

Your HB3-C system configuration

siemens.com/hb3-c

The most versatile solution for your retrofit application and new projects

With its HB3-Compact Siemens provides an unique generator circuit breaker solution to the most challenging constraints. It offers one of the highest level of customization: The HB3-C can be mounted either vertically or horizontally, its phase-to phase spacing and phase height axis can be adjusted to match perfectly the existing busbar connection points. Optionally, the circuit-breaker can be fitted with integrated line disconnecting switch and earth disconnecting switch on generator side and/or on transformer side.

A compact design that meets all requirements:

- Maintenance free vacuum technology with up to 10,000 operating cycles at full nominal rated current
- Features full-spring operating mechanism stated to be the most reliable* way to operate a GCB with lifespan up to 20,000 operation
- Equipped with sealed-for-lifetime** vacuum interrupter
- Simplified footprint without dynamic forces during switching operations that facilitates designing and sizing of the GCB supporting structure
- Effortless on-site erection thanks to forklift-ready design or retractable wheels

Your configuration

Horizontal installation

Common frame

Rated nominal current up to	Short circuit ratings up to
15,000 A	110 kA
Save up to	

75% OPEX

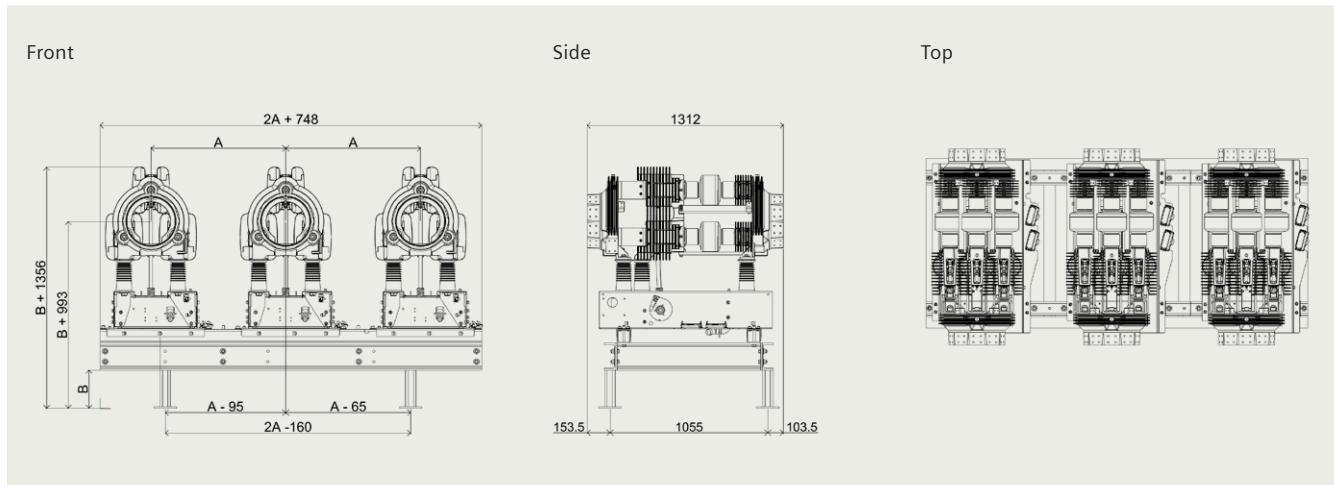
Please contact us to receive detailed information: generatorswitchgear.energy@siemens.com

* Most reliable operating mechanism as per final report number A3-00 from the CIGRE 2012 General Report SC A3.

