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Mathematical modeling of current-limiting device using the effect of magnetic core saturation.

The possibility of the use of current-limiting devices using the effect of magnetic core saturation in the 110 kV electrical network of Saint-Petersburg and Leningrad Region has been investigated. The computer model of the device has been developed, its principle of operation has been described the recommendations on the choice of its parameters have been given.

Key words: electric power system, short-circuit current, current-limiting device, effect of magnetic core saturation.

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