

고온초전도 전류제한기의 초기사고전류 제한시점 분석

박충렬, 두호익, 두승규, 김용진, 김민주, 조용선*, 최효상*, 한병성
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Analysis of the Initial Fault Current Limiting Point of the SFCLs

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Abstract : The superconducting fault current limiter(SFCL) can be used to limit fault current level in electrical transmission line and power system. Up to now, there are several kinds of SFCL that have proposed and it is expects that they will be applied to appropriated position considering their own properties; initial fault current limiting instant and the current limiting characteristics. In this paper, we investigated the initial fault current limiting instant and the amplitude of initial fault current in the resistive type, the flux-lock type, the flux-coupling type and the transformer type SFCL. Experiment results show that the initial fault current limiting instant and the amplitude of initial fault current of the SFCLs are dependant on the ratio of inductance of primary and secondary coils.

Key Words : superconducting fault current limiter, initial fault current limiting instant, amplitude of initial fault current.

감사의 글

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