



赫兹电力
HERTZ POWER

产品宗旨：技术领先，质量可靠，轻便易用

服务宗旨：快速响应，达到满意，超过期望



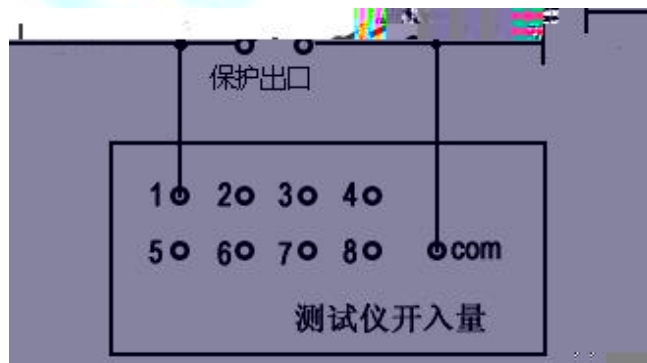
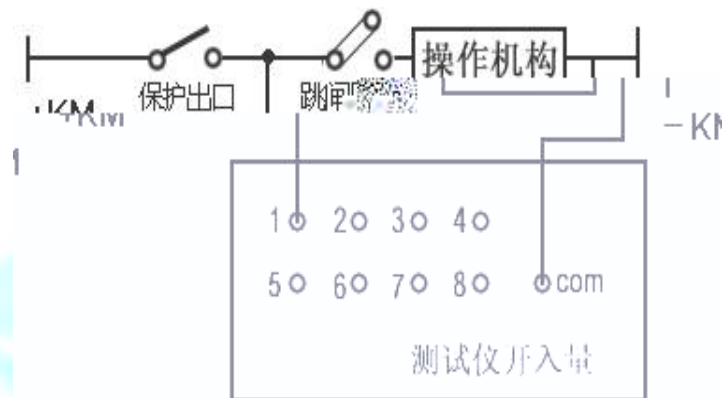
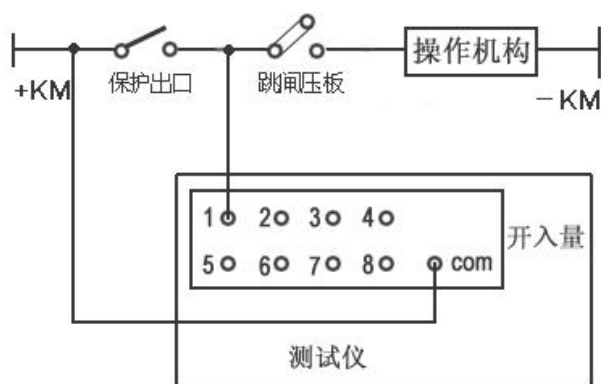


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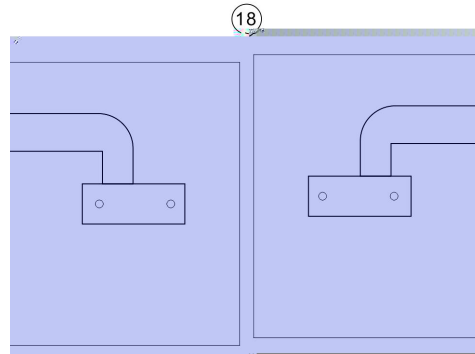
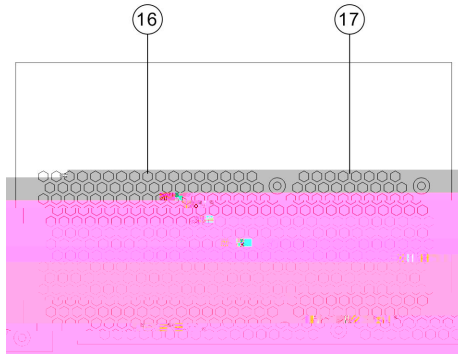
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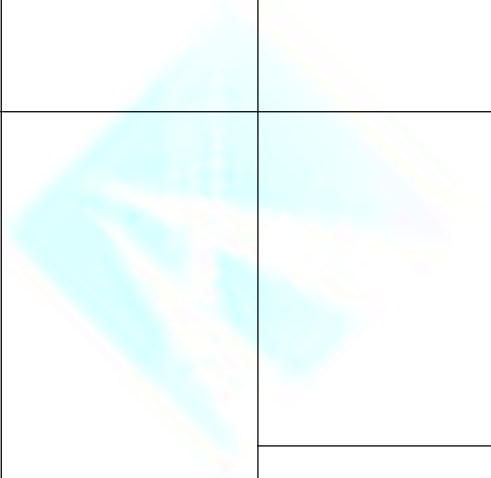




服务宗旨：快速响应，达到满意，超过期望

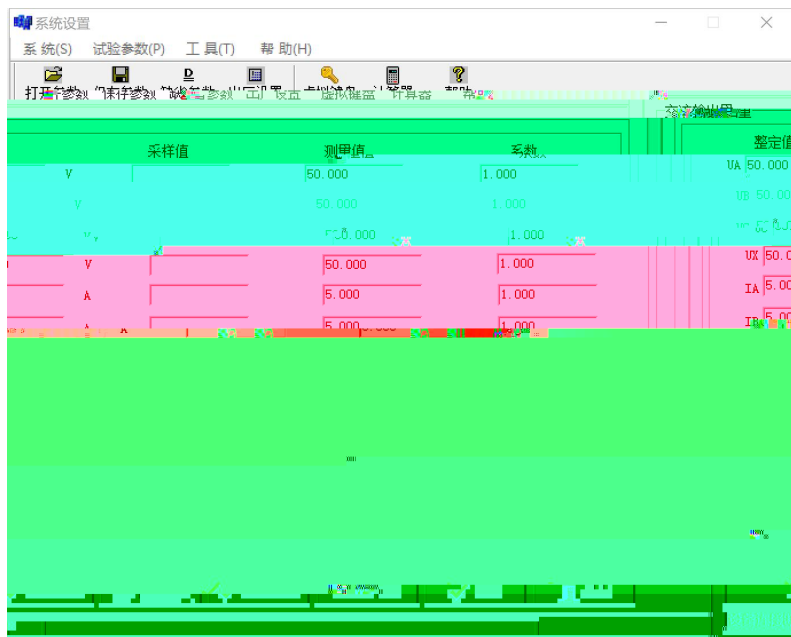
			
			
			
			

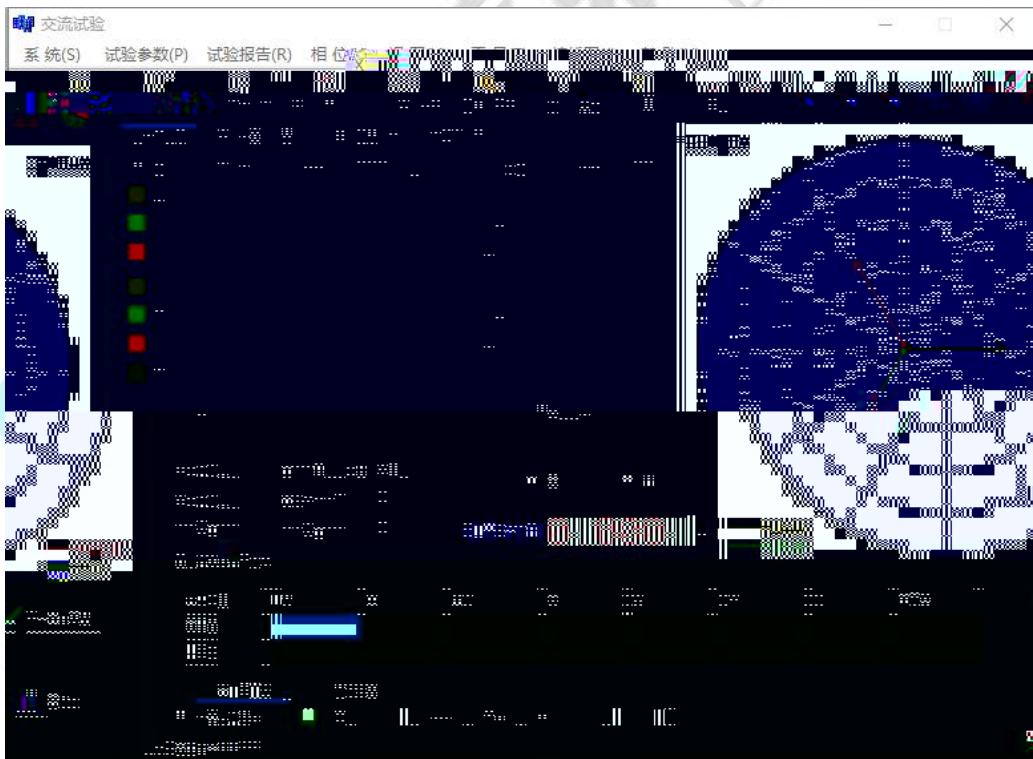
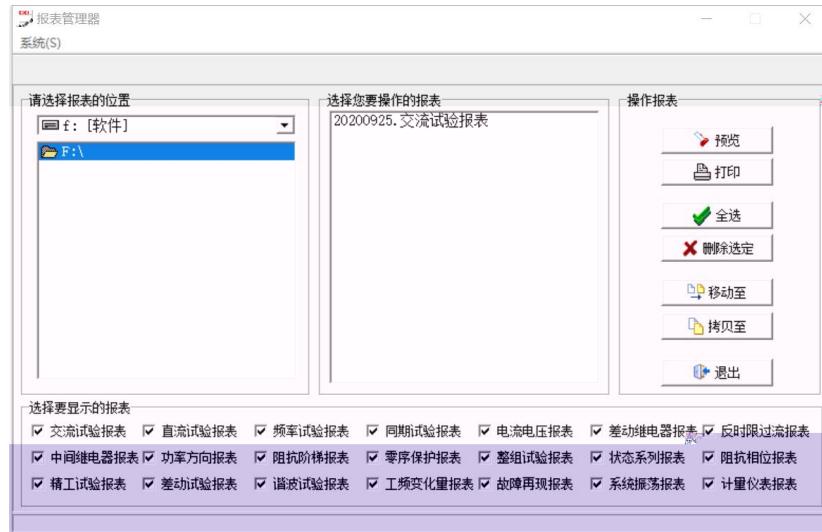


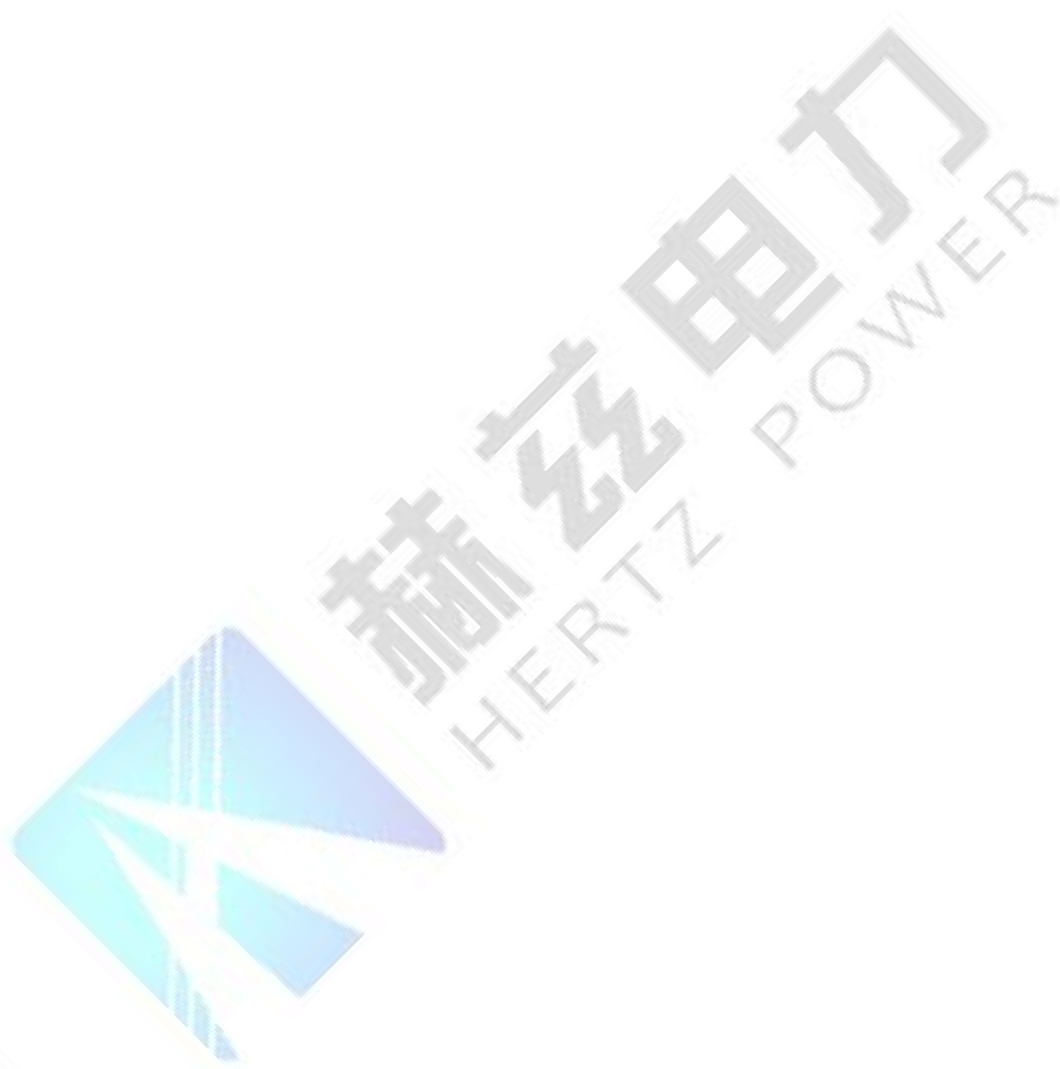
				 
				 
				

