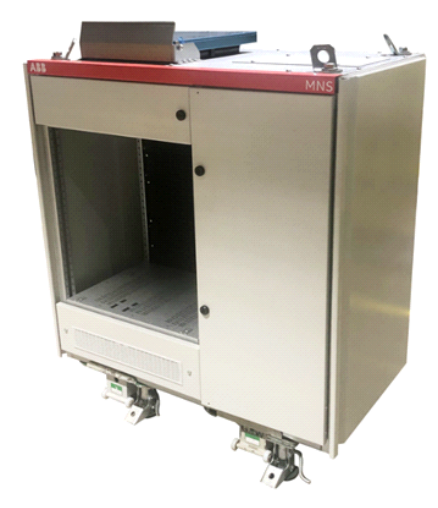
ELECTRIFICATION SERVICE SOLUTIONS

MNS Withdrawable Module Test Trolley

Keeping your equipment at optimal performance

Industrial Low Voltage switchgear operate relentlessly in harsh conditions and to keep them performing in optimal conditions increases availability and equipment safety. Assisting the inspection and verification process, ABB has released a standardized Module primary test tool that can be used safely and efficiently



Maximum protection. Test trolley is an enclosed assembly housing the control and power connection assemblies allowing an safe environment to carry out verification tests on withdrawable modules

Maximum uptime. The standardized solution increases efficiency with an intuitive operation flow. Lowering the time to test modules

V**erification.** Verification of the withdrawable module performance is via control circuit operation and current injection. Customization can be made to accommodate project specific requirements

ABB MNS Withdrawable(WD) module primary test tools are intended for providing easy-to-use and safe verification process. These easy-to-use compact test tool can be used for inspection during the pre-commissioning period, including troubleshooting, as well as for primary injection testing and function testing.

MNS withdrawable modules play an important role in the Low Voltage motor control center (MCC). It is the bridge between the switchgear and the loads; such as Motors, Variable speed Drives, Softstarters and Distribution Boards. It houses the critical equipment that provides protection and control of the motor. A malfunction of the withdrawable can cause loss of a motor which can have a cascaded effect to loose a critical process. Loss of such critical processes can cause safety risks, production down time or revenue loss.

The MNS WD Primary test tool has been developed to provide a safe platform to test and verify the withdrawable module that can be used from pre-commissioning to maintenance. The standard interface provides control power to the modules and it can be connected to a primary current injection device to verify the protection and measurement functions. The interfaces are standard MNS interfaces that can used with an industrial current generator which makes the testing process fast, safe and easy. The mechanical structure is identical to MNS Low Voltage switchgear. It has been designed, manufactured and verified according to IEC 61439-1/2.

MNS WD module primary test tool range
MNS WD module primary test tool can be used with the following types of MNS withdrawable modules:

- 8E/4 Module
- 8E/2 Module
- 4E Module
- 6E Module
- 8E Module
- 12E Module
- 16E Module
- 24E Module

Enabling a safe and efficient verification process. Saving time and increasing up-time

Electrical Characteristics

Rated Insulation Voltage (Ui)	1000 V 3 ~, **1500 V-**
Rated Operating Voltage (Ue)	Up to 690V 3 ~
Rated Frequency	Up to 60 Hz
Rated Current	Up to 750A
Type of Connection	3P + N
Degree of Protection	Up to IP54

Benefits

- Easy and fast function and primary injection testing during the entire MNS life cycle
- Minimized risk of damage to power and electrical equipment
- Less time required for testing the operation
- Short payback due to time savings and reduced number of configuration errors
- Increased operational safety due to fully sheltered housing
- Easy to use – basic training
- Ergonomic and portable

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