Temperature response of the generator wind zone partition

By changing the air gap length, permanent magnet thickness, and winding conductivity, the relationship between the loss, temperature rise, and exergy efficiency can be obtained.

The thermoelectric generator system, as shown in Fig. 4, utilizes SP1848 thermoelectric modules measuring 40*40 mm, operating within a temperature difference range ...

The research objective of the present paper is to examine the temperature response and the temperature evolution at the microheater surface as well as the fluid ...

The aim of this paper is to control a fixed speed wind turbine driving a three-phase synchronous generator that directly connected to the utility grid at normal and abnormal conditions.

In this white paper, CFD has been utilized to look at the influences of walls near generator enclosures as well as the influence of prevailing winds.

In this paper, a new condition monitoring method based on the Nonlinear State Estimate Technique for a wind turbine generator is proposed. The technique is used to construct the normal behavior model of ...

The aim of this work is to provide further insight into practical uses and limitations of implementing normal behaviour temperature models in practice, to inform practitioners, as well as assist in ...

This paper presents the mathematical modeling of the thermal state of a 1000 W wind turbine generator (WTG) integrated into a vertical-axis wind turbine (VAWT) system, taking into ...

Based on these initial data, the thermal problem was solved in the Ansys Thermal software package and the temperature field of the generator active zone was determined at different ...

Temperature response of the generator wind zone partition

This paper focuses on the thermal analysis of a 2 MW wind turbine generator. The goal is to estimate the stator winding temperature with a model as straightforward as possible.

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