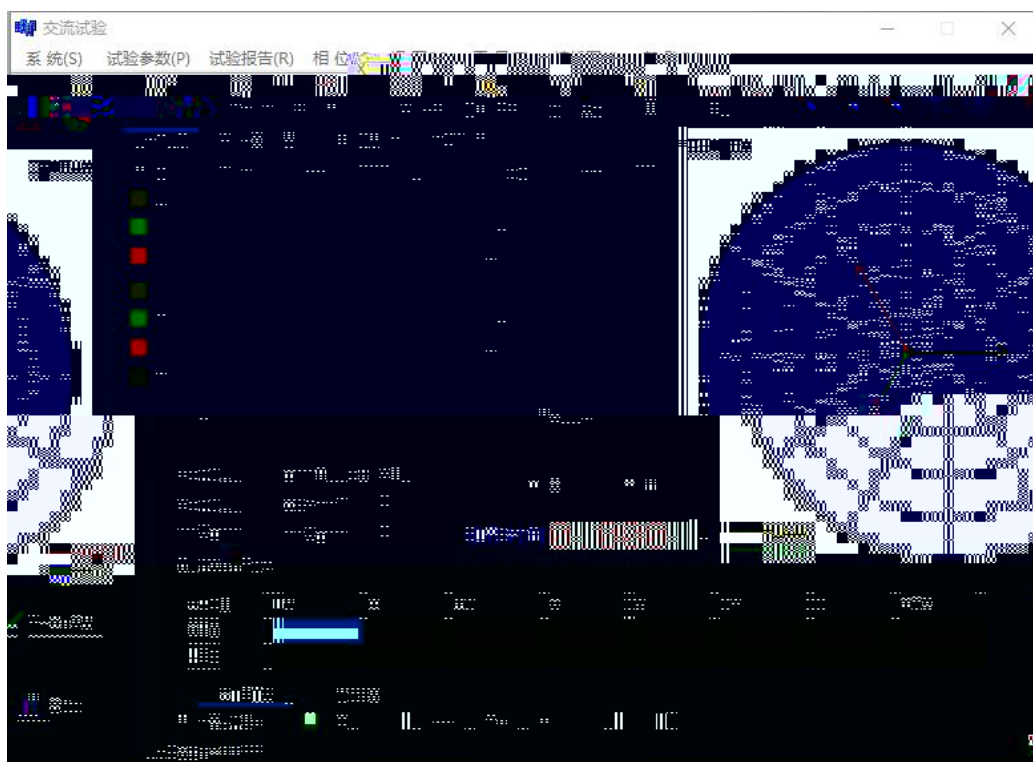








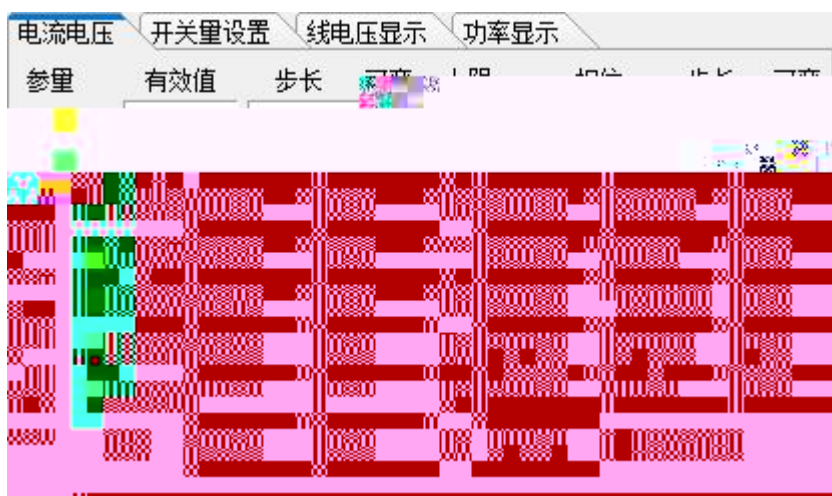


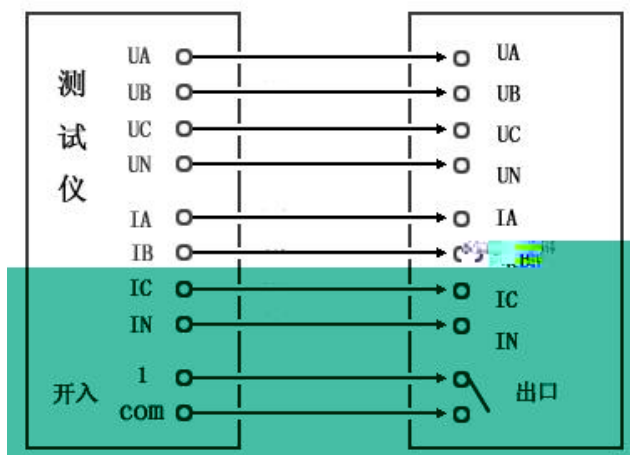


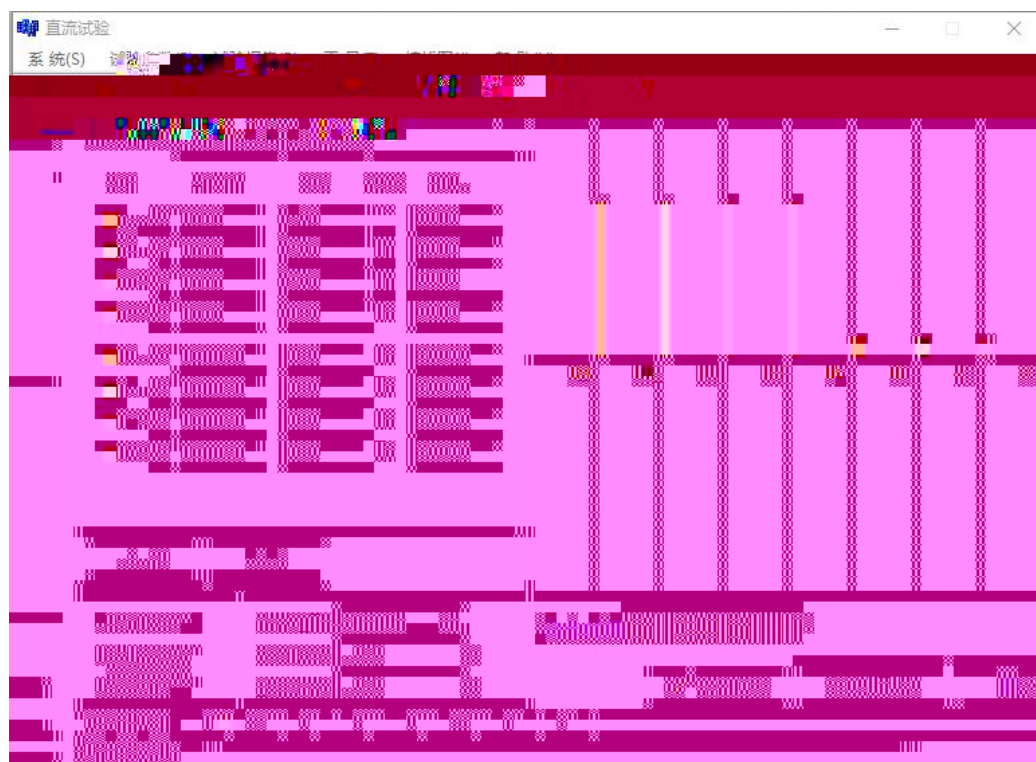
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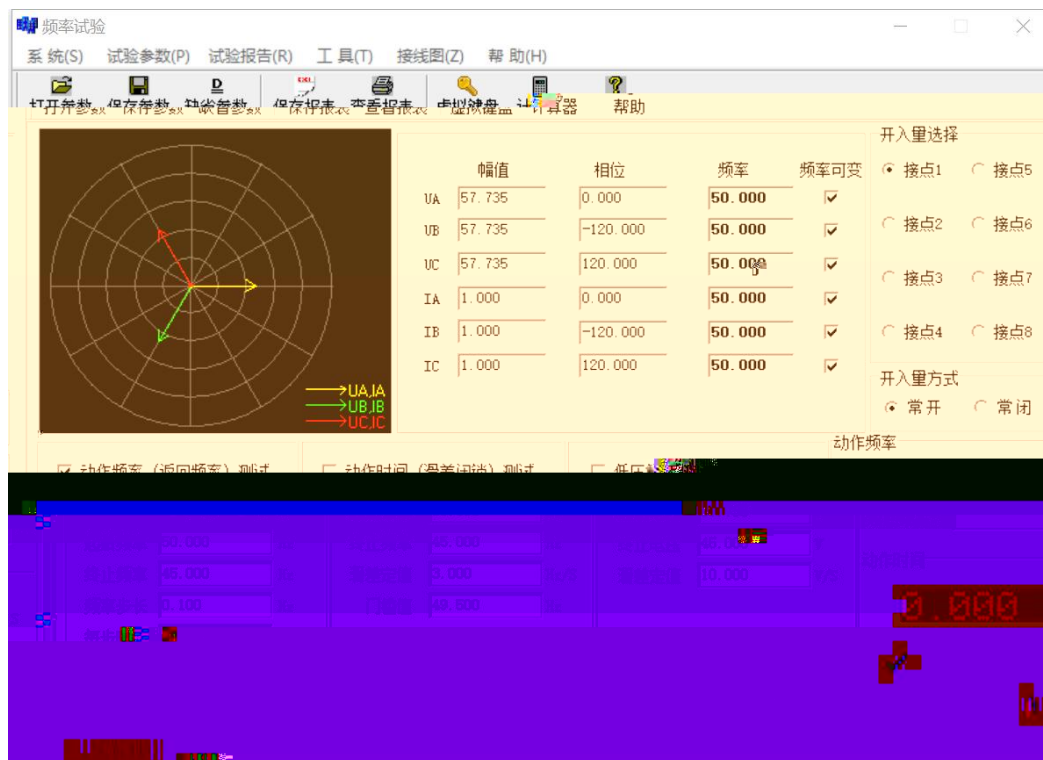
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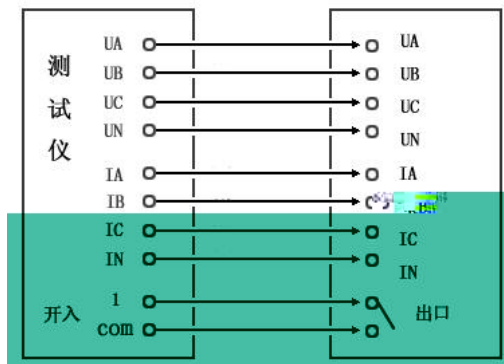






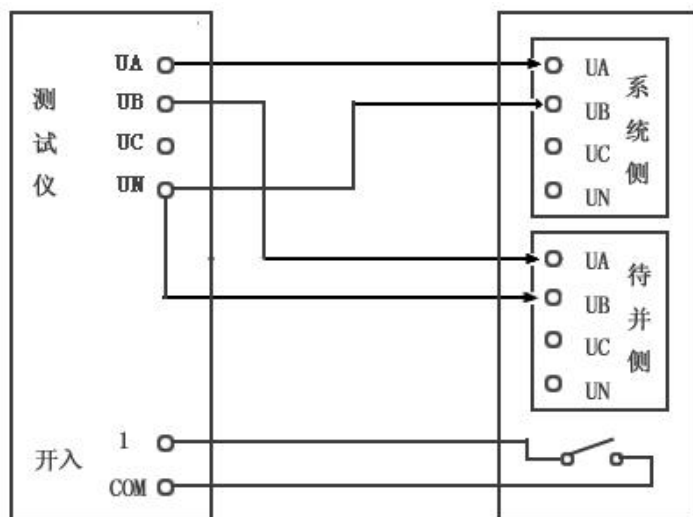




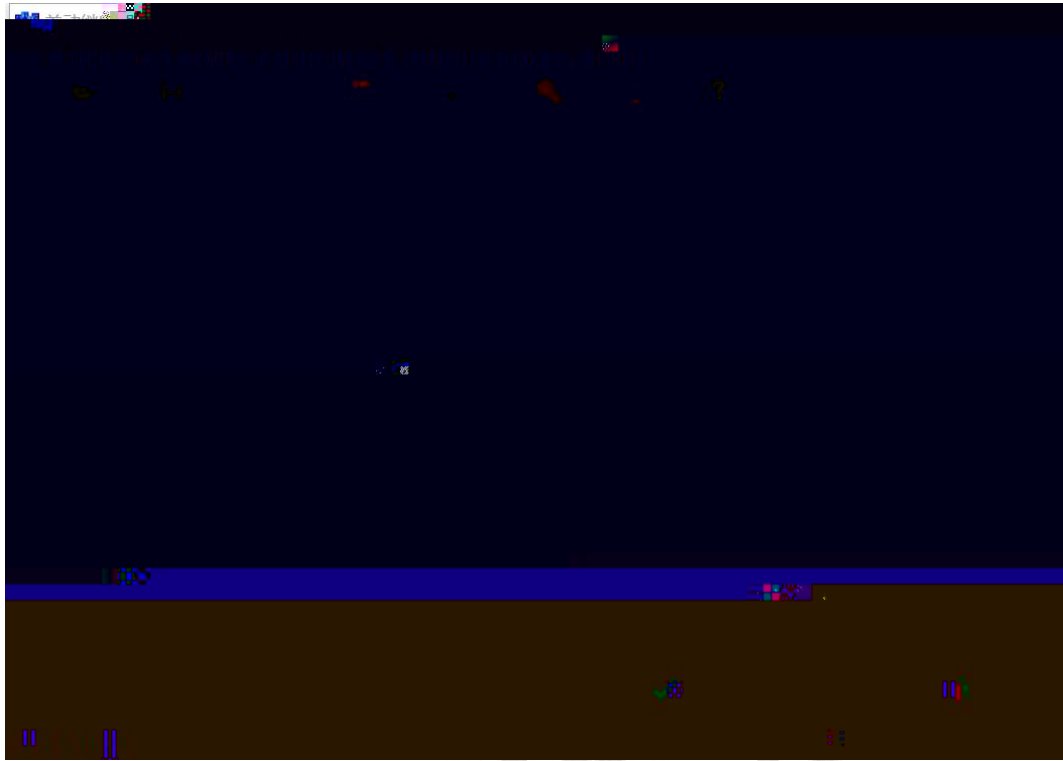




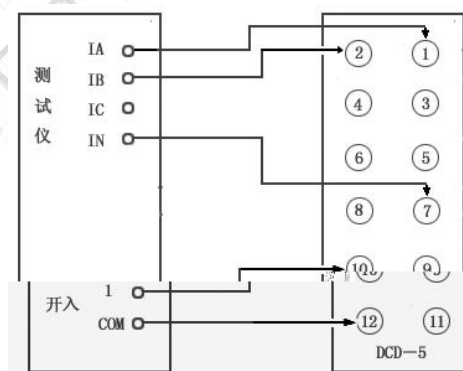
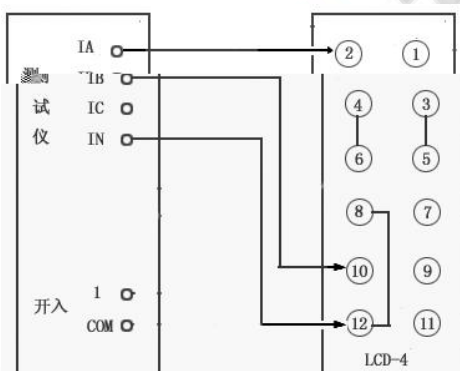


