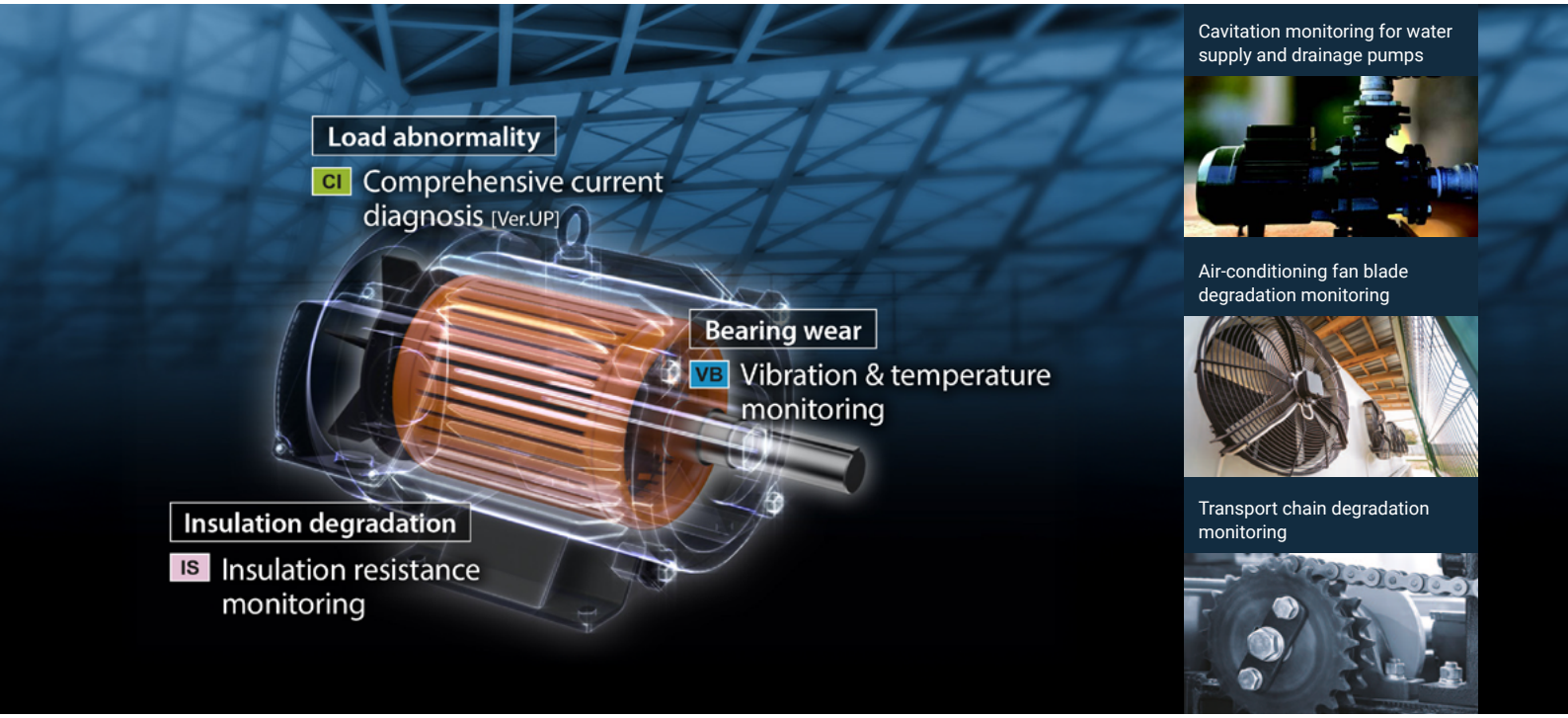
Continuously monitoring motor status is a wise investment that yields long-term benefits.



Reliability-centered maintenance

- Regular monitoring allows you to catch early signs of motor degradation or faults. By addressing issues promptly, you prevent unexpected breakdowns and minimize unplanned downtime.
- Faulty motors can pose safety risks. Monitoring helps identify potential hazards early, allowing you to take corrective action before accidents occur. Regular checks and timely maintenance extend the lifespan of motors. Well-preserved motors serve your facility for longer, reducing the need for frequent replacements.
- Vibration analysis helps identify irregularities such as **misalignment, unbalance, bearing wear**, and other mechanical faults. When you promptly address vibration-related issues, you minimize unexpected downtime.

