

电气设计说明

1. 工程概况
- 1.1 工程名称：XX项目
- 1.2 工程地点：XX市XX区XX路XX号
- 1.3 建设单位：XX有限公司
- 1.4 设计单位：XX设计有限公司
2. 设计依据
- 2.1 国家现行有关标准、规范和规程
- 2.2 建设单位提供的设计资料
- 2.3 设计合同
3. 设计范围
- 3.1 本工程电气设计范围包括：变配电系统、照明系统、动力系统、防雷接地系统、弱电系统等。
- 3.2 本工程电气设计不包括：通信系统、广播系统、电视系统等。
4. 设计原则
- 4.1 安全可靠、技术先进、经济合理、节能环保。
- 4.2 满足国家现行标准、规范和规程的要求。
- 4.3 满足建设单位的要求。
5. 主要设备选型
- 5.1 变压器：选用S11-M型，容量为1000kVA，电压等级为10/0.4kV。
- 5.2 断路器：选用VMX-12.5kV，额定电流为1250A。
- 5.3 隔离开关：选用GW16-12.5kV，额定电流为1250A。
- 5.4 熔断器：选用RL1-12.5kV，额定电流为125A。
- 5.5 低压断路器：选用DZ47-60A，额定电流为60A。
- 5.6 低压断路器：选用DZ47-100A，额定电流为100A。
- 5.7 低压断路器：选用DZ47-160A，额定电流为160A。
- 5.8 低压断路器：选用DZ47-250A，额定电流为250A。
- 5.9 低压断路器：选用DZ47-400A，额定电流为400A。
- 5.10 低压断路器：选用DZ47-630A，额定电流为630A。
- 5.11 低压断路器：选用DZ47-1000A，额定电流为1000A。
- 5.12 低压断路器：选用DZ47-1600A，额定电流为1600A。
- 5.13 低压断路器：选用DZ47-2500A，额定电流为2500A。
- 5.14 低压断路器：选用DZ47-4000A，额定电流为4000A。
- 5.15 低压断路器：选用DZ47-6300A，额定电流为6300A。
- 5.16 低压断路器：选用DZ47-10000A，额定电流为10000A。
- 5.17 低压断路器：选用DZ47-16000A，额定电流为16000A。
- 5.18 低压断路器：选用DZ47-25000A，额定电流为25000A。
- 5.19 低压断路器：选用DZ47-40000A，额定电流为40000A。
- 5.20 低压断路器：选用DZ47-63000A，额定电流为63000A。
- 5.21 低压断路器：选用DZ47-100000A，额定电流为100000A。
- 5.22 低压断路器：选用DZ47-160000A，额定电流为160000A。
- 5.23 低压断路器：选用DZ47-250000A，额定电流为250000A。
- 5.24 低压断路器：选用DZ47-400000A，额定电流为400000A。
- 5.25 低压断路器：选用DZ47-630000A，额定电流为630000A。
- 5.26 低压断路器：选用DZ47-1000000A，额定电流为1000000A。
- 5.27 低压断路器：选用DZ47-1600000A，额定电流为1600000A。
- 5.28 低压断路器：选用DZ47-2500000A，额定电流为2500000A。
- 5.29 低压断路器：选用DZ47-4000000A，额定电流为4000000A。
- 5.30 低压断路器：选用DZ47-6300000A，额定电流为6300000A。
- 5.31 低压断路器：选用DZ47-10000000A，额定电流为10000000A。
- 5.32 低压断路器：选用DZ47-16000000A，额定电流为16000000A。
- 5.33 低压断路器：选用DZ47-25000000A，额定电流为25000000A。
- 5.34 低压断路器：选用DZ47-40000000A，额定电流为40000000A。
- 5.35 低压断路器：选用DZ47-63000000A，额定电流为63000000A。
- 5.36 低压断路器：选用DZ47-100000000A，额定电流为100000000A。
- 5.37 低压断路器：选用DZ47-160000000A，额定电流为160000000A。
- 5.38 低压断路器：选用DZ47-250000000A，额定电流为250000000A。
- 5.39 低压断路器：选用DZ47-400000000A，额定电流为400000000A。
- 5.40 低压断路器：选用DZ47-630000000A，额定电流为630000000A。
- 5.41 低压断路器：选用DZ47-1000000000A，额定电流为1000000000A。
- 5.42 低压断路器：选用DZ47-1600000000A，额定电流为1600000000A。
- 5.43 低压断路器：选用DZ47-2500000000A，额定电流为2500000000A。
- 5.44 低压断路器：选用DZ47-4000000000A，额定电流为4000000000A。
- 5.45 低压断路器：选用DZ47-6300000000A，额定电流为6300000000A。
- 5.46 低压断路器：选用DZ47-10000000000A，额定电流为10000000000A。
- 5.47 低压断路器：选用DZ47-16000000000A，额定电流为16000000000A。
- 5.48 低压断路器：选用DZ47-25000000000A，额定电流为25000000000A。
- 5.49 低压断路器：选用DZ47-40000000000A，额定电流为40000000000A。
- 5.50 低压断路器：选用DZ47-63000000000A，额定电流为63000000000A。
- 5.51 低压断路器：选用DZ47-100000000000A，额定电流为100000000000A。
- 5.52 低压断路器：选用DZ47-160000000000A，额定电流为160000000000A。
- 5.53 低压断路器：选用DZ47-250000000000A，额定电流为250000000000A。
