

## **Transformer circuit breaker DC current component and measures for its reduction.**

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The article contains investigation results of power transformer energization process. It is shown, that due to energization in the current of transformer's circuit breaker decaying DC current component may occur, which will prevent current from zero crossing, creating a kind of well-known zero-missing phenomenon.

Description of transformer mathematical model is given, and the root causes of DC current nature are revealed.

Measures for DC current component minimization are also considered and estimated.

*Keywords: DC current component, zero-crossing, zero-missing phenomenon, power transformer, transformer inrush current, non-simultaneous contact making.*