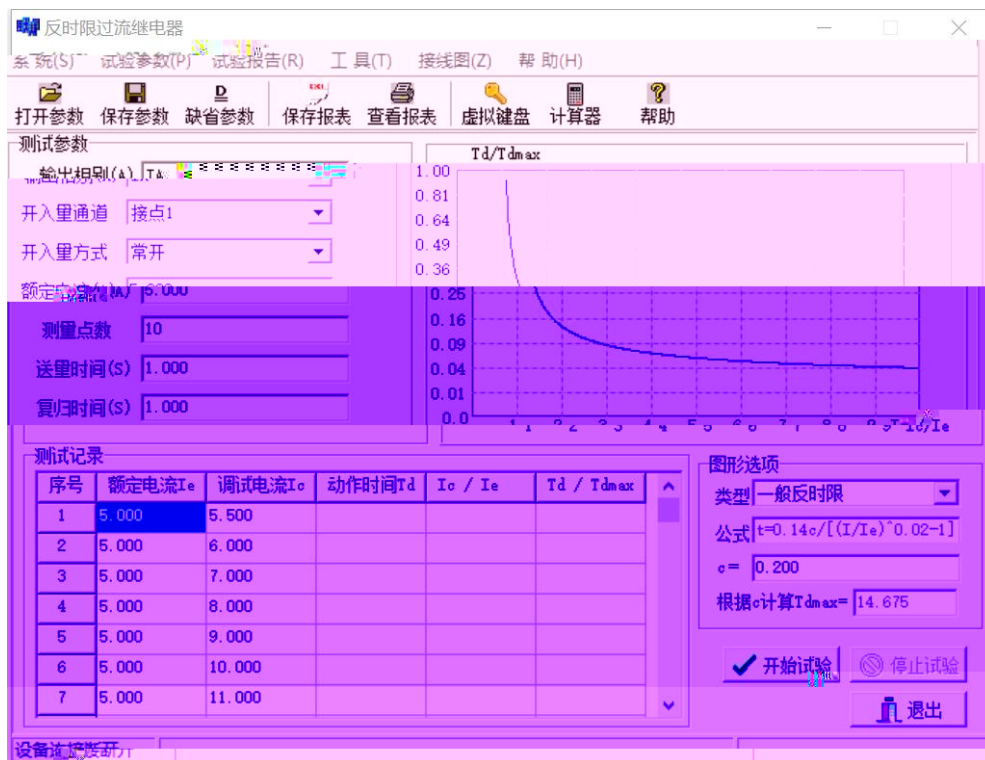


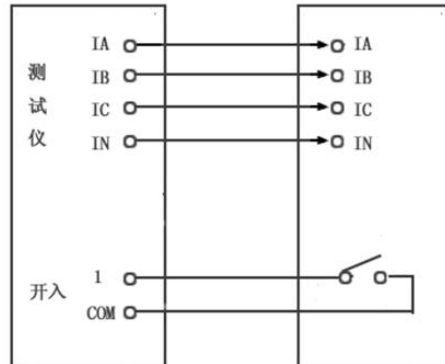
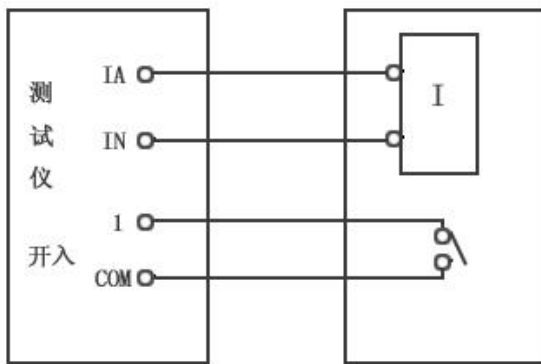


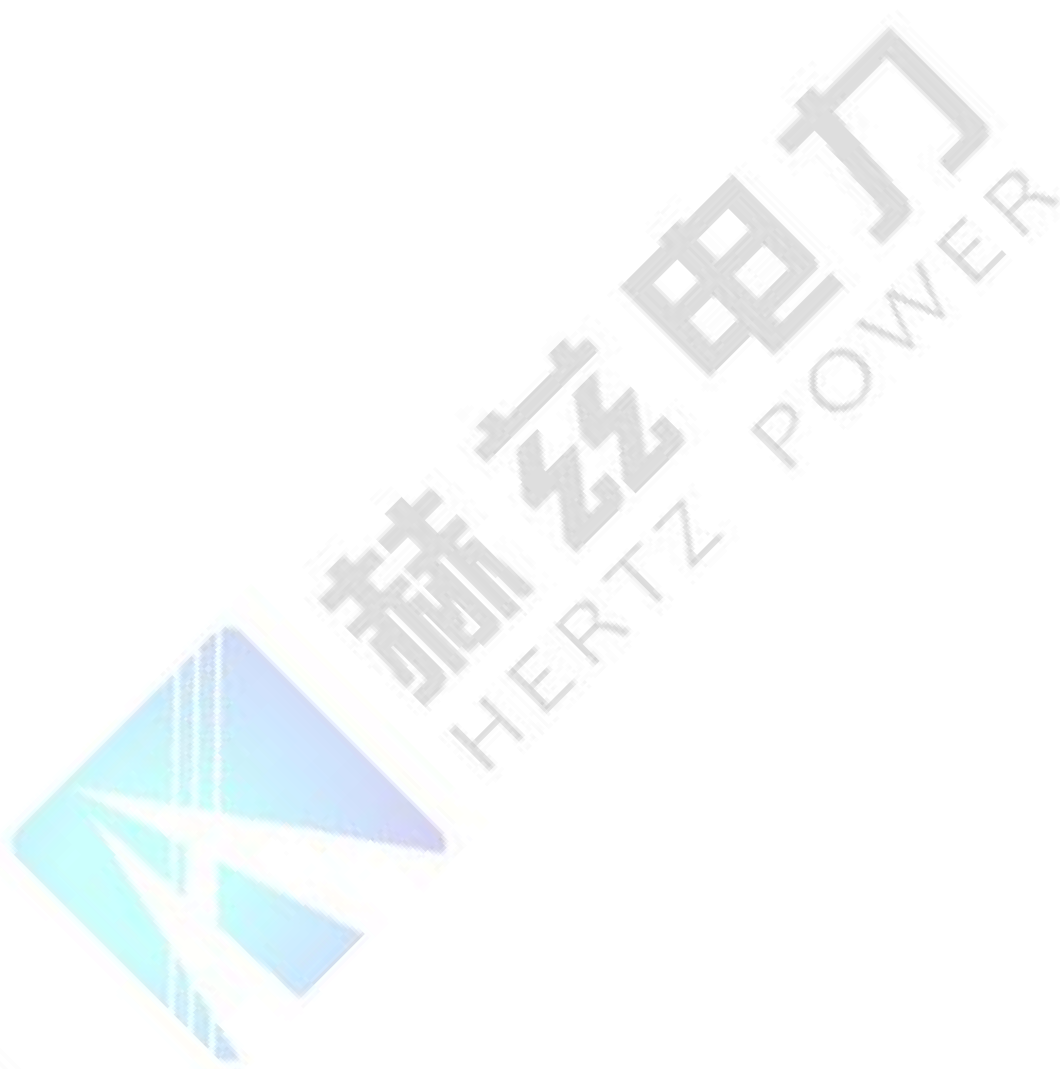


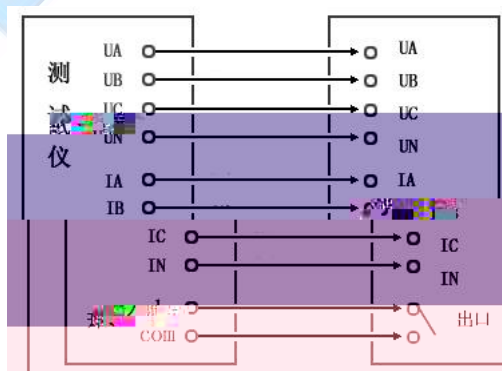
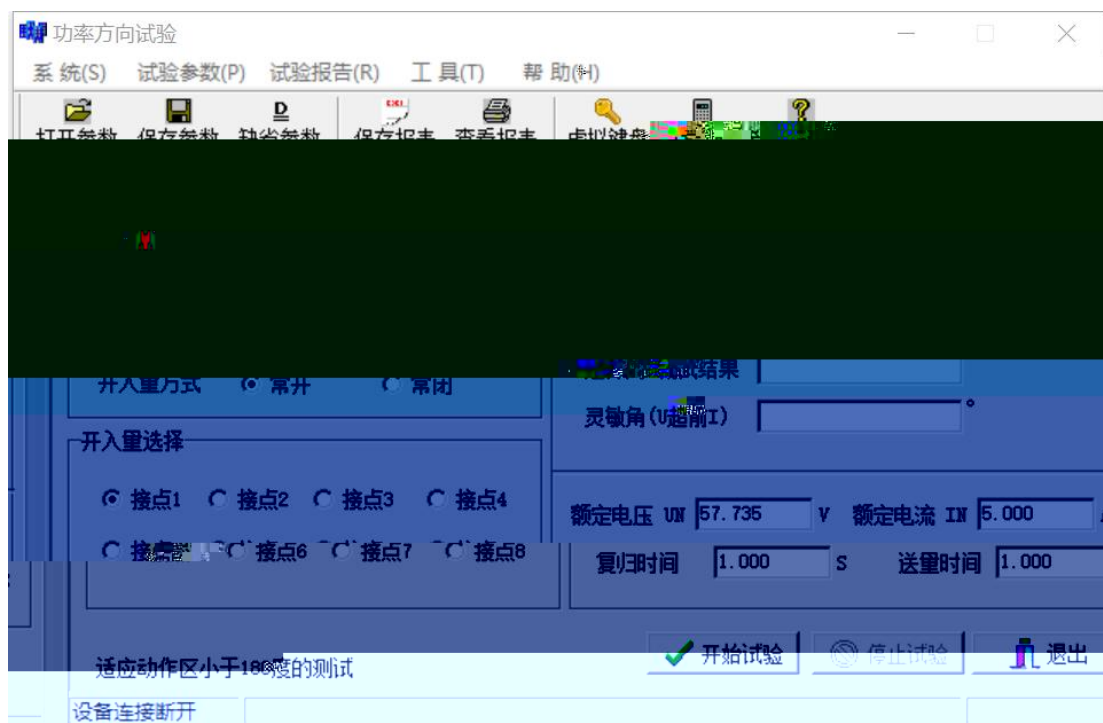
图形	结果	
序号	制动Iz	动作Id
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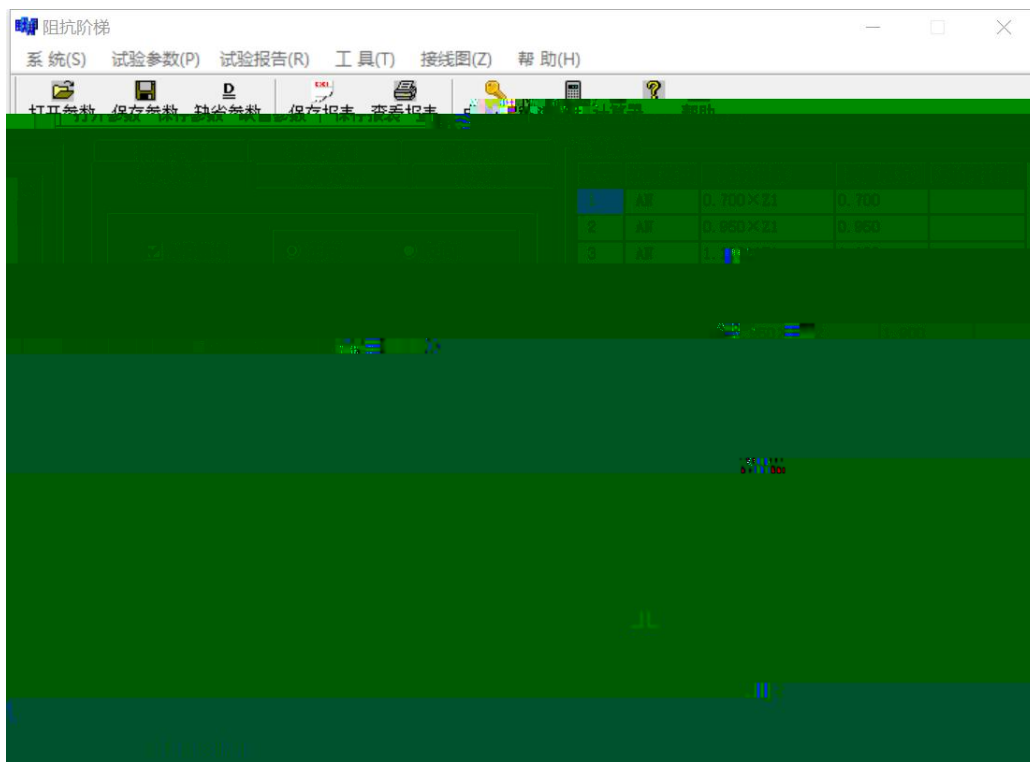


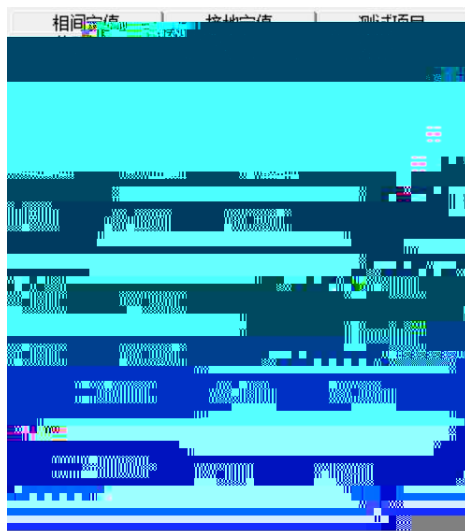








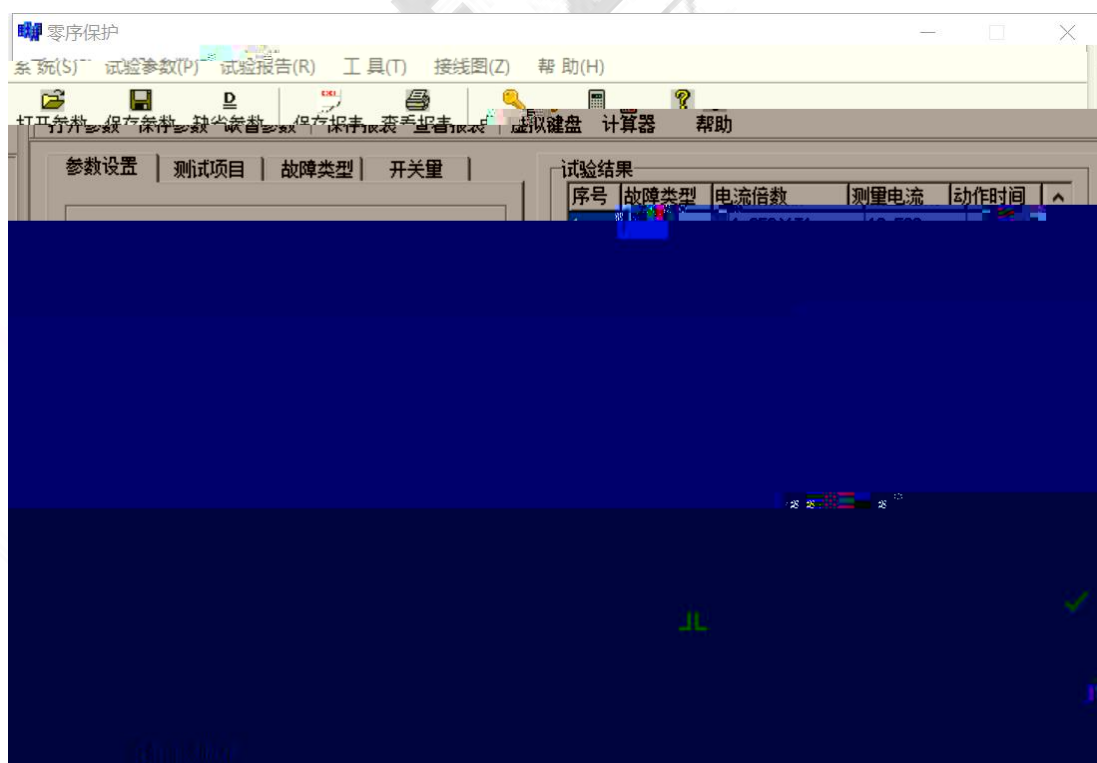
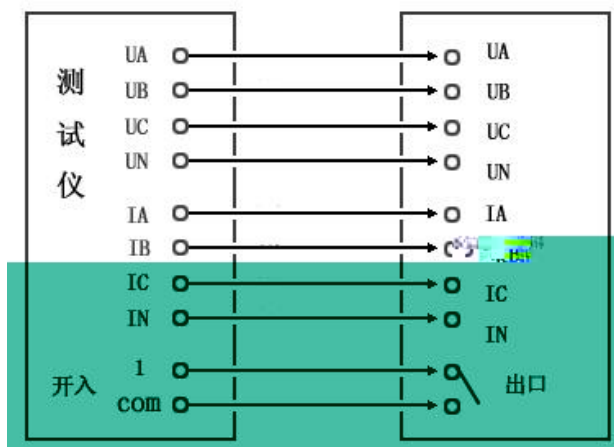




