



直流工程中400 kV 交流金属氧化物避雷器
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摘要: 为了满足云广直流工程楚雄换流站孤岛运行方式, 依据系统对避雷器工频耐受的要求, 对400 kV MOA短时工频耐受能力进行了研究。通过试验验证, 采用高性能电阻片, 避雷器具有耐受 $1.25 U_T$ 过电压0.5 s的能力。同时证明了避雷器的工频耐受能力有较大的裕度, 避雷器具有耐受 $1.27 U_T$ 过电压2 s的能力, 并且具有重复性。

关键词: 直流工程; 孤岛运行方式; 金属氧化物避雷器; 短时工频耐受

Research on Short-time Power Frequency Tolerance of
400 kV AC MOA in DC Projects

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Abstract: Based on the requirement of arrester's power frequency tolerance, research on short-time power frequency tolerance of 400 kV MOA has been carried out in order to meet the island operation of Chuxiong converter station in Yun-Guang±800 kV DC Project. It is proved that the arrester has ability of abiding overvoltage about $1.25 U_T$ for 0.5 s to the high performance resistance slice. And the experiments also proved that the power frequency tolerance can be up to $1.27 U_T$ for 2 s, and it is repeatable.

Key words: DC project; island operation; MOA; short-time power frequency tolerance

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