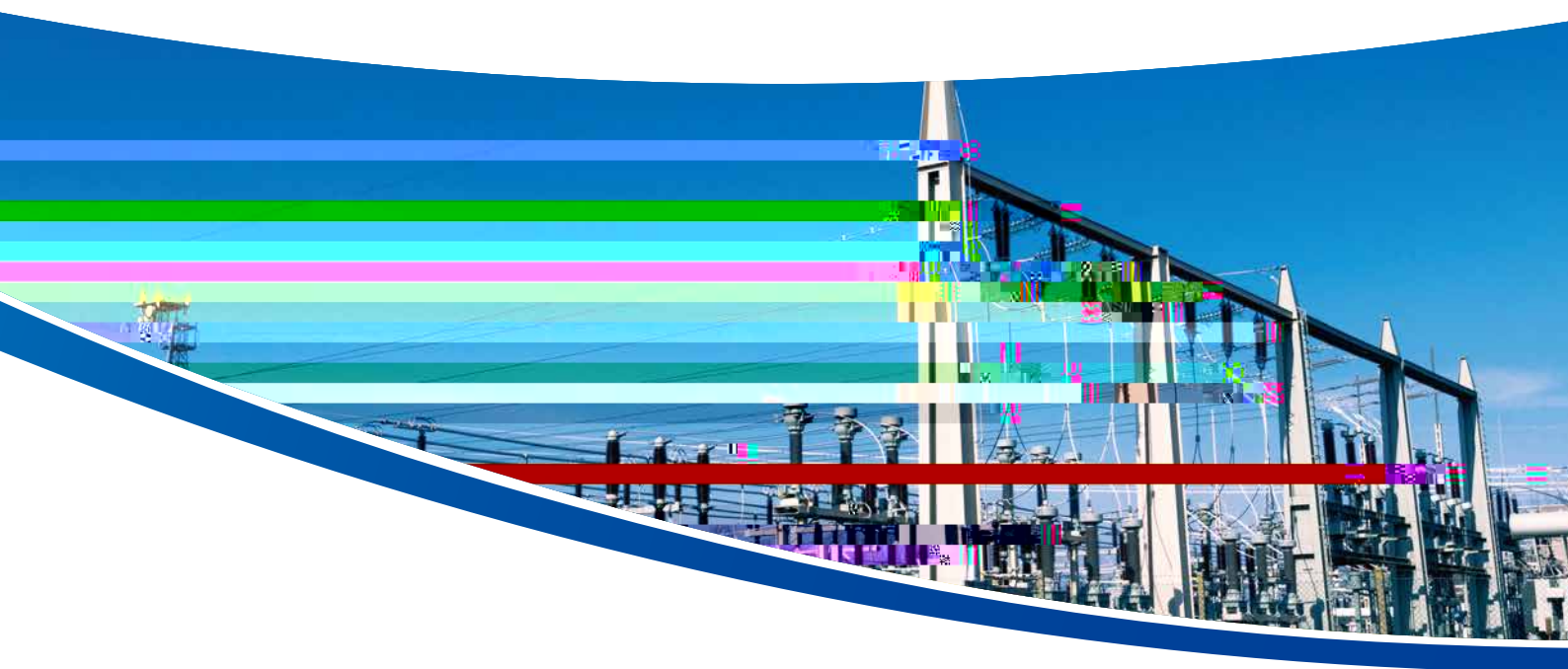




# 配电网单相接地故障一体化 解决方案

Single-Phase Earth Fault Integrated Solution

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广州智光电气技术有限公司

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Integrated Energy Technology & Service Provider

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KD-XH Type Phase-controlled Arc Suppression Coil and Line Selection System

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KD-XHTZ Type Tunable Inductance Arc Suppression Coil and Line Selection System

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ZGNGR Neutral Point Grounding Resistor Assembly

2.4 ZGMNGS  
ZGMNGS Complete Set of Equipment for Grounding with Arc Suppression Coil in Parallel with a low-resistance resistor

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3.1 + “ ”  
Application Case of Arc Suppression Coil + "Active" Line Selection in Large-scale Power-consuming Enterprises

3.2 +  
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3.2  
Typical Cooperative Users

