Abstract

In a transformer due to abrupt change in magnetizing voltage results in Magnetizing inrush current. A transient current up to 10 to 50 times larger than the rated transformer current can flow for several cycles when a transformer is first energized. This is magnetizing inrush current. Magnitude of this current is dependent on parameters like switching instant of supply voltage, residual flux, the hysteresis characteristics of the transformer core, impedance of the primary circuit, etc which may cause system disturbances and damage the transformer windings. In order to overcome this situation it is necessary to reduce the inrush current. In this paper inrush current limiters are used that reduce inrush current at the time of switching of the transformer. Here, inrush current limiters using power electronic converters are used.
Repression of Transformer Inrush Current

References

- and analysis of transformer inrush current based on parameters of transformer and operating conditions;

Index Terms

Computer Science

Signal Processing

Keywords

Transformer Inrush Current  Core Saturation  residual Flux  Dc Reactor  Pwm Converter.