A perfect fit for every substation: SION vacuum circuit-breaker
How compact, multifunctional and easy to integrate can a vacuum circuit-breaker for medium voltage be?
Benchmark in flexibility and easy installation.
The fulfillment of a vi-
SION
SION – an overview

SION

- can be integrated quickly and easily into any switchgear panel
- is a superior solution for all switching functions in medium-voltage networks
- includes everything required for long-lasting operation and switching under short-circuit conditions

SION

is the new line in medium voltage
Compact design. Low overall depth. Optimum dimension.
Keeping it small is a sign of greatness

12kV up to 31.5kA and 2500A

Dimensions in mm

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<th>A</th>
<th>B</th>
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<td>A</td>
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A: Pole center distance
B: Width
C: Width across flats
* : up to 1250A
Simple installation, flexible wiring. The result of extreme precision.
Inside views from a variable product range

- Fixed installation
- Drawout circuit-breaker
- Drawout circuit-breaker with contact arms, fixed contacts and bushings
- Drawout circuit-breaker in cartridge with bushings and shutters

7.2kV – 17.5kV up to 40kA and 3150A
24kV up to 25kA and 2500A
Quality and flexibility as a result of an intelligent concept

- Air-insulated by ingenious utilization of insulating material
- Modular platform
- Various selection of different pole center distances and widths across flats
- Proven stored-energy spring mechanism
Functionality, quality and form are united in a perfect fusion.
The latest product of three decades of expertise

- 10,000 maintenance-free operation cycles
- Reliable functioning even under maximum stressing
- High level of protection against flashover to ground
Your advantages are our mission.
SION is compact

How you experience it

- Compact design
- Reduced dimensions
- Least depth

How you benefit

- Basis for panels of reduced size
- Easy to integrate
- Most suitable for retrofit business
- Reduction of material and handling costs
SION reduces complexity

**How you experience it**
- Identical dimensions 7.2kV to 17.5 kV up to 31.5 kA and 2500A

**How you benefit**
- Reduction of panel variety
- One spare breakers can be used for different panels
- Cost reduction
SION is modular

How you experience it

- Modular system
- Common look of the whole series
- Full range up to 40kA, 3150A
- Wide selection of pole center distances and widths
- Fitting components packages

How you benefit

- Reduction of panel variety
- Modularization of panel design
- Easy to integrate
SION is flexible

How you experience it

- Separate low voltage interface with easy access
- Connection possibilities: terminal strip, 24/64pole plug

How you benefit

- Flexibility in secondary wiring
- Enhancement of in-house value added
SION is installation-friendly

**How you experience it**

- Type tested connection area
- Proven distances to side wall and rear

**How you benefit**

- Reduced effort for type testing of panel
SION is safe and robust

How you experience it

- Intelligent material mix selection
- For minor distances plastic insulation
- For special mechanical and dielectrical properties thermoset insulation material

How you benefit

- Less fire load in comparison to cast resin embedded design
- Increased safety
SION is reliable

How you experience it

- Reliability and availability
- Perfected vacuum technology
- Utilization of proven components for the operating mechanism
- “Made in Germany”

How you benefit

- Increase of panel reliability
- Reduction of operation/maintenance effort
- “Siemens inside” – enhanced panel value
SION means quality

**How you experience it**

- Type testing according IEC 62 271-100 Class E2, M2, C2
- Type testing of relevant parts of IEC 62 271-200
- CAD documentation for drawings available

**How you benefit**

- Reduced testing effort for panels
- Easy to integrate
SION is fast

How you experience it

- Short lead time
- “48 hours” - emergency delivery

How you benefit

- High flexibility towards end customer requirements
- Enhanced scope of decision - ordering when all specifications are clarified
- Avoidance of changes
## SION – the portfolio

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**PCD:** Pole center distances  
**WAF:** Width across flats  
Fixed installation/drawout version with accessories  
Slide-in module
SION
The new line in medium-voltage.
Thank you very much for your attention