

MNS iS

Evolution in LV Motor Control Center Technology



MNS *iS*

The first *integrated* System for Low Voltage MCC applications

ABB serving customers with innovative designs

Thirty years ago, ABB introduced MNS as the first arc contained Low Voltage switchboard design based on separated functional areas.

In 1983, the first modular designed fully withdrawable MNS switchboard was delivered.

Seven years later, in 1990, the Intelligent Motor Control System (IMCS) with INSUM was the first switchboard including electronic protection and control devices and communication interfaces.

Following the long series of innovations during the past thirty years, in 2005 ABB now comes up with the first integrated Low Voltage MCC system, the **MNS *iS***.

MNS *iS* has broken the technology barrier

MNS *iS* is one integrated MCC system configurable for all possible customer specifications. It can be provided based on conventional up to sophisticated Intelligent Motor Control System requirements.

MNS *iS* makes modifications / enhancement of control and protection functions possible at any time and at any project stage during the complete project life cycle. It provides much needed flexibility for engineers, system integrators and end users.

MNS *iS* secures customer investments as it provides step-up possibilities with future technology developments with the same system.

MNS *iS* enables flexible usage of spare parts as a result of the system standardization. A very few standard motor starter variants are needed for a complete plant.

MNS *iS* is uniquely safe and simple to operate



Power modules and control devices are physically separated and situated in separate compartments.

Installation of power cables is possible without adverse effect on control and communication equipment. On the other hand all installation jobs in the control compartment can be carried out without the danger of touching live power cables.

This unique design is now a standard in **MNS *iS***.

Process control



Motor

M

Electrical SCADA



Local Monitoring



Any off the shelf device with web browser



**Probably the best technology jump yet
for Low Voltage Motor Control Center Solution!**

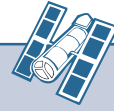
We'd like to tell you more!

MNS iS

Provides information where needed



Satellite antenna



GPS satellite

Asset Management



Time stamped alarm & events, diagnostic data

status and control commands

MODBUS



Electrical measurement data



Web server interface



Power cables



Field I/O cables

MNS iS

Offers the right mix of standardization and customization

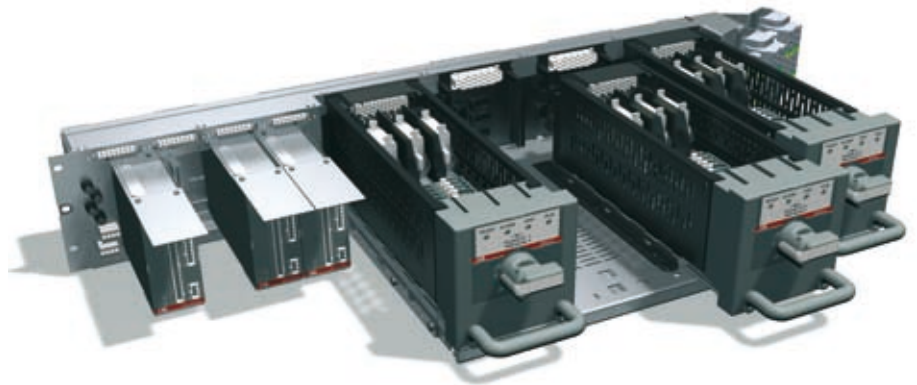
MNS iS promotes predictable plant maintenance

Predictive maintenance will become integral part of plant operation to ensure reliability of the process. Online information at any time and any point of the plant help to ensure maximum plant operation flexibility.

MNS iS supports it in providing condition based information and asset monitoring.

MNS iS offers maximum user handling ease

MNS iS has a defined number of power modules to cover ratings up to 355 kW.

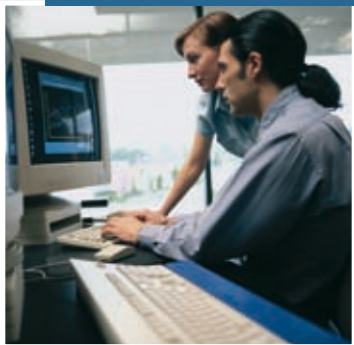


Scalable and configurable control modules cover conventional to advanced motor starter control schemes and protection requirements. Hereby the control scheme is totally independent from the power module. Thus the upgrade of control equipment can be carried out without any change within the starter module throughout the lifetime of the switchboard.

Wiring free control scheme for starter modules allow internal hardwiring or input / output assignment to module being obsolete.

Even new technologies can be implemented ensuring the Motor Control Center remains future proof. Open communication and Web Browser-based Human System Interfaces are open for adaptation to future requirements.

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