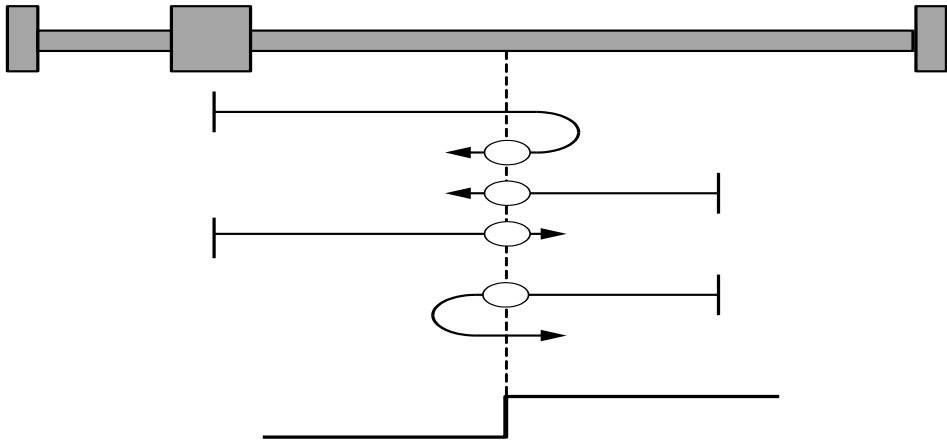
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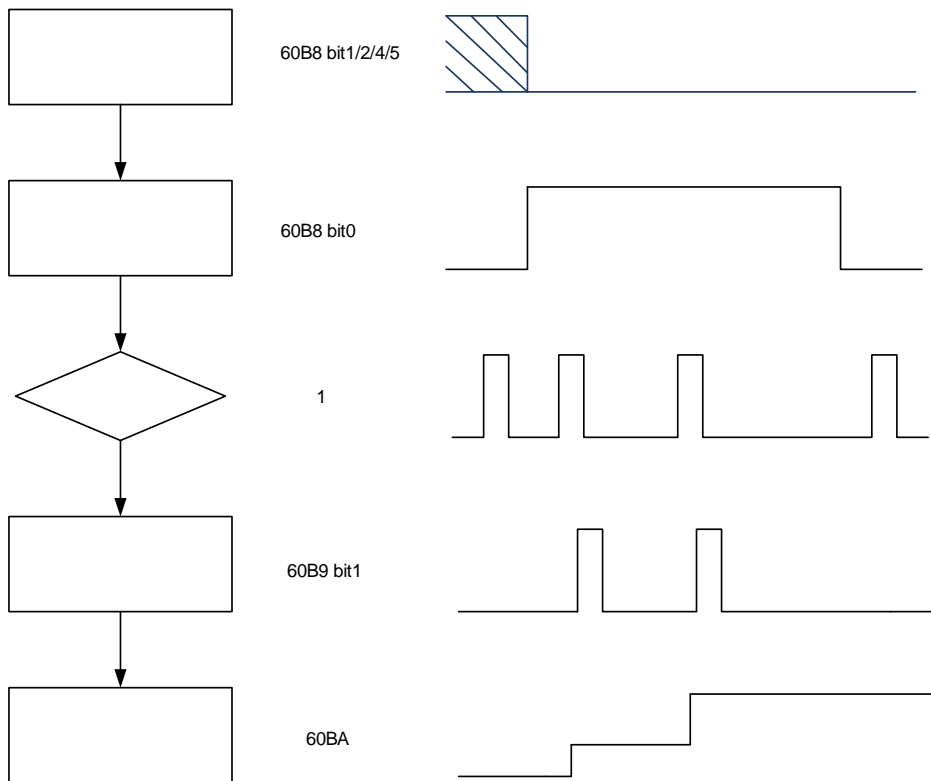




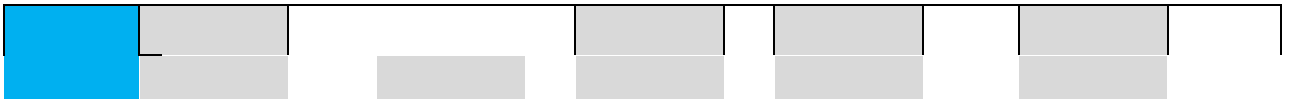




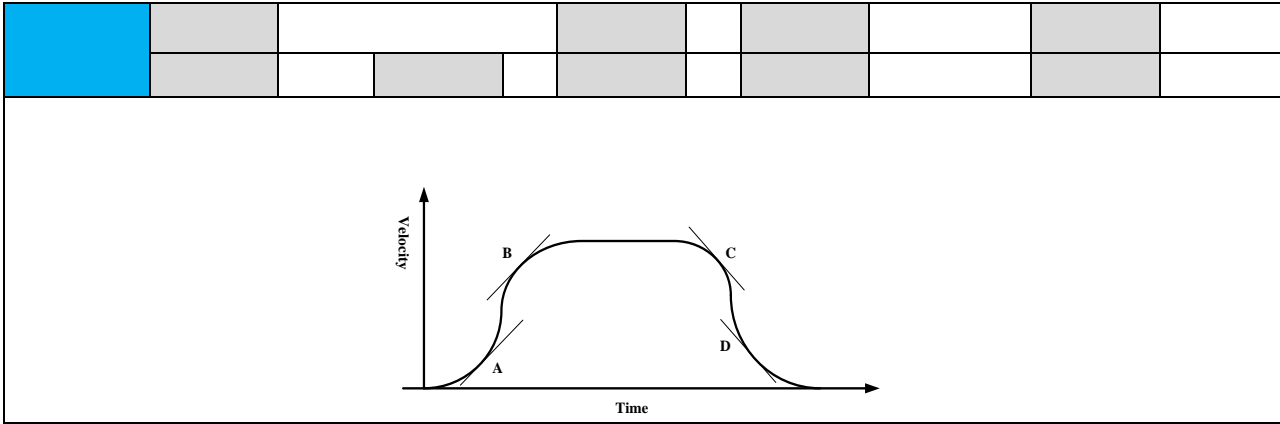
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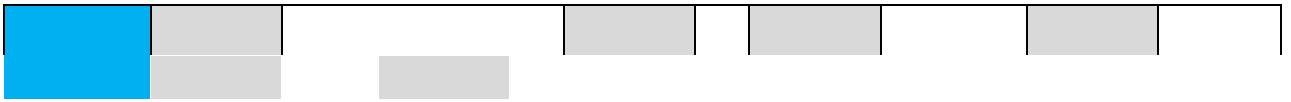




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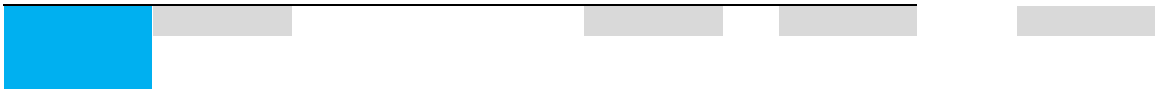
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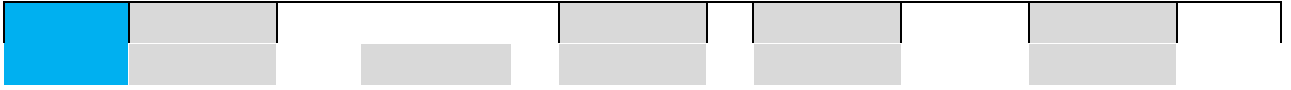
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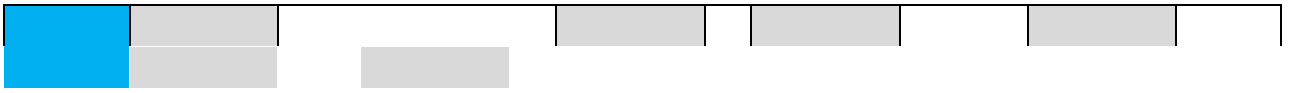
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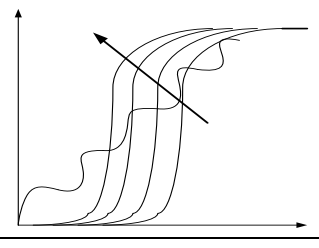
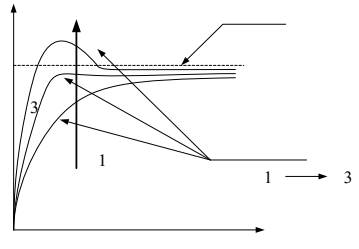


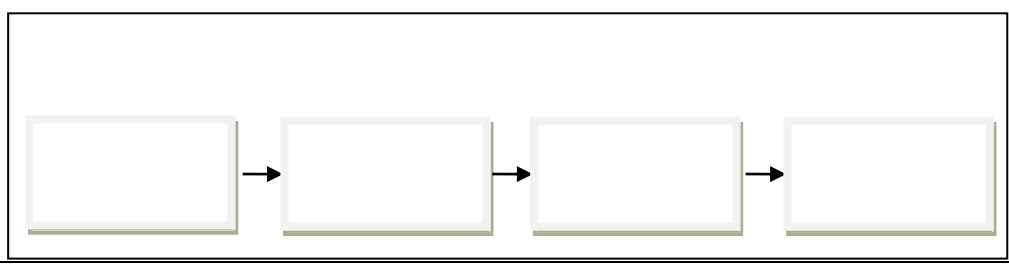


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Blue	Grey				Grey		Grey		Grey	
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Grey			Grey		Grey		Grey		Grey	

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Grey			Grey		Grey		Grey		Grey	

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Black	Blue	Grey			Grey		Black		Grey	
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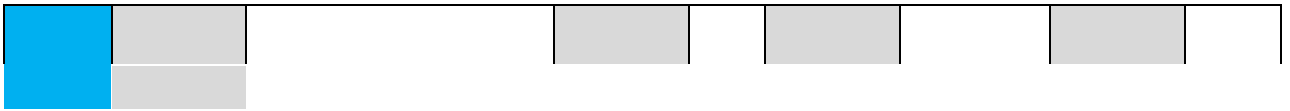
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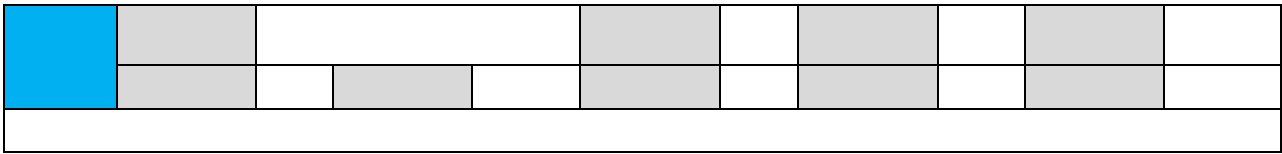
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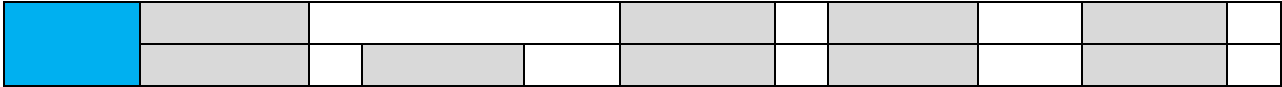
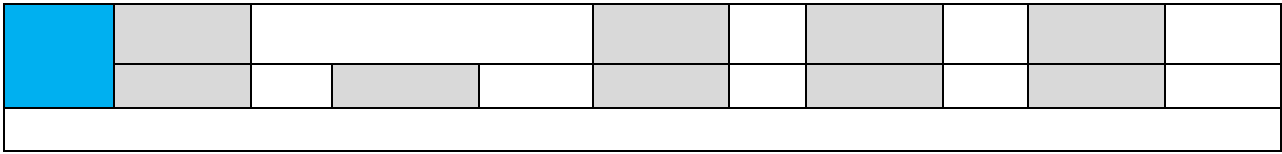
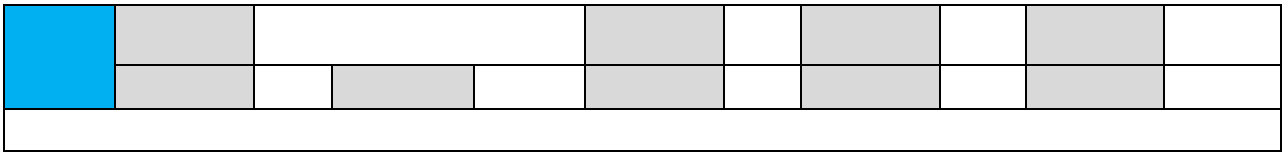
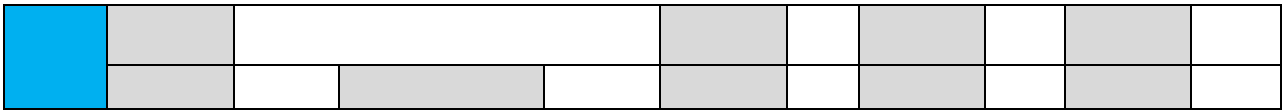


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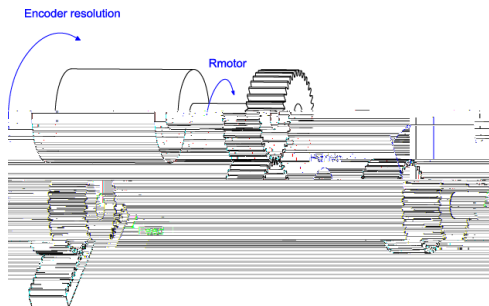
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$$\text{Gear ratio} = \frac{\text{Motor Shaft revolutions}}{\text{Driving Shaft revolutions}}$$



$$\text{Feed constant} = \frac{\text{Feed}}{\text{Driving Shaft revolutions}}$$



$$\text{Position encoder resolution} = \frac{\text{Encoder increments}}{\text{Motor revolutions}} = \frac{131072}{1} = 131072$$

$$\text{Velocity encoder resolution} = \frac{\text{Encoder increments per second}}{\text{Motor revolutions per second}} = \frac{131072}{1} = 131072$$

$$\text{Gear ratio} = \frac{\text{Motor Shaft revolutions}}{\text{Driving Shaft revolutions}} = \frac{5rpm}{1rpm} = 5$$

$$\text{Feed constant} = \frac{\text{Feed}}{\text{Driving Shaft revolutions}} = \frac{1000}{1} = 1000$$

