MCSA-Based Condition Monitoring

Detect Early, Prevent Downtime.

Motor Current Signature Analysis (MCSA) is an advanced, non-intrusive condition monitoring technique that uses sophisticated algorithms to detect faults in electric motors by analyzing current waveforms while the motors remain in operation. By identifying unique current patterns associated with specific faults, MCSA enables predictive maintenance, minimizes downtime, prevents costly failures, and enhances overall operational efficiency.

Problem Statement

- Implementing motor condition monitoring using sensors can be costly and component-intensive.
- Proper installation and usage of sensors requires training and experience to obtain reliable data.
- Conventional monitoring systems are complex to deploy and may not provide actionable insights efficiently.
- Simple algorithms alone are insufficient without integrating current data for accurate fault detection.

Solution

- Simple, Effective Algorithms: Connects the current data to analyze motor health and detect early-stage faults.
- Easy Deployment: Designed to be simple to install and configure, reducing implementation complexity.
- Training & Adaptation: Gradual training and data analysis over time improve predictive maintenance accuracy.

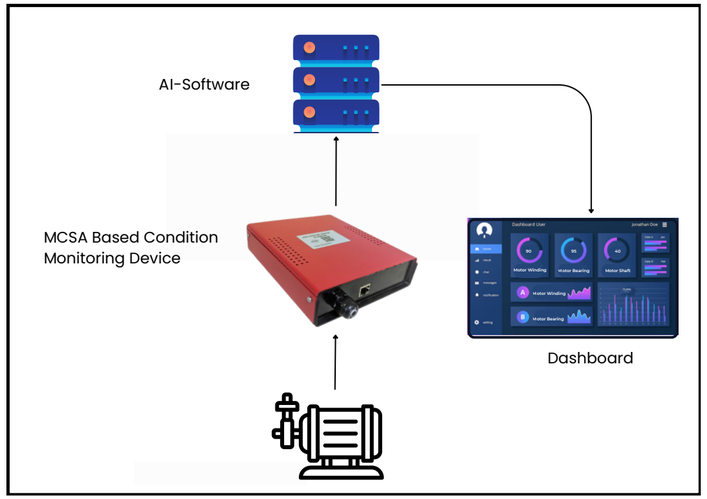
Products

Condition Monitoring Device

AI- Software

Dashboard

Architecture



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