

# Unlock Maximum Uptime Condition-Based Monitoring®

Integrated Intelligence.  
Predictive Power.



VLT® AutomationDrive FC302 — more than a motor controller — it's a **smart sensor** that monitors your motor and mechanical application health in real time.



## Stop Failures Before They Stop You

Embedded CBM gives you the power to:

- Transition from reactive to predictive maintenance
- Cut unplanned downtime by detecting early signs of wear
- Eliminate installation costs of extra sensors or analysis system

**"Your drive becomes your maintenance technician, always online, always watching."**

- Alerts trigger when deviations occur, preventing inefficiency or damage.
- Optimize energy usage by keeping systems in peak condition.

## Key Embedded CBM Functions

Function	Benefit
Pump: cavitation detection	Identify early signs of pump cavitation to prevent efficiency loss and damage.
Motor: Stator Winding monitoring	Detect insulation faults before they cascade into costly downtime.
Motor: vibration monitoring	Identify misalignment, wear, and looseness before failure hits production.
Bearings: wear-out monitoring	Detect early signs of bearing degradation to avoid sudden failure.
Application: load envelope (torque)	Compare real-time torque vs. baseline to catch process deviations.

## Why it Matters

Embedded CBM = No Extra Infrastructure, No Guesswork, No surprises

- ✓ Monitor Offline or without Internet
- ✓ Push data to cloud for analytics
- ✓ ISO Standard compliant methods
- ✓ Scalable from single machine to whole operation