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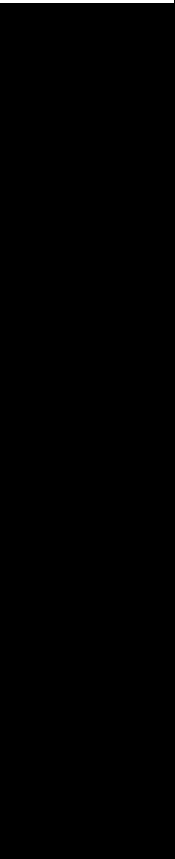
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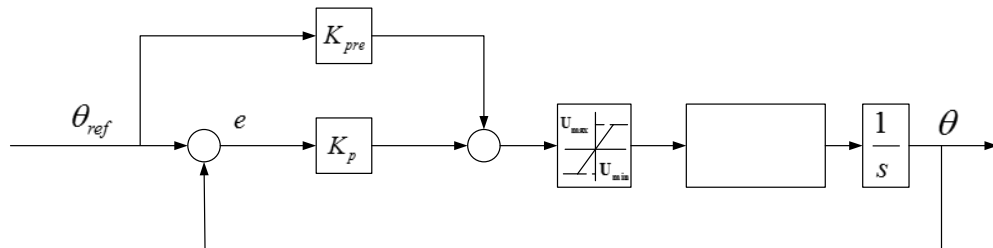
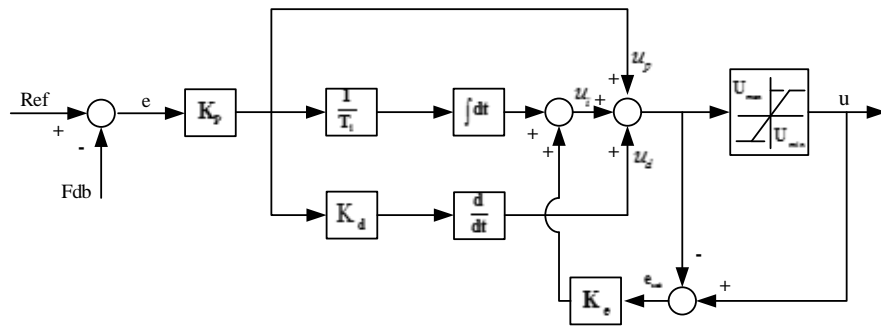
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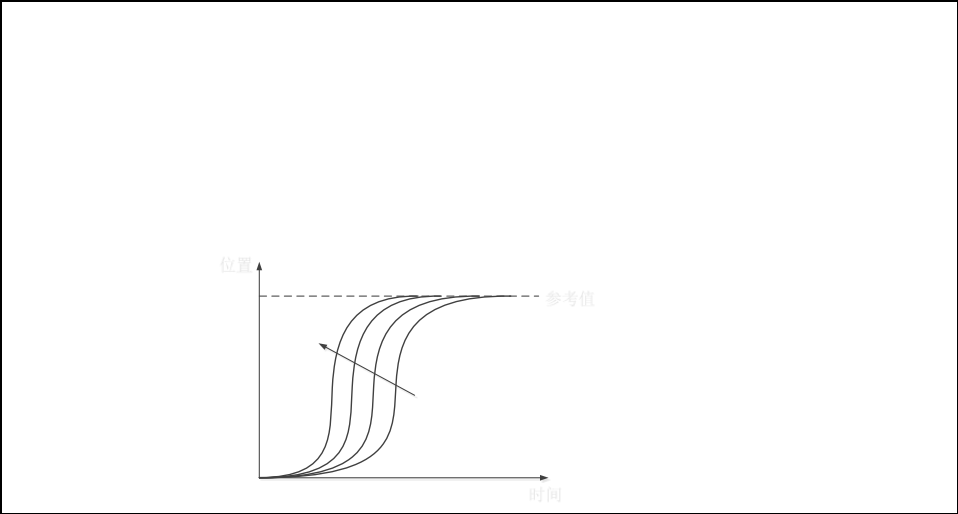
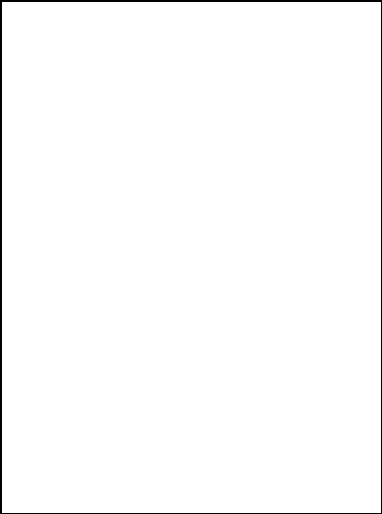
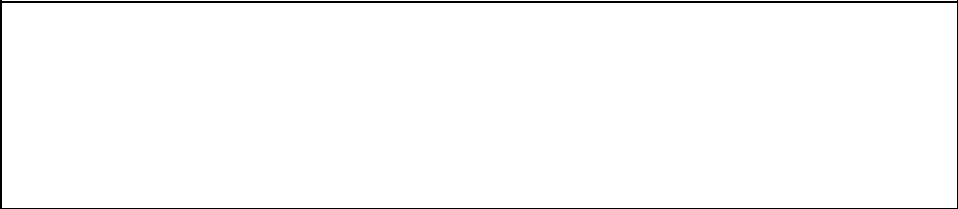
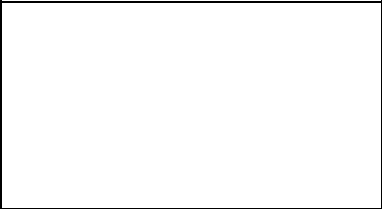
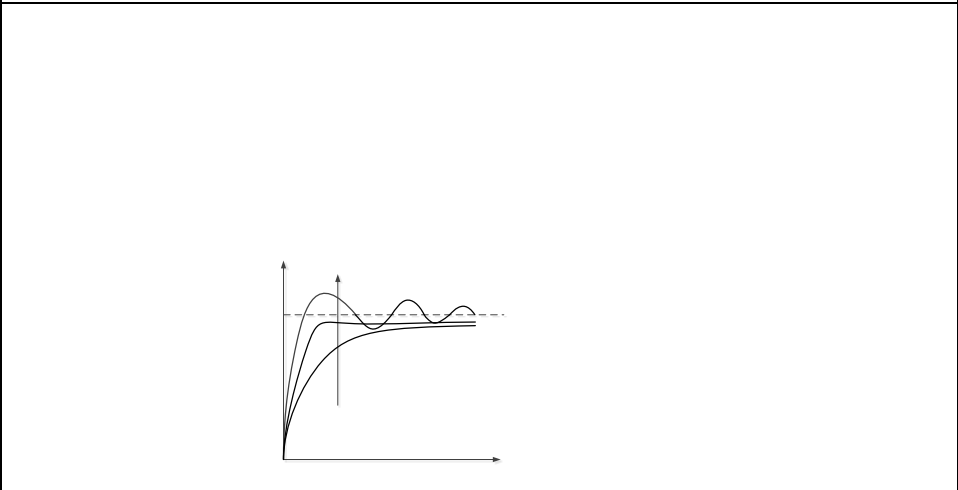
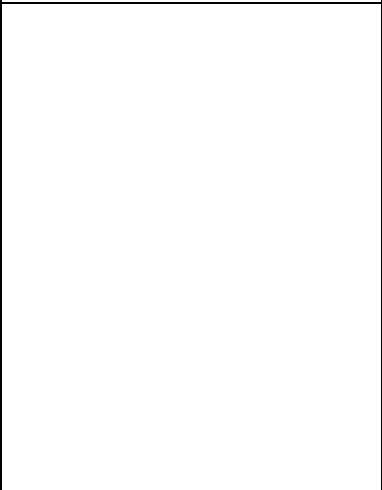
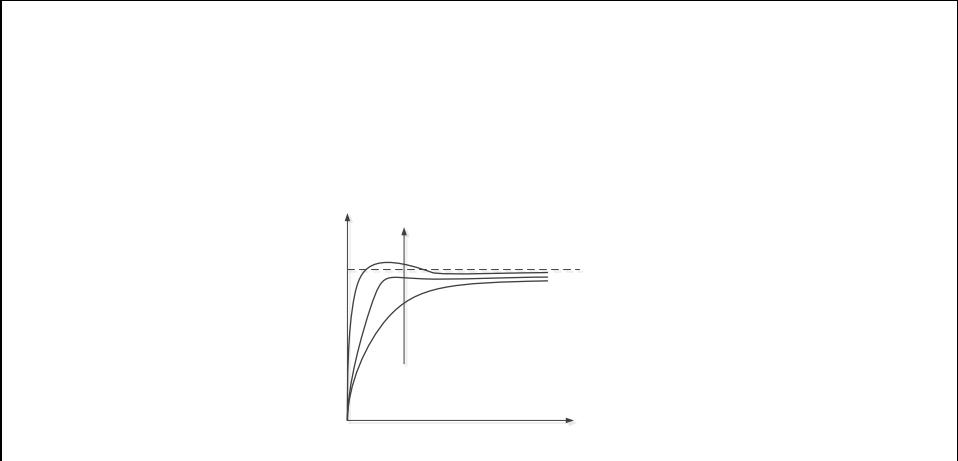
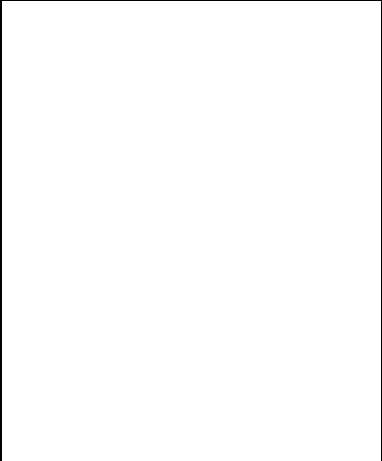
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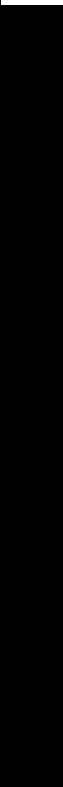
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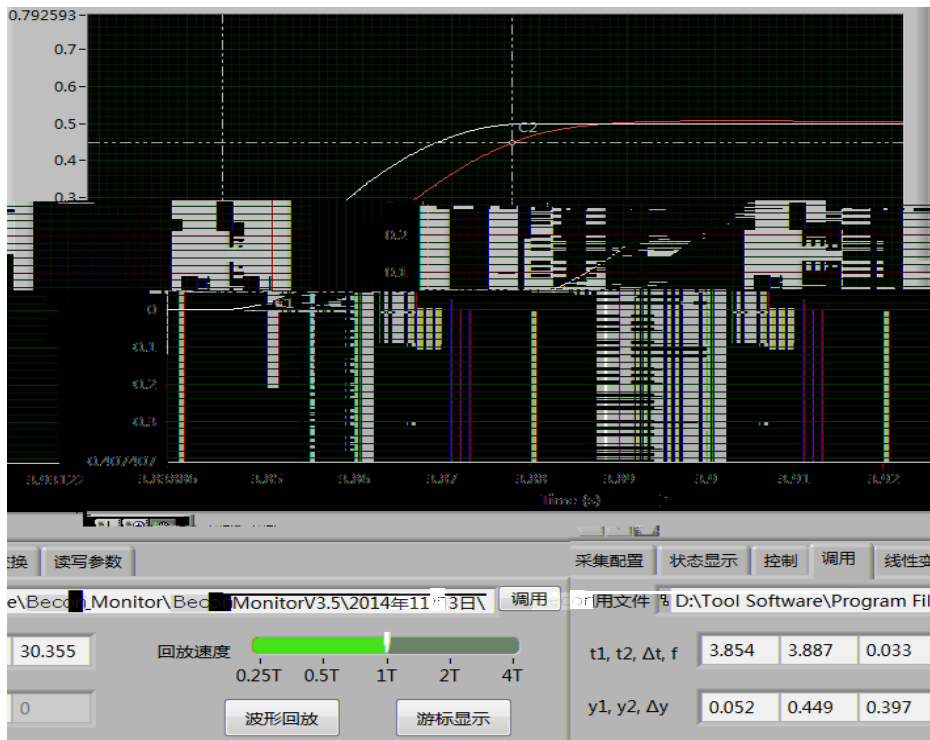
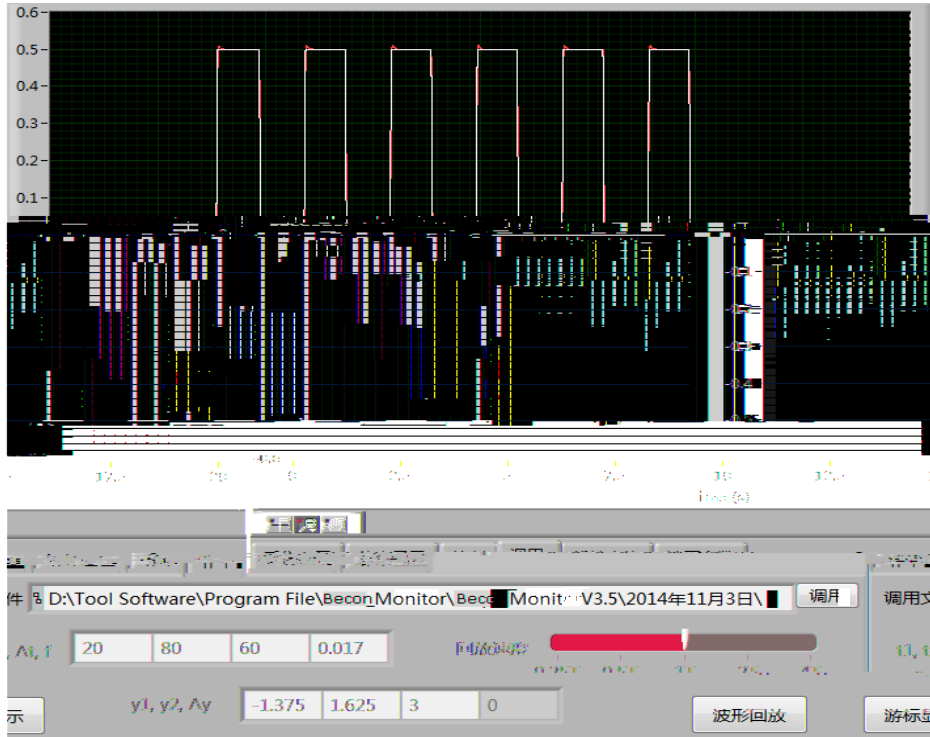
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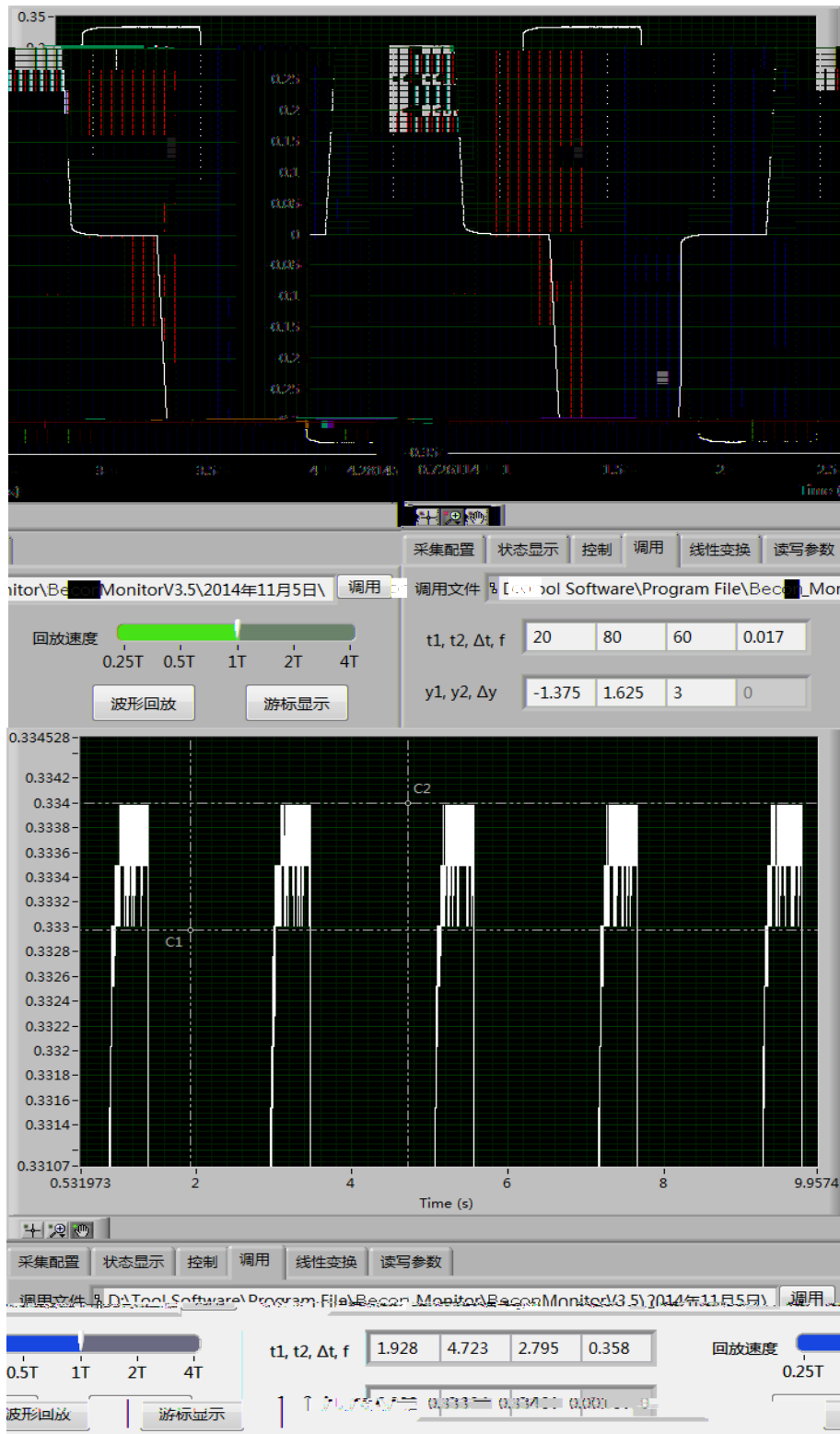
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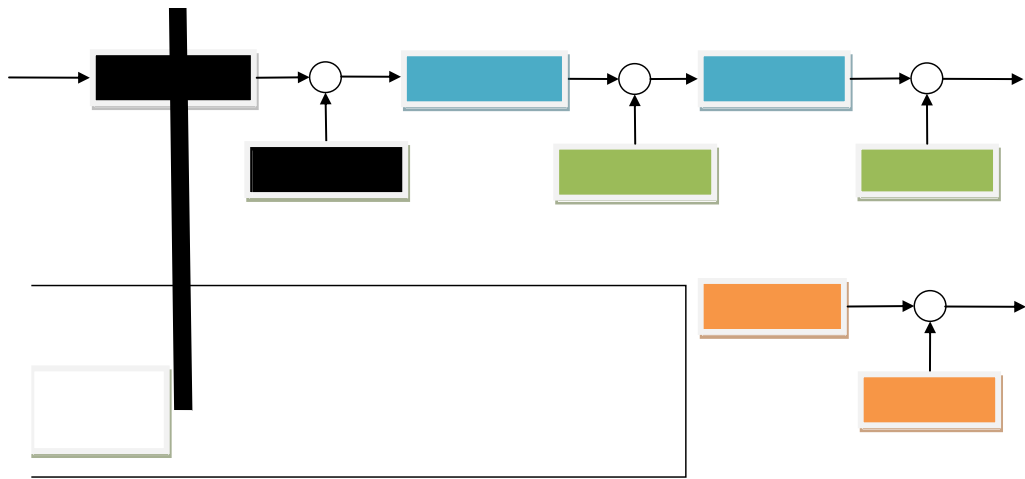
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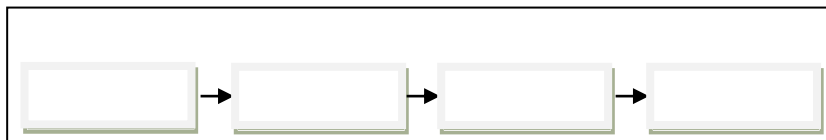
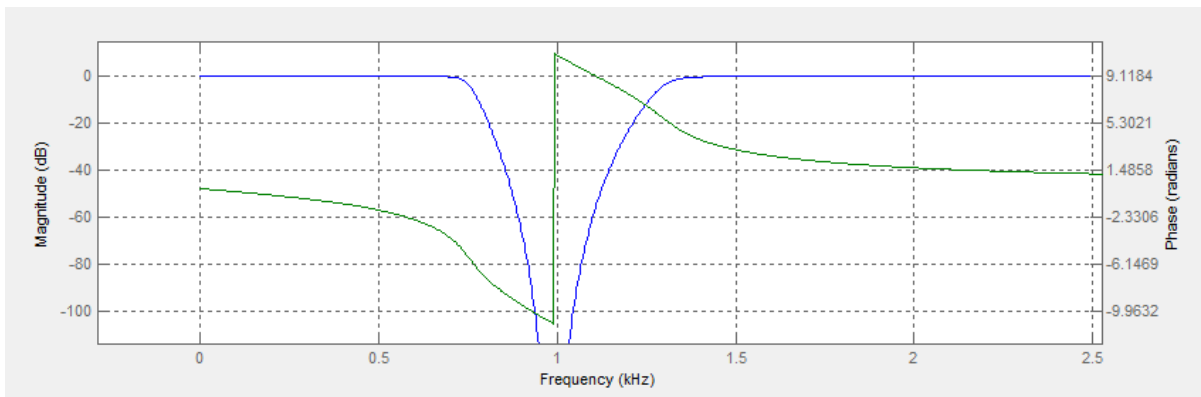
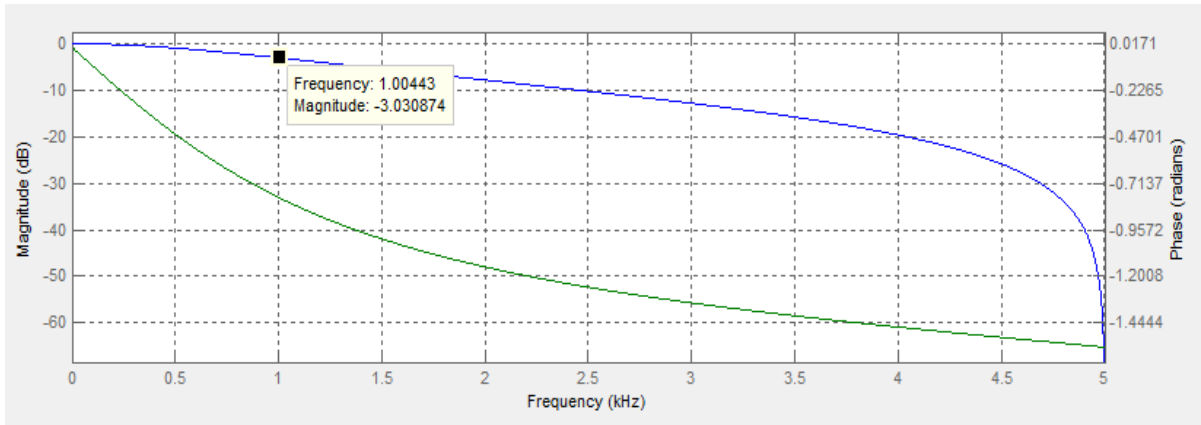
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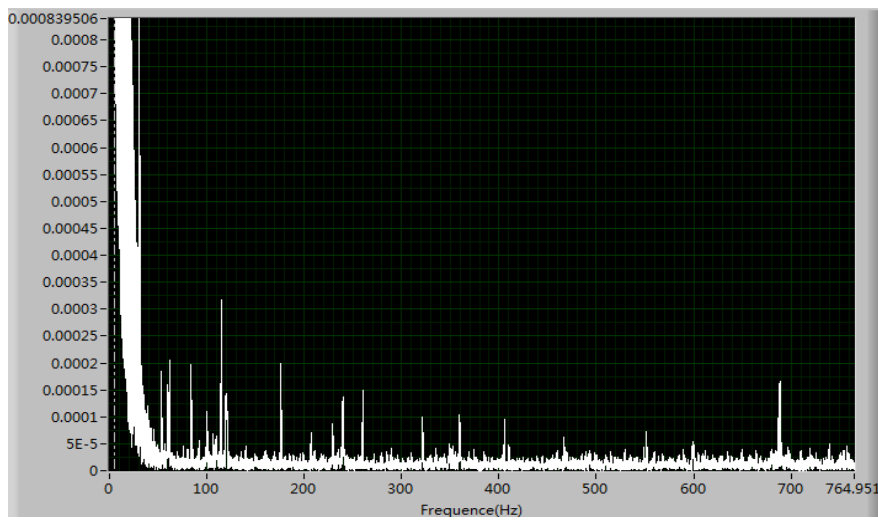
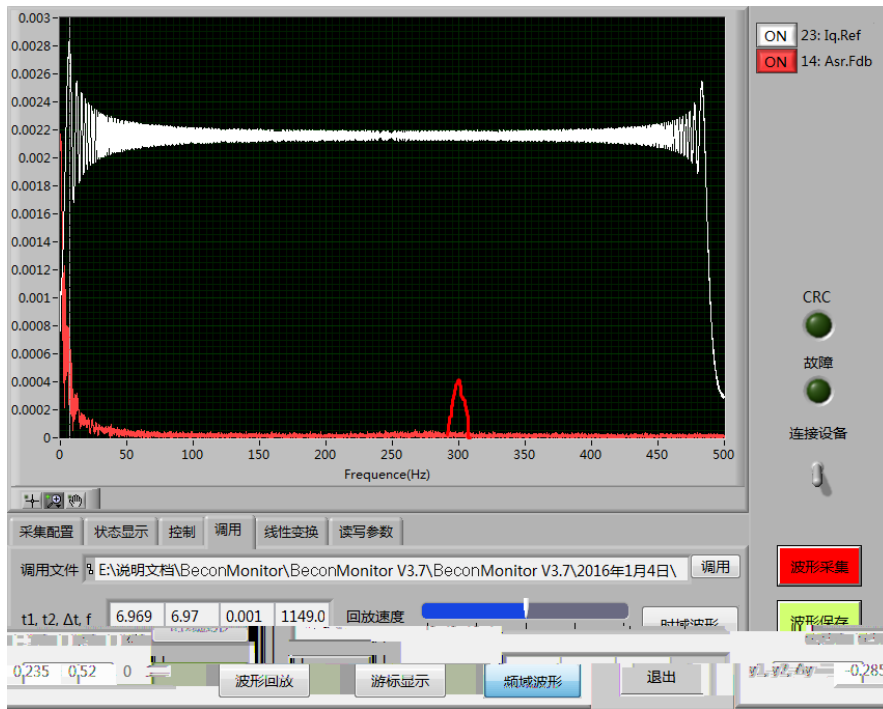


