



MT 26
International Conference
on Magnet Technology
Vancouver, Canada | 2019

Contribution ID: 1485

Type: **Poster Presentation**

Mon-Af-Po1.23-09 [118]: Fault Current Limiting Characteristics of Three Phase Transformer Type Superconducting Fault Current Limiter using Two Insulated Secondary Circuits

Monday 23 September 2019 14:30 (2 hours)

This paper is a the fault current limiting characteristics of superconducting fault current limiter due to three phase ground fault in power system.

In this system, two superconducting elements are connected to a-phase and c-phase respectively, and a transformer type superconducting fault current limiter is proposed to limit the fault current in case of a ground faults.

In order to measure the fault current limiting characteristics of the proposed superconducting fault current limiter, b and c phases were connected and short - circuit simulations were carried out using the quench characteristics of the superconducting elements.

we compared and analyzed the peak current and the instantaneous power load characteristics with the integrated three phase superconducting fault current limiter.

Author: Prof. HAN, Tae-Hee (Jungwon University)

Co-authors: Prof. LEE, Shin-Won (Jungwon University); Prof. LIM, Sung-Hun (Soongsil University); Prof. KO, Seok -Cheol (Kongju National University)

Presenter: Prof. HAN, Tae-Hee (Jungwon University)

Session Classification: Mon-Af-Po1.23 - Transformers