Motor Condition Monitoring Devices

K6CM series

K6CM takes the burden of monitoring off maintenance engineers.

Stay alert to signs of motor failure through monitoring conditions.

- K6CM's threshold setting keeps users informed of maintenance timing
- "Motor Condition Monitoring Tool" for PCs
- Clamp-type CT which is easy to install on existing equipment

No need for time-consuming patrol inspection or expertise.

K6CM informs you of the motor's maintenance

[Problems]

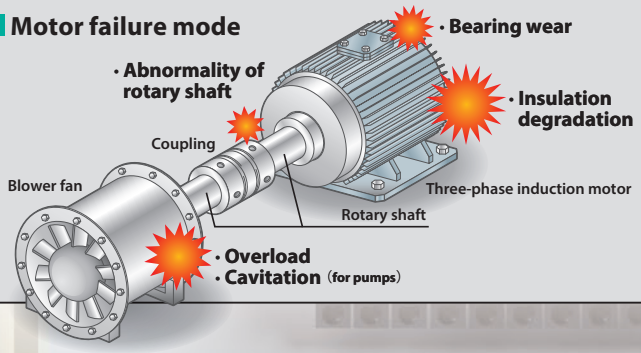
It's difficult to prevent motor issues caused by degradation.

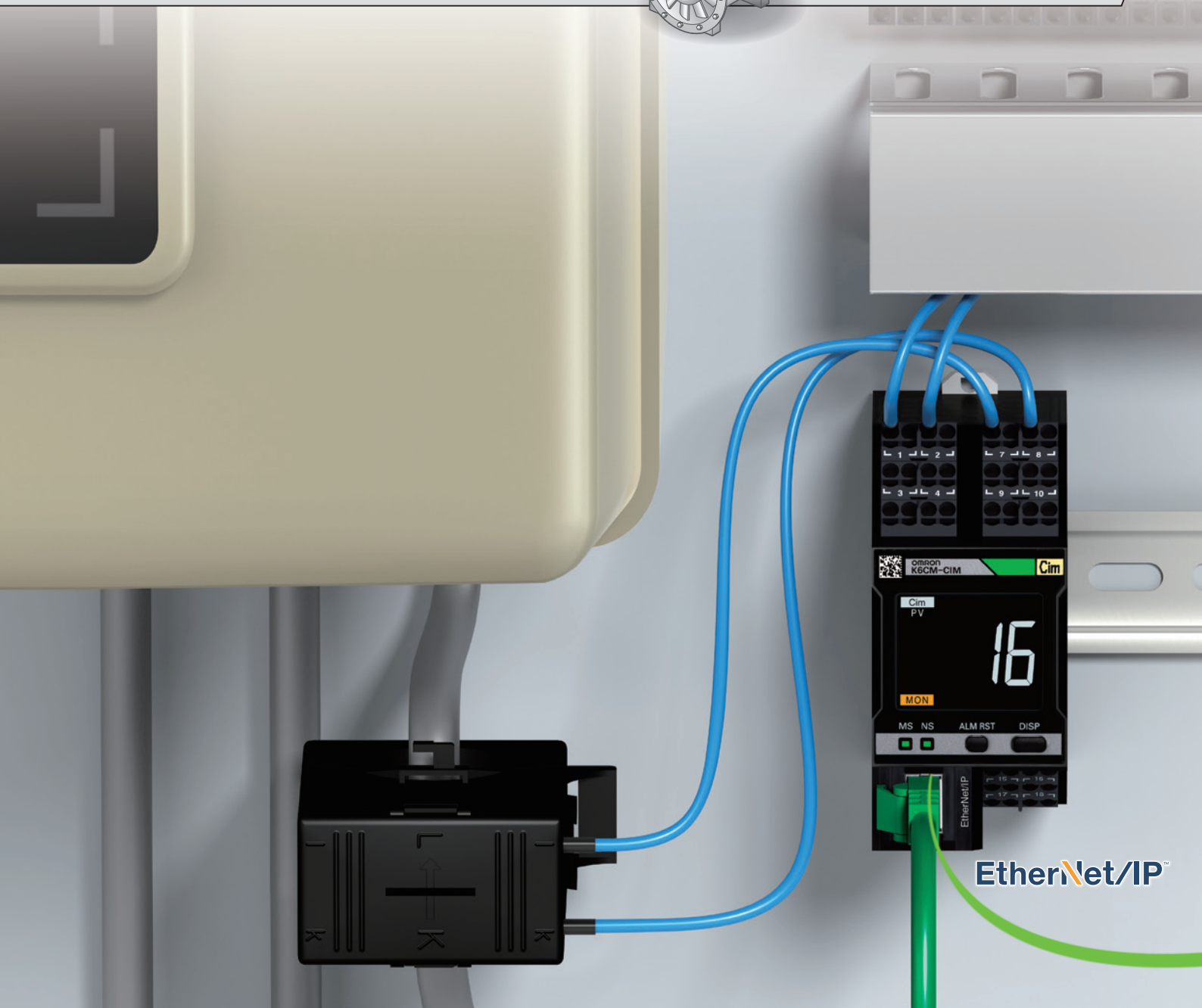
The conventional motor condition check had several check items. Therefore a skilled maintenance engineer was required to judge the motor's maintenance timing. Additionally, inspection was time-consuming because there were many motors.