相间定值	接地定值	测试项目
故障类型	故障设置	开关量
故障前时间	20.000 S	故障态时间
故障后时间	4.000 S	
零序补偿系数 K_L	0.000	+ j
	0.670	
I 段电流	10.000 A	II 段电流
	5.000 A	
III 段电流	10.000 A	IV 段电流
	5.000 A	

相间定值	接地定值	测试项目
故障类型	故障设置	开关量
开入接点 1 跳A		
开入接点 2 关闭		
开入接点 3 关闭		
开入量控制 ☒ 常开 ☐ 常闭		
开出量控制 故障启动后闭合		
维持时间 1.000 S		
☒ 开出量关闭		

故障类型	故障设置	开关量
相间定值	接地定值	测试项目
阻抗倍数选择		
I 段阻抗Z1	0.700 ☒ 0.950 ☒	
	1.100 ☒ 1.050 ☒	
II 段阻抗Z2	0.700 ☒ 0.950 ☒	
	1.100 ☒ 1.050 ☒	
III 段阻抗Z3	0.700 ☒ 0.950 ☒	
	1.100 ☒ 1.050 ☒	
IV 段阻抗Z4	0.700 ☒ 0.950 ☒	
	1.100 ☒ 1.050 ☒	



参数设置 | 测试项目 | 故障类型 | 开关量

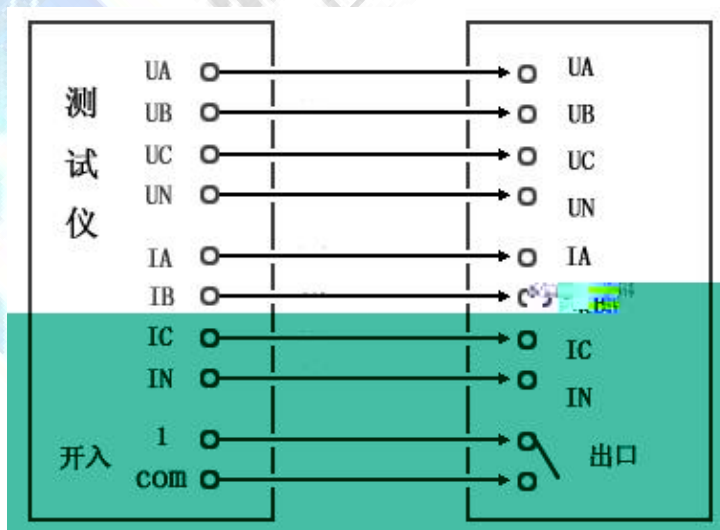
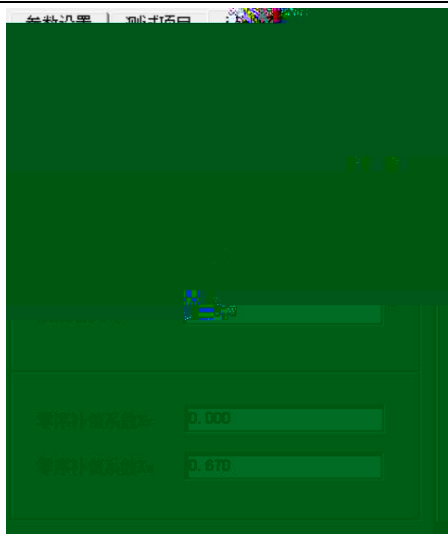
☒ A 相接地 ☐ 正向 ☐ 反向

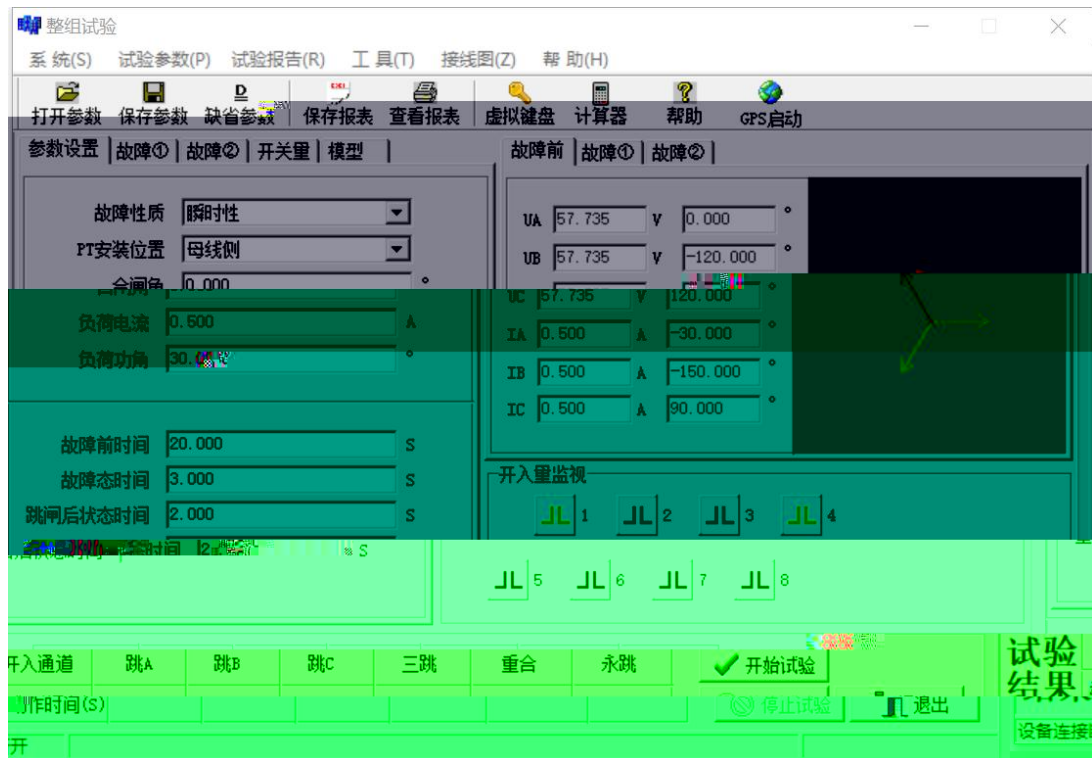
☒ B 相接地 ☐ 正向 ☐ 反向

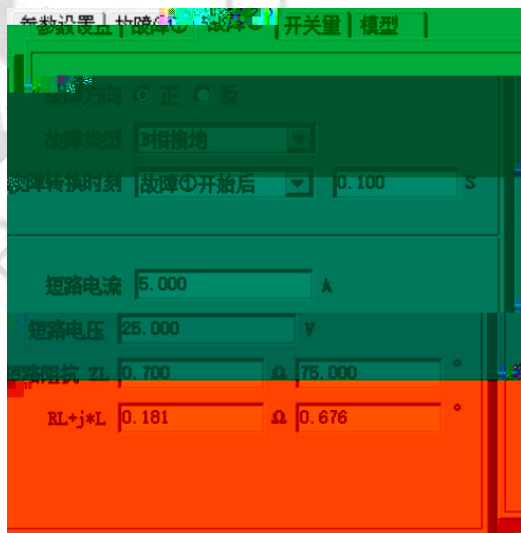
☒ C 相接地 ☐ 正向 ☐ 反向

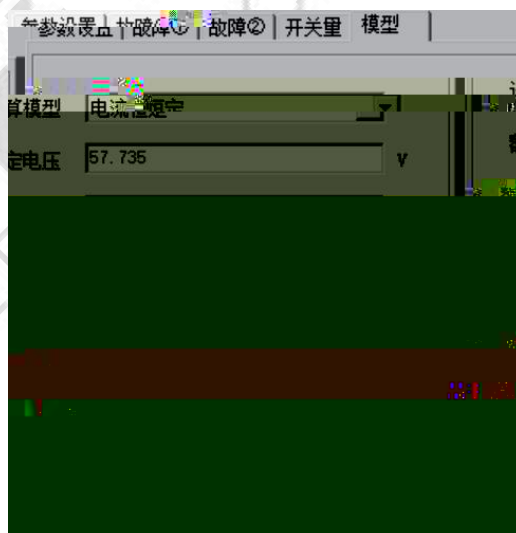
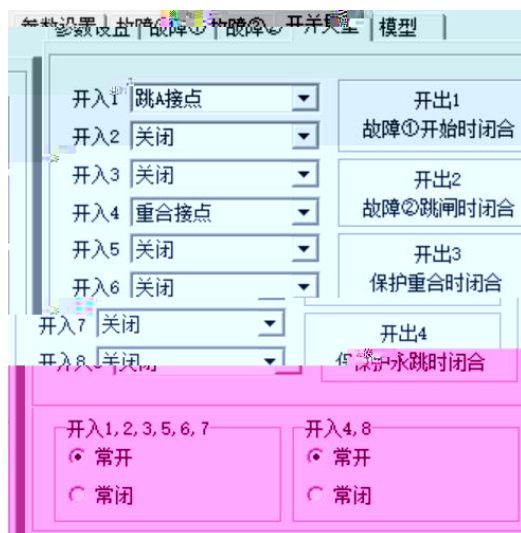
零序 I 段	1.050	☒	0.950	☒
零序 II 段	1.050	☒	0.950	☒
零序 III 段	1.050	☒	0.950	☒
零序 IV 段	1.050	☒	0.950	☒

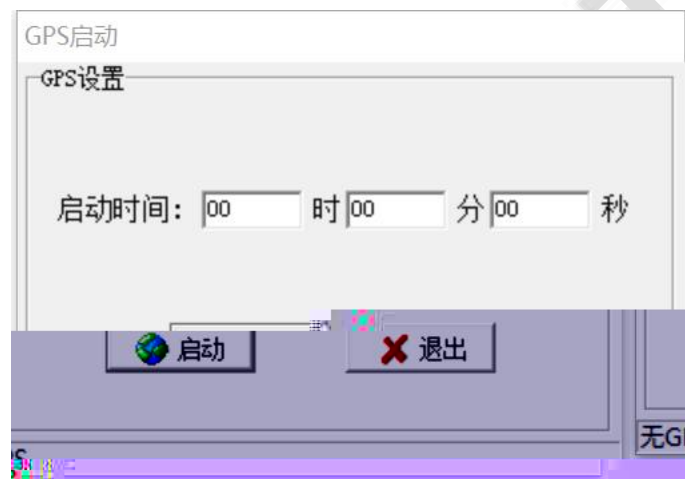
电流输出方式

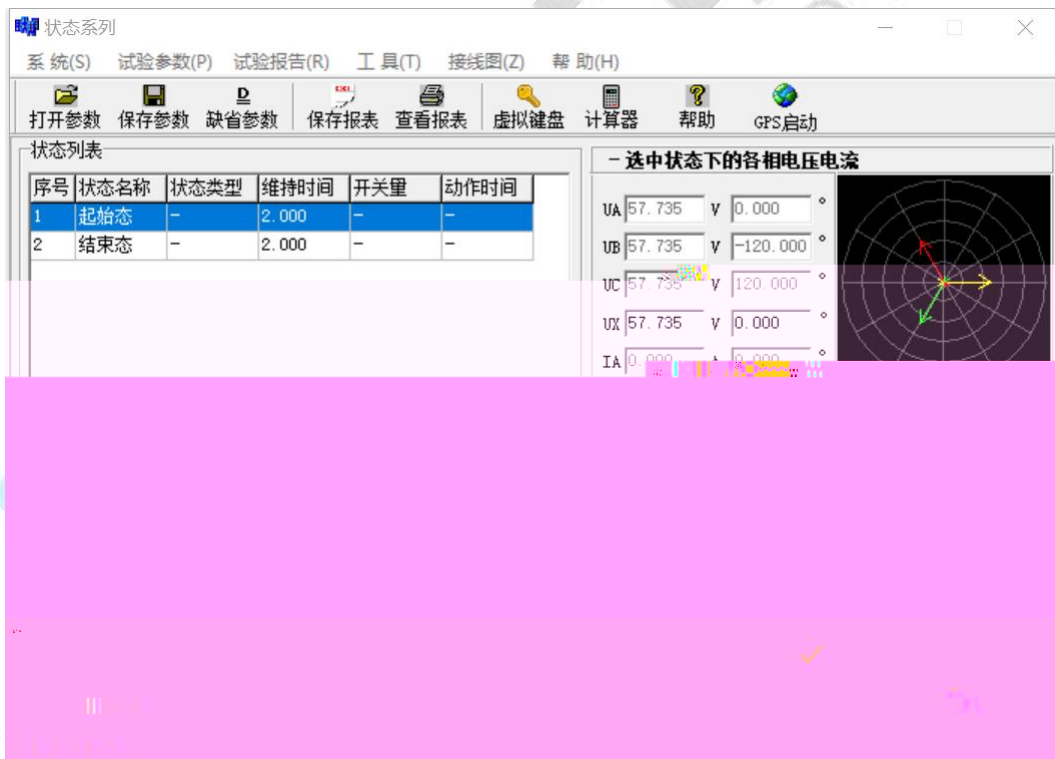
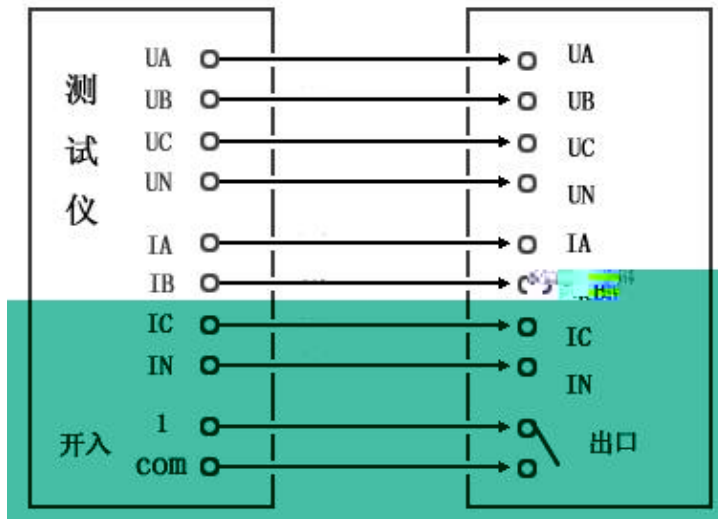