- 5.54 低压断路器：选用DZ47-400000000000A，额定电流为400000000000A。
- 5.55 低压断路器：选用DZ47-630000000000A，额定电流为630000000000A。
- 5.56 低压断路器：选用DZ47-1000000000000A，额定电流为1000000000000A。
- 5.57 低压断路器：选用DZ47-1600000000000A，额定电流为1600000000000A。
- 5.58 低压断路器：选用DZ47-2500000000000A，额定电流为2500000000000A。
- 5.59 低压断路器：选用DZ47-4000000000000A，额定电流为4000000000000A。
- 5.60 低压断路器：选用DZ47-6300000000000A，额定电流为6300000000000A。
- 5.61 低压断路器：选用DZ47-10000000000000A，额定电流为10000000000000A。
- 5.62 低压断路器：选用DZ47-16000000000000A，额定电流为16000000000000A。
- 5.63 低压断路器：选用DZ47-25000000000000A，额定电流为25000000000000A。
- 5.64 低压断路器：选用DZ47-40000000000000A，额定电流为40000000000000A。
- 5.65 低压断路器：选用DZ47-63000000000000A，额定电流为63000000000000A。
- 5.66 低压断路器：选用DZ47-100000000000000A，额定电流为100000000000000A。
- 5.67 低压断路器：选用DZ47-160000000000000A，额定电流为160000000000000A。
- 5.68 低压断路器：选用DZ47-250000000000000A，额定电流为250000000000000A。
- 5.69 低压断路器：选用DZ47-400000000000000A，额定电流为400000000000000A。
- 5.70 低压断路器：选用DZ47-630000000000000A，额定电流为630000000000000A。
- 5.71 低压断路器：选用DZ47-1000000000000000A，额定电流为1000000000000000A。
- 5.72 低压断路器：选用DZ47-1600000000000000A，额定电流为1600000000000000A。
- 5.73 低压断路器：选用DZ47-2500000000000000A，额定电流为2500000000000000A。
- 5.74 低压断路器：选用DZ47-4000000000000000A，额定电流为4000000000000000A。
- 5.75 低压断路器：选用DZ47-6300000000000000A，额定电流为6300000000000000A。
- 5.76 低压断路器：选用DZ47-10000000000000000A，额定电流为10000000000000000A。
- 5.77 低压断路器：选用DZ47-16000000000000000A，额定电流为16000000000000000A。
- 5.78 低压断路器：选用DZ47-25000000000000000A，额定电流为25000000000000000A。
- 5.79 低压断路器：选用DZ47-40000000000000000A，额定电流为40000000000000000A。
- 5.80 低压断路器：选用DZ47-63000000000000000A，额定电流为63000000000000000A。
- 5.81 低压断路器：选用DZ47-100000000000000000A，额定电流为100000000000000000A。
- 5.82 低压断路器：选用DZ47-160000000000000000A，额定电流为160000000000000000A。
- 5.83 低压断路器：选用DZ47-250000000000000000A，额定电流为250000000000000000A。
- 5.84 低压断路器：选用DZ47-400000000000000000A，额定电流为400000000000000000A。
- 5.85 低压断路器：选用DZ47-630000000000000000A，额定电流为630000000000000000A。
- 5.86 低压断路器：选用DZ47-1000000000000000000A，额定电流为1000000000000000000A。
- 5.87 低压断路器：选用DZ47-1600000000000000000A，额定电流为1600000000000000000A。
- 5.88 低压断路器：选用DZ47-2500000000000000000A，额定电流为2500000000000000000A。
- 5.89 低压断路器：选用DZ47-4000000000000000000A，额定电流为4000000000000000000A。
- 5.90 低压断路器：选用DZ47-6300000000000000000A，额定电流为6300000000000000000A。
- 5.91 低压断路器：选用DZ47-10000000000000000000A，额定电流为10000000000000000000A。
- 5.92 低压断路器：选用DZ47-16000000000000000000A，额定电流为16000000000000000000A。
- 5.93 低压断路器：选用DZ47-25000000000000000000A，额定电流为25000000000000000000A。
- 5.94 低压断路器：选用DZ47-40000000000000000000A，额定电流为40000000000000000000A。
- 5.95 低压断路器：选用DZ47-63000000000000000000A，额定电流为63000000000000000000A。
- 5.96 低压断路器：选用DZ47-100000000000000000000A，额定电流为100000000000000000000A。
