ABB Ability™ LV Switchgear – MNS® Digital
Product lifecycle cost management

- Less cable caused by Ethernet communication
- Compact structure helps with space saving
- Reduce engineering complexity and design change cost by strong software
- Ensure right information for right person to save management cost
- SOE with time stamp data and record makes maintenance more effective
- Predictive maintenance to increase service life
- No need to change current configuration

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More safe, more reliable, more intelligent, more value to customer
ABB Ability™ LV Switchgear – MNS® Digital
One system for all

ABB Ability™ LV Switchgear – MNS® Digital, is developed and produced in ABB Xiamen Low voltage Co., Ltd. MNS digital continues with MNS leading quality standards and manufacturing processes and integrate ethernet technology and smart sensor. MNS Digital could accept remote supervision, control and value setting, provide detailed diagnosis and event log, help customer to do bid data analysis, offer predictive maintenance information. MNS Digital give customer an ensure safe, reliable, continuous power distribution system.

Feature

- Smart modular solutions
  - Motor starter for control, protection, monitoring & maintenance
  - Feeder management, including protection, measurement and maintenance
  - Key part temperature monitoring
- Smart Ethernet connection
  - High speed
  - Big data transmission
  - Ring connection
  - Reliable Ethernet connection technology
  - Flexible net structure available
  - Perfect communication with upper system
  - Cyber security
  - Easy to upgrade

- Smart monitoring & maintenance
  - Could be accessed with authorized web browsers
  - Could supervise without programming
  - Assets health management
  - Provide predictive maintenance

We've developed MNS Digital for this changing business environment, MNS Digital is ready to connect to the ABB Ability platform, enabling energy management, condition monitoring and predictive maintenance.

Ethernet push revolution on low voltage switchgear

More and more complex automation process in industry, higher and higher cost of sudden power off in infrastructure, and different load and work conditions even cause failure of switchgear. How to reduce the lowest failure rate, lowest shut down time and ensure the most reliability is the most important question.

In past years, there have been great advances in IoT, connectivity and cloud computing. The performance of smart components and electronics is also increasing exponentially, and the innovation cycles of electronics and software are becoming shorter.

Digital

- Intelligent
- Conventional

Delivering solutions:
- Enabling predictive maintenance
- Remote assistance
- Fault analysis and solution recommendations
- Data analytics

Supervision:
- A/S/L supervision
- Condition monitoring
- Assets health management

Connection:
- Gateway for connection to superior control systems
- Cloud connectivity for remote services

Collecting information:
- Temperature sensors
- Integration of field devices

Limited to:
- Distribute energy & motors control
- Hard wired remote control
- Protection and metering functions with conventional devices

Safety

Flexibility

Reliability

Improve maintenance

Simplicity

Availability

Safety

Flexibility

Reliability

Improve maintenance

Simplicity

Availability

ABB Ability™ LV Switchgear – MNS® Digital
Customer value

ABB Ability™

We recommend using the ABB Ability™ LV Switchgear – MNS® Digital as your solution for low voltage switchgear. It offers superior performance and reliability, with advanced features that help you optimize your operations.

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Laptop is connected with switchgear by parameter setting cable

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