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AN INFLUENCE OF THE FACTS UPON AN ELECTRICAL NETWORK'S MODE DURING DIRECT START-UP OF AN ASYNCHRONOUS MACHINE IN THE COMPLEX LOAD'S COMPOSITION

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Abstract

An influence of the proposed Flexible Alternating Current Transmission System (FACTS) on the processes of direct start-up of a powerful asynchronous machine (AM) included in the complex load's node of the electrical network (EN) has been studied. The construction and study of the EN model containing AM and FACTS were performed in the MATLAB-Simulink environment.

Obtained results indicate that FACTS significantly limits an influence of the AM start-up current on the parameters of the EN's mode. References 10, figures 5, table 1.

Key words: electrical network, direct start-up of an asynchronous machine, FACTS.

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