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OPTIMIZATION OF INDUCTIVE-CAPACITAL CONVERTER WITH BRIDGE ONE-PHASE RECTIFIER, CAPACITARY FILTER AND PARALLEL ACTIVE LOAD

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Abstract

The optimization of the specific capacities of the reactive elements of the inductive-capacitive converter according to the scheme G1-LC, which feeds a single-phase bridge rectifier with a capacitive filter and active load, is carried out. The optimization was done according to the theory of planning the experiments on the second order orthogonal plan. The obtained results allow us to calculate the parameters of the reactive elements of the ICC, which have a minimum specific capacities. References 4, figures 5, table 1.

Key words: rectifier, inductive-capacitive converter, specific capacities, reactive elements, active load, capacitive.

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