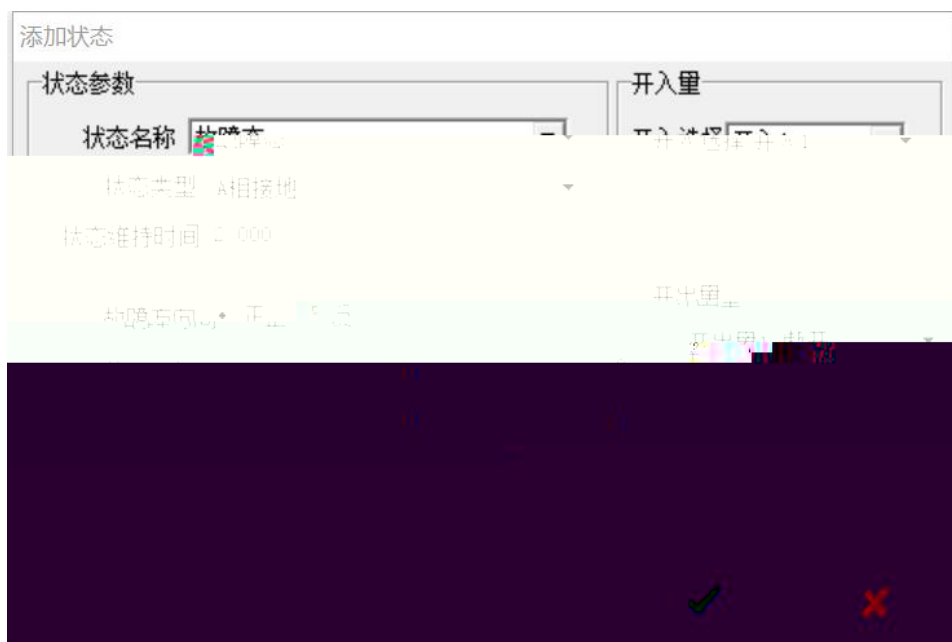


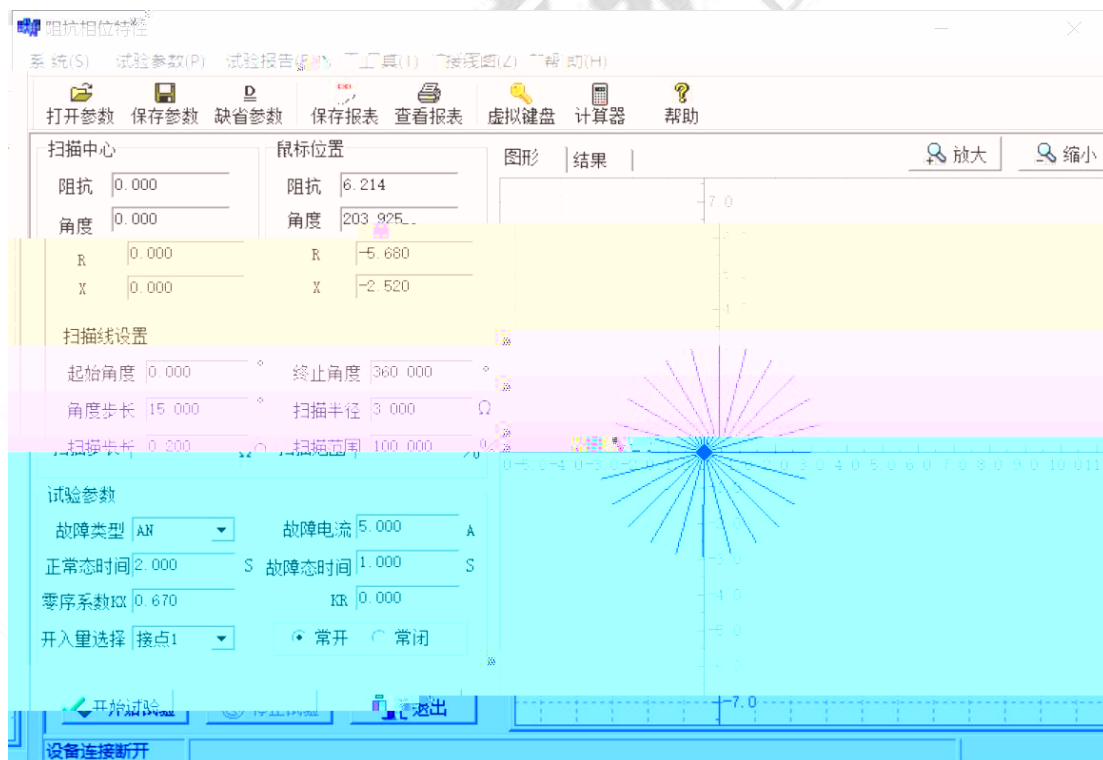
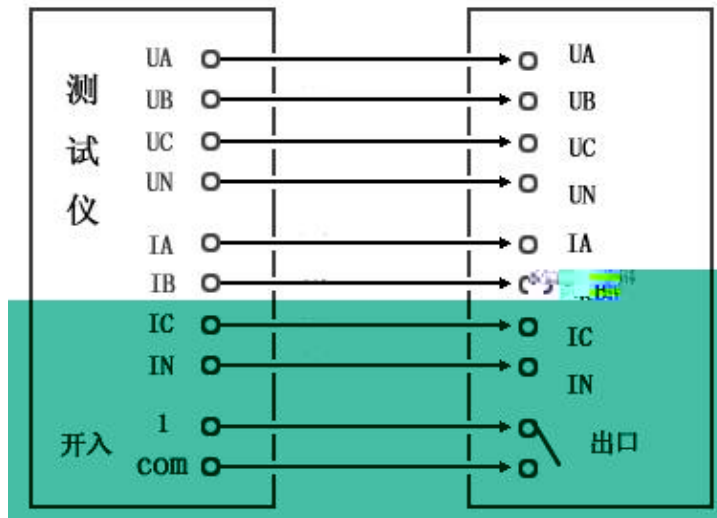


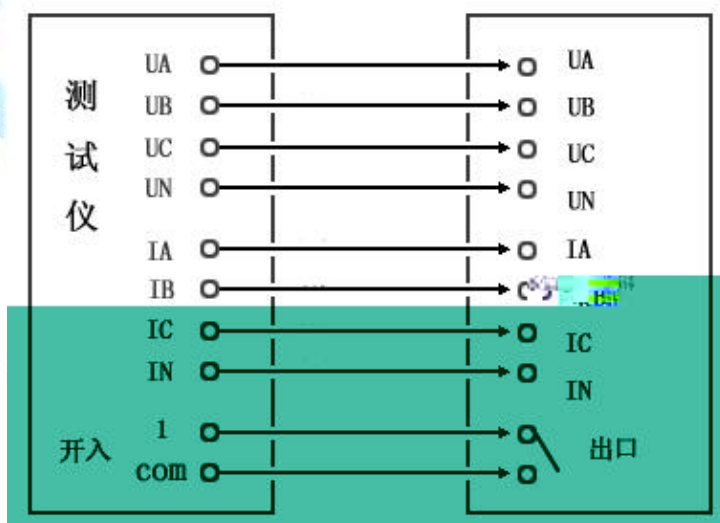


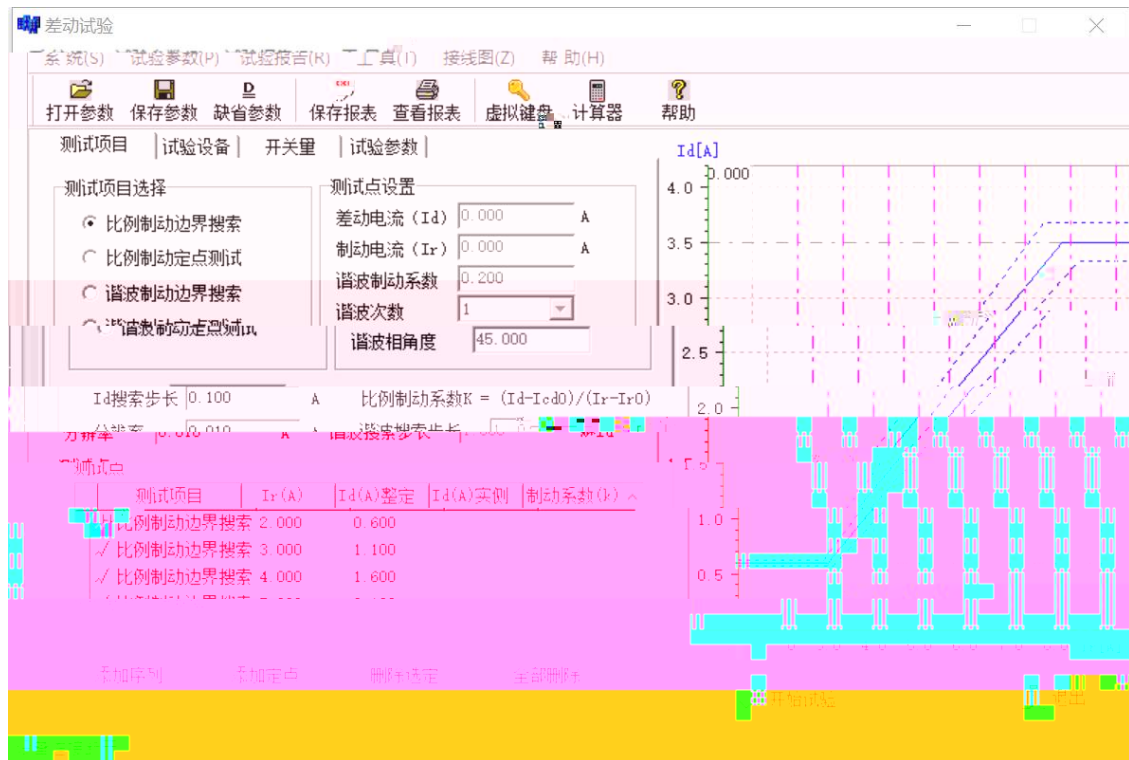












计算公式

$I_d = |K1 \cdot I1 + k2 \cdot I2|$, $I_r = |K1 \cdot I1 - K2 \cdot I2| / K3$ ▼

$I_d = I1$, $I_r = I2$

$I_d = |I1 + I2|$, $I_r = |I1 - I2| / 2$

$I_d = |K1 \cdot I1 + k2 \cdot I2|$, $I_r = |K1 \cdot I1 - K2 \cdot I2| / K3$

$I_d = K1 \cdot I1 + k2 \cdot I2$, $I_r = \text{Max}\{|K1 \cdot I1|, |K2 \cdot I2|\}$

$I_d = K1 \cdot I1 + k2 \cdot I2$, $I_r = |K2 \cdot I2|$

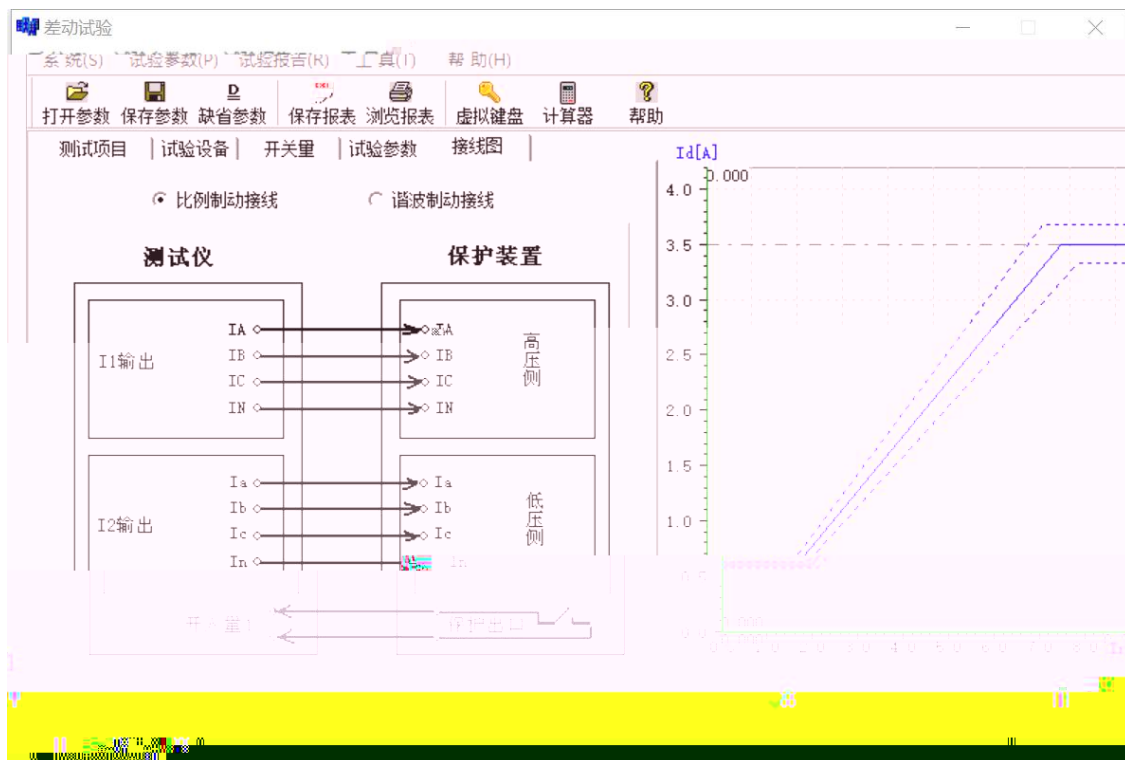
$I_d = K1 \cdot I1 + k2 \cdot I2$, $I_r = |I_d - |K1 \cdot I1||$