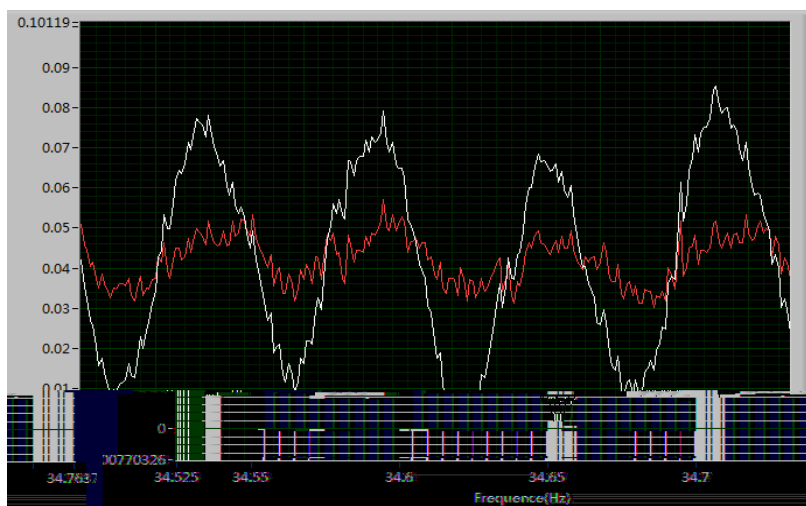












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	PowerLink
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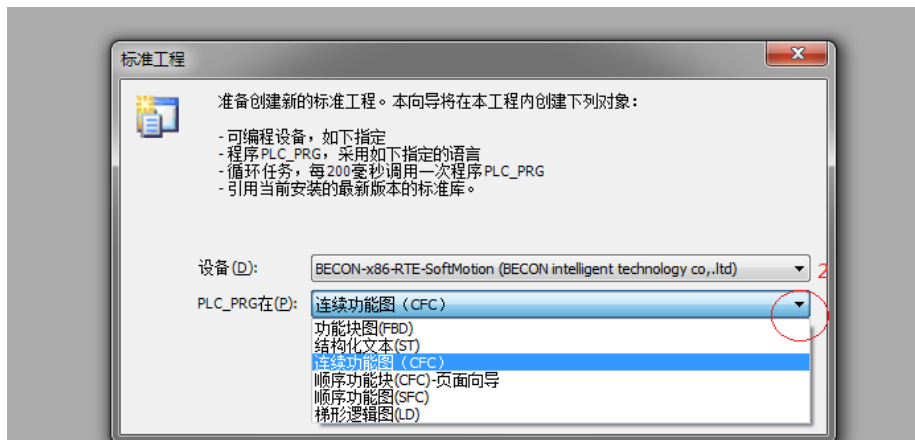
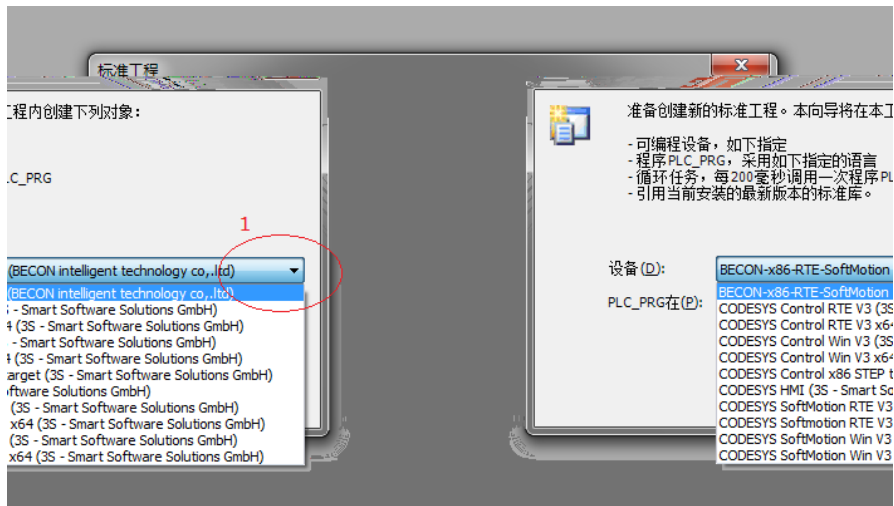
11.1 Q3

STEP 1: The first step is to identify the variables in the problem. In this case, the variables are the number of hours worked (h) and the number of units produced (q). The relationship between these two variables is given by the production function $q = 10h^{0.75}$.

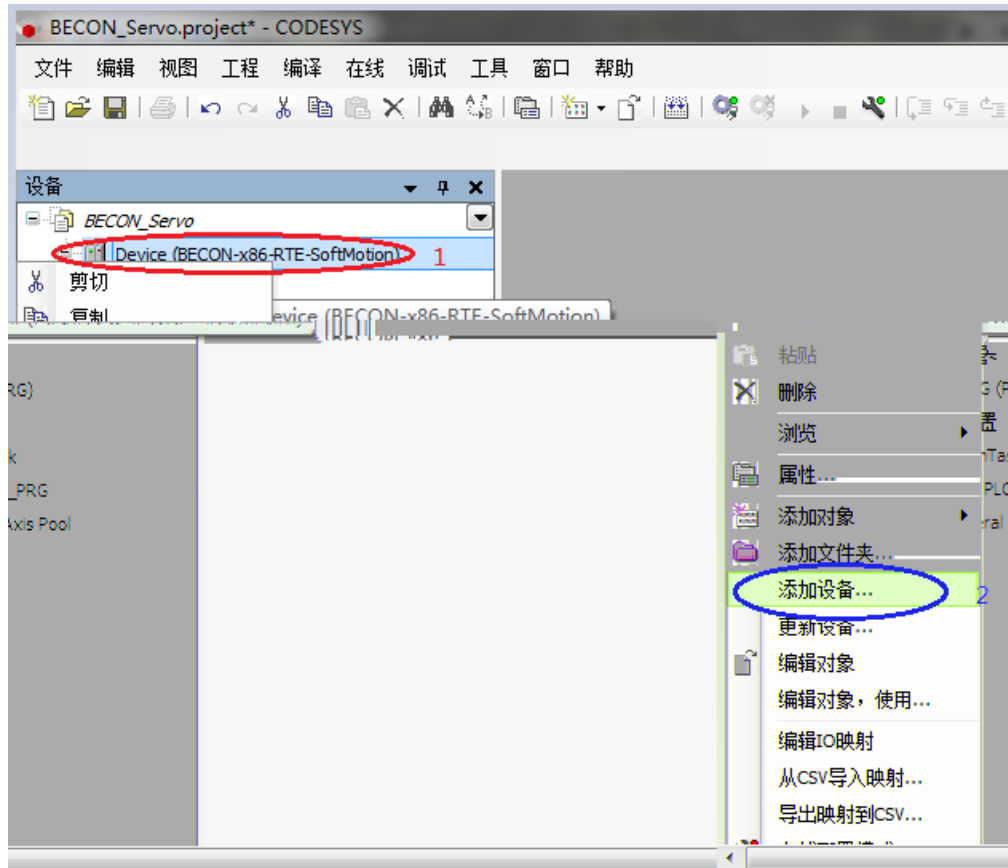
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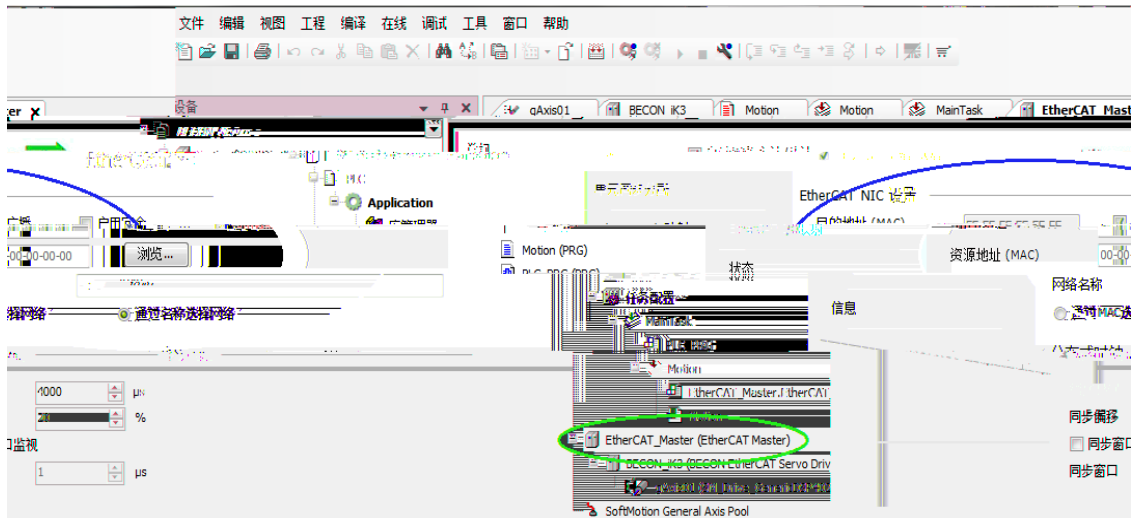
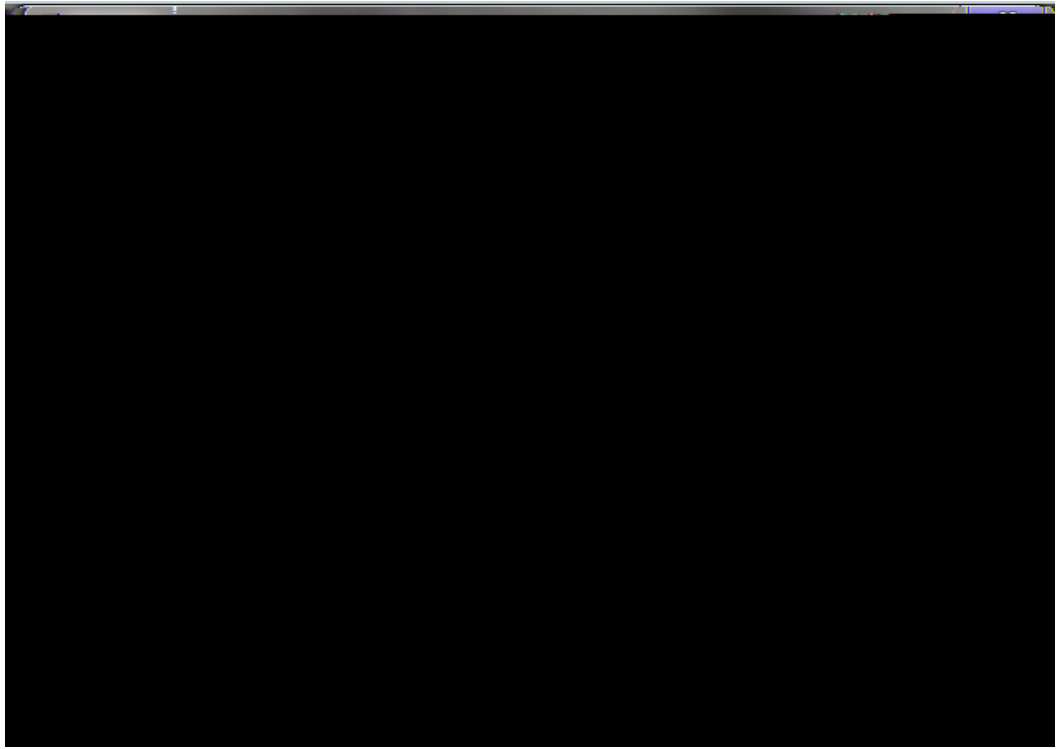
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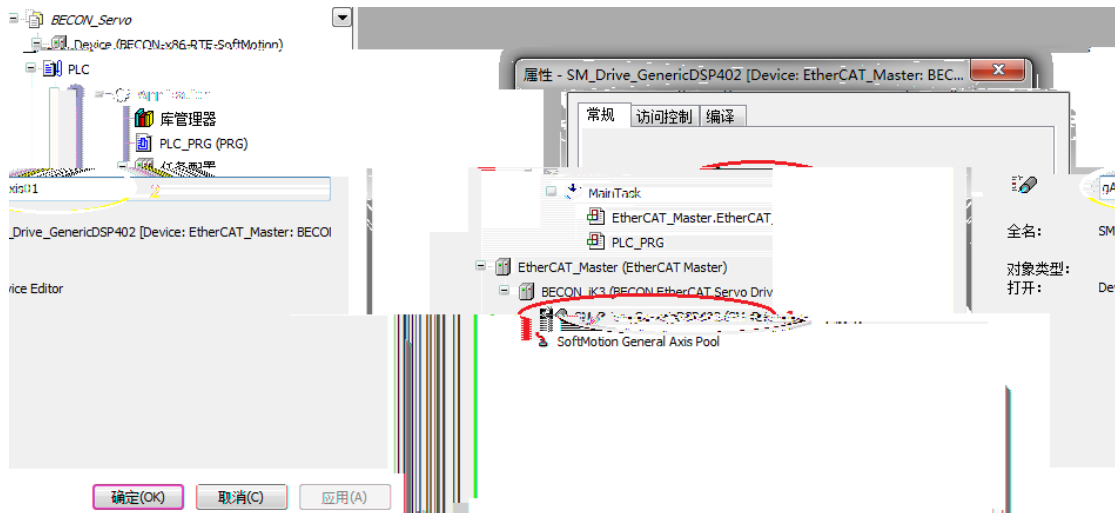
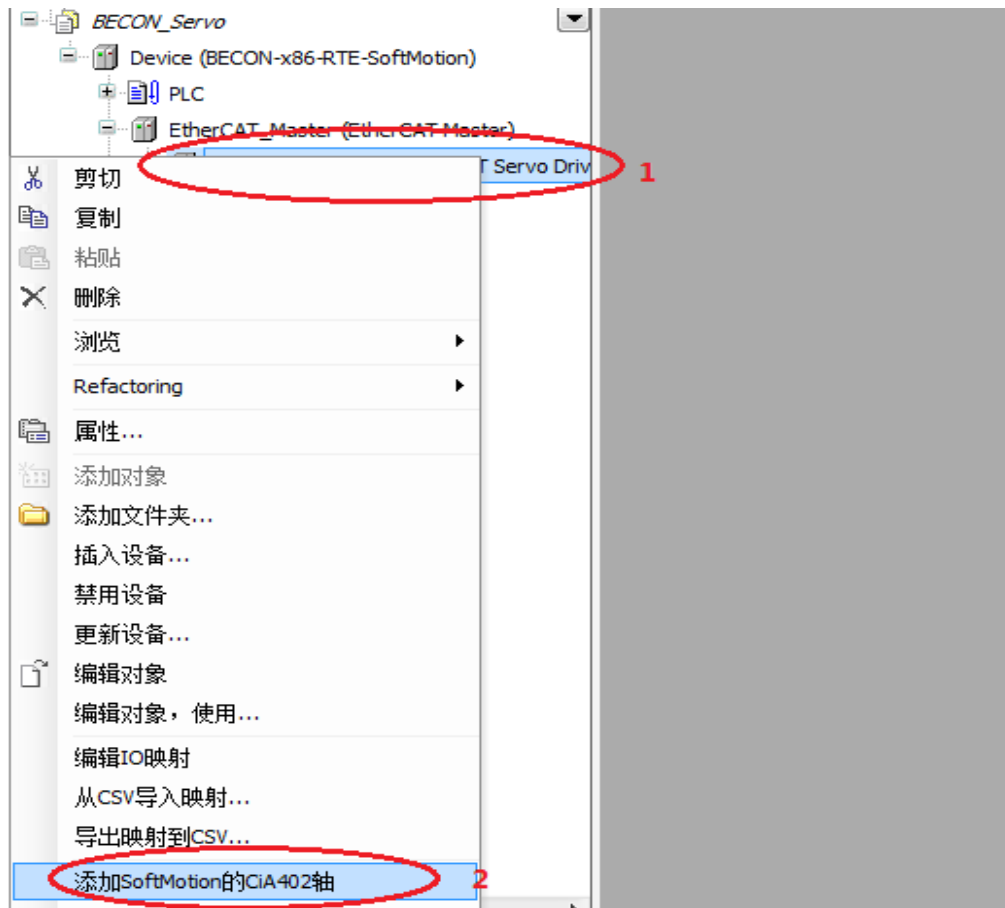
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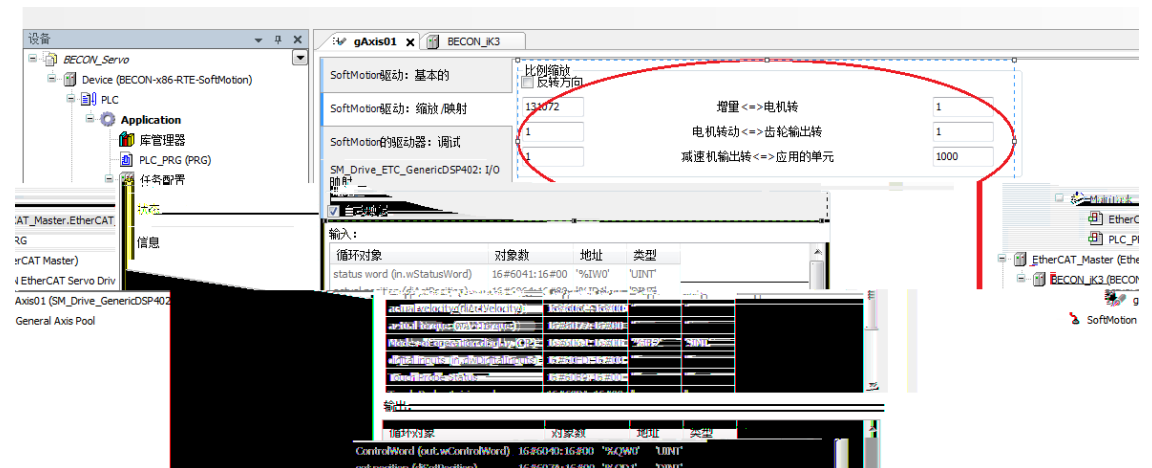
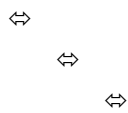
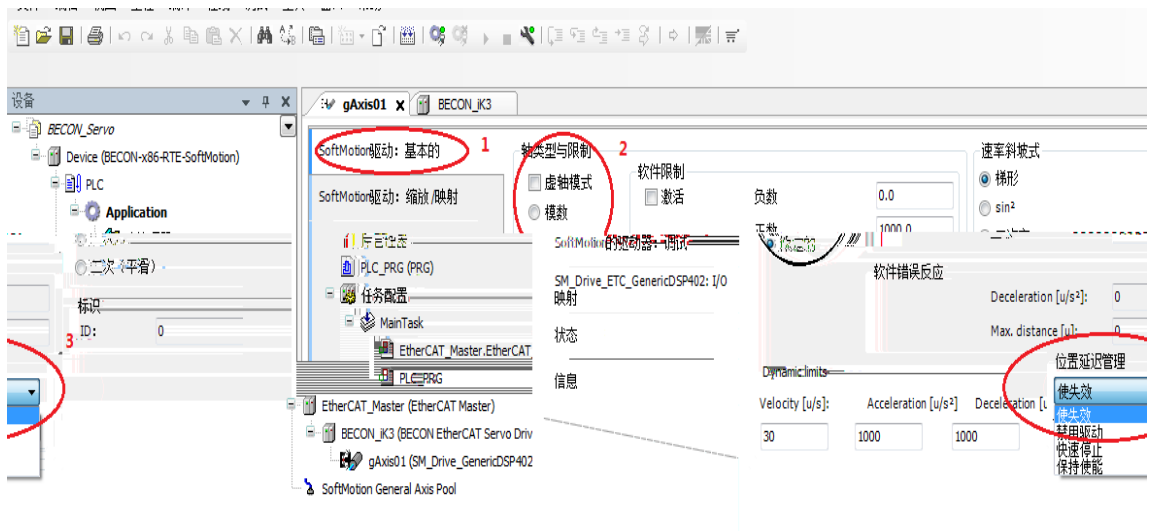