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Technical information

Footprint view in mm



Switchgear mechanical configuration

Arrangement	Horizontal installation
Type of frame	Common
Surface treatment of the supporting steel frame structure	Hot dip galvanized
Distance between the local control panel and the nearest pole	2 m

Switchgear dimensions

Dimension	Un	BIL
A		
min 750 mm	< 12 kV	75 kV
min 800 mm	< 15 kV	95 kV
min 800 mm	< 17.5 kV	110 kV
min 900 mm	< 27 kV	125 kV
B	Customer specific	

Switchgear main electrical ratings (up to)

Standards	IEC 62271-1: 2012 IEEE C37.013: 1997 IEC / IEEE 62271-37-013: 2015
Applicable standards	
Current rating	
Operated current at ambient temperature of 40°C at 50 Hz	15,000 A
Voltage ratings	
Rated frequency	50 & 60 Hz
Rated maximum voltage	24 kV
Rated power-frequency withstand voltage / across isolating distance	60 kV
Rated lightning impulse withstand voltage / across isolating distance	125 kV
Short time and peak current	
Rated operating short-circuit breaking current	110 kA
Rated operating short-circuit making current	302 kA
Rated operating short-time withstand current / duration	
Generator circuit	110/3 kA/s
Rated operating peak withstand current	302 kA

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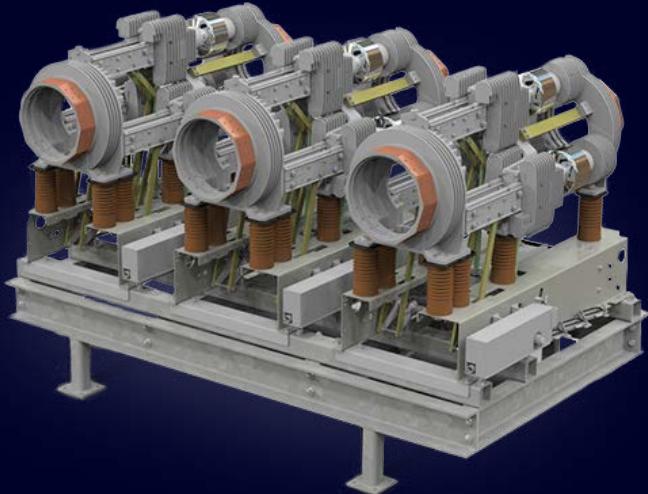
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Your configuration

Horizontal installation

Common frame

Main-disconnector

Rated nominal current up to
14,000 A

Short circuit ratings up to
110 kA

Save up to
75% OPEX

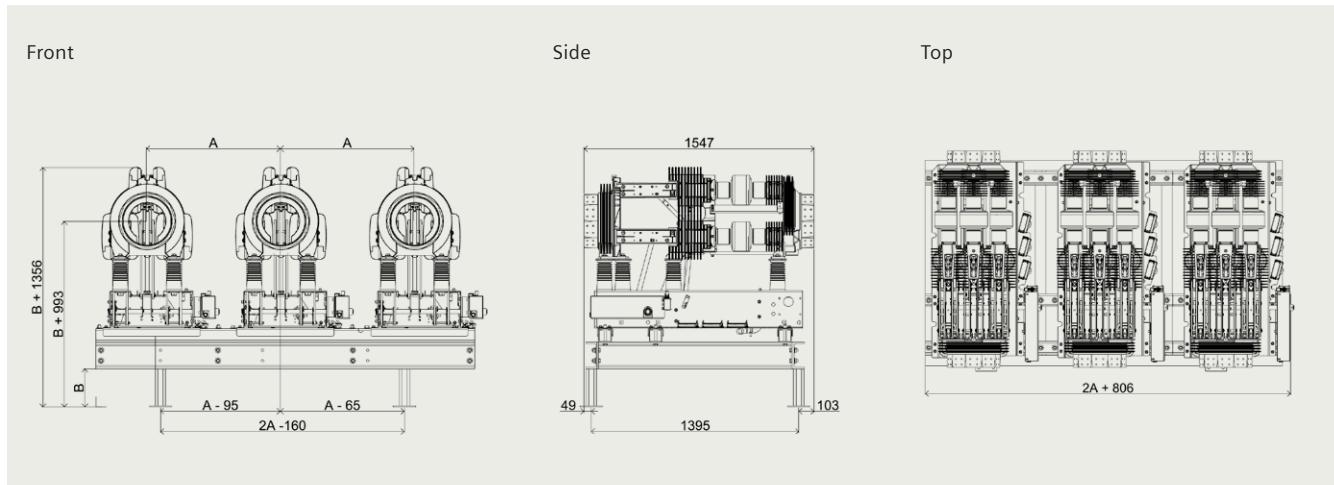
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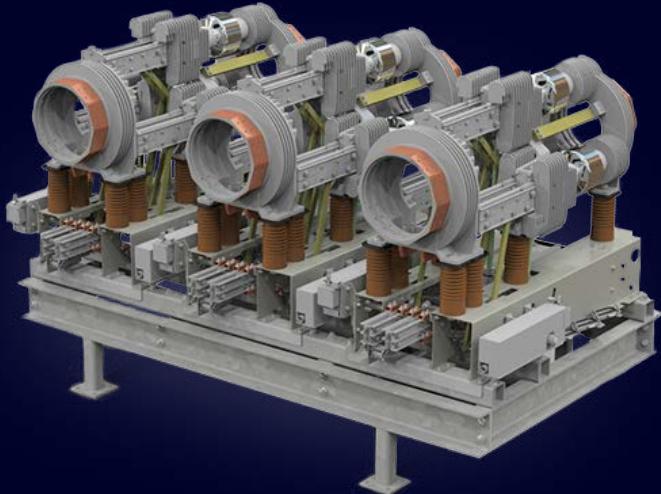
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Horizontal installation

