

# HT Motor Performance Improvement - Step Ahead with Gen AI

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## Background

High Tension (HT) motors are designed for industrial applications requiring high power and efficiency, typically operating at voltages above 1000V (6600V and 3300V SQIMs are commonly used).

These motors are widely used in heavy-duty industries like steel manufacturing, chemical plants, mining, and power generation, where large-scale machinery and processes demand reliable, high-performance motors

## Challenges - Uninterrupted Operation of HT Motors

Motor and driven equipment are protected and monitored through default systems and devices for reliable and safe operation. In case of any abnormality, or deviation in any parameter, an alarm or trip is generated to safeguard the equipment. With conventional systems, equipment is safeguarded but operation is disrupted resulting in adverse impact on production which is not desirable. In the case of HT motors, MTTR is high.

## Gen AI based Effective solution to prevent HT motor failures

- **Motor Failure Analysis** and recommendations for improvement.
- **Review of Existing Motor** Management System to identify OFIs.
- **Evaluation of Motor and MCC Inspection Systems** to ensure optimal performance.
- **Assessment of Motor Protection Systems** for adequacy and effectiveness.
- **Comprehensive Report** detailing key findings and actionable recommendations.
- Detailed study and recommendations for **Gen AI deployment** and implementation of Gen AI based analytical model.
- **Onsite Training** for the maintenance team to enhance their skills and knowledge.
- Post Gen AI deployment, **automatic and customized** report and alert generation.

👉 For more information you can contact us through our website or email provided above.