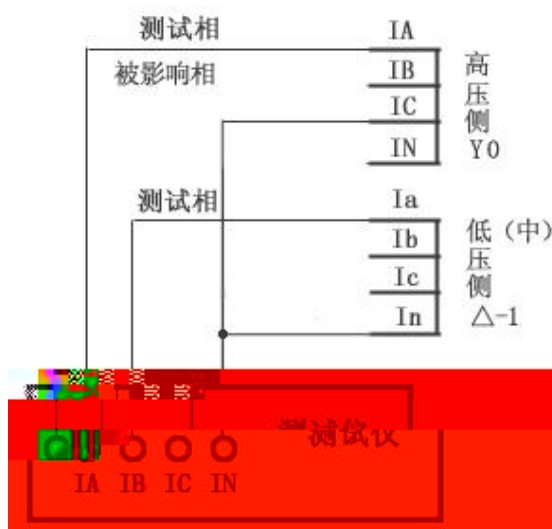
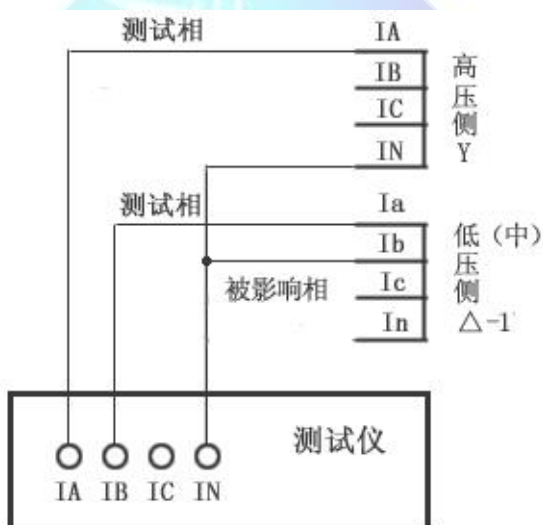
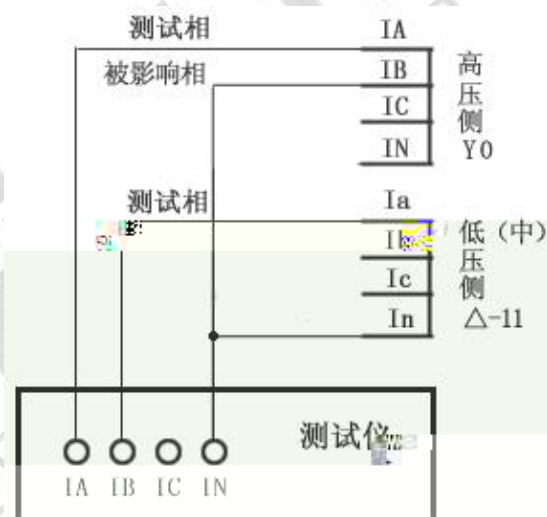
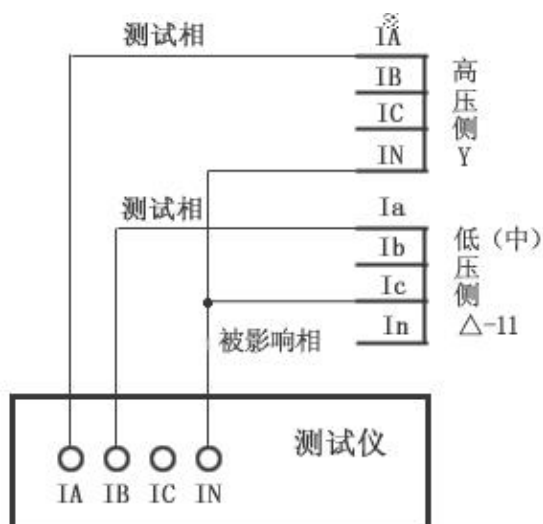
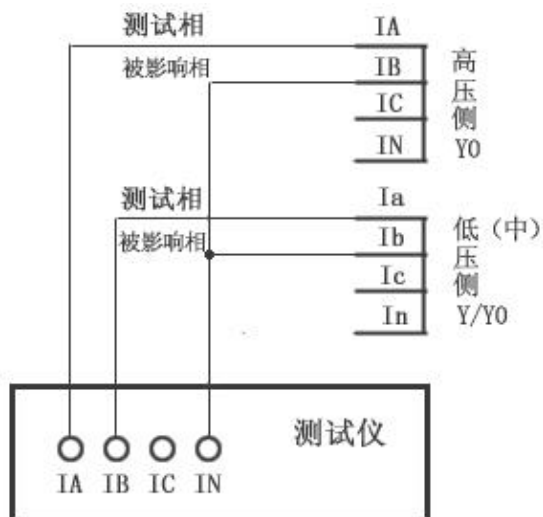
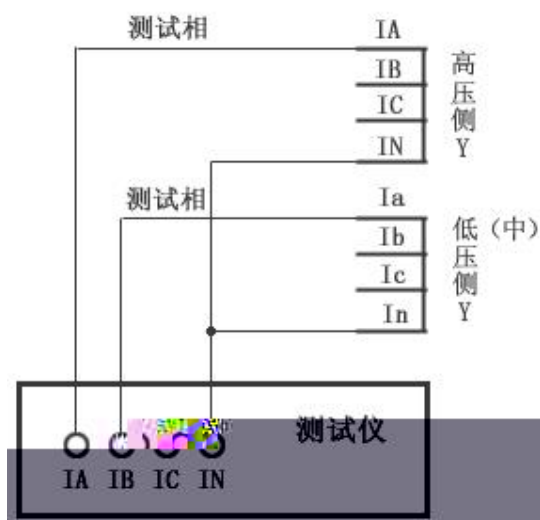
$I_d = K1 \cdot I1 + k2 \cdot I2$, $I_r = (|K1 \cdot I1| + |K2 \cdot I2|) / K3$

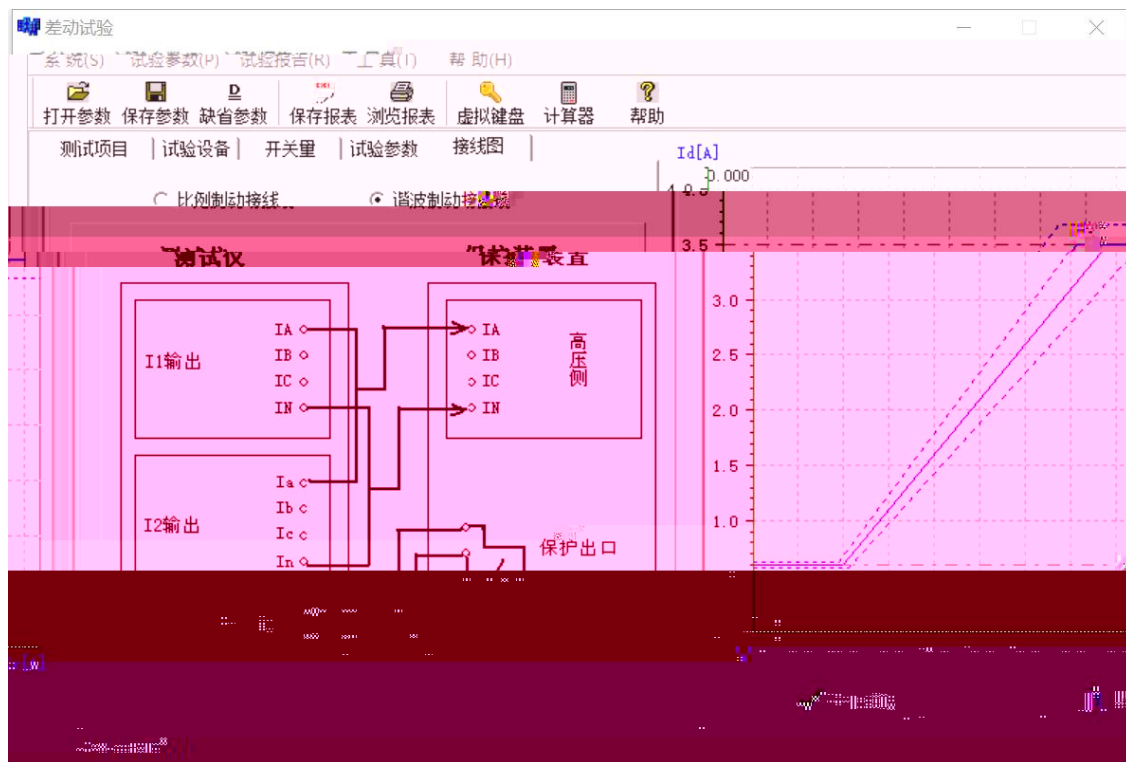
$I_d = K1 \cdot I1 - k2 \cdot I2$, $I_r = (|K1 \cdot I1| + |K2 \cdot I2|) / K3$

$K3 = 2.000$

测试项目	试验设备	开关量	试验参数
变压器圈数	接线方法	Y/Y-12	
二绕组	高对低	Y/Δ-1	
平衡系数设置方式：直接设置平衡系数			
电压器参数			
高压侧	中压侧	低压侧	
额定容量	100,000 MVA	100,000 MVA	100,000 MVA
额定电压	110,000 KV	38,500 KV	11,000 KV
额定电流	504,897 A	144,055 A	47,550 A
变比	40,000	100,000	400,00
调压数	1,000	1,000	0,500
定义			
输出式	幅值-IA	幅值-IB	幅值-IC
频率	50	50	50
基波	基波	基波	基波
相位	150	150	150
IT=IA			







比例制动边界搜索

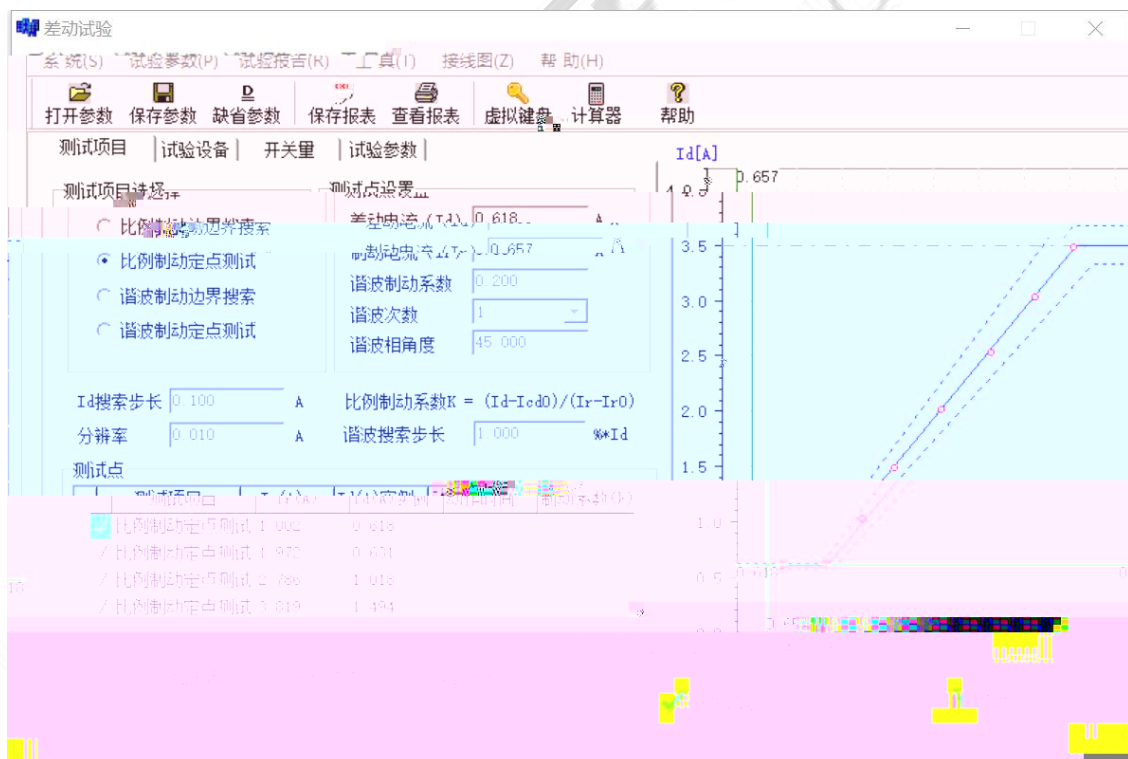
制动电流(Ir)