# Single Phase Earth Fault Solution 单相接地故障一体化解决方案

## 1.1 消弧线圈+“主动式”选线方案

### ◆ 方案一:小扰动选线法(适应配套相控式消弧线圈)

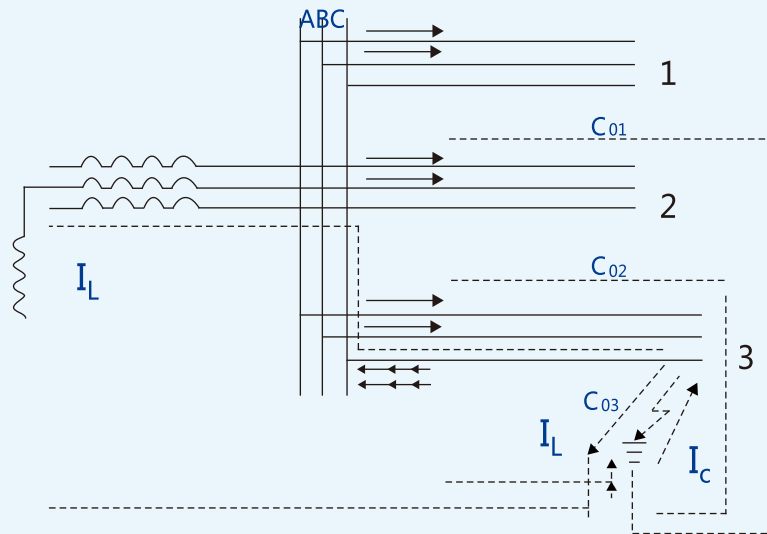
KD-XH

