



Sweep Frequency Response Analysis (SFRA) of power transformers with FRANEO

 1.0 day

 English

 Cptr04en

Learn how to perform reliable SFRA measurements on a power transformer using FRANEO 800. Get familiar with the OMICRON connection technique as well as the automated assessment tool and generate optimized reports.

Objectives

- ▶ Preparing and performing SFRA measurements on power transformers
- ▶ Applying the PTM software as support tool for the entire measurement process
- ▶ Making use of the innovative connection technique and avoid potential measurement errors
- ▶ Detecting winding deformation from measurement traces
- ▶ Assessing SFRA measurement traces using three different methods

Content

- ▶ Sources of winding deformation
- ▶ Basics and theory to understand the SFRA measurement method
- ▶ Comparisons of the SFRA method with conventional electrical measurements
- ▶ Influences on the reproducibility of an SFRA measurement trace
- ▶ Applying the reliable connection method for the highest level of comparability of measurements
- ▶ Using the PTM software by practical measurements on OMICRON's own power transformer
- ▶ Assessment and analysis of measurement results
- ▶ Creating test reports for measurement documentation

Solutions

PTM (Primary Test Manager) software
FRANEO 800
Measurement standards (IEC 600076-18, IEEE Std. C57.149TM, CIGRE FRA brochure AG2.26)
Assessment standards (DLT 911-2004)

Audience

Technical staff from electric utilities or companies involved in diagnosis, service and maintenance of power transformers

Prerequisites

Knowledge of electrical engineering