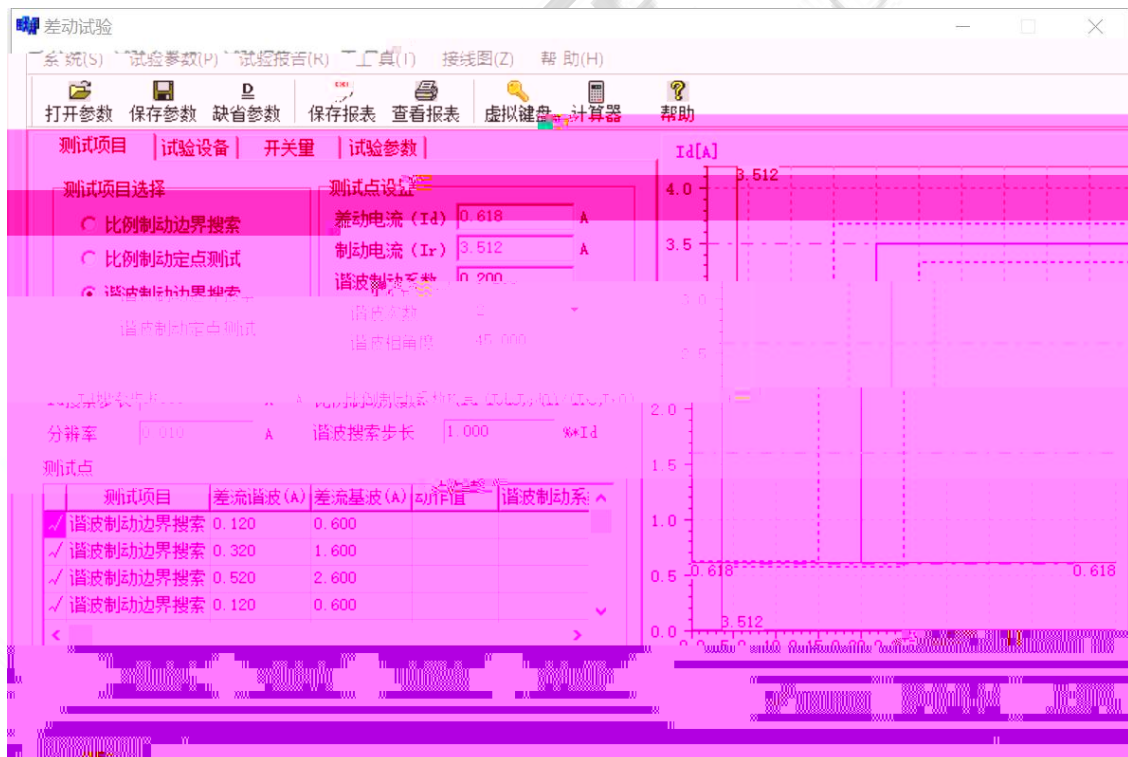
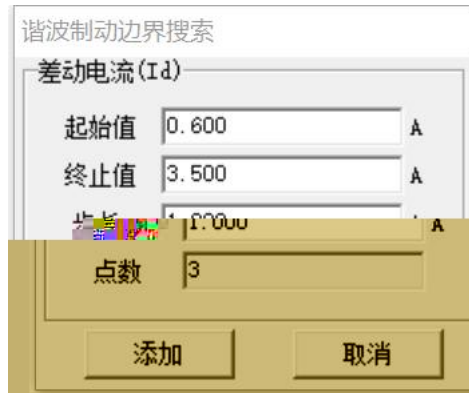
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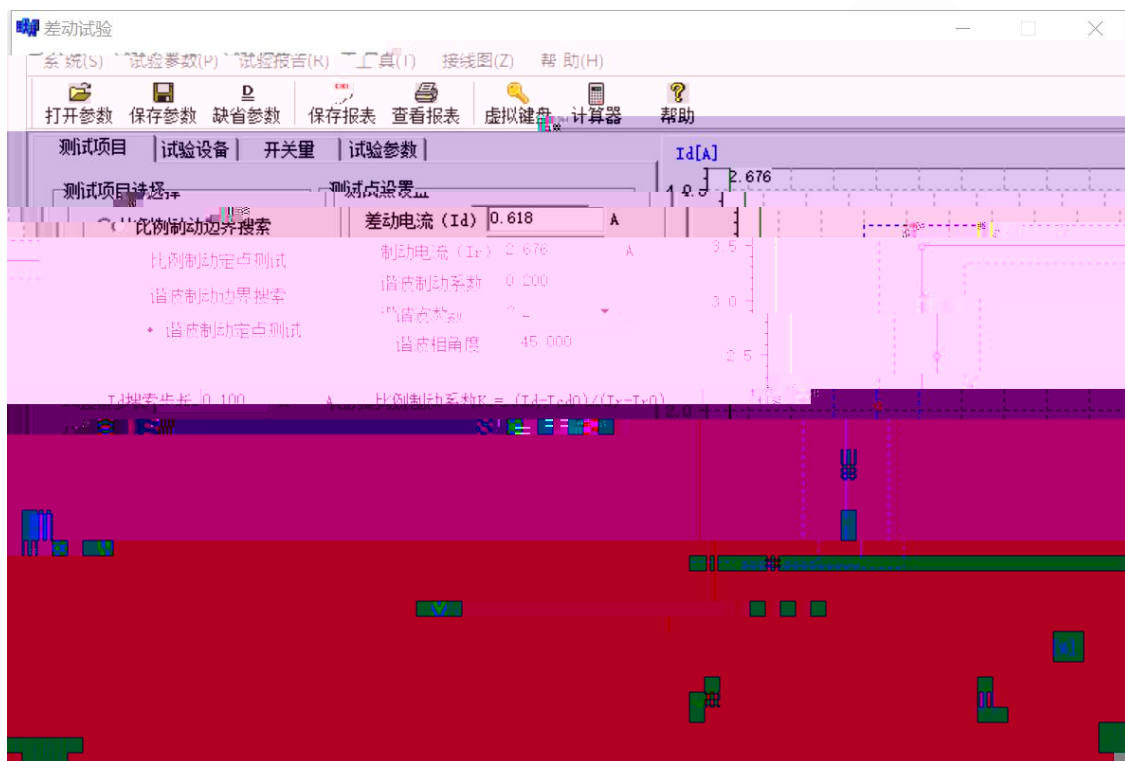
终止值 A

步长 A

点数





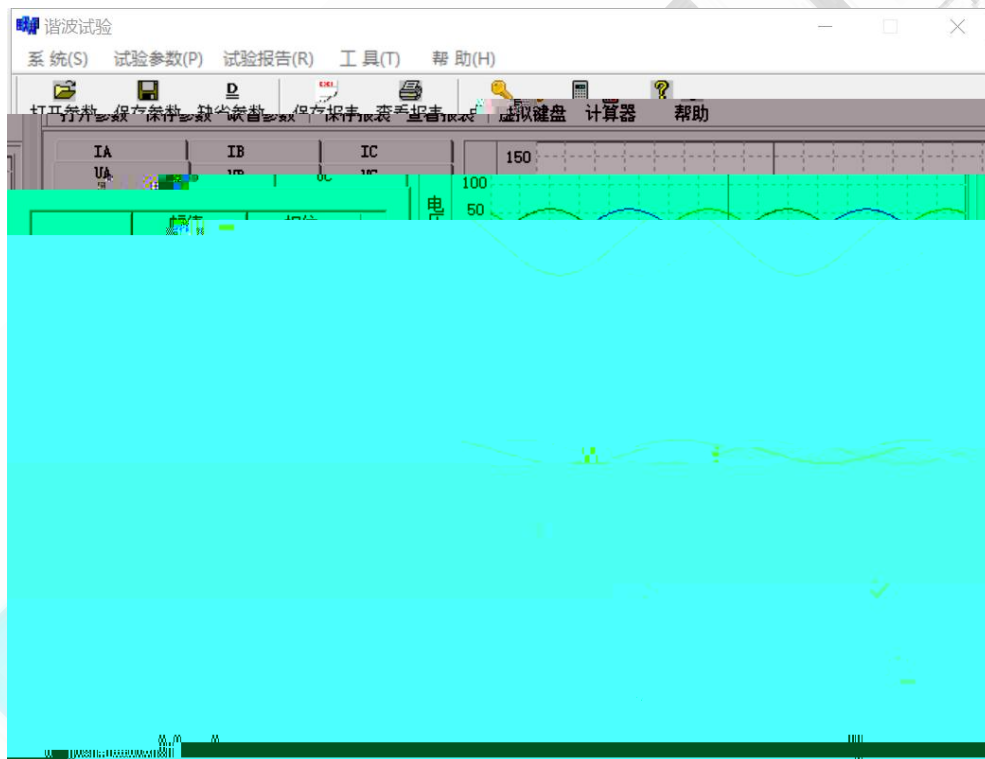


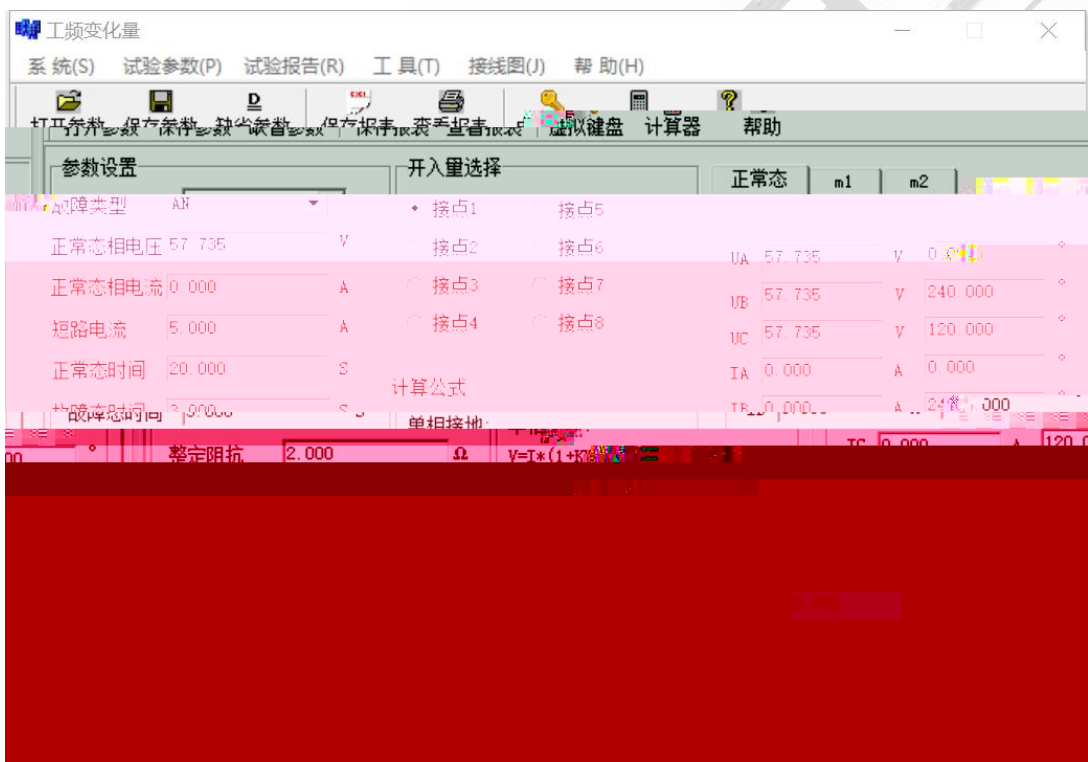


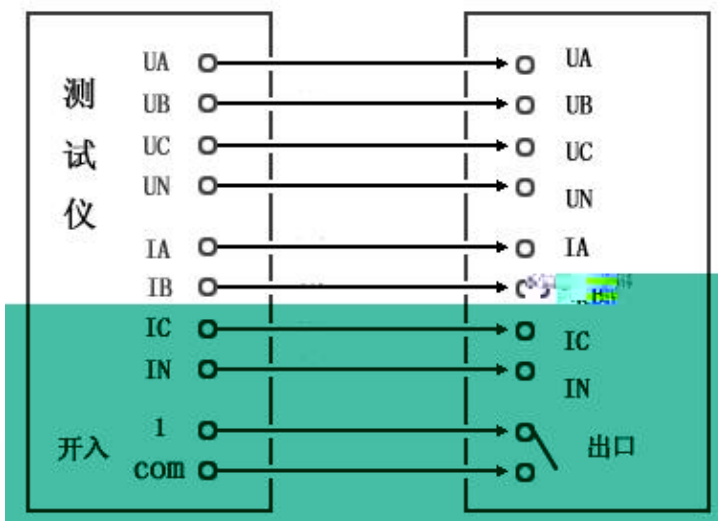
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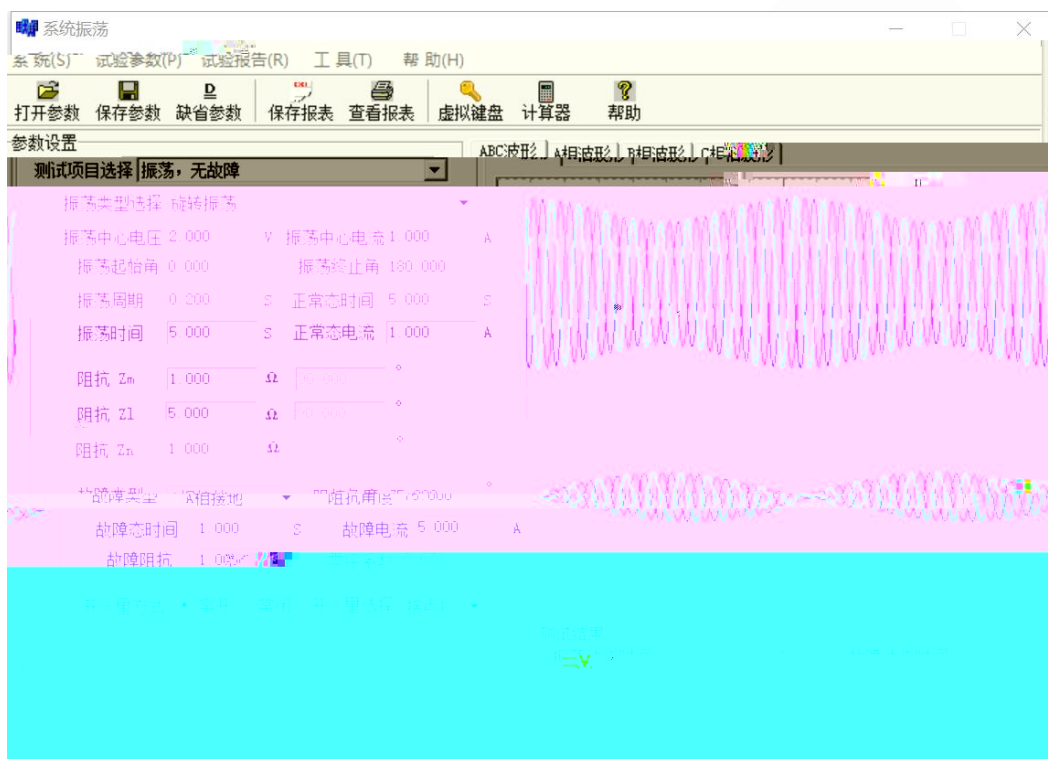
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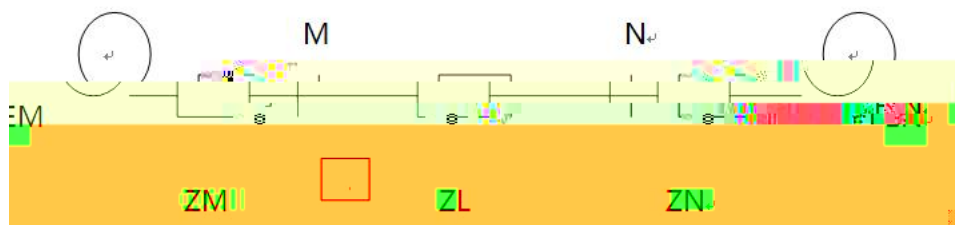




