

## The Response of LCC to DC System Faults and HVDC Re-Establishment

**Authors :** Mesbah Tarek, Kelaiaia Samia, Chiheb Sofien, Kelaiaia Mounia Samira, Labar Hocine

**Abstract :** As every power systems short circuit failure can occur for HVDC at the DC link. So, the power devices should be protected against over heat produced by this over-current. This can be achieved through the power switchers or fast breaker. After short circuit the system is unable to restart, only after a time delay, because of the potential distribution along the DC link line. An appropriate fast and safety control is proposed and tested successfully. The detailed development and discussion of these faults is presented in this paper.

**Keywords :** HVDC, DC link, switchers, short circuit, faults

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