Common frame

Main-disconnector

**Earthing switch
transformer side**

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current up to

14,000 A

Short circuit
ratings up to

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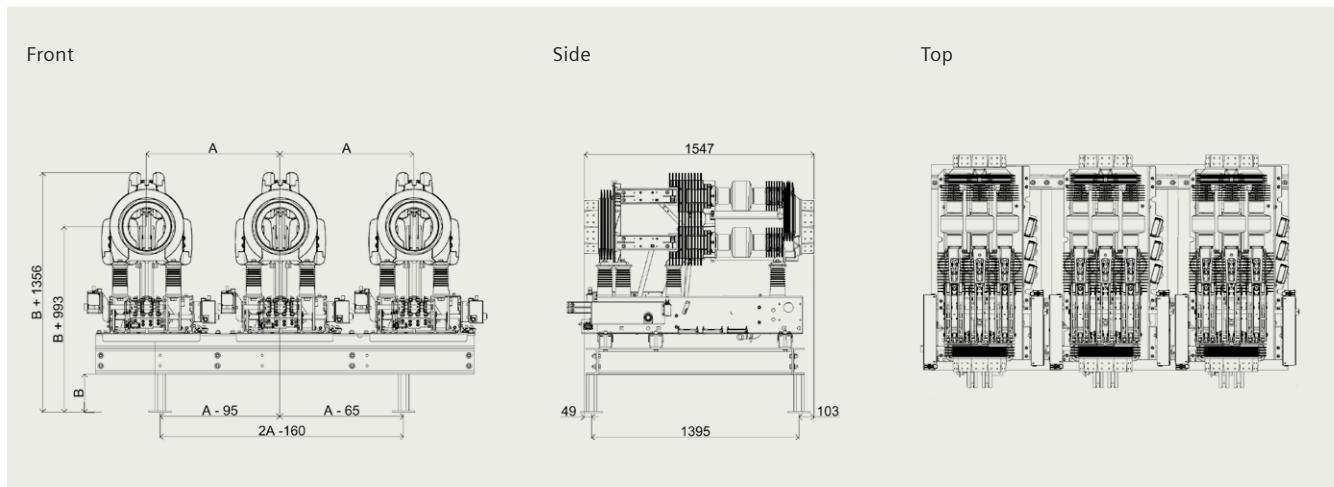
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Earthing circuits	110/1 kA/s
Rated operating peak withstand current	302 kA