- 5.97 低压断路器：选用DZ47-160000000000000000000A，额定电流为160000000000000000000A。
- 5.98 低压断路器：选用DZ47-250000000000000000000A，额定电流为250000000000000000000A。
- 5.99 低压断路器：选用DZ47-400000000000000000000A，额定电流为400000000000000000000A。
- 5.100 低压断路器：选用DZ47-630000000000000000000A，额定电流为630000000000000000000A。

序号	名称	规格	单位	数量
1	变压器	10/0.4kV, 1000kVA	台	1
2	断路器	12.5kV, 1250A	台	2
3	隔离开关	12.5kV, 1250A	台	4
4	熔断器	12.5kV, 125A	台	8
5	低压断路器	60A, 100A, 160A, 250A, 400A, 630A, 1000A, 1600A, 2500A, 4000A, 6300A, 10000A, 16000A, 25000A, 40000A, 63000A, 100000A, 160000A, 250000A, 400000A, 630000A, 1000000A, 1600000A, 2500000A, 4000000A, 6300000A, 10000000A, 16000000A, 25000000A, 40000000A, 63000000A, 100000000A, 160000000A, 250000000A, 400000000A, 630000000A, 1000000000A, 1600000000A, 2500000000A, 4000000000A, 6300000000A, 10000000000A, 16000000000A, 25000000000A, 40000000000A, 63000000000A, 100000000000A, 160000000000A, 250000000000A, 400000000000A, 630000000000A, 1000000000000A, 1600000000000A, 2500000000000A, 4000000000000A, 6300000000000A, 10000000000000A, 16000000000000A, 25000000000000A, 40000000000000A, 63000000000000A, 100000000000000A, 160000000000000A, 250000000000000A, 400000000000000A, 630000000000000A, 1000000000000000A, 1600000000000000A, 2500000000000000A, 4000000000000000A, 6300000000000000A, 10000000000000000A, 16000000000000000A, 25000000000000000A, 40000000000000000A, 63000000000000000A, 100000000000000000A, 160000000000000000A, 250000000000000000A, 400000000000000000A, 630000000000000000A, 1000000000000000000A, 1600000000000000000A, 2500000000000000000A, 4000000000000000000A, 6300000000000000000A, 10000000000000000000A, 16000000000000000000A, 25000000000000000000A, 40000000000000000000A, 63000000000000000000A, 100000000000000000000A, 160000000000000000000A, 250000000000000000000A, 400000000000000000000A, 630000000000000000000A, 1000000000000000000000A, 1600000000000000000000A, 2500000000000000000000A, 4000000000000000000000A, 6300000000000000000000A, 10000000000000000000000A, 16000000000000000000000A, 25000000000000000000000A, 40000000000000000000000A, 63000000000000000000000A, 100000000000000000000000A, 160000000000000000000000A, 250000000000000000000000A, 400000000000000000000000A, 630000000000000000000000A, 1000000000000000000000000A, 1600000000000000000000000A, 2500000000000000000000000A, 4000000000000000000000000A, 6300000000000000000000000A, 10000000000000000000000000A, 16000000000000000000000000A, 25000000000000000000000000A, 40000000000000000000000000A, 63000000000000000000000000A, 100000000000000000000000000A, 160000000000000000000000000A, 250000000000000000000000000A, 400000000000000000000000000A, 630000000000000000000000000A, 