

## Magnum DS low-voltage switchgear Safety accessories

# Adapt with every advancement in safety and performance

At Eaton, safety and performance is paramount. With every advancement in safety and performance, Eaton adapts its low-voltage switchgear offering to continually maintain a balance between our customer's expectations and the possibilities of the day.

As new advancements are implemented, our commitment to the safety and performance of our install base is no exception. Eaton is equipped to provide upgraded safety and performance options for gear already in the field.

The products outlined in this document address solutions for maintaining arc flash safety for personnel, monitoring the health and proper operation of breakers and remote indication for quick evaluation of switchgear.

# EATON

*Powering Business Worldwide*



### Remote racking device (MRR1000)

The MRR1000 permits the operator to open and close a breaker from up to 25 feet away during the rack-in or withdraw process, well beyond the arc flash boundary for low-voltage switchgear.



### Remote operator pendant

The remote operator pendant allows the remote operation (open and close) of electrical operated (EO) breakers.

- Keeps operator well beyond the arc flash boundary during the operation of the EO breaker



### Breaker test kit (MTK2000)

The MTK2000 trip unit test kit is used to test and verify the pickup levels and time delay settings of a breaker's trip unit. Scheduled testing of the circuit breaker's trip unit will help to ensure proper operation of the breaker and will lead to safer and more efficient performance.



### Zone selective interlocking (ZSI) test kit

The ZSI test kit is designed for Magnum DS circuit breakers with Digitrip 520M, 520MC and 1150 trip units. The test kit enables functional testing of the ZSI system to ensure that the system is operational and providing the expected performance and incident energy reduction.



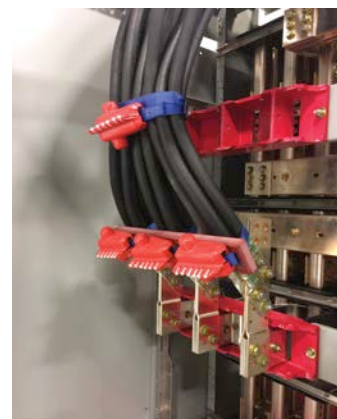
### Arc Quenching System (AQS) tester

The Arc Quenching System Tester is designed for testing and commissioning of the Arc Quenching System in Arc Quenching Magnum DS low-voltage switchgear. The tester puts the Arc Quenching Device into Test Mode and provides current injection to the Eaton Arc Flash Relay. Using the included high-powered laser for light sensor testing, the entire Arc Quenching System can be easily tested from end to end to ensure reliable system functionality.



### Cable lashing device

The cable lashing device can be used to secure cables faster, easier and more reliably when compared to the traditional rope lashing method. Cable lashing is used to stabilize phase cables in the event of a fault to reduce cable movement and prevent damage to the switchgear and cables.



### Safety shutters

Positive acting safety shutters that isolate the breaker connections to the main bus when the breaker is withdrawn from the cell is an option offered for additional safety beyond our standard design.



### Magnum™ shutter module

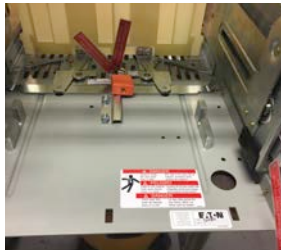
The Magnum shutter module is used to test the operation of the shutters with the breaker removed. It also permits access to the bus stabs for inspection and testing.





### Shutter and rail locking devices

For use with the optional Magnum DS low-voltage switchgear breaker shutters, the shutter and rail locking devices prevent accidental contact with the breaker stabs when the breaker is removed. The shutter and rail locking devices ensure that safety shutters cannot be manually bypassed to expose the breaker stabs and prevent the racking in of a breaker.



### Provisional cell covers

Provisional cell covers provide protection for unintentional exposure to live components in the provisional cell. The cell covers are optional for non-arc-resistant switchgear and are required to maintain the arc-resistant rating on arc-resistant switchgear.



**Arc-resistant switchgear breaker cell provisional cover**



**Non-arc-resistant switchgear breaker cell provisional cover**

### Arcflash Reduction Maintenance System™ and light

The Arcflash Reduction Maintenance System allows activation of the Maintenance Mode within the trip unit. The blue light will provide a visual indication of the trip unit being in Maintenance Mode. The Maintenance Mode function of the Digitrip™ 520MC and 1150 will reduce arc flash incident energy.



### IR scanning windows for bus thermal scans

IR windows in electrical equipment allow an operator to complete a thermal inspection of electrical switchgear without opening cabinets or doors. Using infrared thermography technology, the operator is able to safely and quickly assess potential problems in the equipment while the circuits are energized and under load.



For more information, visit [Eaton.com/lva](http://Eaton.com/lva)  
or contact Eaton's aftermarket sales at  
**800-257-3278**

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
[Eaton.com](http://Eaton.com)

© 2019 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. SA019003EN / Z22720  
April 2019

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.