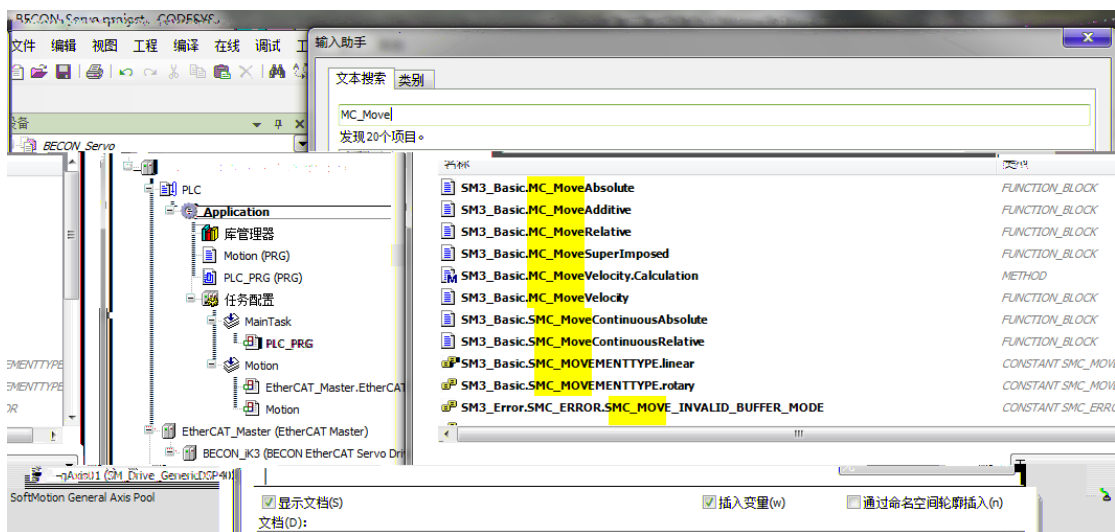
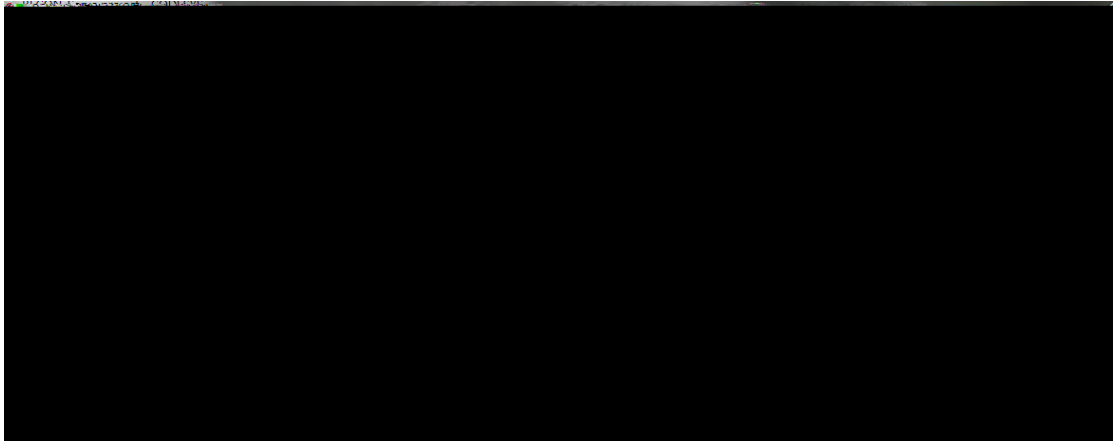
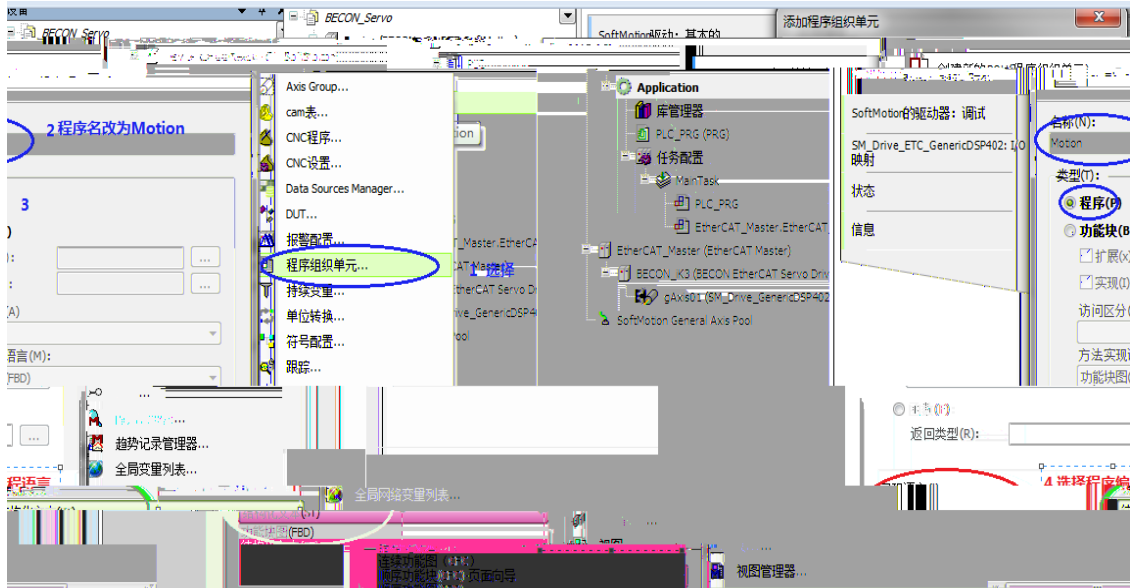
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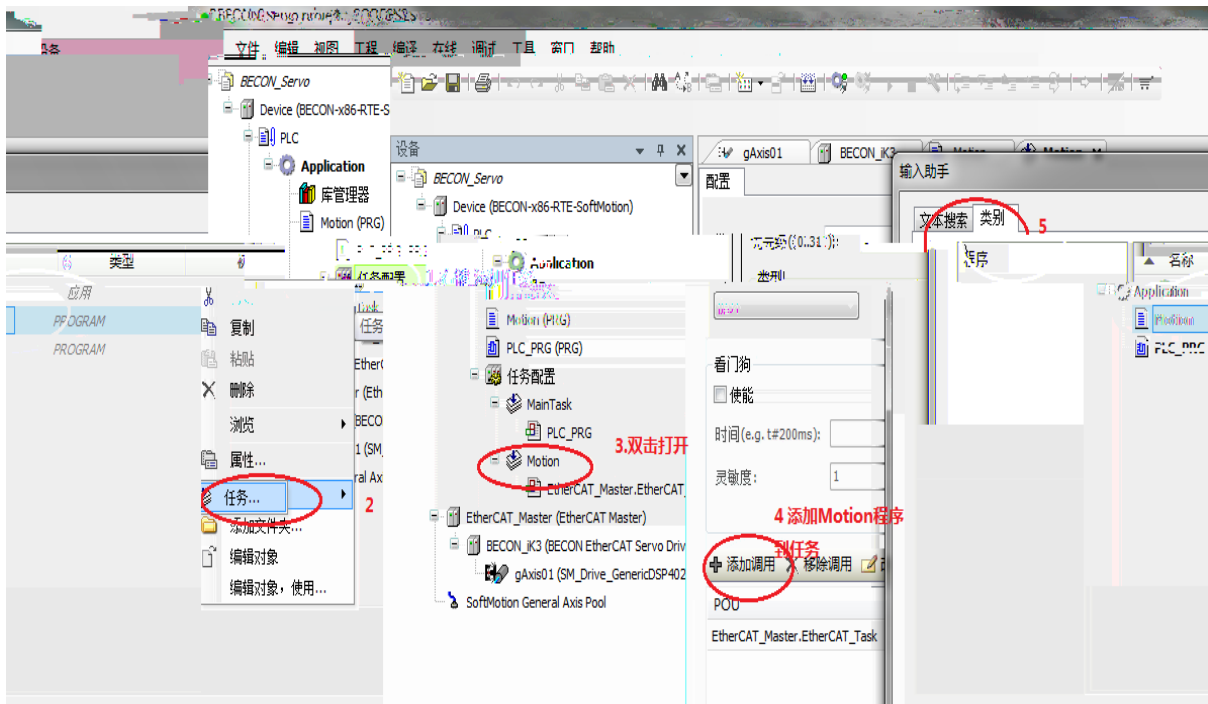


