

## PROVEN SUCCESS WITH MONITORING MOTORS

**Cutsforth's Motor Current Signature Analysis (MCSA)** uses voltage and current signals to detect rotor bar damage, misalignment, eccentricity, mechanical looseness, and bearing problems. The MCSA computes features specific to electrical data and motors beyond phasor and waveform analysis.

### FAILURE MODES

- Rotor bar damage
- Misalignment
- Eccentricity
- Mechanical looseness
- Bearing faults

## NEVER MISS A STARTUP WITH CONTINUOUS ONLINE MONITORING

Intelligent gating at the edge provides continuous monitoring while minimizing network bandwidth.

### LEVERAGE YOUR EXISTING EQUIPMENT

MCSA CTs connect to 5A secondaries used by relays.



1x Voltage monitoring bus (120/240V secondary)  
N# of 4ch modules  
CTs. Can connect multiple motors for monitoring device

Low Voltage connections for (5A → 0.333V) options available

Make use of protective relay current transformers (CTs) and potential transformers (PTs) to simplify signal conditioning. You can also take advantage of existing infrastructure to minimize installation. If PTs are not present, make measurements directly.

### EFFICIENCY MATTERS

MCSA is cost effective. Monitor up to 9 motors on a single voltage bus with one acquisition device. Motor Control Centers (MCCs) minimize cable lengths and installation costs.

- Torque waveform
- Phasor diagram
- Envelope (amplitude demodulation)