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ELECTRIC ENERGY LOSS AT ENERGY EXCHANGE BETWEEN CAPACITORS AS FUNCTION OF THEIR INITIAL VOLTAGES AND CAPACITANCES RATIO

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Abstract

The processes of electrical energy exchange between two connected capacitors of different capacity charged to different voltages are studied. The features of influence of the ratio of capacitor capacities, as well as their initial voltages on a loss of electric energy during its redistribution between the capacitors are determined. The conditions of decrease of such losses and increase of coefficient of energy transfer from one capacitor to another one are defined. References 10, figures 2, table 1.

Key words: Power processes, capacitors, electric power losses, energy-transfer coefficient.

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