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# Tru-Break switchgear module

Because there's no room for doubt when it comes to safety.

No one should have to guess whether it's safe to do their job. With the Tru-Break switchgear module, the answer is always clear.

Elastimold solid-dielectric molded vacuum switches, interrupters and switchgear are now available with the Tru-Break switchgear module that makes it easy for linemen to switch the handle to the open position and visually verify the isolating gap in the conducting path. With the certainty that the circuit is open, they can begin their internal process and steps to safely ground the line and perform maintenance on the de-energized, isolated and grounded circuit.

- Rated for 15–29.3 kV, 630 A, 20 kA systems
- IEEE 386 600-amp interface bolted connection
- Dead-front construction and hot-stick operable
- Clear viewing windows for easy visual verification of contact status
- Compact, modular and mechanically interlocked with connected switch or interrupter
- Capable of withstanding full 125 kV basic insulation level (BIL) impulse voltage without needing the vacuum bottle connected in series for voltage withstand support
- Submersible and storm-hardened — designed for use in harsh vault and pad-mount environments
- Retrofittable options available for existing Elastimold three-phase MVS switches or MVI interrupters and one- to six-way switchgear
- Tested to the IEEE C37.74-2014 standard



Open position



Closed position



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**ABB Inc.**  
Electrification Products  
Memphis, TN  
USA

**[go.abb/trubreak](https://go.abb/trubreak)**

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PRODUCT BROCHURE

**Elastimold<sup>®</sup>**

Tru-Break<sup>™</sup> switchgear module



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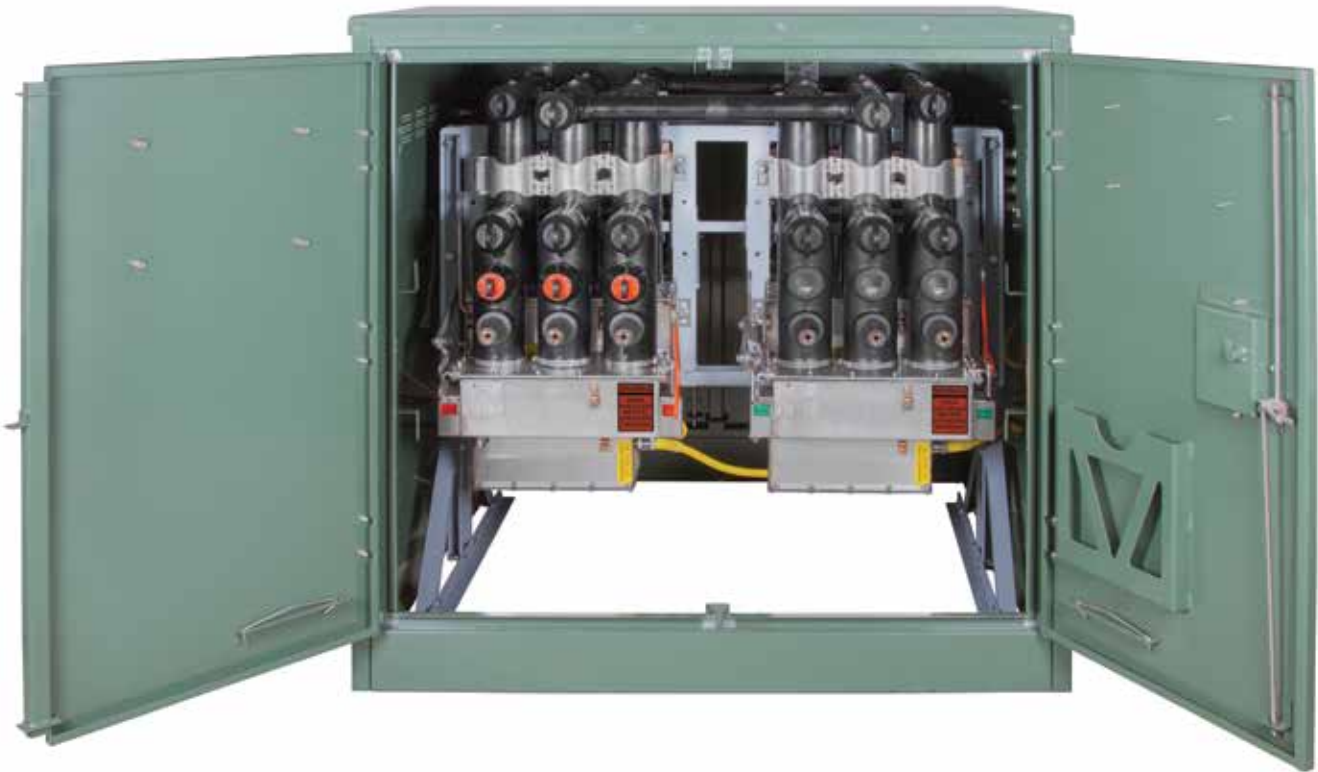
Seeing is believing.