Three levels solution for motor monitoring

- Multiple approaches to monitor different motor failures: current analysis for abnormal load condition (foreign debris, pump cavitation); temperature/vibration for bearing wear malfunction (lack of lubrification); insulation degradation (dust intrusion, fluid leaking).
- When a motor exhibits abnormal behavior or reaches a critical state, timely alerts ensure that corrective actions can be taken promptly. To set up notifications, consider using email, SMS, or social media platforms like Telegram.
- Multiple motors monitoring at the same time even from remote. Access to a graph that displays the trend of measured values. Additionally, icons will visually indicate the status of the motor.

Would you like to know more?
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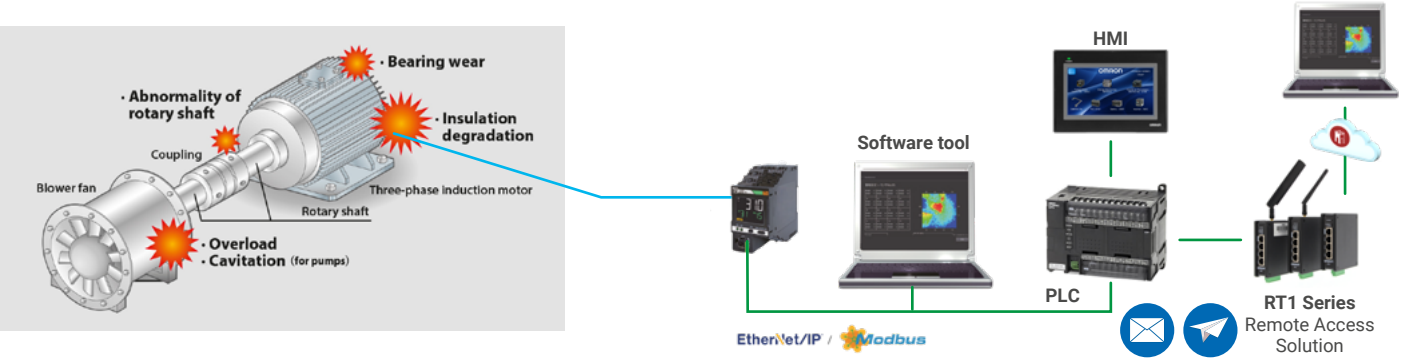
OMRON approach for motor monitoring

The **K6CM devices** facilitates straightforward installation, even in existing applications. Its real-time monitoring capability enables early detection of anomalies 24/7. In the event of any motor or connected mechanical fault, the **NX1P2 PLC** promptly triggers an instant notification alert via the **RT1 remote access solution**. Additionally, RT1 provides continuous remote connectivity to identify early signs of motor degradation or faults.



OMRON products	Items references
NX1P2- **Compact controller**	NX1P29024DT1: 24 Digital Transistor I/O (PNP), EtherCAT (4 PTP axes, 16 EtherCAT nodes), EtherNet/IP and 1 serial option port.
RT100 **Remote Access Solution**	RT100-EMM3010: SiteManager LAN, 10 Device Agents, 3x Ethernet Ports, 1x Micro SD slot, 1x USB port.
K6CM-CI **Current**	K6CM-CI2MA-EIP: 100 to 240 VAC, Transistor control output, Push-in Plus, LCD display, Ethernet IP K6CM-CICB025: CT sensor for Current analysis, 25A rated primary-side current.
K6CM-VB **Temperature/Vibration**	K6CM-VBMA-EIP 100 to 240 VAC, Transistor control output, Push-in Plus, LCD display, Ethernet IP K6CM-VBS1 Sensor head & Pre-amplifier for Vibration & temperature model.
K6CM-IS **Insulation**	K6CM-ISMA-EIP: 100 to 240 VAC, Transistor control output, Push-in Plus, LCD display, Ethernet IP K6CM-ISZBI52: ZCT sensor for Insulation Resistance model, 200 to 480 VAC, 52mm dia. Through hole.

Complete your equipment with:

M1 Series Inverter: The Integrated AC Drivers Solution

Control your motor with M1 Inverter, designed for 10 years maintenance free use. Working operation up to 50 °C w/o derating. Coated PCB's for dust and moisture resistance (IEC 60721-3-3, Class 3C2).

Power Monitor KM-PM series

The KM series measures both energy consumption and the regenerated energy with just one point of measure, thus giving you a comprehensive view of the energy efficiency improvement.

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