Example of patrol inspection items

Phenomenon / Symptoms	Vibration	Heat generation	Decreased electrical resistance	Overcurrent
Bearing wear	✓	✓		✓
Insulation degradation			✓	
Overload	✓	✓		✓
Open phase		✓		

Motor failure mode





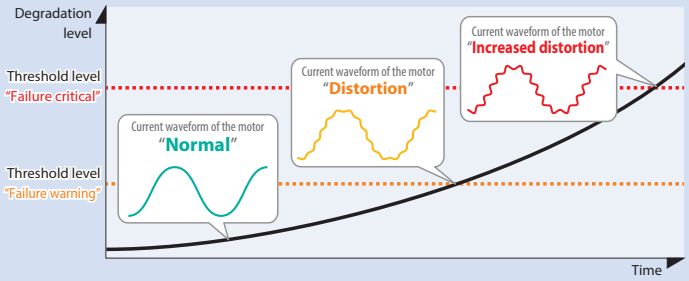
timing.

[Solution from OMRON]

Motors can be maintained in advance of failure due to degradation.

K6CM (comprehensive current diagnosis type) can consistently monitor motor conditions by observing the current waveform of the motor. Additionally, you can understand the motor's maintenance timing without depending on an engineer, because K6CM provides threshold value setting.

What is comprehensive current diagnosis?



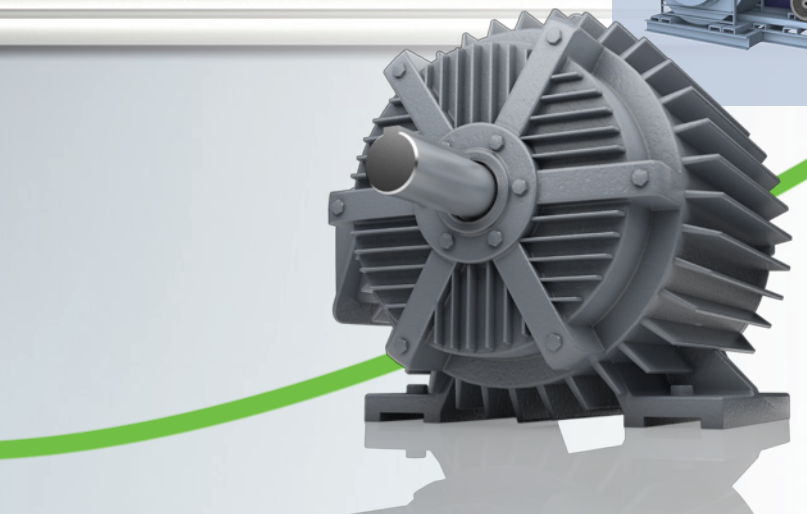
When an abnormality occurs in the load such as bearing, rotary shaft, or reducer, the motor does not rotate smoothly and a distortion occurs in its current waveform.
K6CM measures its distortion as a degradation level.

