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Authors

elektrik@tubitak.gov.tr

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Modeling and calculation of electromagnetic field in the surroundings of a large power transformer

Leonardo STRAC[1], Franjo KELEMEN[2], Damir ZARKO[3]
[1]Koncar Power Transformers Ltd., Research and Development Department
Josipa Mokrovica 6, 10090 Zagreb-CROATIA
e-mail: leonardo.strac@siemens.com
[2]Koncar Power Transformers Ltd., Research and Development Department
Josipa Mokrovica 6, 10090 Zagreb-CROATIA
e-mail: franjo.kelemen@siemens.com
[3]University of Zagreb, Faculty of Electrical Engineering and Computing,
Department of Electrical Machines, Drives and Automation}
Unska 3, 10000 Zagreb-CROATIA
e-mail: damir.zarko@fer.hr

Abstract: The presented study compares measured and calculated electromagnetic field quantities in the surroundings of a large power transformer with the aim to avoid the necessity of measuring the field on subsequent units and use a computer model instead. The influences of various objects located in the vicinity of the transformer during measurement are also analyzed and are taken into account in a computer model.

Key Words: Large power transformer, electromagnetic field, finite element method.

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