

## Accepted Manuscript

Title: The Design of Multiple Linear Regression Models  
Using a Genetic Algorithm to Diagnose Initial Short-Circuit  
Faults in 3–Phase Induction Motors

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**Highlights:**

- Regression models are proposed to diagnose short-circuit faults in Induction Motors.
- Genetic Algorithm is used to obtain the optimal classification model.
- The models can be adjusted using simulation or experimental data.
- The proposed approach can be applied for real time machine monitoring.

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