With a factory floor signal light

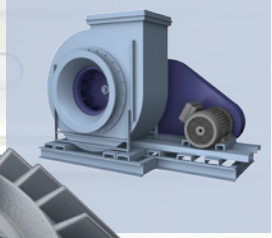
With an office PC

With the accessory software "Motor Condition Monitoring Tool", you can monitor motor conditions remotely.

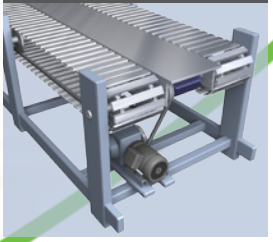
* The screen is a sample image.



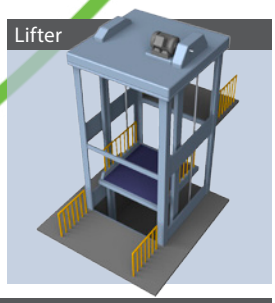
Rotary fan



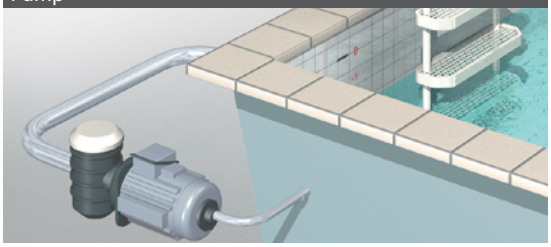
Conveyor



Lifter



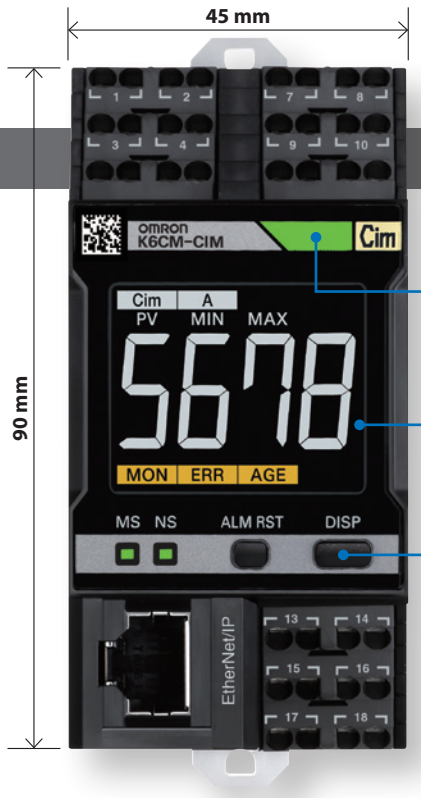
Pump



Monitors the 3-phase induction motor which is the driving force of every facility.

Motor Condition Monitoring Device Lineup

type 01 To make an integrated diagnosis with a single parameter



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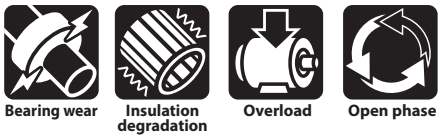


Comprehensive current diagnosis type

K6CM-CIM

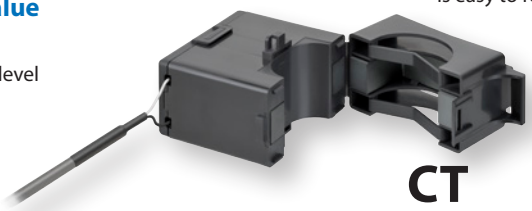
Alarm bar
- Green : Status normal
- Orange : Failure warning
- Red : Failure critical

