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INVESTIGATION OF EMERGENCY MODES OF CASCADE CURRENT TRANSFORMERS AFTER DISCONNECTION THEIR SECONDARY CIRCUITS

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Abstract

The article presents a calculation scheme of a two-stage cascade current transformer for a computer simulation its operation modes after disconnection under load secondary circuits, which was created by the authors. The analysis of the results of computer calculation steady-state and transient modes of investigated cascade current transformer type TOM-765

after opening its secondary windings considering active power losses in the magnetic cores of stages is carried out. The obtained calculation oscillograms describe the character of the processes in the respective stages of the cascade current transformer for the mode of open its secondary circuits. References 13, figures 5, tables 2.

Key words: two-stage cascade current transformer, calculation scheme, the upper and lower stages, active power losses, disconnection of secondary circuits, secondary load, steady-state and transient modes.

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