

*synchronous generator, non-salient field winding, high speed,
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STUDY OF PROTOTYPE MULTI-POLE NON-SALIENT FIELD WINDING FOR HIGH SPEED BRUSHLESS SYNCHRONOUS GENERATOR

In this paper a non-salient field winding for a brushless synchronous generator working with high speed in an autonomous energy generation system (e.g. airplane power grid) has been presented. A conception of a six-pole cylindrical-rotor with distributed field winding has been proposed. Comparison study of salient and prototype non-salient field winding has been carried out. Chosen simulation and measurement results of the generator stator voltage and current waves have been presented.

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