Display
- [PV] : Present value
- [MIN] : Minimum value
- [MAX]: Maximum value

Switches the units of the measured value displayed
- [CIM] : Degradation level
- [A] : Current

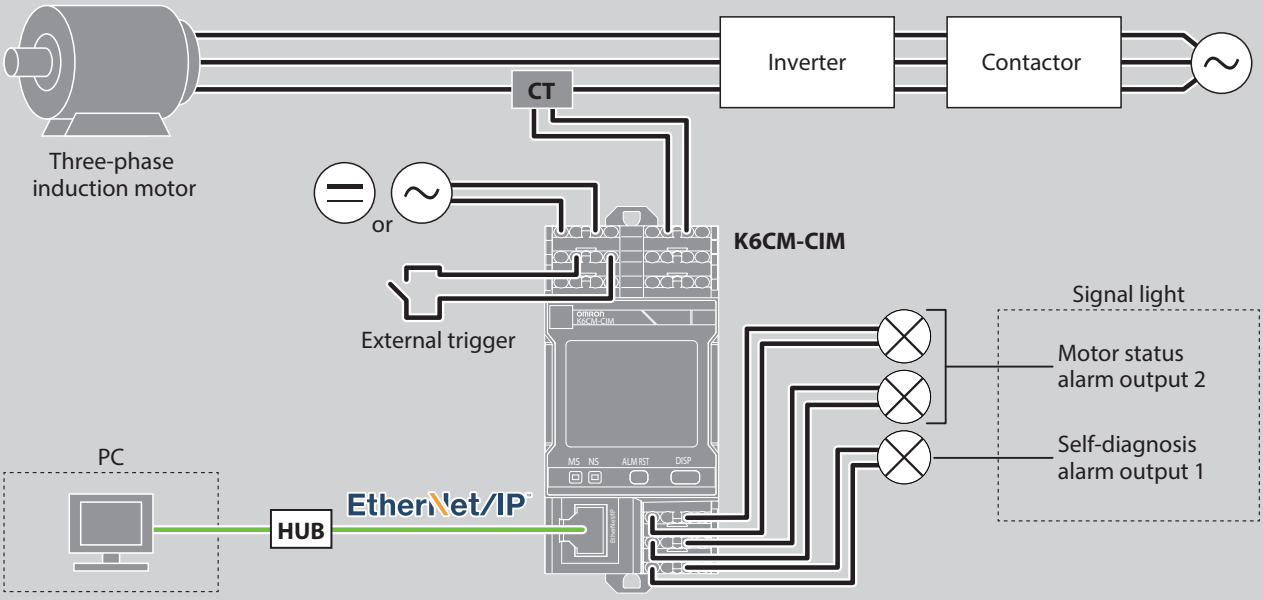
+

Clamp-type CT which is easy to retrofit



CT
K6CM-CICB400

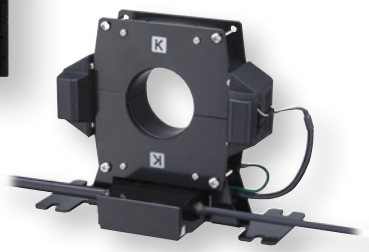
Example: Connections



type 02 To measure the insulation resistance level

Insulation resistance monitoring type

K6CM-ISM



ZCT
K6CM-ISZBI

type 03 To measure the vibration and temperature level

Vibration/temperature monitoring type

K6CM-VBM

Pre-amplifier & vibration/temperature sensor
K6CM-VBS

* Applicable motor: 3-phase induction motor
* For explanation purposes, all indication lights of units are on.

K6CM common software

Software for setup and monitoring

Software for PC

Motor Condition Monitoring Tool

[Windows7, Windows8, Windows10, (32bit/64bit) (English/Japanese)]

* Software included with main unit.

Value Design for Panel

Our shared Value Design for Panel (herein after referred to as Value Design) concept for the specifications of products used in control panels will create new value for our customers' control panels.
Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

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