

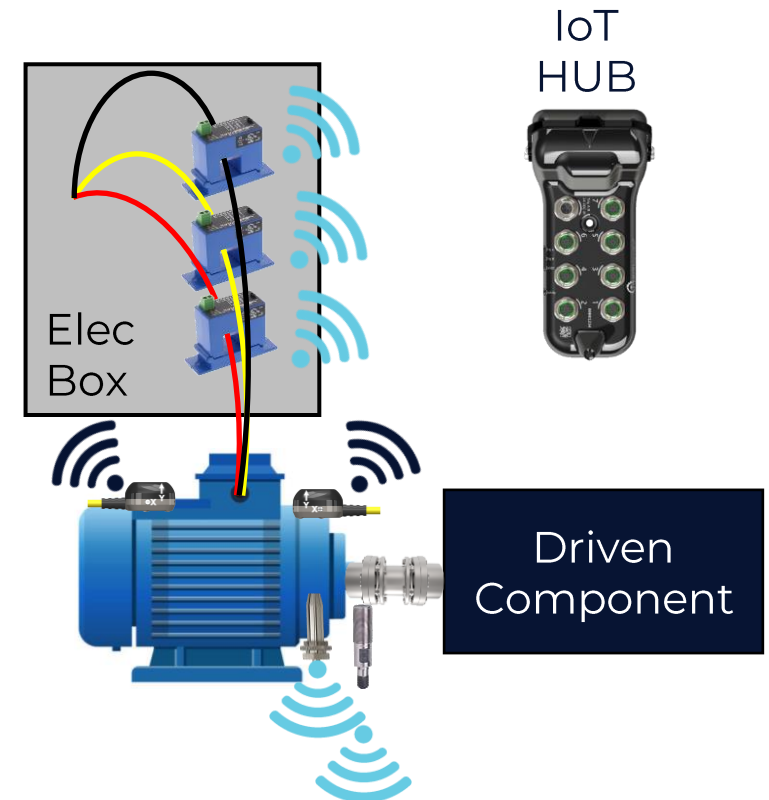
# MOTOR

## AVAILABLE TECHNOLOGY



BEST BETTER GOOD

SOLUTION	CONDITIONS DIAGNOSED
Vibration	Grounding, rotor bar/stator slot, soft foot/stator eccentricity, SCR, EDM, bearing, shaft, rotor bow, rotor rub, loose connections, coupling, looseness, weakness, misalignment
Run Speed Temperature	Timing of vibe faults, resonance Lubrication, inefficiency, belt tension
Motor Current Signature Analysis (MCSA)	Rotor bars, static and dynamic eccentricity, shorted turns, rotor bow, rotor rub, loose connections, amp overload or fluctuation, phase imbalance, inefficiency



**APPLICATIONS: Pumps, Fans, Compressors, Conveyors, Paper Machines, Corrugators, Printing Machines, Cutting Machines, Winders, Saws, Strandings, Chippers, Planers, Sanders, Grinders, Mills**

## ROTOR/STATOR FAULTS

### THE SOLUTION:

MCSA can be used to detect:

- ✓ Broken rotor bars
- ✓ Cracked end rings
- ✓ Air gap eccentricity
- ✓ Rotor rub
- ✓ Broken windings
- ✓ Shorted windings
- ✓ Damaged couplings
- ✓ Damaged bearings
- ✓ Loading anomalies



MCSA sensor, KCF Analog Adapter, and KCF IoT HUB



KCF Base Station

### THE PROOF:

- ✓ Elevated sidebands indicate a damaged rotor bar.

