

# Asset Advisor for Rotating Machines

## Addressing your needs

Rotating equipment is the interface between your electrical distribution system and final application of electrical power to your business process

- High failure rates of rotating equipment, above 7%, drives to costly downtime and undesired repairs during operating hours
- Complexity to centrally monitor motor fleet from diverse manufacturers with higher level of detection accuracy
- Be ready to monitor rotating equipment located in areas hard to reach, or unable to fit sensors, or harsh conditions where other technologies cannot be installed.

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## How we can help you ?

We do it for you! We deliver end-to-end Service to, Mitigate electrical failure risk for most critical assets along your entire electrical system, **from grid entry point downstream to rotating** equipment powering your process

Adding a **scalable and valuable solution to your costly problem with unplanned downtime** of critical rotating equipment

By innovative Condition Base Monitoring technologies seamlessly integrated into Schneider Digital Services and IoT architectures, for **you to get benefits of predictive maintenance effectiveness**.



## 50% lower TCO

In a 10 years term, if MCSA is compared to standard Vibration sensors solutions

## Over 90%

Failures detected, higher reliability than other technologies

## Up to 5 months

Some subtle symptom of failure can be detected

## How it works ?

- We apply modern monitoring technology: MCSA, standing for Motor Current Signature Analysis.
- Instead of analyzing vibrations or temperature or oil, our MCSA systems analyzes AC current and voltage with Machine learning, which raises sensitivity and accuracy.
- MCSA sensors do not need to be near by motor. We install current transformers and voltage taps in the Motor Control Center, where sampling at high frequency around the clock into panel conditions

[Learn more about EcoStruxure Asset Advisor](#)

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# Use case: Steelmaking

| Situation                                                                                                                                                                                                                                                          | Solution                                                                                                                                                                                                                                          | Result                                                                                                                                                                                                                                                               |
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| <ul style="list-style-type: none"><li>• 40 to 60 motors on a typical runoff table fail each year</li><li>• When a failure occurs, the entire line can be down for 10 hours</li><li>• When the line is down, the quality of the steel produced is at risk</li></ul> | <ul style="list-style-type: none"><li>• SAM4 is installed on critical assets</li><li>• SAM4 uses MCSA to detect upcoming failures weeks to months in advance</li><li>• SAM4 detects &gt; 9/10 failures against very few false positives</li></ul> | <ul style="list-style-type: none"><li>• Perform maintenance during planned slots</li><li>• Avoid corrective maintenance</li><li>• Avoid unplanned downtime</li><li>• Reduce parts replacement and periodic inspections</li><li>• Reduce product discarding</li></ul> |

# Use case: SAM4 at a hot strip mill we monitor

~10 failures per year detected up to 4 months in advance

Leading to an increase in availability from 97% to 99% in the first year