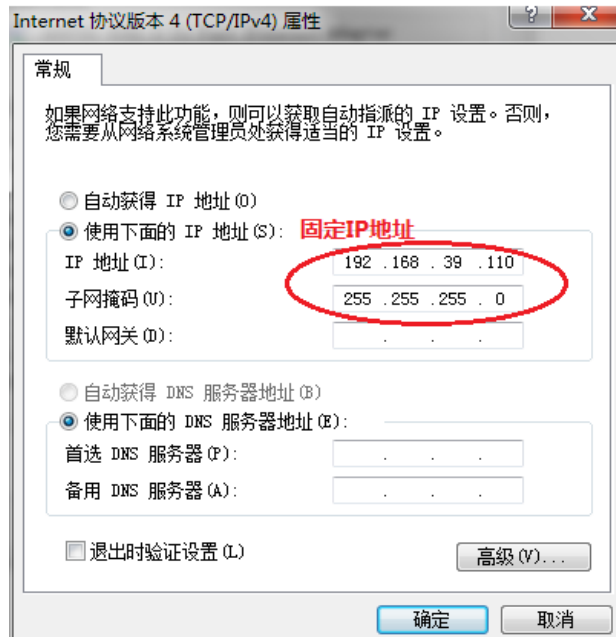
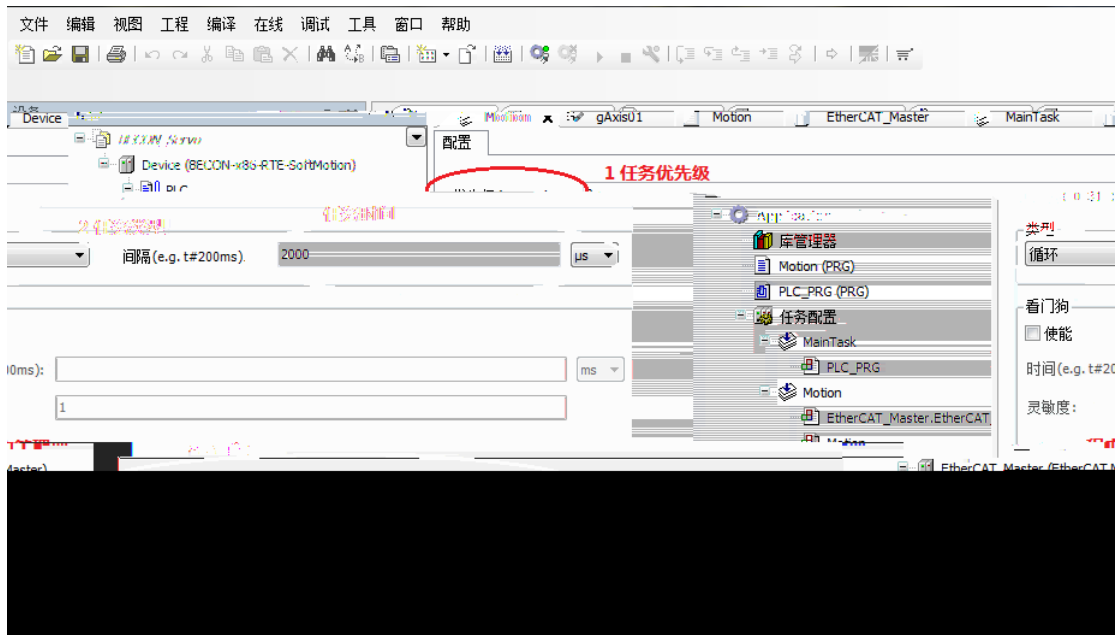
```

1 PROGRAM Motion_PRG
2 VAR
3   iStatus: INT:=0;
4   ...
5   ...
6   END_VAR
7
8 CASE iStatus OF
9   ...
10  ...
11  ...
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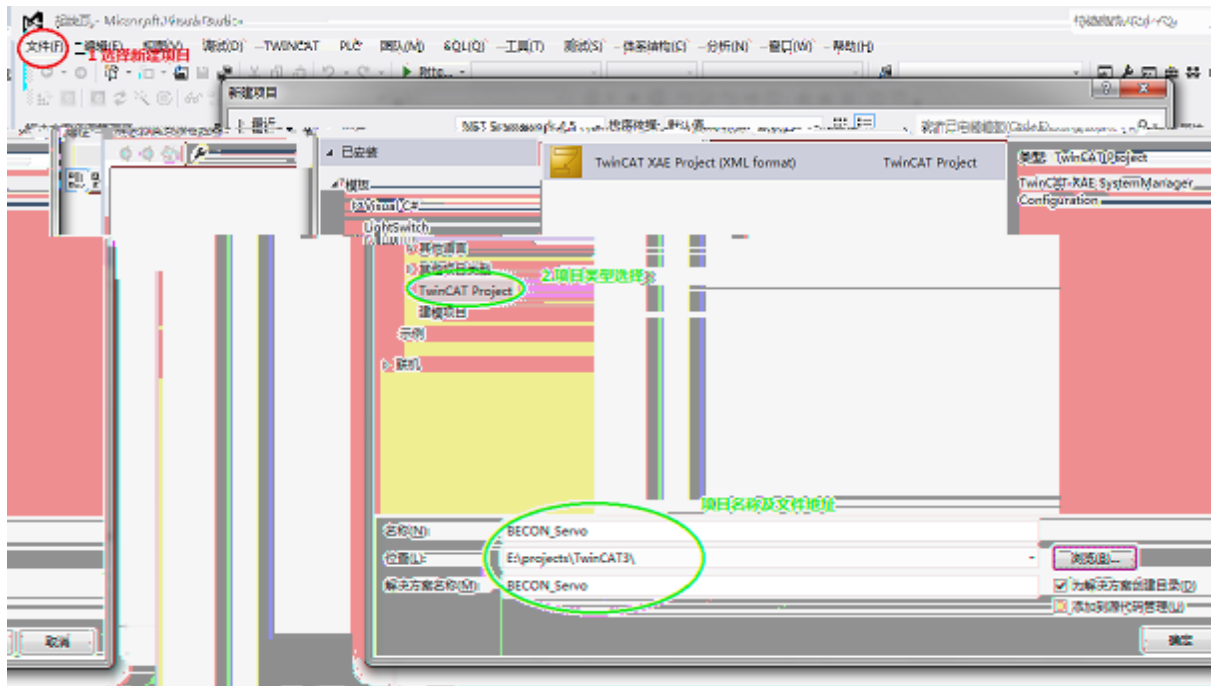
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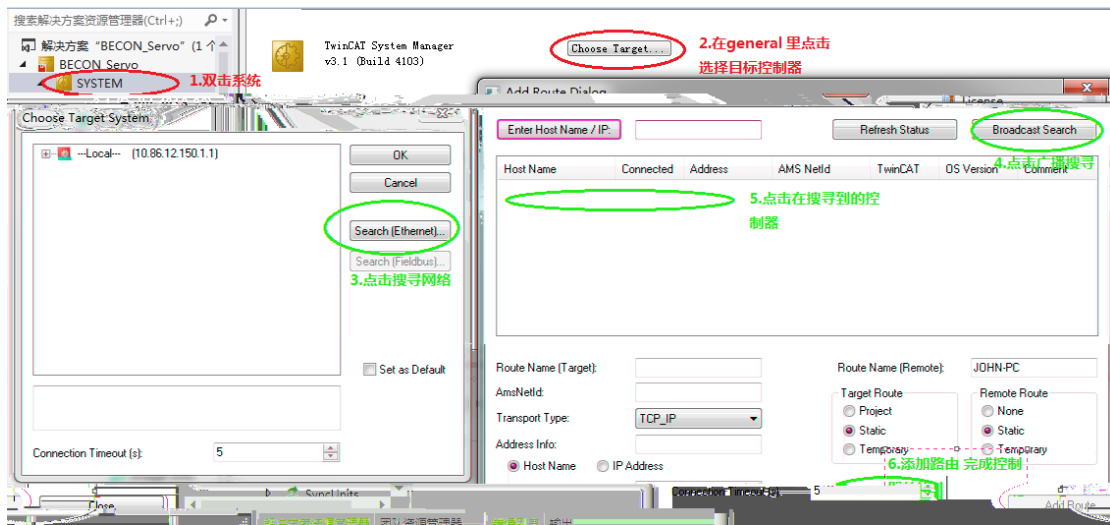
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11.2 Q3

TwinCAT3



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解决方案资源管理器

搜索解决方案资源管理器(Ctrl+)

解决方案 "BECON_Servo" (1 个项目)

- BECON_Servo
 - SYSTEM
 - MOTION
 - NC-Task 1 SAF
 - NC-Task 1 SVB
 - Image
 - Tables
 - Objects
 - Axis 1 (1.双击NC轴)
 - Enc
 - Drive
 - Ctrl
 - Inputs
 - Outputs

PLC

BECON_Servo

General Settings Parameter Dynamics Online Functions Coupling Compensation

Link To I/O... Drive 1 (BECON iR3) (连接到物理轴)

Link To PLC... (连接到PLC程序轴)

Axis Type: CANopen DS402/Profile MDP 742 (e.g. EtherCAT CoE Drive)

Unit: Degree (轴显示单位)

Display (Only)

Position: mDegree Modulo

Velocity: Degree/min

Result

Position: Degree Velocity: Degree/s Acceleration: Degree/s² Jerk: Degree/s³

Axis Cycle Time / Access Divider

Divider: 1 Cycle Time (ms): 2.000

Modulo: 0

General Settings Parameter Dynamics Online Functions Coupling Compensation

Velocities:			
Degree/s	Reference Velocity	18000.0	F
Degree/s	Maximum Velocity	16000.0	F
Degree/s	Manual Velocity (Fast)	600.0	F
Degree/s	Manual Velocity (Slow)	300.0	F
Degree/s	Calibration Velocity (towards plc cam)	1200.0	F
Degree/s	Calibration Velocity (off plc cam)	300.0	F
Degree	Jog Increment (Forward)	5.0	F
Degree	Jog Increment (Backward)	5.0	F

General	Settings	Parameter	Dynamics	Online	Functions	Coupling	Compensation
		Parameter		Value	Type	Unit	
		+ Velocities:					
		- Dynamics:					
		Acceleration		9000.0	F	Degree/s2	
		Deceleration		8000.0	F	Degree/s2	
		Jerk		2250.0	F	Degree/s3	
		Fast Axis Stop Signal Type (optional)		'OFF (defa...'	E		
		Fast Acceleration (optional)		0.0	F	Degree/s2	
		Fast Deceleration (optional)		0.0	F	Degree/s2	
		Fast Jerk (optional)		0.0	F	Degree/s3	

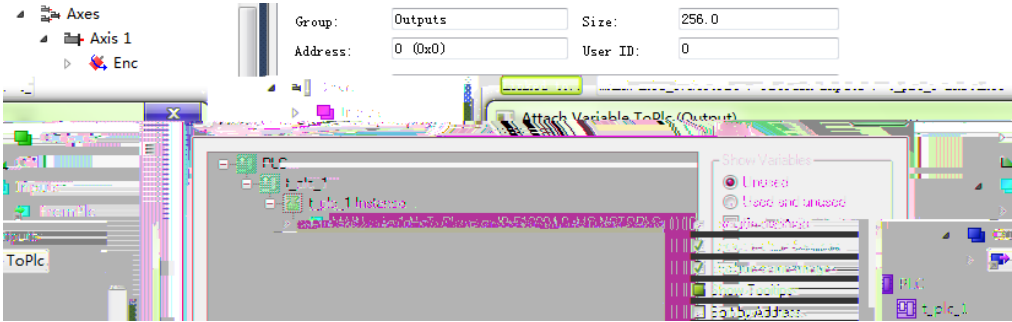
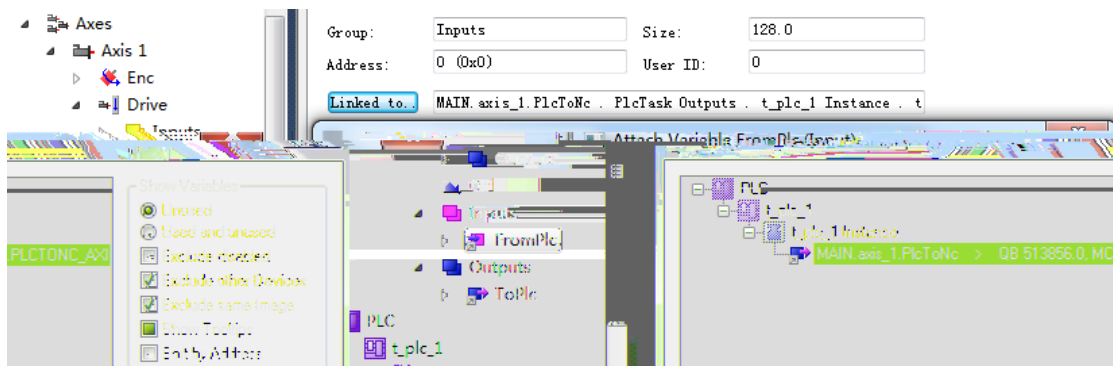
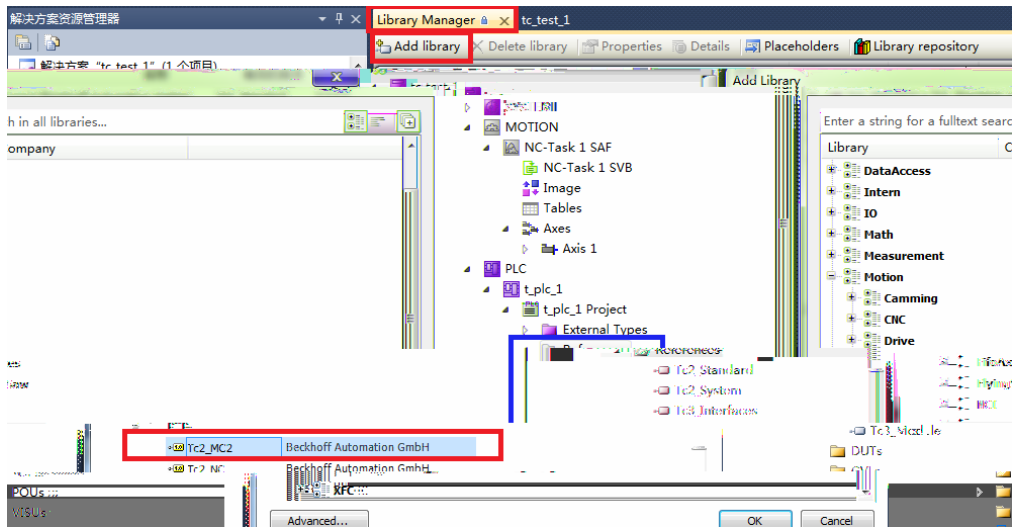
General	Settings	Parameter	Dynamics	Online	Functions	Coupling	Compensation
		Parameter		Value	Type	Unit	
		+ Dynamics:					
		+ Limit Switches:					
		- Monitoring:					
		Position Lag Monitoring		FALSE	B		
Degree		Maximum Position Lag Value		20.0	F		
s		Maximum Position Lag Filter Time		0.02	F		
		Position Range Monitoring		TRUE	B		
Degree		Position Range Window		5.0	F		
		Target Position Monitoring		TRUE	B		
Degree		Target Position Window		2.0	F		
s		Target Position Monitoring Time		0.02	F		
		In-Target Alarm		FALSE	B		
s		In-Target Timeout		5.0	F		
		Motion Monitoring		FALSE	B		
Degree		Motion Monitoring Window		0.1	F		
s		Motion Monitoring Time		0.5	F		

General			NC-Encoder	Parameter	Time Compensation	Online
Encoder Evaluation:						
					Invert Encoder Counting Direction	FALSE
74658203125	F	Degree/INC			Scaling Factor	0.0027
	F	Degree			Position Bias	0.0
	F	Degree			Modulo Factor (e.g. 360.0°)	360.0
	F	Degree			Tolerance Window for Modulo Start	0.0
FFFF	D				Encoder Mask (maximum encoder value)	0xFFFF
01FFF	D				Encoder Sub Mask (absolute range maximum value)	0x0001
EMENTAL'	E				Reference System	'INCR

$$GM_{max} = 2^{Singleturn\ Bits + Multiturn\ Bits} - 1$$

$$GM_{ST} = 2^{Singleturn\ Bits} - 1$$

General		NC-Controller	Parameter	Online
	Parameter	V...	Ty...	Unit
+	Monitoring:			
-	Position Control Loop:			
	Position control: Proportional Factor Kv	1.0	F	Degree/s/Degree
	Feedforward Velocity: Pre-Control Weighting [0.0 ... 1.0]	1.0	F	