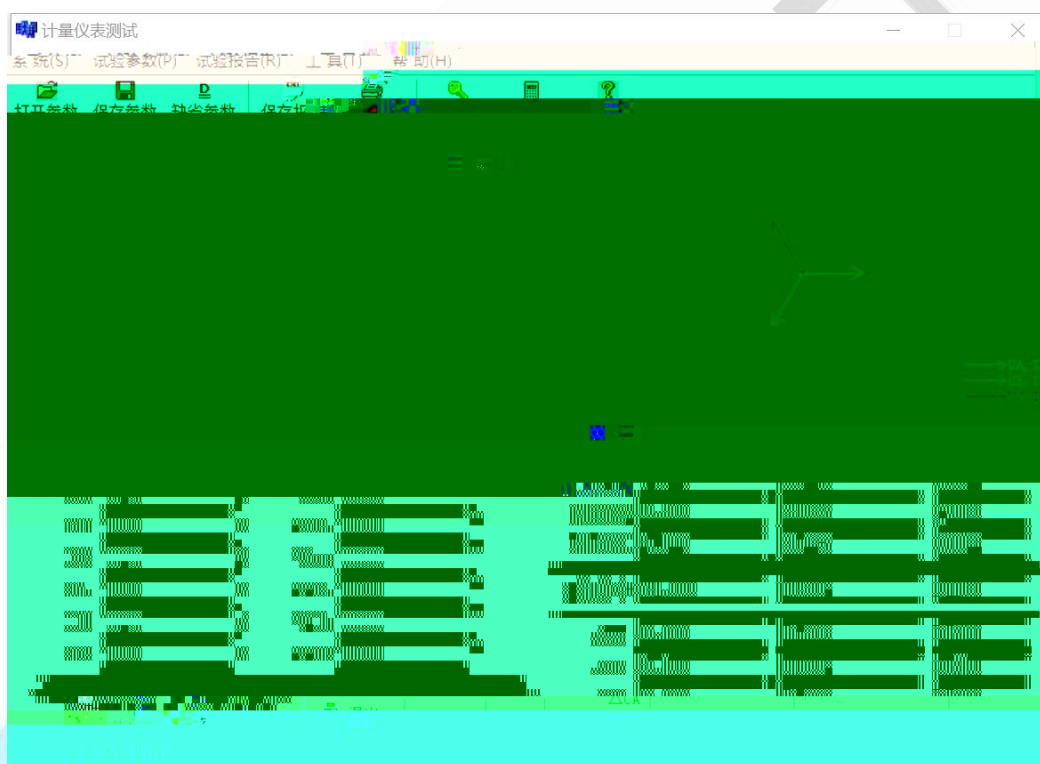


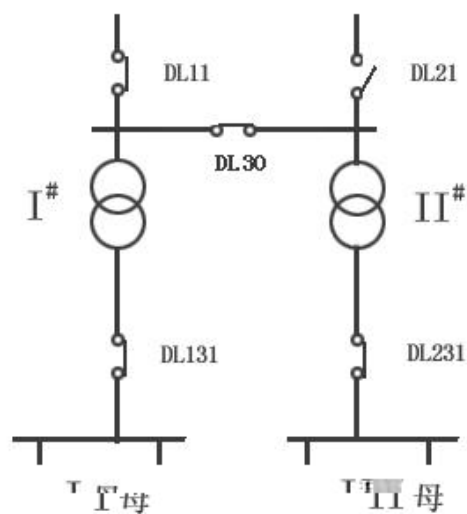
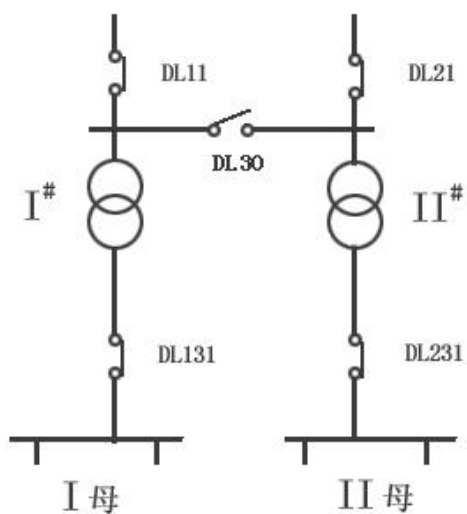
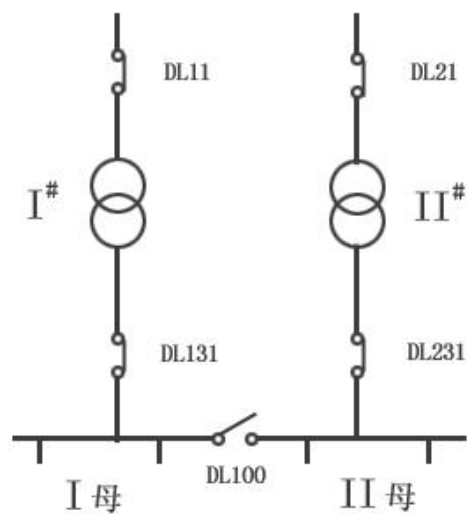
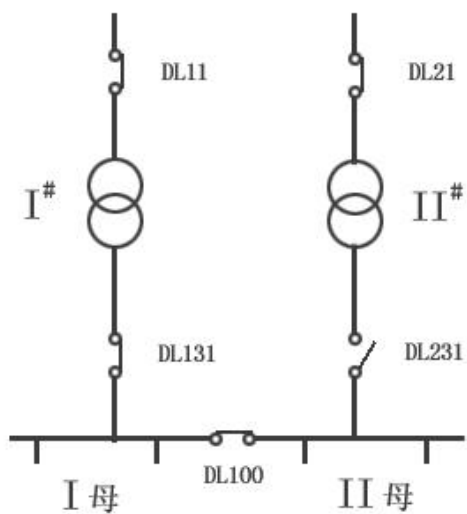






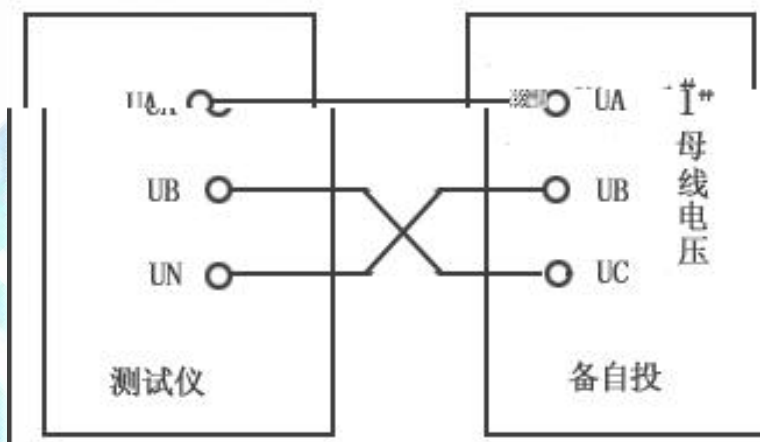
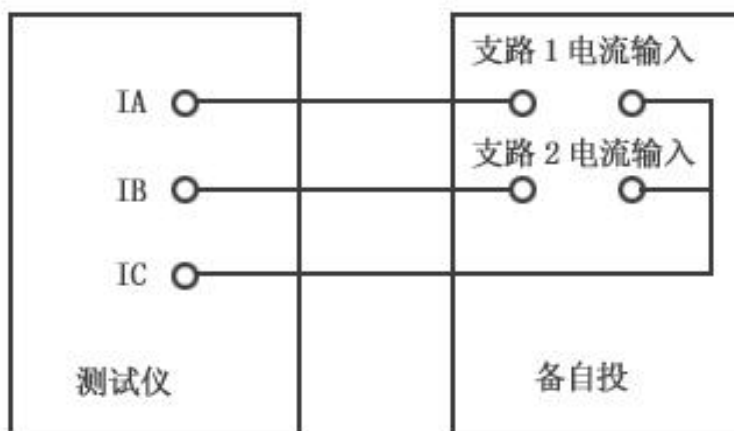
HERTZ POWER

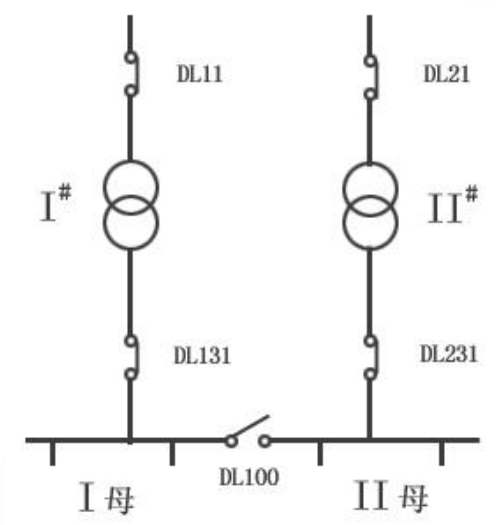






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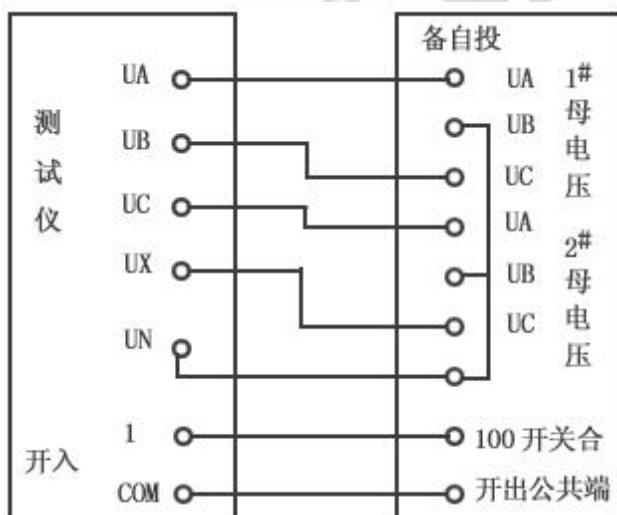


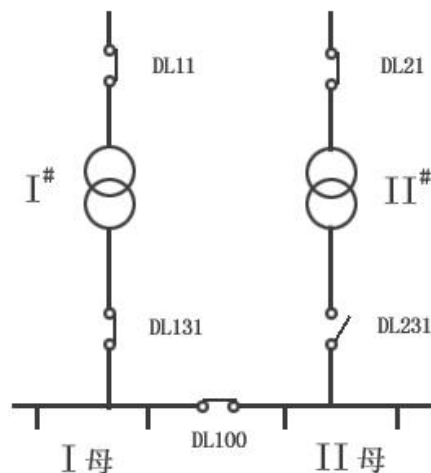


- 选中状态下的各相电压电流			
UA	100.000	V	0.000
UB	100.000	V	60.000
UC	100.000	V	0.000
UX	100.000	V	60.000
IA	2.000	A	0.000
IB	2.000	A	-120.000
IC	2.000	A	120.000
IX	0.000	A	0.000

- 选中状态下的各相电压电流			
UA	0.000	V	0.000
UB	0.000	V	60.000
UC	100.000	V	0.000
UX	100.000	V	60.000
IA	0.000	A	0.000
IB	2.000	A	-120.000
IC	0.000	A	120.000
IX	0.000	A	0.000

- 选中状态下的各相电压电流			
UA	100.000	V	0.000
UB	100.000	V	60.000
UC	100.000	V	0.000
UX	100.000	V	60.000
IA	0.000	A	0.000
IB	4.000	A	-120.000
IC	0.000	A	120.000
IX	0.000	A	0.000





- 选中状态下的各相电压电流

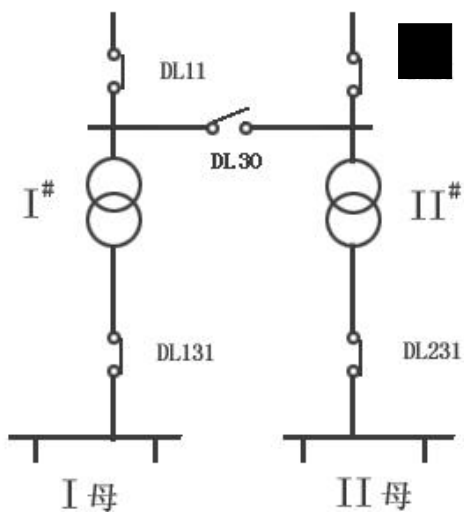
UA	100.000	V	0.000	°
UB	100.000	V	60.000	°
UC	100.000	V	0.000	°
UX	100.000	V	60.000	°
IA	2.000	A	0.000	°
IB	0.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°

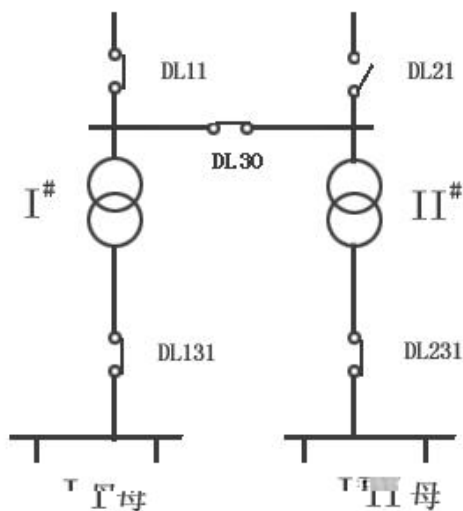
- 选中状态下的各相电压电流

UA	0.000	V	0.000	°
UB	0.000	V	60.000	°
UC	0.000	V	0.000	°
UX	0.000	V	60.000	°
IA	0.000	A	0.000	°
IB	0.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°

- 选中状态下的各相电压电流

UA	100.000	V	0.000	°
UB	100.000	V	60.000	°
UC	100.000	V	0.000	°
UX	100.000	V	60.000	°
IA	0.000	A	0.000	°
IB	2.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°





- 选中状态下的各相电压电流

UA	100.000	V	0.000	°
UB	100.000	V	60.000	°
UC	100.000	V	0.000	°
UX	100.000	V	60.000	°
IA	2.000	A	0.000	°
IB	2.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°

- 选中状态下的各相电压电流

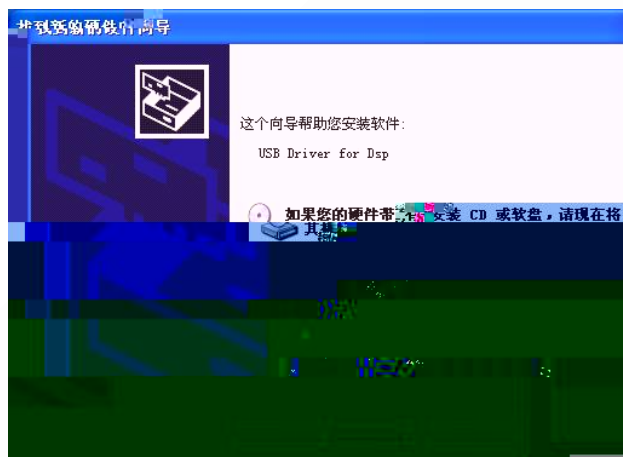
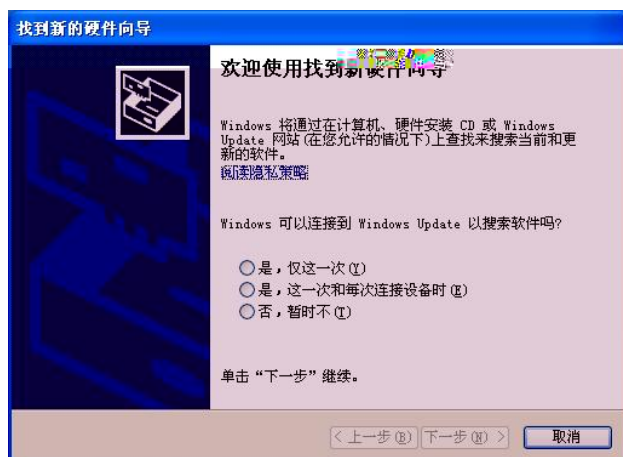
UA	0.000	V	0.000	°
UB	0.000	V	60.000	°
UC	0.000	V	0.000	°
UX	0.000	V	60.000	°
IA	0.000	A	0.000	°
IB	0.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°

- 选中状态下的各相电压电流

UA	100.000	V	0.000	°
UB	100.000	V	60.000	°
UC	100.000	V	0.000	°
UX	100.000	V	60.000	°
IA	2.000	A	0.000	°
IB	2.000	A	-120.000	°
IC	0.000	A	120.000	°
IX	0.000	A	0.000	°



赫兹电力
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