Designed to provide an added level of safety for linemen, the Tru-Break switchgear module is an innovative, hotstick-operable modular unit that mechanically interlocks with the connected switch or interrupter, so that the Tru-Break switchgear module's handle cannot be operated if the switch or interrupter is in the closed position and the vacuum bottle is conducting current.

The modular design offers the important advantage of enabling economical retrofit of the Tru-Break switchgear module to Elastimold switchgear already installed in the field.

For time-saving convenience and added safety, the 1.75-inch glass-covered viewing windows have hotstick-removable caps to keep them clean for clear, easy viewing of contact status — even in wet, dirty vault applications.



#### **Safe.**

- Dead-front construction with clear visual verification of circuit isolation
- Positive-latching handle ensures that unit is in fully open or fully closed position
- EPDM rubber eliminates the need for venting ports required with rigid epoxy constructions
- Capable of withstanding full 125 kV BIL impulse voltage without the need for vacuum bottle series-connected support
- ANSI/IEEE standard 600-amp bolted connection points can be ordered with standard Elastimold cable accessory grounding devices to incorporate easy, built-in grounding capability

#### **Reliable.**

- Uses a proprietary EPDM rubber formulation — field proven for over 50 years — on a solid-dielectric platform
- Uses silicone diaphragm and air as an insulating medium
- Maintenance-free operation — no oil or gas\*
- Rated and tested for optimum performance, even in the harshest environments

#### **Flexible.**

- Rated for use with 15–29.3 kV, 630 A, 20 kA systems
- Rugged and submersible for multiway pad-mount or vault applications
- Compact size minimizes impact to switchgear footprint
- Modular design allows the potential for economical retrofit of existing Elastimold switchgear

\* The Elastimold Tru-Break switchgear module is considered maintenance-free because it contains no oil or gas to monitor or maintain.

# Big performance. Small package.

## Tru-Break switchgear module ratings

|  |                     |
|--|---------------------|
| Maximum system voltage                   | 17.1 kV and 29.3 kV |
| Continuous load current                  | 630 A               |
| Short circuit withstand current          | 20 kA               |
| Power frequency withstand voltage        | 60 kV AC            |
| Lighting impulse withstand voltage (BIL) | 125 kV              |

Note: Ratings and testing per IEEE/ANSI 37.74.

## Tru-Break switchgear module dimensions

|        |                      |
|--------|----------------------|
| Width  | 18 inches (457.2 mm) |
| Height | 20 inches (508.0 mm) |
| Weight | 97 lbs (44 kg)       |

Note: Dimensions are approximate.

## Elastimold standard three-phase switch and interrupter product ratings that can be supplied with the Tru-Break option

|  | 12.5 kA | 16 kA | 20 kA |
|--|---------|-------|-------|
| <b>3-phase MVS molded vacuum switch</b>      |         |       |       |
| 15 kV  | •       | •     | •     |
| 27 kV  | •       | •     |       |
| <b>3-phase MVI molded vacuum interrupter</b> |         |       |       |
| 15 kV  | •       | •     | •     |
| 27 kV  | •       |       |       |