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B	Customer specific	

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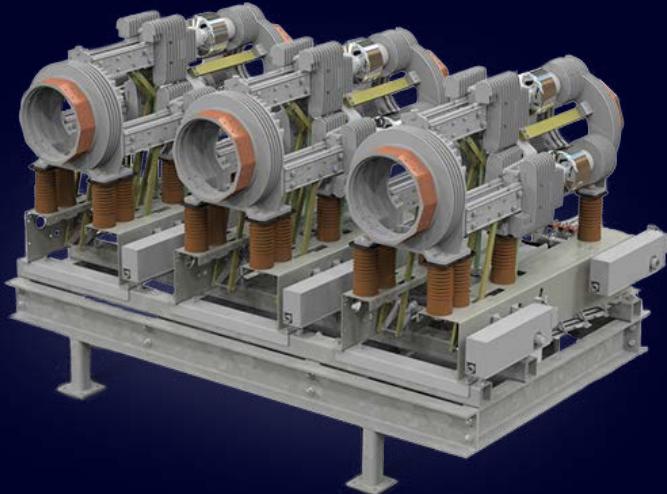
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Your configuration

Horizontal installation

Common frame

Main-disconnector

Earthing switch generator side

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14,000 A

Short circuit ratings up to

110 kA

Save up to

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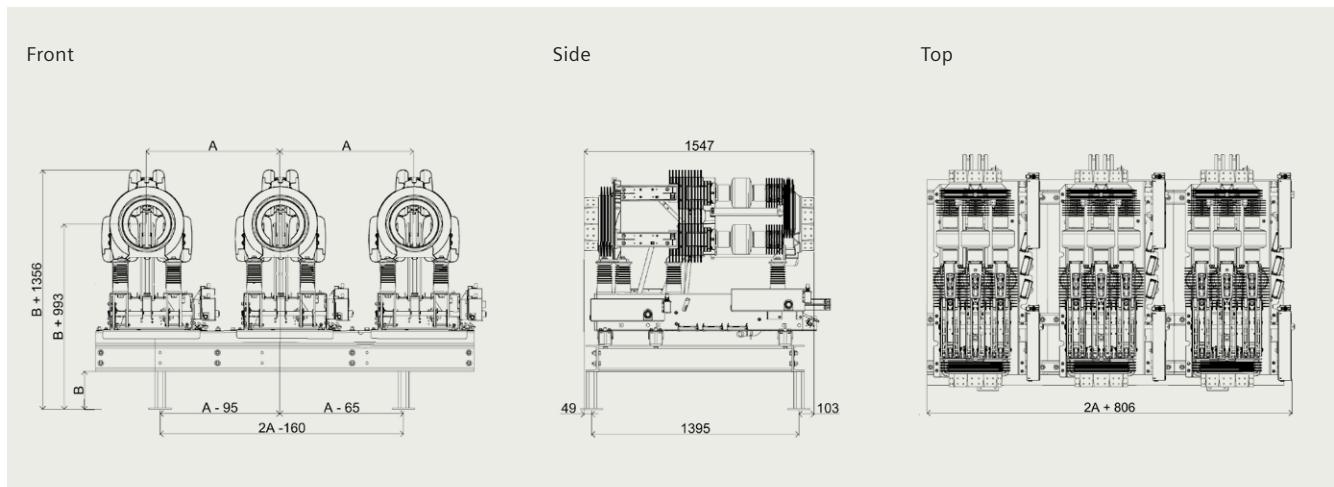
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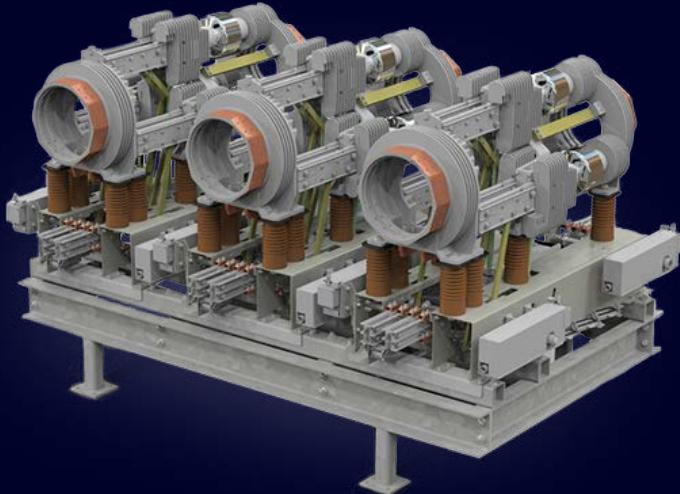
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Your configuration

