

IEEE Application Guide for Shunt Reactor Switching

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Abstract: Guidance for the application of ac high voltage circuit breakers for shunt reactor switching is provided. Overvoltage generation for the three cases of directly grounded, ungrounded, and neutral reactor grounded shunt reactors is addressed in terms of derivation and limitation methods. Circuit breaker specification for the purpose and the use of laboratory test results to predict field performance is also covered by this guide.

Keywords: ac high voltage circuit breakers, application, shunt reactor switching, small inductive currents, overvoltages

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