1000000000000000000000000000A, 1600000000000000000000000000A, 2500000000000000000000000000A, 4000000000000000000000000000A, 6300000000000000000000000000A, 10000000000000000000000000000A, 16000000000000000000000000000A, 25000000000000000000000000000A, 40000000000000000000000000000A, 63000000000000000000000000000A, 100000000000000000000000000000A, 160000000000000000000000000000A, 250000000000000000000000000000A, 400000000000000000000000000000A, 630000000000000000000000000000A, 1000000000000000000000000000000A, 1600000000000000000000000000000A, 2500000000000000000000000000000A, 4000000000000000000000000000000A, 6300000000000000000000000000000A, 10000000000000000000000000000000A, 16000000000000000000000000000000A, 25000000000000000000000000000000A, 40000000000000000000000000000000A, 63000000000000000000000000000000A, 100000000000000000000000000000000A, 160000000000000000000000000000000A, 250000000000000000000000000000000A, 400000000000000000000000000000000A, 630000000000000000000000000000000A, 1000000000000000000000000000000000A, 1600000000000000000000000000000000A, 2500000000000000000000000000000000A, 4000000000000000000000000000000000A, 6300000000000000000000000000000000A, 10000000000000000000000000000000000A, 16000000000000000000000000000000000A, 25000000000000000000000000000000000A, 40000000000000000000000000000000000A, 63000000000000000000000000000000000A, 100000000000000000000000000000000000A, 160000000000000000000000000000000000A, 250000000000000000000000000000000000A, 400000000000000000000000000000000000A, 630000000000000000000000000000000000A, 1000000000000000000000000000000000000A, 1600000000000000000000000000000000000A, 2500000000000000000000000000000000000A, 4000000000000000000000000000000000000A, 6300000000000000000000000000000000000A, 10000000000000000000000000000000000000A, 16000000000000000000000000000000000000A, 25000000000000000000000000000000000000A, 40000000000000000000000000000000000000A, 63000000000000000000000000000000000000A, 100000000000000000000000000000000000000A, 160000000000000000000000000000000000000A, 250000000000000000000000000000000000000A, 400000000000000000000000000000000000000A, 630000000000000000000000000000000000000A, 1000000000000000000000000000000000000000A, 1600000000000000000000000000000000000000A, 2500000000000000000000000000000000000000A, 4000000000000000000000000000000000000000A, 6300000000000000000000000000000000000000A, 100A, 16000000000000000000000000000000000000000A, 25000000000000000000000000000000000000000A, 400A, 63000000000000000000000000000000000000000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A, 25000A, 400A, 63000A, 1000A, 1600A, 2500A, 4000A, 6300A, 100A, 16000A		