```

1 PROGRAM POU
2 VAR
3   MC_Power_0: MC_Power;
4   gAxis_1: Axis_REF;
5   MC_MoveRelative_0: MC_MoveRelative;
6   MC_MoveRelative_1: MC_MoveRelative;
7 END_VAR

```

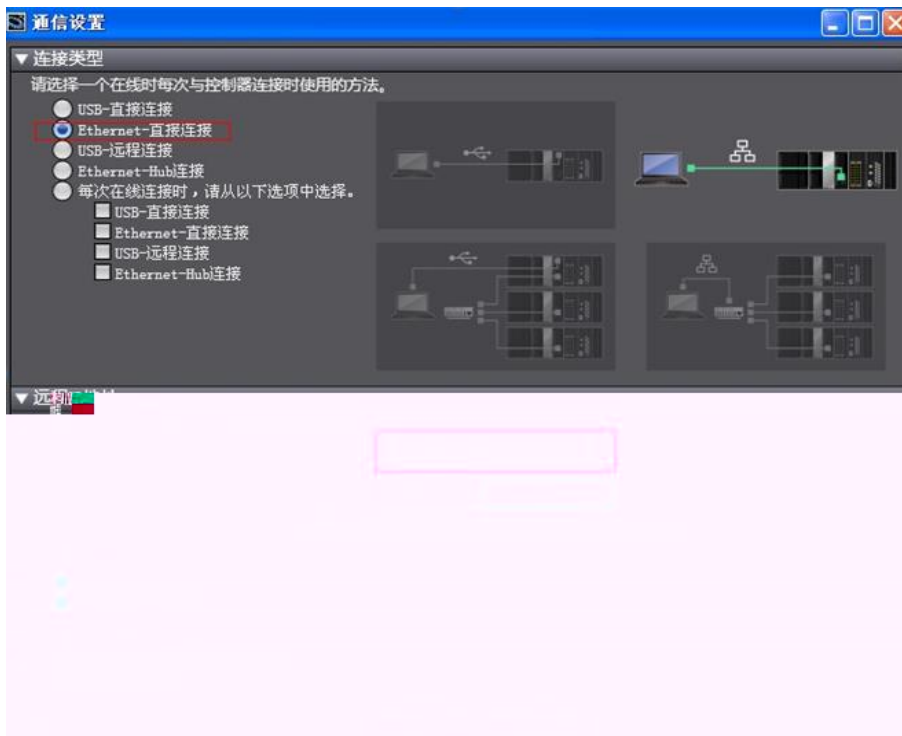
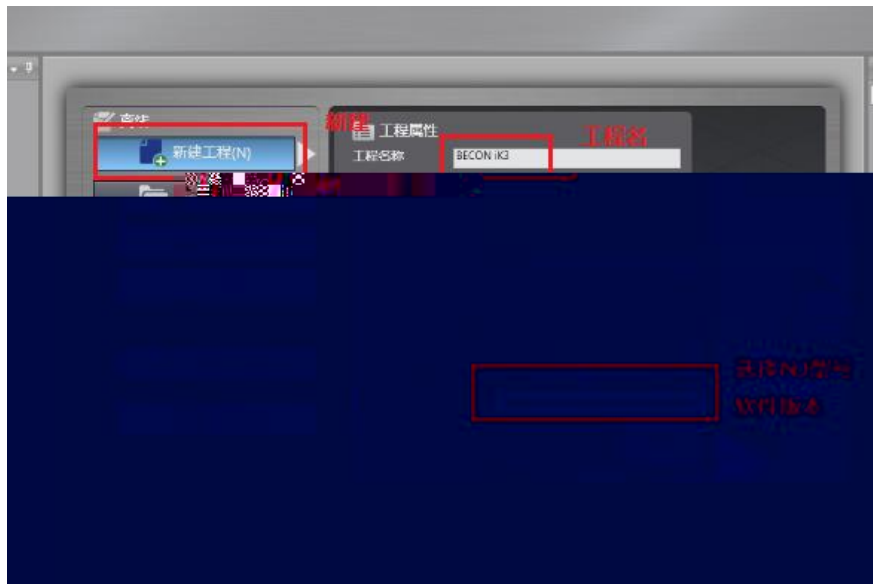
The screenshot displays a PLC program with the following components:

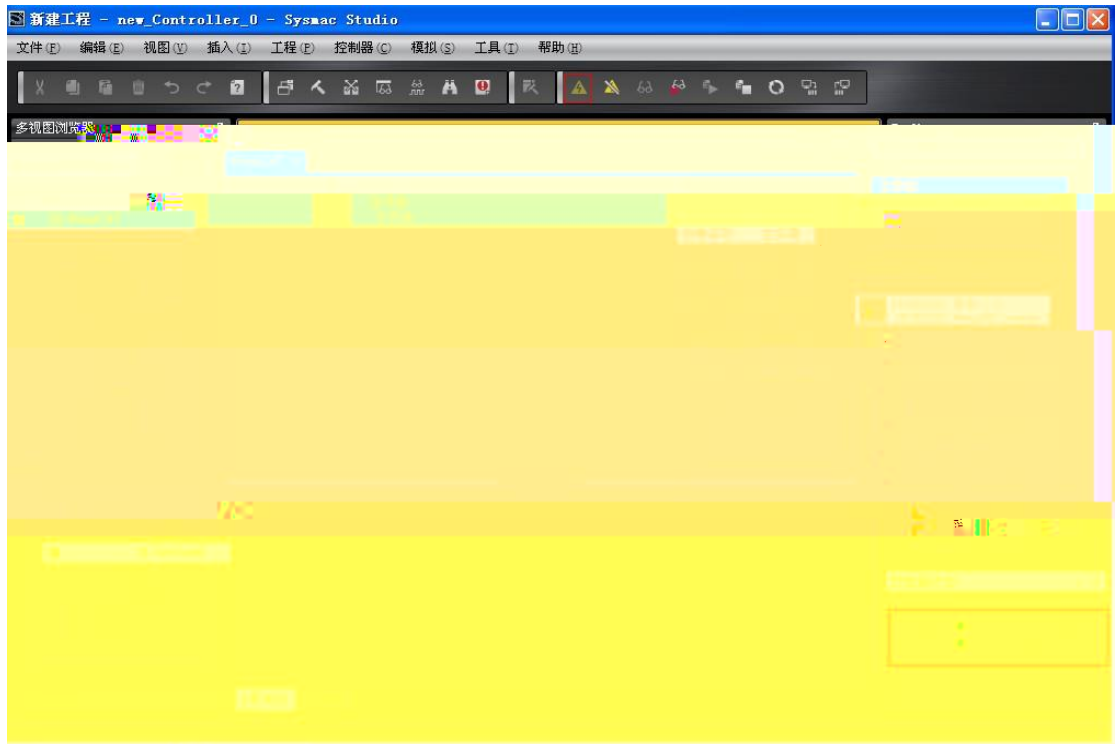
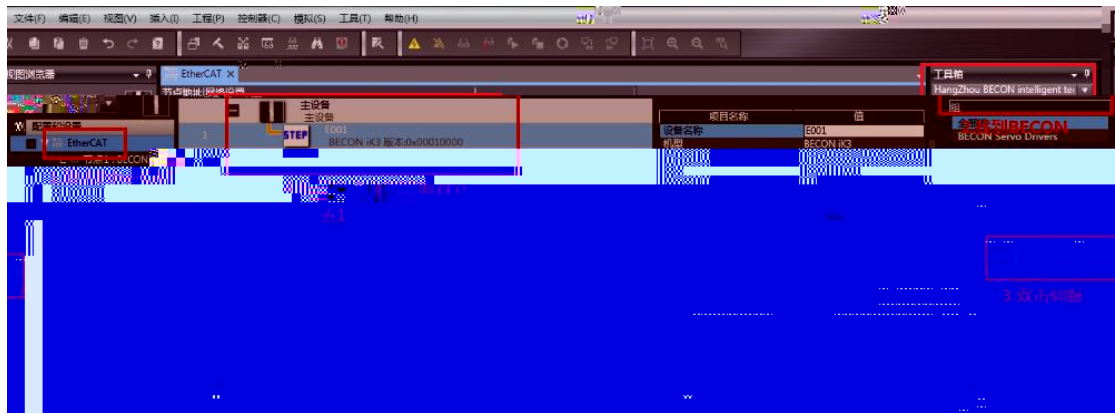
- Variable Declaration:**
 - MC_Power_0: MC_Power;
 - gAxis_1: Axis_REF;
 - MC_MoveRelative_0: MC_MoveRelative;
 - MC_MoveRelative_1: MC_MoveRelative;
- Ladder Logic:**
 - A network with a normally open contact labeled 'gAxis_1' (value 1) connected to the 'Enable' input of the 'MC_Power' coil.
 - Another network with a normally open contact labeled 'gAxis_1' (value 1) connected to the 'Enable_Positive' input of the 'MC_Power' coil.
 - A third network with a normally open contact labeled 'gAxis_1' (value 1) connected to the 'Enable_Negative' input of the 'MC_Power' coil.
 - The 'MC_Power' coil is connected to the 'Execute' input of the 'MC_MoveRelative' coil.
 - The 'MC_MoveRelative' coil is connected to the 'Execute' input of another 'MC_MoveRelative' coil.
 - The second 'MC_MoveRelative' coil has a 'Distance' input set to 10000 and a 'Velocity' input set to 1000.
 - The 'MC_MoveRelative' coil is also connected to the 'Active' input of another 'MC_MoveRelative' coil.
 - The third 'MC_MoveRelative' coil has a 'Distance' input set to -10000 and a 'Velocity' input set to 1000.

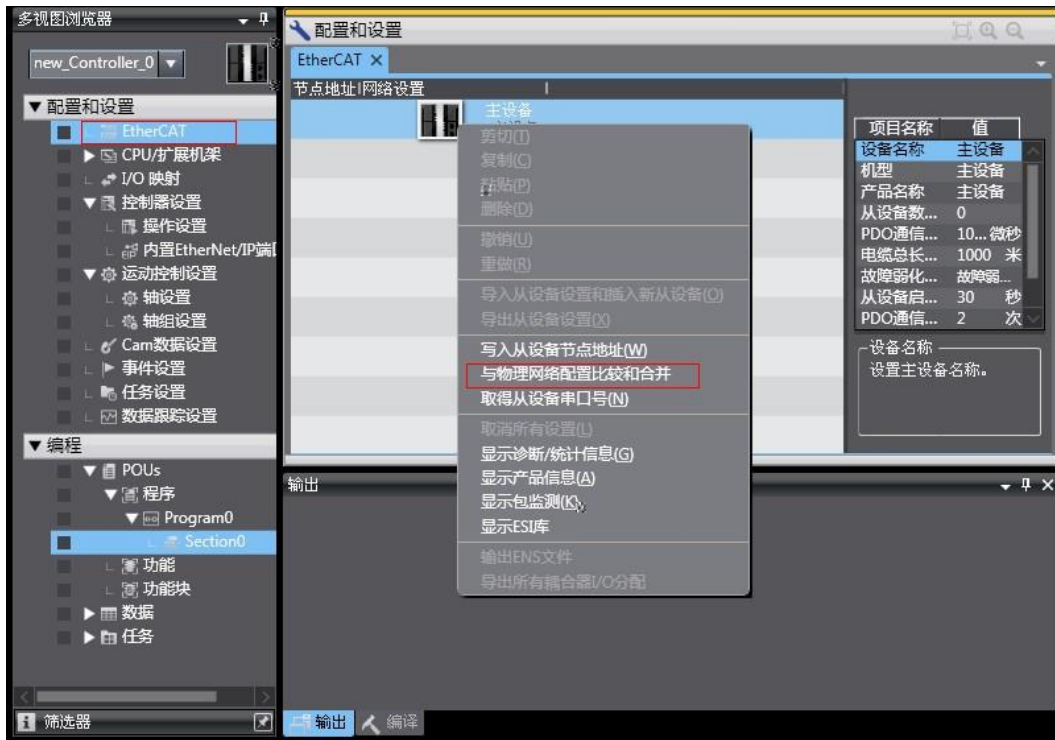
fi

The screenshot shows the 'Internet 协议 (TCP/IP) 属性' dialog box with the following configuration:

- 常规 (General) Tab:**
 - 如果网络支持此功能，则可以获取自动指派的 IP 设置。否则， (If the network supports this feature, you can obtain automatically assigned IP settings. Otherwise,)