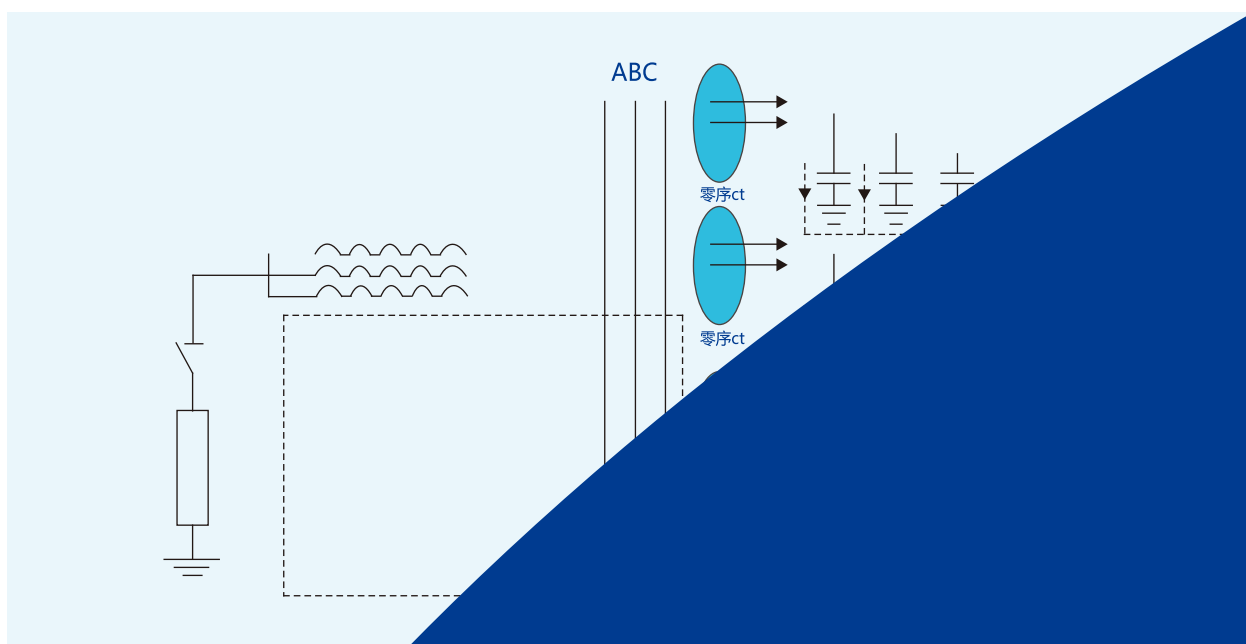
0 180

$\infty$  0

0

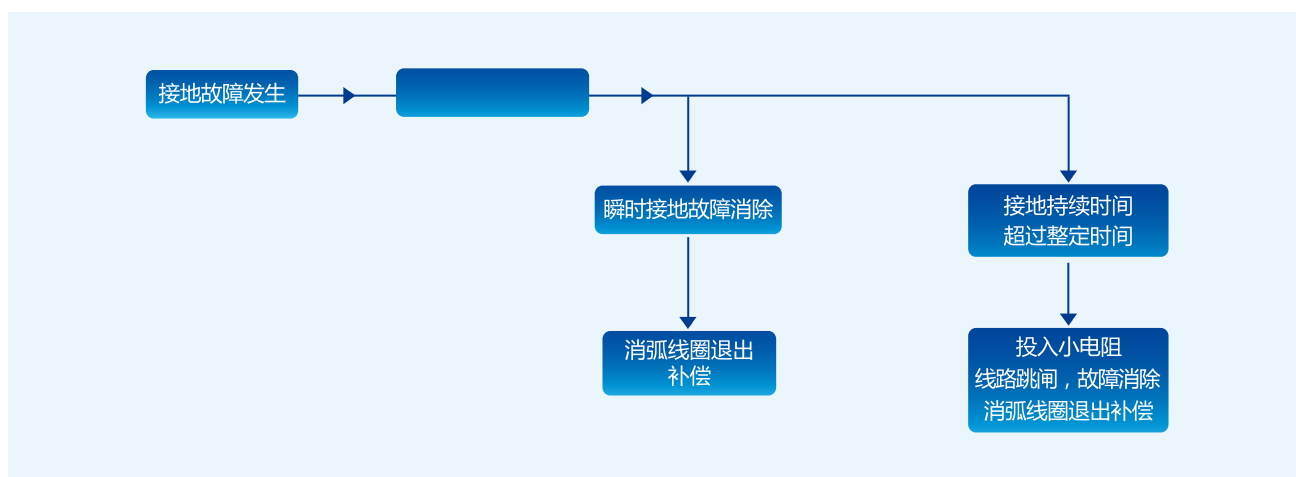
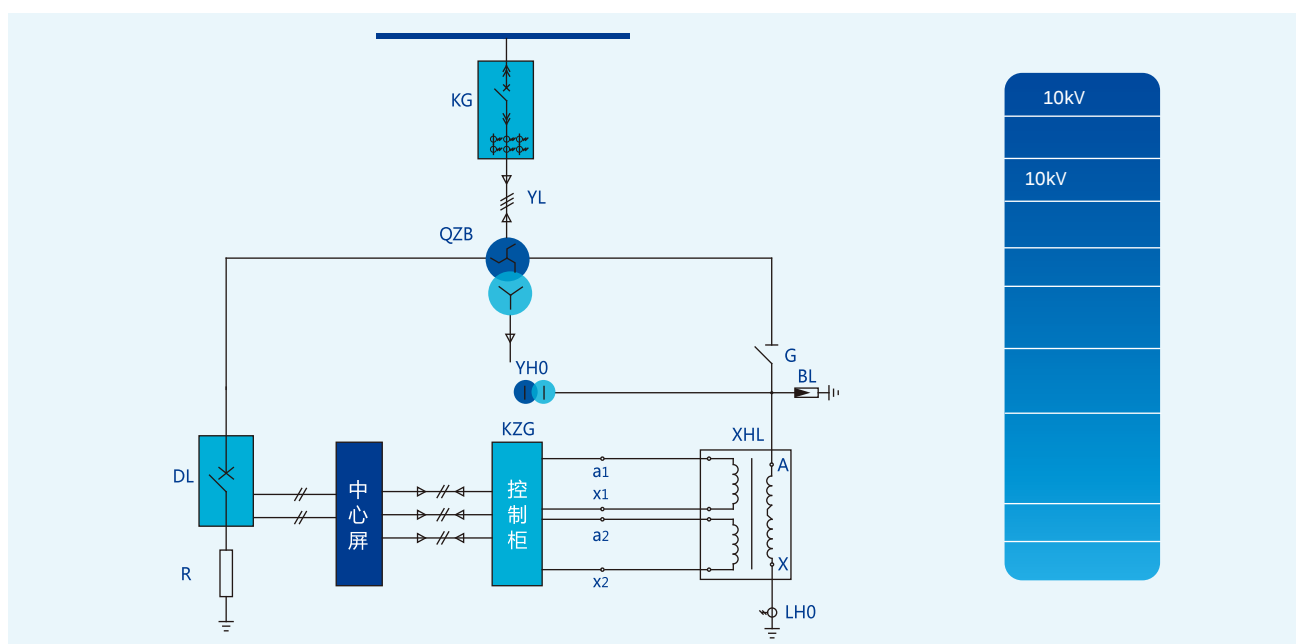
0~100%





