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Design and verification test of a flux-coupling type superconducting fault current limiter

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Superconducting fault current limiters (SFCLs) are considered as one of the most technical potentials to limit fault current levels, for that they can suppress fault currents without adding impedance to the circuit during normal operation. In this paper, a small-scale test prototype of the flux-coupling type SFCL (FC-SFCL) is designed and fabricated, and a series of experimental tests are carried out. From the demonstrated experimental results, the FC-SFCL prototype is able to effectively suppress the fault current's steady value to a lower level, and the operation overvoltage is not induced during the current-limiting process.

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