 - 自动获得 IP 地址 (O) (Obtain an IP address automatically)
 - 使用下面的 IP 地址 (S) (Use the following IP address)
 - IP 地址 (I): 网卡地址 192 . 168 . 250 . 2 (Network card address: 192 . 168 . 250 . 2)
 - 子网掩码 (M): 255 . 255 . 255 . 0 (Subnet mask: 255 . 255 . 255 . 0)
 - 默认网关 (G): NJ控制器地址 192 . 168 . 250 . 1 (Default gateway: NJ controller address: 192 . 168 . 250 . 1)
 - 自动获得 DNS 服务器地址 (S) (Obtain DNS server address automatically)
 - 使用下面的 DNS 服务器地址 (S) (Use the following DNS server address)
 - 首选 DNS 服务器 (P): (Preferred DNS server)
 - 备用 DNS 服务器 (A): (Alternate DNS server)
- Buttons:** 高级 (A)... (Advanced...), 确定 (O) (OK), 取消 (C) (Cancel)



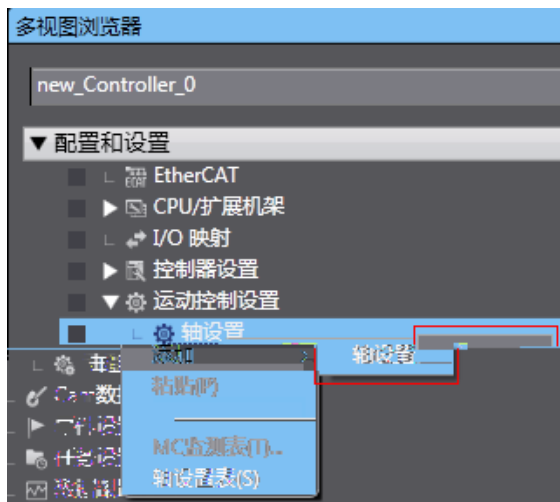
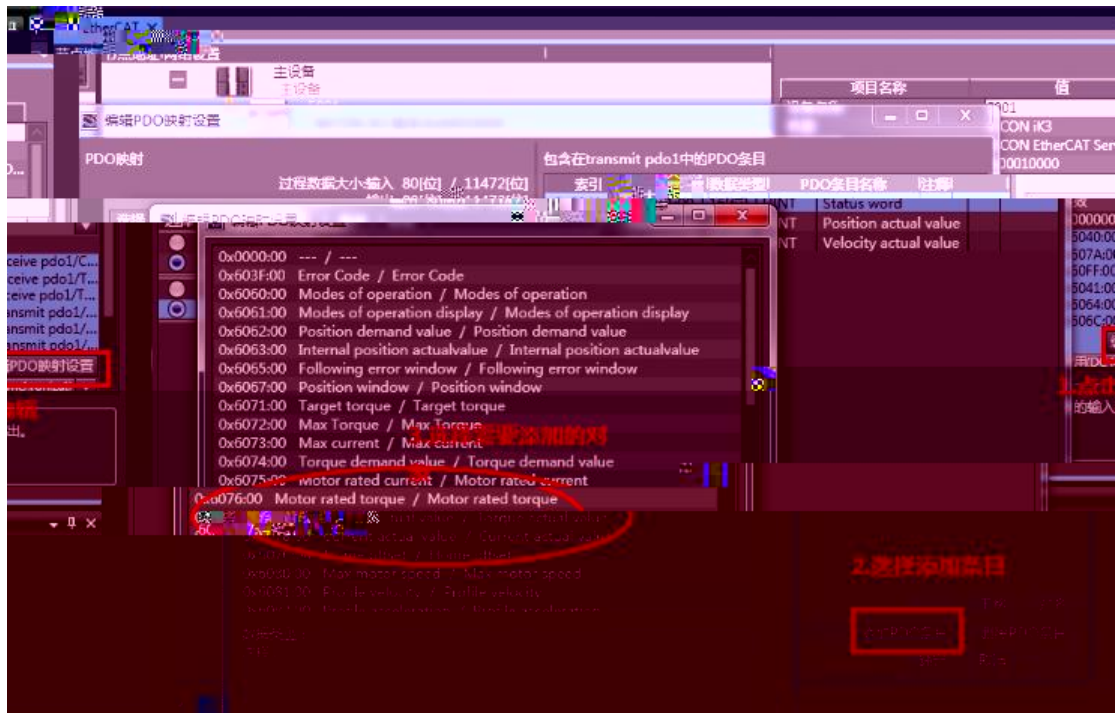


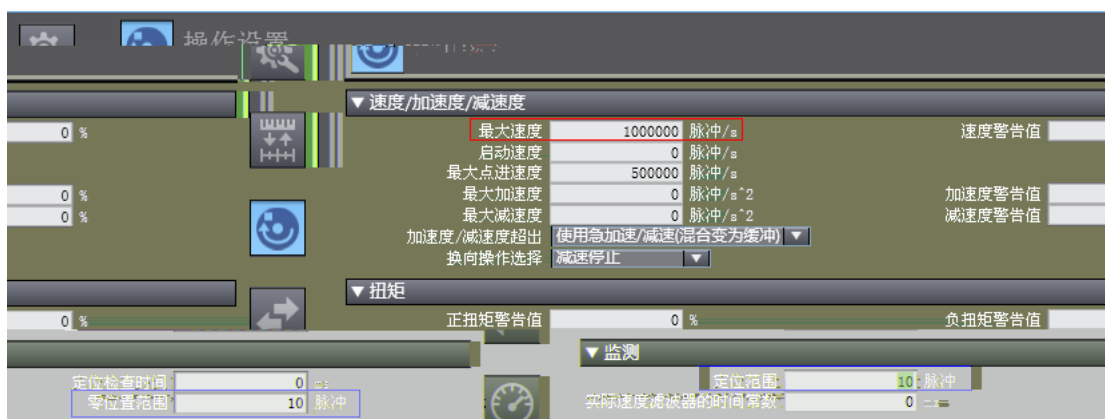
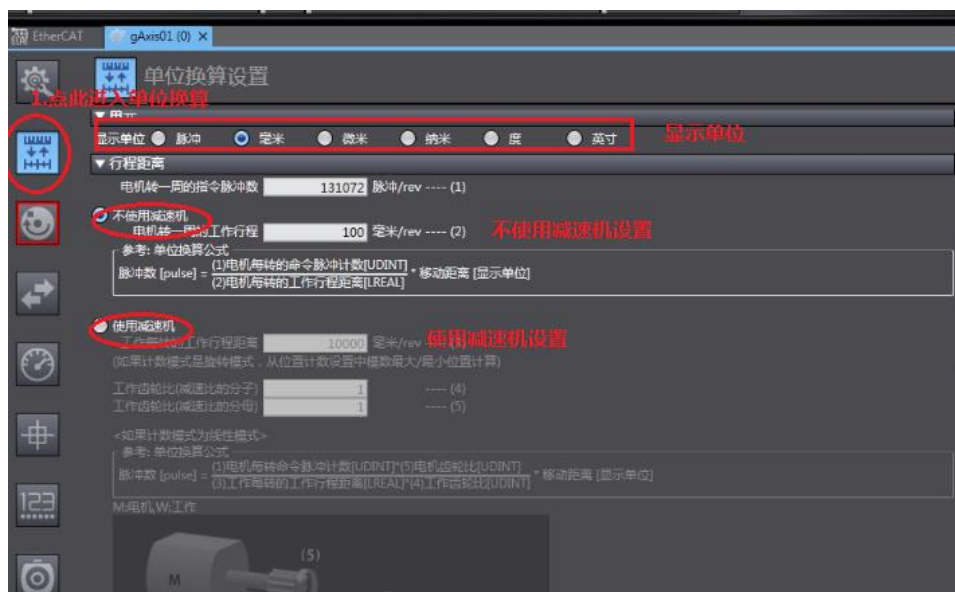


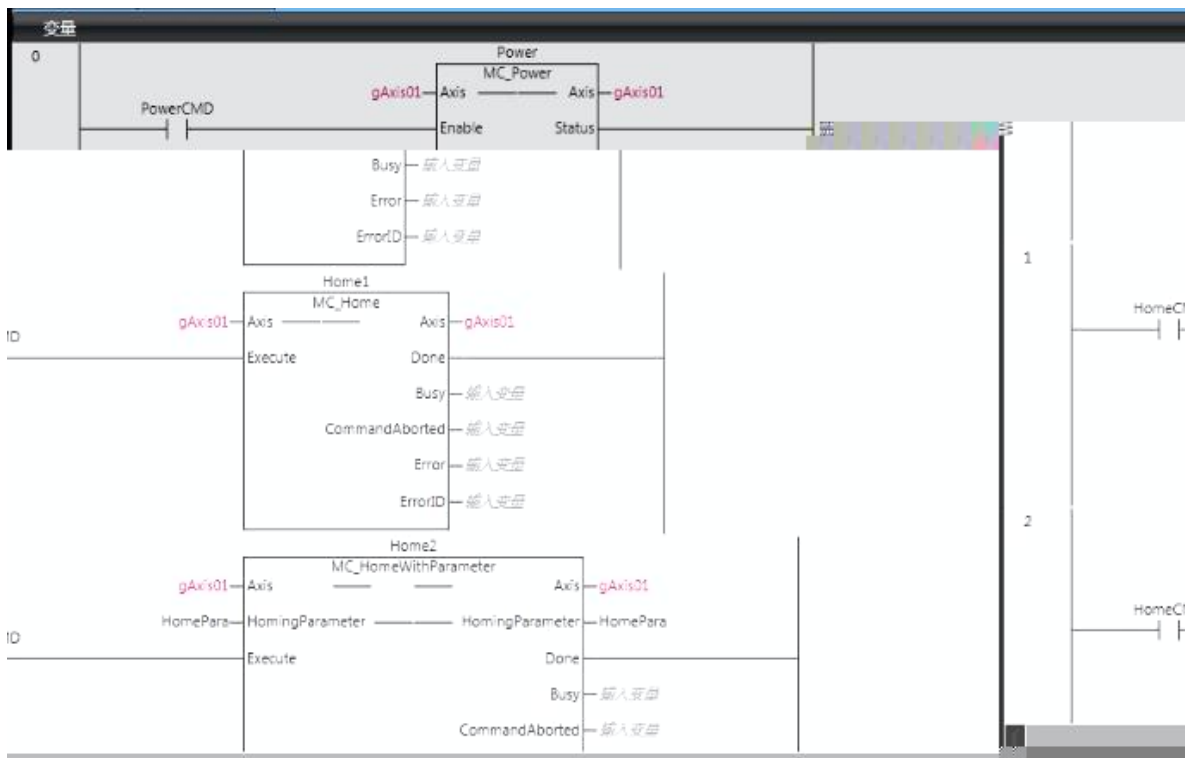
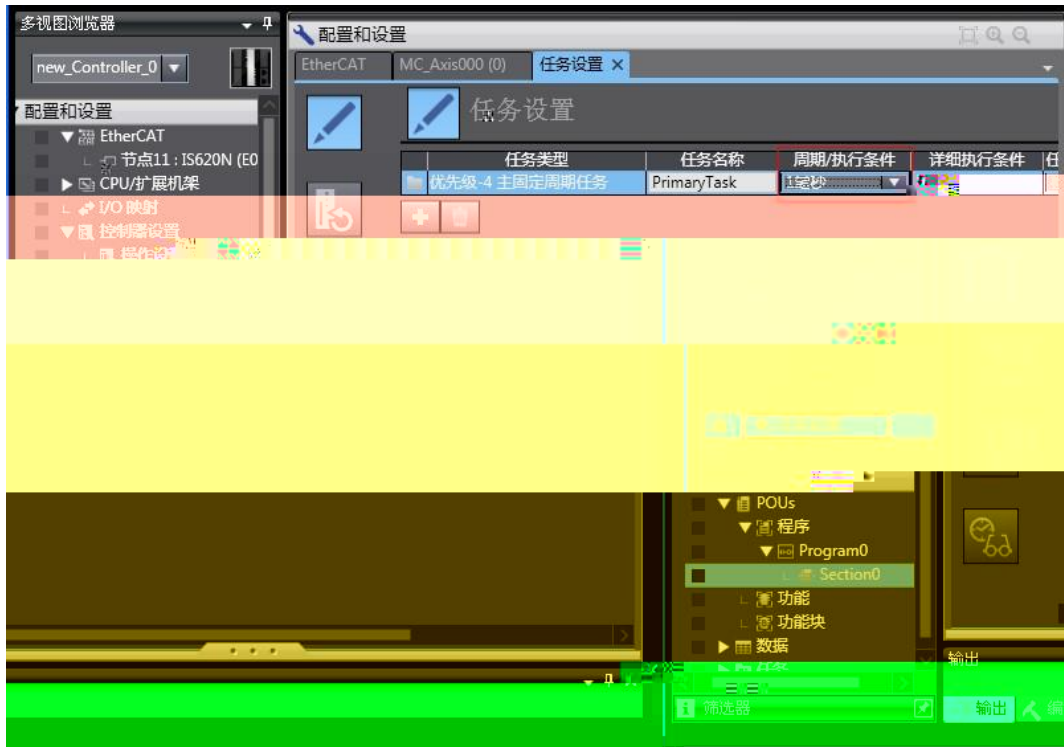
→

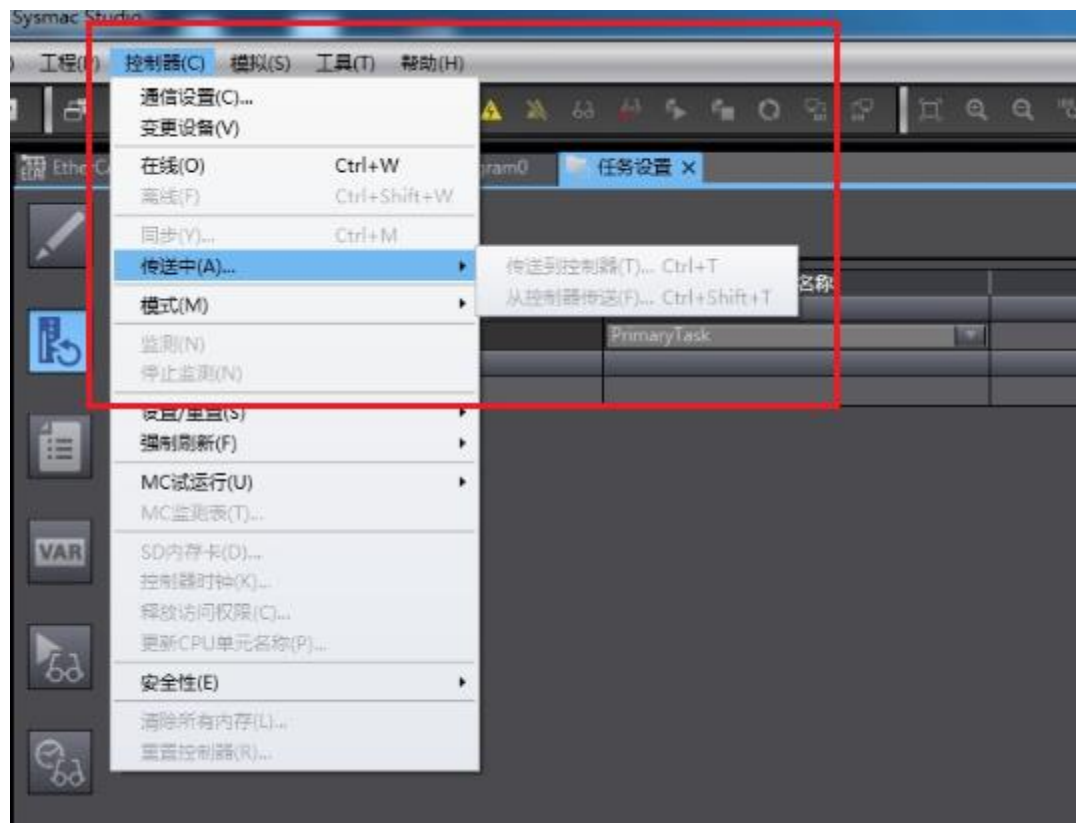
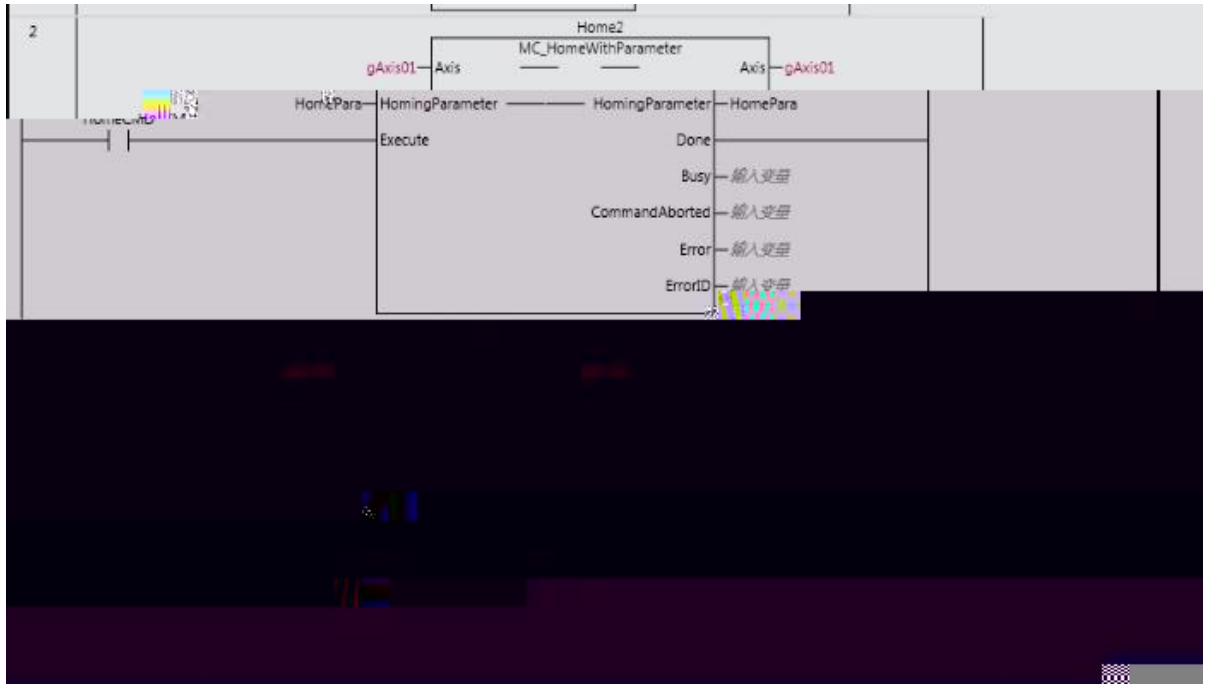
→

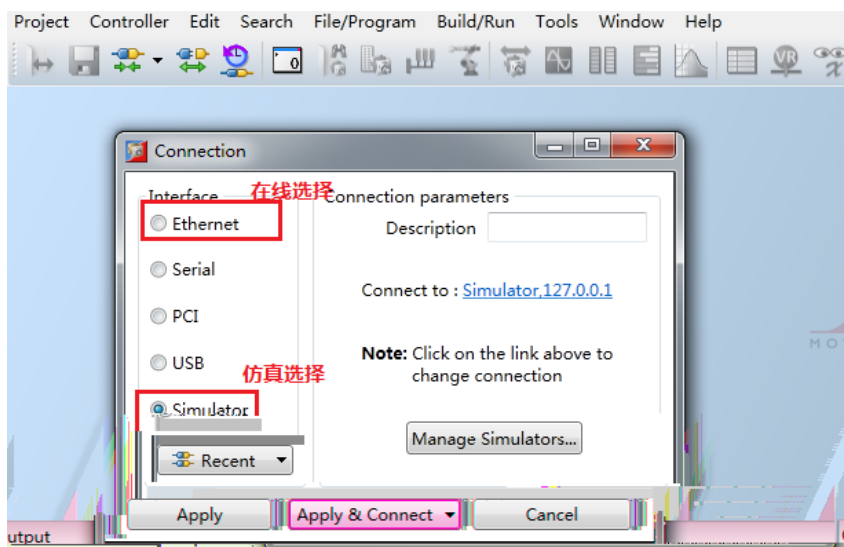
→

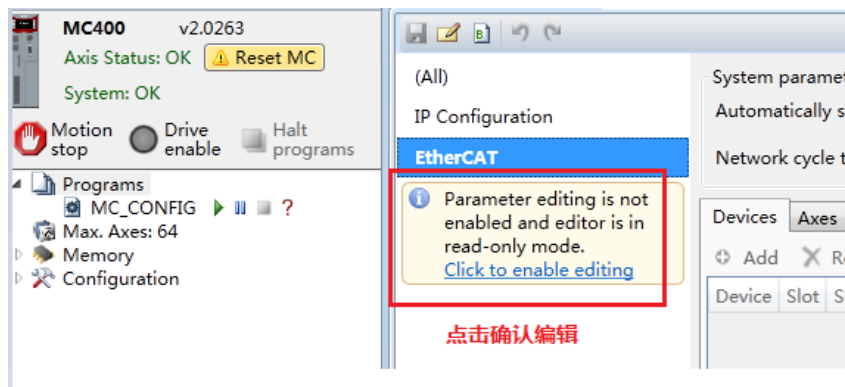
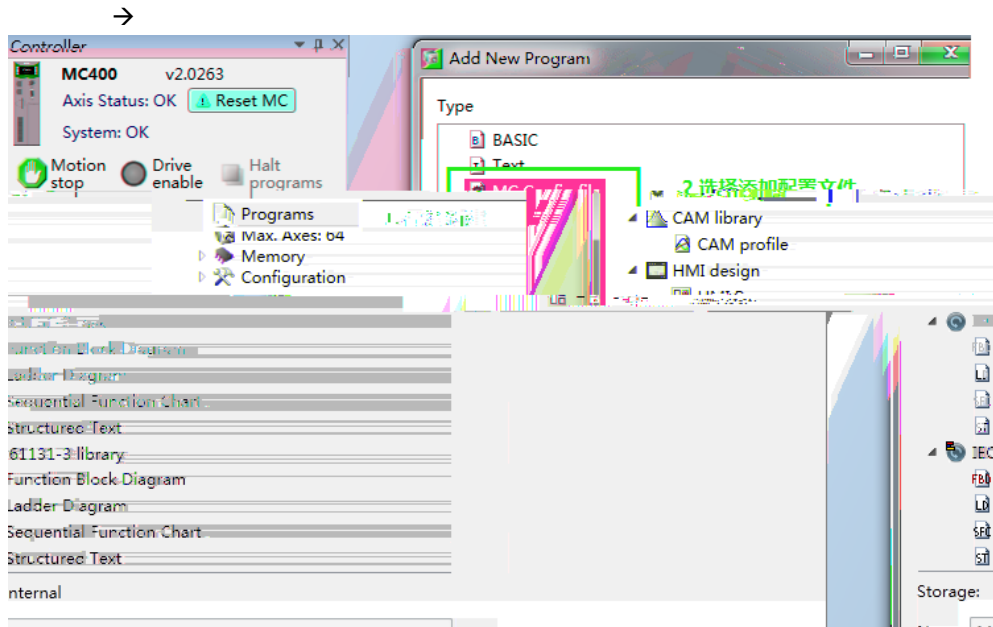
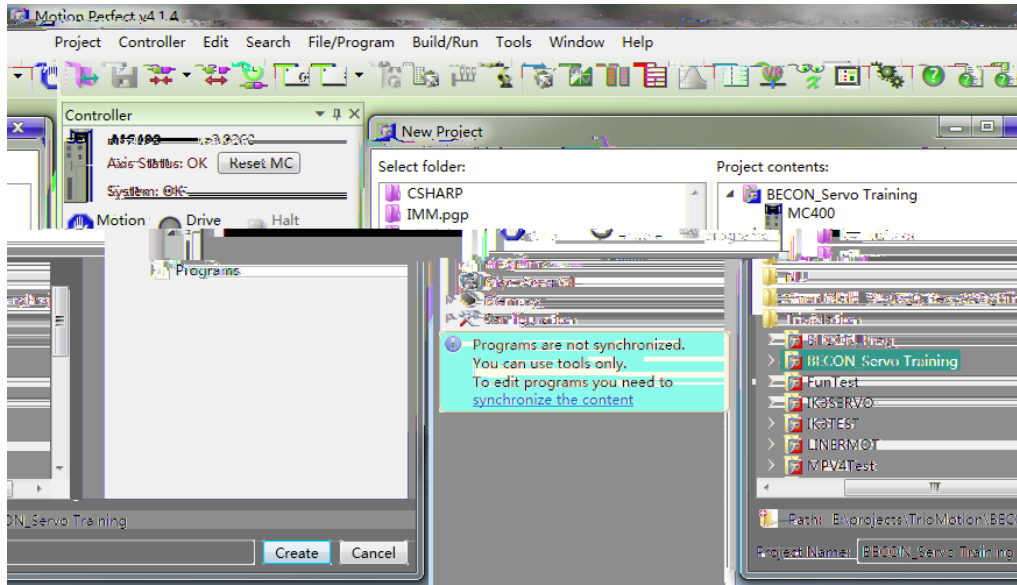


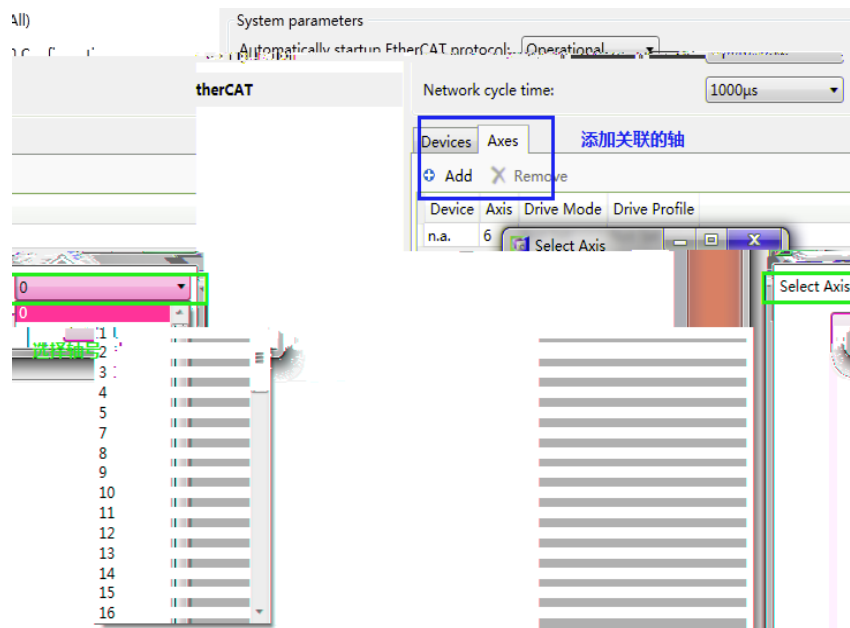
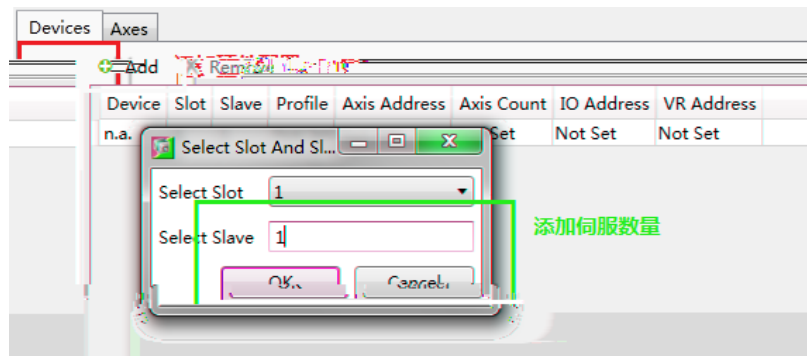
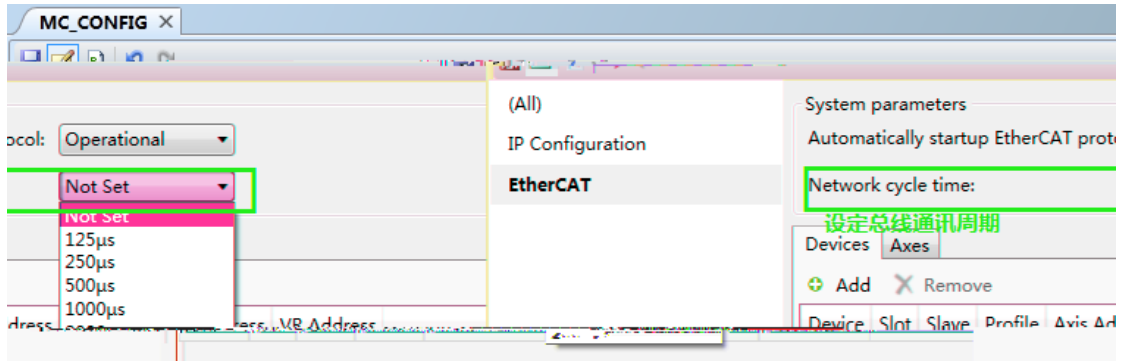
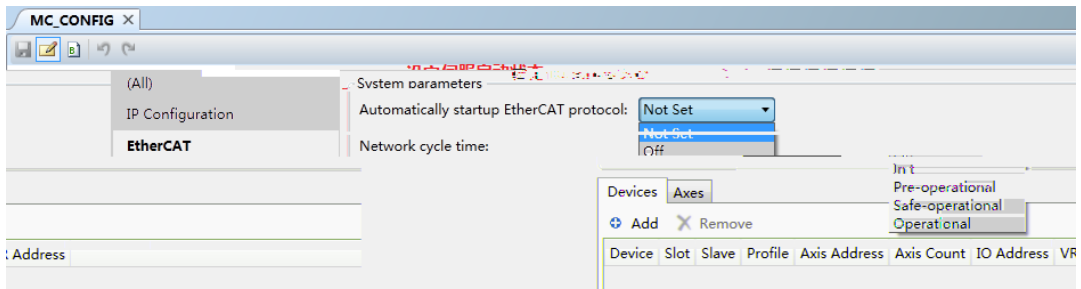


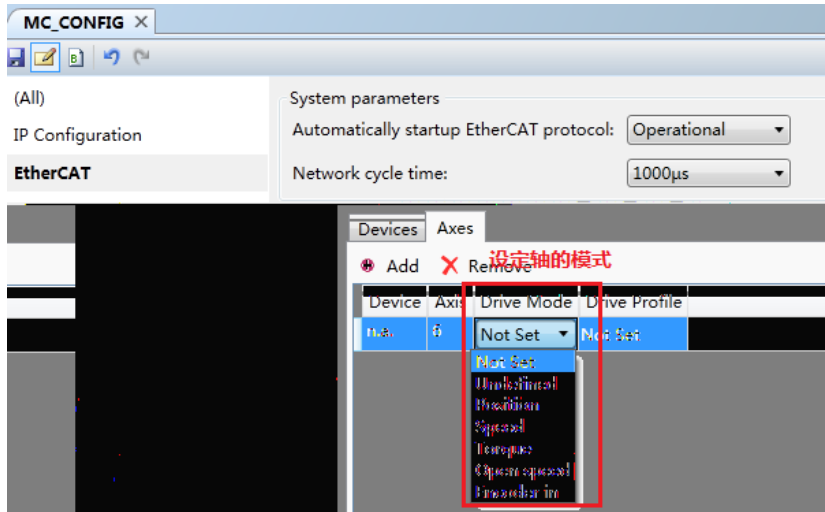




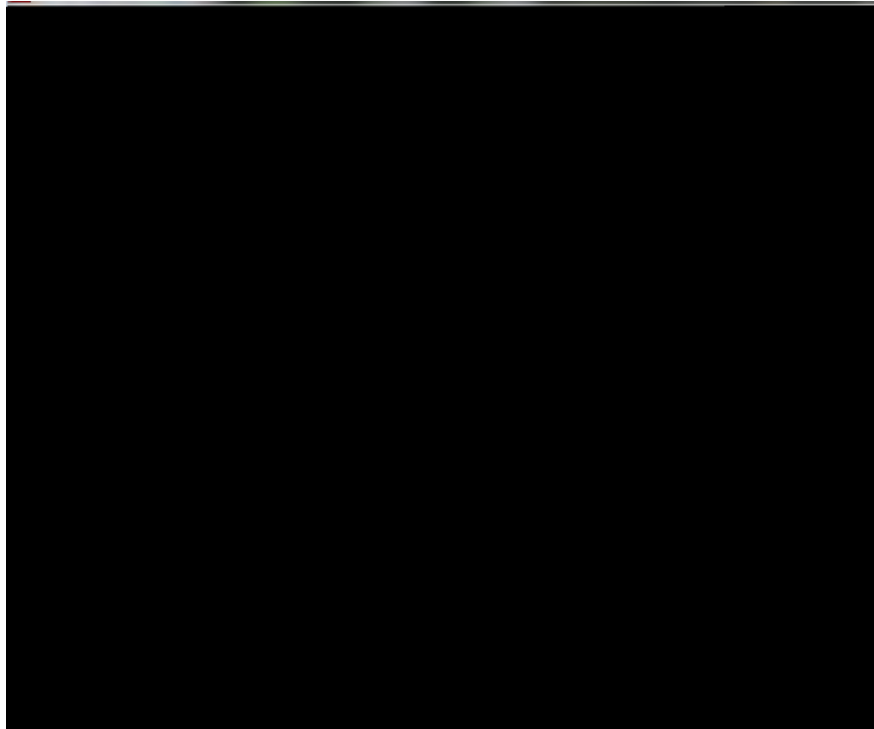








→



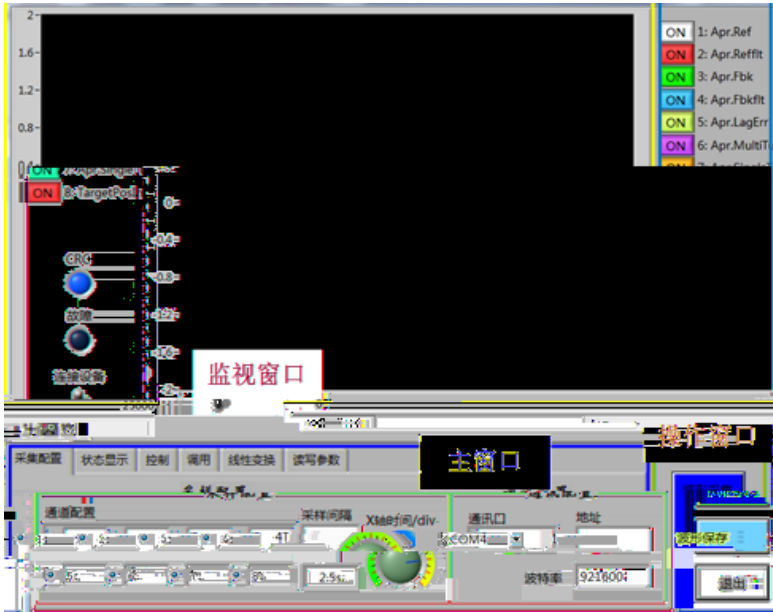
-
-
-
-
-

12

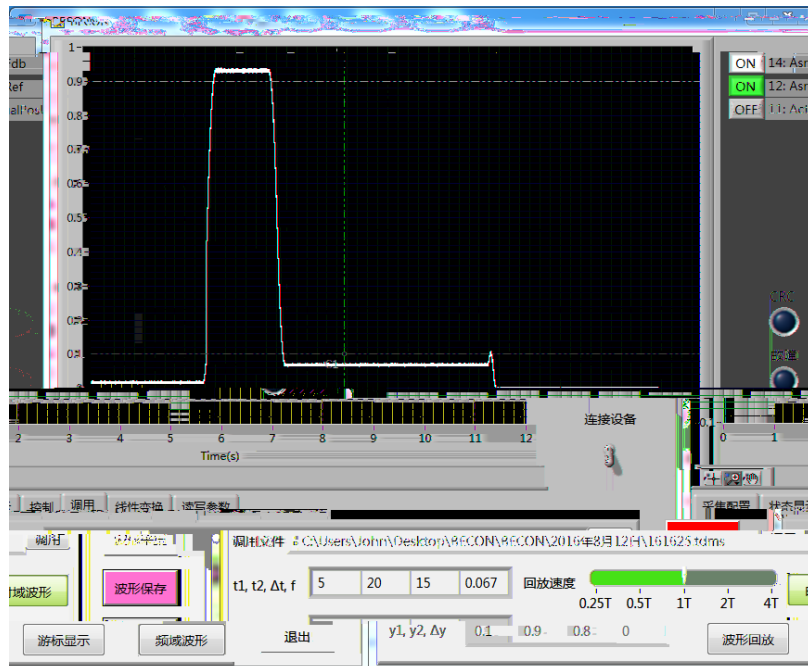


12.1

12.2 BECON-Monitor

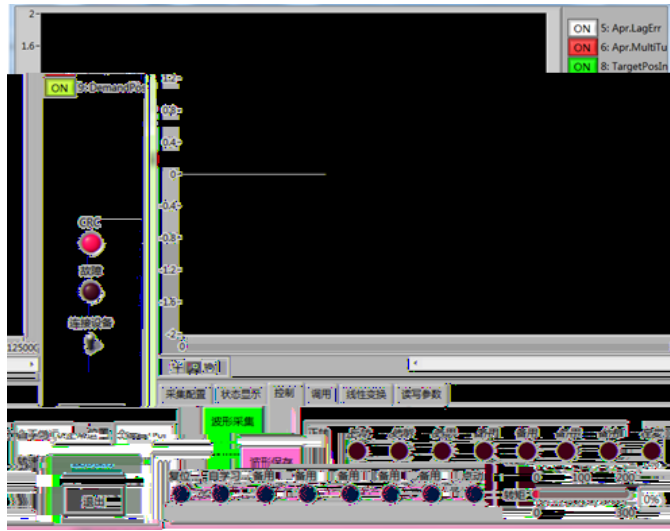


退出



代码	值	单位	名称
0.00	1		速度控制模式
0.01	0		操作器控制
0.02	0		本地设置
0.03	0		本地设置
0.04	0		登录密码
0.05	0		调试状态
0.06	800		调试参数
0.00	0		非叶动力电机
0.01	28		自定义电机
0.02	2.42	kW	电机额定功率
0.03	4.8	A	电机额定电流

代码	值	单位	名称
P21.00	1.10	ohm	电机定子相电阻