## 1.2 消弧线圈+并联小电阻接地方案

(5ms )



# Neutral Ground Product 中性点接地产品

## 2.1 KD-XH型相控式消弧线圈及选线系统

### ◆ 产品概述

- KD-XH 型相控式消弧线圈及选线系统，采用 100% 可控硅 (SCR) 调压，实现 0-100% 连续调压，补偿精度高，运行安全可靠。
- 系统采用先进的微机控制技术，可实现自动调压、故障选线、远方操作等功能，大大减轻了运行人员的劳动强度，提高了电网的供电可靠性。



◆ 技术特点

- 0~100%
- 
- 
- 
- 

◆ 技术参数

|  | 6kV,10kV,20kV,35kV          |
|--|-----------------------------|
|  | 0~100%                      |
|  |                             |
|  | ≤ 2%                        |
|  | 500                         |
|  | 40                          |
|  |                             |
|  | RS-232 RS485, 2400~19200bps |

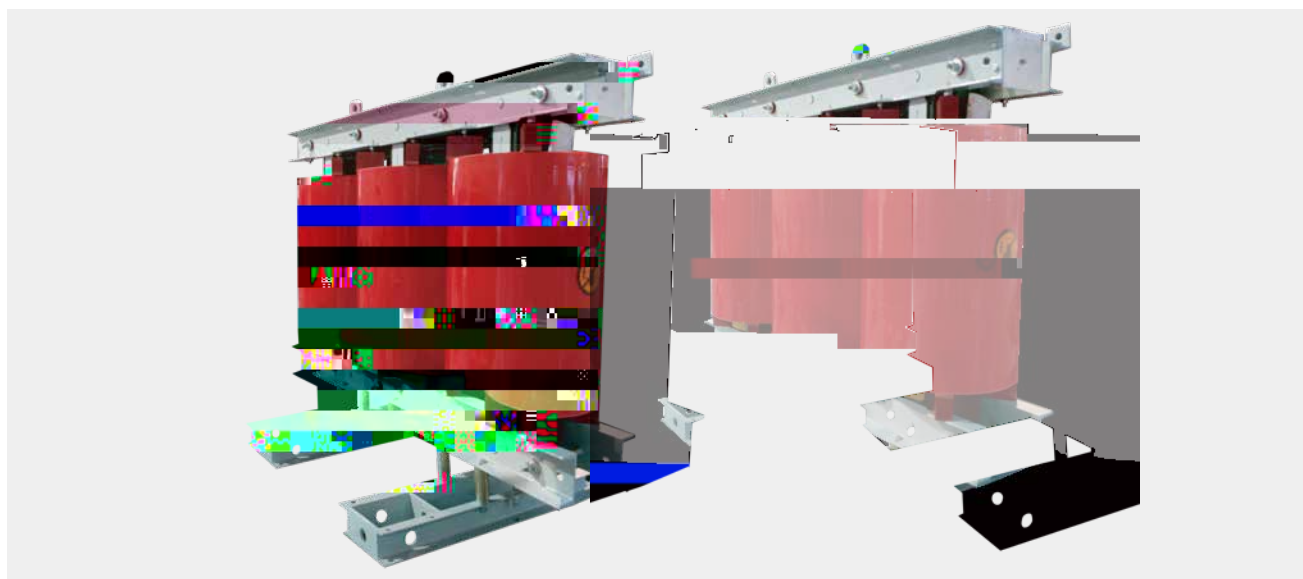


## 2.2 KD-XHTZ型调匝式消弧线圈及选线系统

### ◆ 产品概述

- KD-XHTZ

- 
- 



### ◆ 技术特点

- 
- 



◆ 技术参数

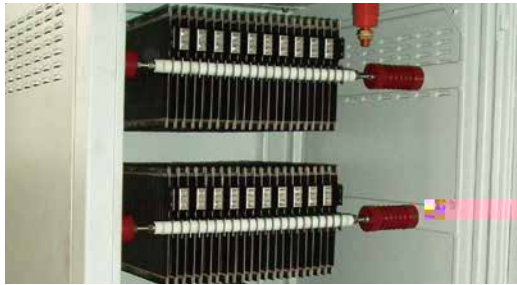
|  | 6kV 10kV 20kV 35kV         |
|--|----------------------------|
|  | 30%~100%                   |
|  | ≤ 2%                       |
|  | 500                        |
|  | 40                         |
|  | RS-232 RS485 2400~19200bps |