Horizontal installation

Common frame

Main-disconnector

**Earthing switch
transformer side**

**Earthing switch
generator side**

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current up to

14,000 A

Save up to
75% OPEX

Short circuit
ratings up to

110 kA

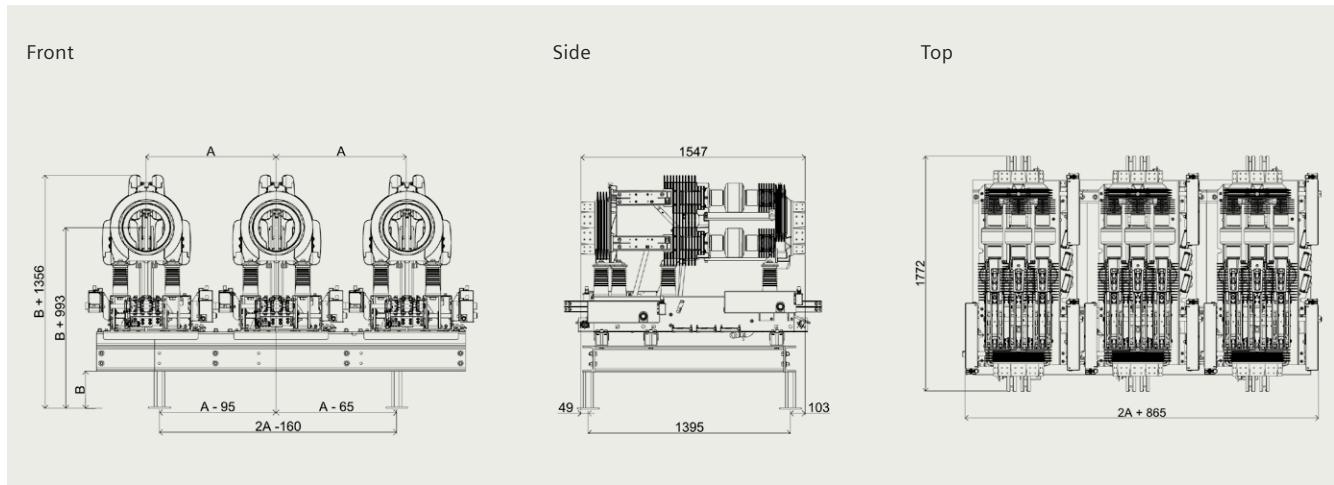
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Horizontal installation