P21.01	12.50	mH	电机D轴电感
P21.02	12.50	mH	电机Q轴电感



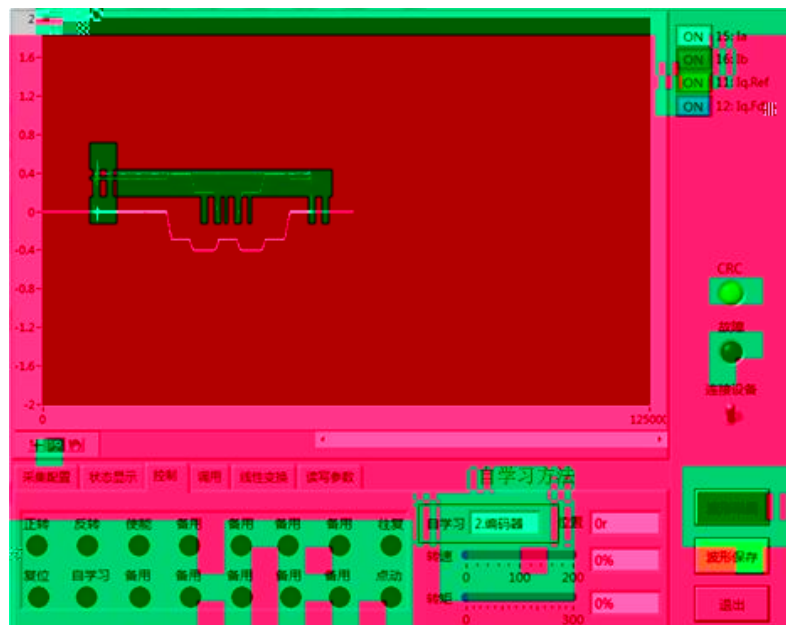
波形保存

2017年5月2日	2017/5/26 11:36
data	2016/12/23 16:39
BECON.aliases	2016/12/23 16:39
BECON.exe	2016/12/23 16:39
BECON.ini	2016/12/23 16:39
BECON.log	2016/12/23 16:39
BECON.tlb	2016/12/23 16:39

名称	修改日期	类型
145527.tdms	2017/5/2 14:55	TDMS 3
145527.tdms_index	2017/5/2 14:55	TDMS_I

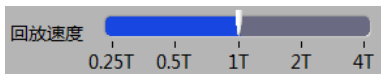
12.4

采集配置	状态显示	控制	调用	线性变换	读写参数
有功功率 0.00 kW	给定转速 0.0 rpm	输出电流 0.0 A	AI0输入 -0.02 V	伺服温度 30.9 °C	
视在功率 0.00 kVA	电机转速 0.0 rpm	输出电压 0.0 V	AI1输入 -0.03 V	电机温度 32.4 °C	
功率因数 0.000	节点号 1	母线电压 0 V	电机型号 0	PowerID 0.5	



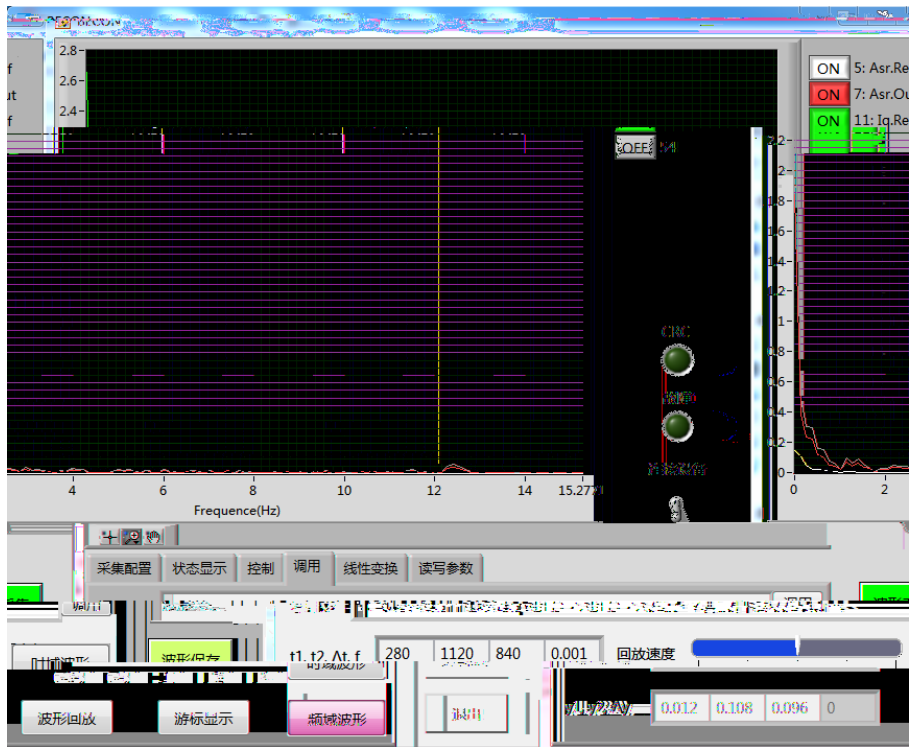


波形回放



频域波形

时域波形



ON	5: Asr.Ref
ON	7: Asr.Out
ON	11: Iq.Ref
OFF	54

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
增益	1	1	1	1	1	1	1	1
偏置	0	0	0	0	0	0	0	0

The screenshot shows the RECON software interface. At the top, there are several status indicators: ON 14: Asr.Fc, OFF 12: Asr.Re, and OFF 11: Actua. The main display is a waveform plot with a grid. The y-axis ranges from 0 to 110, and the x-axis is labeled 'Time(s)' and ranges from 0 to 11. A prominent white pulse is visible at the beginning of the time axis. Below the plot, there is a control panel with buttons for '采集配置', '状态显示', '控制', '调用', '线性变换', and '读写参数'. On the left side of the control panel, there are buttons for '波形采集' (red), '波形保存' (green), and '退出' (grey). At the bottom of the control panel, there is a table for channel settings:

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
增益	100	1	1	1	1	1	1	1
偏置	10	0	0	0	0	0	0	0

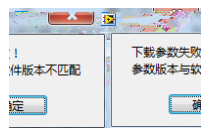
12.7

导入

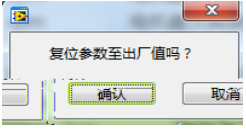
导出

Para.txt	2015/12/17 13:06	文本文档	16 KB
Para-151217-1404.txt	2015/12/17 14:04	文本文档	16 KB

参数上传 参数下载 参数复位 设为默认  28



12.7.5



12.8

