Wind turbine generator bearing vibration standard

Results show that by analysing high-frequency vibration data and extracting key features to train support vector machine algorithms, an accuracy of 67% can be achieved in successfully ...

Our products enable effective monitoring of main bearings, generators, and gearboxes used in wind turbines. We offer general purpose, molded, and triaxial accelerometers as well as all related cables, ...

The type and implementation of broad-band vibration monitoring methods to be used for wind turbines are addressed in this document, along with evaluation criteria for assessing vibration severity.

INTERNATIONAL STANDARD ISO 10816-21 2015-05-01 Mechanical vibration -- Evaluation of machine vibration by measurements on non-rotating parts --

The ISO 10816-3 standard provides criteria for evaluating the vibration of machinery according to measurements taken on non-rotating parts, such as bearings, bearing pedestals, or ...

During feature extraction, vibration comparison was used to evaluate the behavior of the wind turbine generator (WTG) and classify it into three categories: 0 for normal operation, 1 for ...

Vibration sensor requirements, such as bandwidth, measurement range, and noise density are discussed in relation to common faults on WT components. Figure 1 and Figure 2 illustrate the wind ...

This document provides information regarding the measurement and evaluation of the mechanical vibration of wind turbines and their components. The working principles of wind turbines ...

This part of ISO 10816 gives guidelines for applying bearing housing vibration evaluation criteria measured under normal operating conditions at the bearings, bearing pedestals or bearing housings ...

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