## 2.3 ZGNGR型中性点接地电阻成套装置

### ◆ 产品概述

- 
- ZGNGR



### ◆ 技术特点

- 700K 600K( 760K); 10s
- 1100℃ 1450℃,
- 10s 10%, ;
- 
- ;
- 6kV,10kV,20kV,35kV ,

## 2.4 ZGMNGS型消弧线圈并联小电阻接地成套装置

### ◆ 产品概述

- ZGMNGS
- ZGMNGS



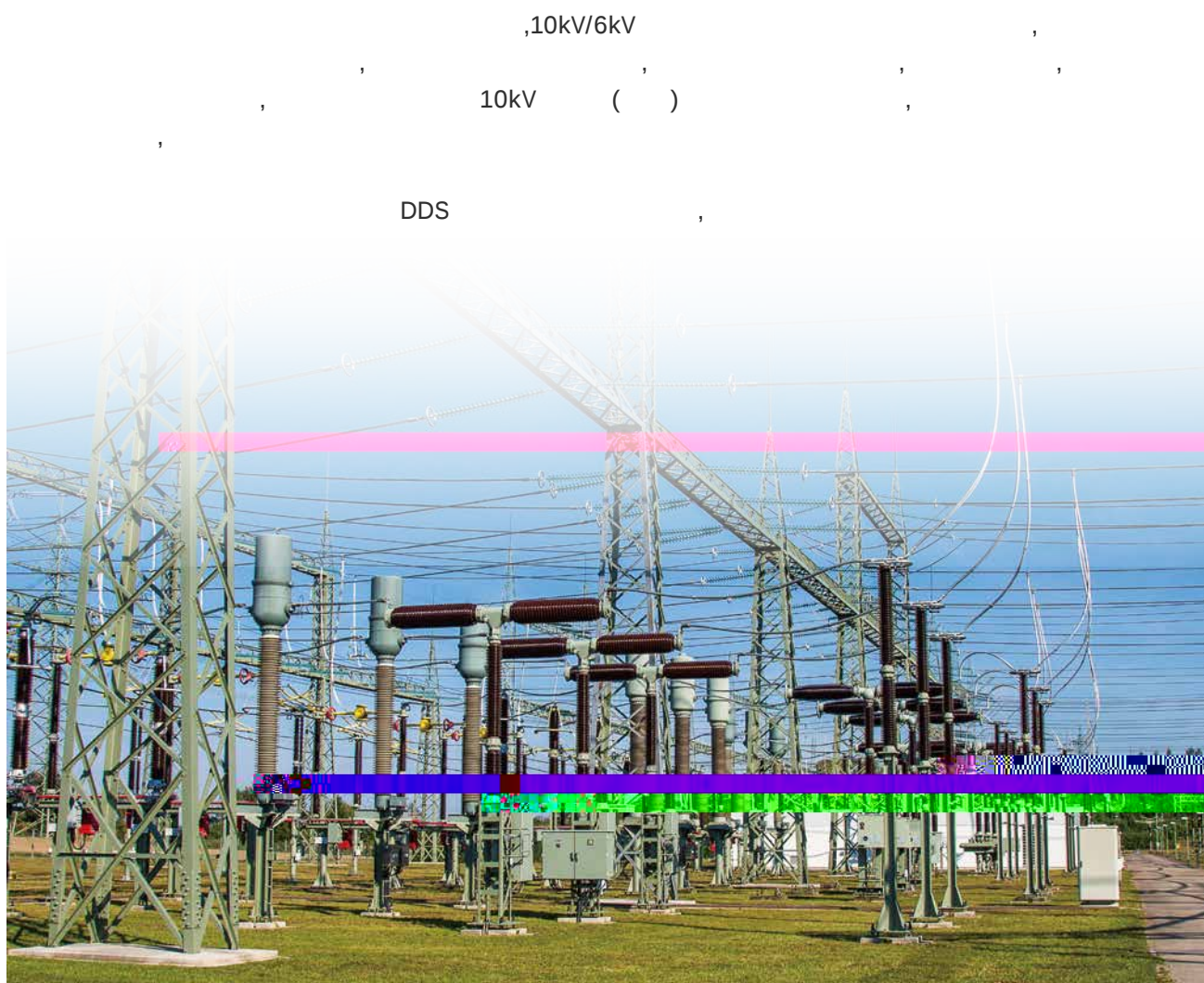
### ◆ 技术特点

- 
- 
-



# Typical Application 典型应用

## 3.1 消弧线圈+“主动式”选线大型用电企业应用案例





► 福建某炼化公司“主动式扰动法”选线实践

1# 110kV 2 110kV 6kV  
6kV  
:  
•  
;  
•  
“ + ” :  
KD-XH01-400/6.3 5 6kV (  
) 6 DDS ,

