



K6CM Motor Condition Monitor

Product Guide



Overview

For customers seeking to improve predictive maintenance and reduce downtime, the K6CM provides 24/7 monitoring to guard against motor failure. By performing multiple checks on the condition of three-phase induction motors and alerting users of abnormalities, the K6CM reduces operational costs and helps customers respond quickly to issues.

Three models can detect various failure modes, including overloads, bearing wear and insulation breakdown. The controller eliminates complex programming needs, while EtherNet/IP and Modbus TCP communication facilitates remote monitoring and integration into other systems.

Applications

- Conveyors; hydraulic pumps
- Exhaust fans; air handling units
- Water cooling pumps; wastewater treatment pumps
- Motors for mixing equipment
- Industrial chillers; lifting equipment

Primary Benefits

- Hassle-free, 24/7 remote monitoring of motor condition
- Reduced maintenance costs by replacing manual inspection
- Ability to predict when the motor needs to be inspected or replaced
- User-friendly, turnkey monitoring solution

Key features

- Three available models for different failure modes: K6CM-CI for current analysis to monitor overload conditions, K6CM-VBM for vibration and temperature analysis to monitor bearing wear, and K6CM-ISM for resistance measurement to monitoring insulation breakdown
- Controller with built-in display, alarm bar, and transistor outputs for stack lights/indicators
- EtherNet/IP and Modbus TCP communication
- PC-monitoring tool that monitors up to 10 motors at one time
- Self-diagnostic functions
- Push-in Plus terminals

K6CM Product Selection



Failure mode	Part Number	Description
Bearing Wear	K6CM-VBMA-EIP	K6CM Controller- Vibration/Temp 100-240 VAC input
	K6CM-VBMD-EIP	K6CM Controller- Vibration/Temp 24VAC/DC input
	K6CM-VBS1	Vibration/Temperature Sensor
Overload Condition	K6CM-CIMA-EIP	K6CM Controller- Current Monitor 100-240 VAC input (For motors w/o invertors i.e. contactors)
	K6CM-CIMD-EIP	K6CM Controller- Current Monitor 24VAC/DC input (For motors w/o invertors i.e. contactors)
	K6CM-CI2MA-EIP	K6CM Controller- Current Monitor 100-240 VAC input (For motors with inverter control)
	K6CM-CI2MD-EIP	K6CM Controller- Current Monitor 24VAC/DC input (For motors with inverter control)
	K6CM-CICB005	CT clamp 5 A
	K6CM-CICB025	CT clamp 25 A
	K6CM-CICB100	CT clamp 100 A
	K6CM-CICB200	CT clamp 200 A
	K6CM-CICB400	CT clamp 400 A
	K6CM-CICB600	CT clamp 600 A
Insulation breakdown	K6CM-ISMD-EIP	K6CM Controller- Insulation Monitor 24VAC/DC input
	K6CM-ISMA-EIP	K6CM Controller- Insulation Monitor 100-240 VAC input
	K6CM-ISZBI52	ZCT-clamp for insulation monitoring

Related Products



Product Name	S8VK-X	K6PM	W4S1
Type	Ethernet/IP & Modbus Power Supply	Thermal Condition Monitoring	Industrial Switching Hub