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Wed-Af-Po3.22-06 [84]: Numerical study of the performance of HTS switch under perpendicular magnetic field

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HTS switch is a critical component for many HTS applications such as flux pumps, fault current limiters. The dynamic response of the HTS switch is a critical to the the performance of the flux pump and fault current limiters. In this study, we build a thermal coupled numerical model for a HTS switch. We use this model to analyse the performance of a HTS switch under different perpendicular magnetic fields when carrying different transport current. The dynamic response of the switch will be obtained and the numerical results will help better design the HTS switch.

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