◆ 典型接地事故分析：

1. II  
II  
971.2V 1268.4V 2060.2V 679.9V  
“ II ” II  
500 10000

2. 18

18

- 12 17 12 53 49
- 12 17 13 03 45
- 3171.6V
- 35.9A
- 35.3A

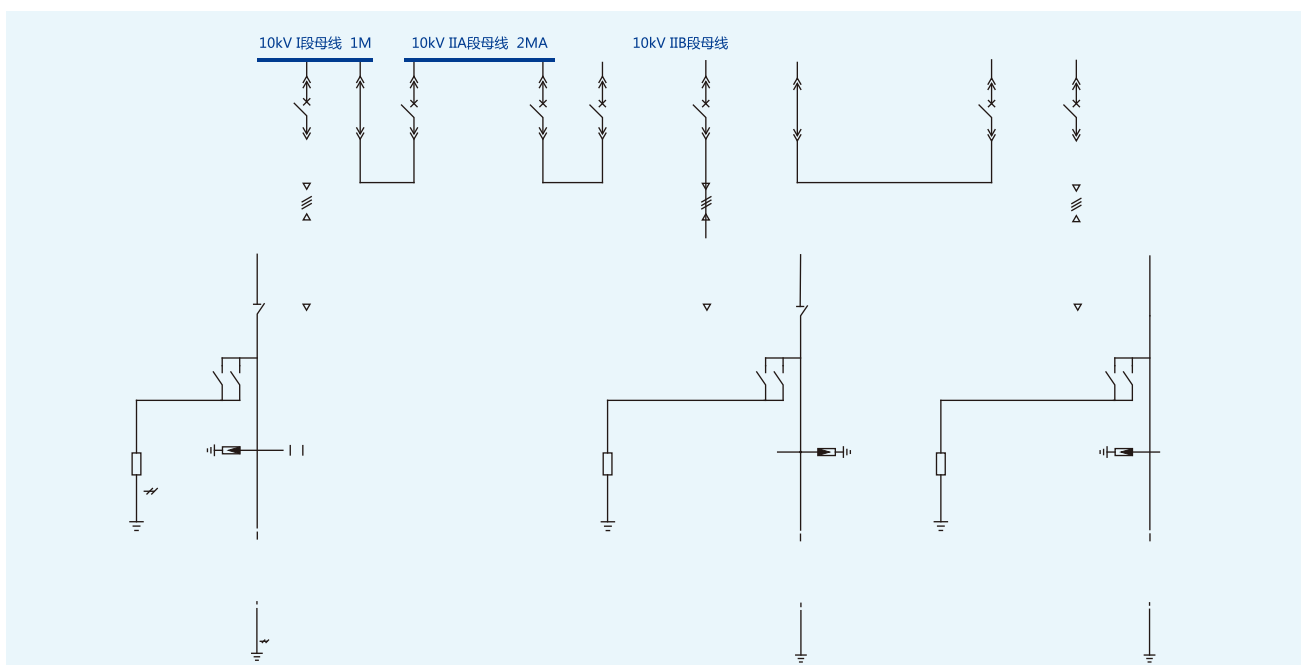
18



## 3.2 消弧线圈+并联小电阻接地 应用案例

### ► 广东某站消弧线圈接地升级改造为消弧线圈并联小电阻接地成套装置

，  
；  
， 60%；





93% , 10kV 159 10s 148 ,  
11 , 2# 9 ,3# 2 ,  
, , 10s , ,  
, , 11 , , ( 4802V), ( 1351V) , ,

► 浙江某站小电阻接地升级改造为消弧线圈并联小电阻接地成套装置

10kV 20kV , ,  
, ,  
#1 6 20kV :

| / |   |   |    |   |     |
|---|---|---|----|---|-----|
| / | 6 | 7 | 8  | 9 | 6-9 |
|   | 5 | 8 | 16 | 3 | 6   |



4

32 ,

6



## 3.3



“ ” “





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