Common frame

**Earthing switch
transformer side**

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15,000 A

Short circuit
ratings up to
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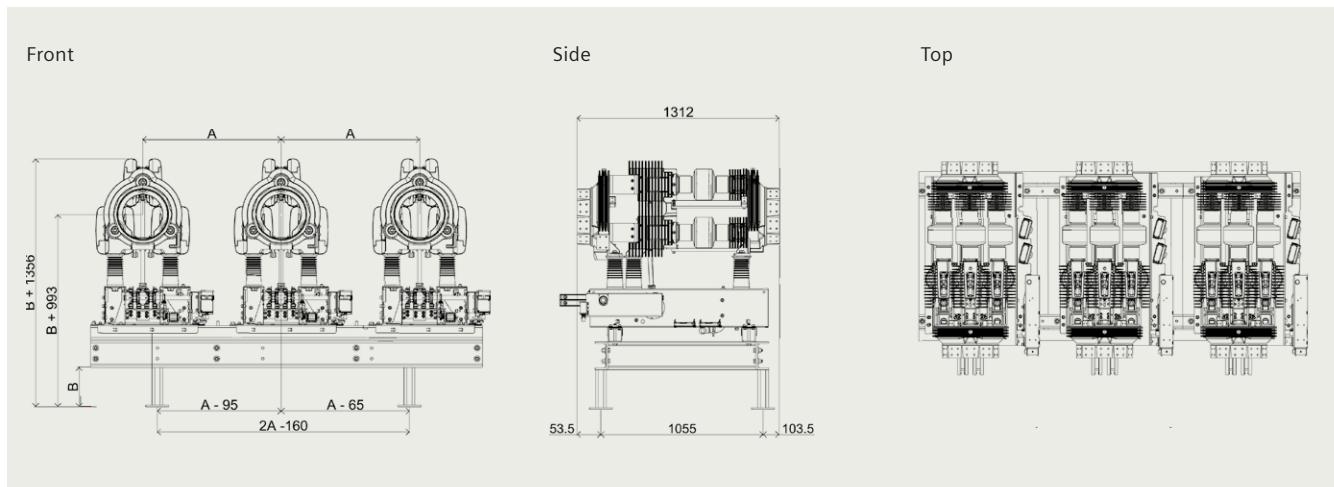
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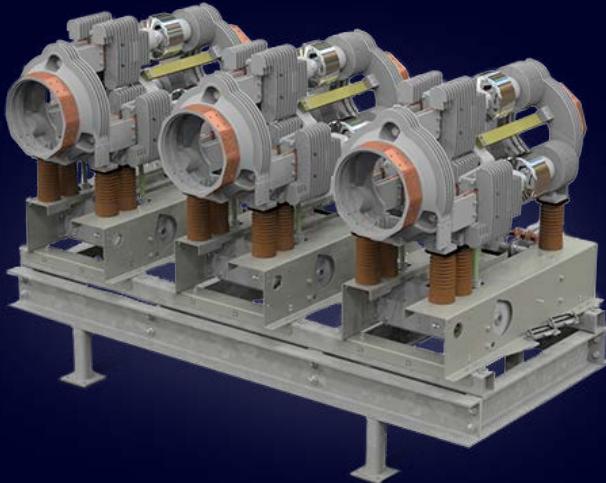
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Horizontal installation

Common frame

Earthing switch generator side

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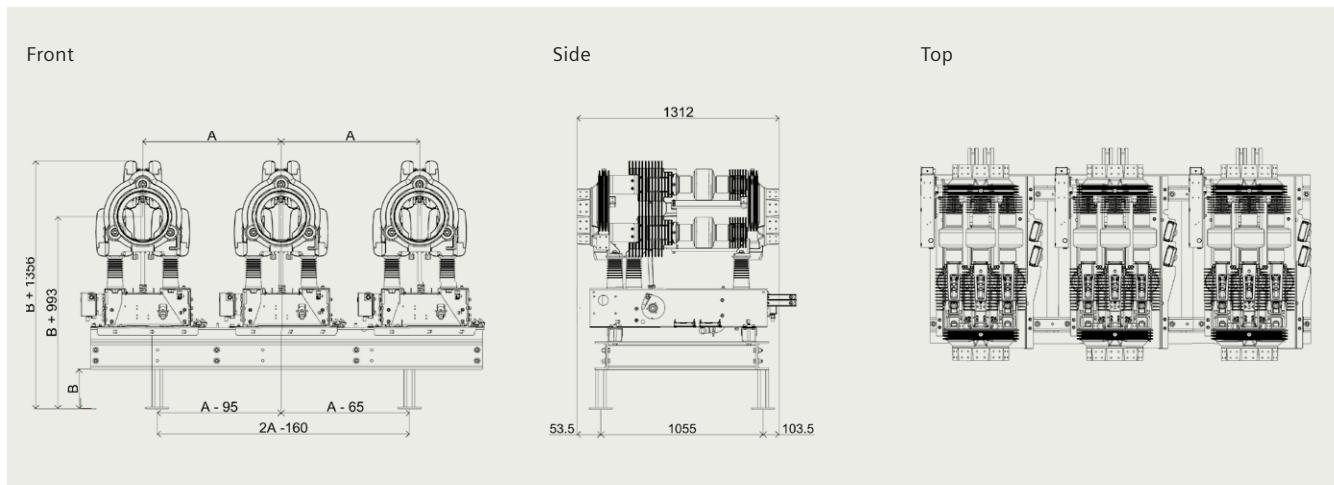
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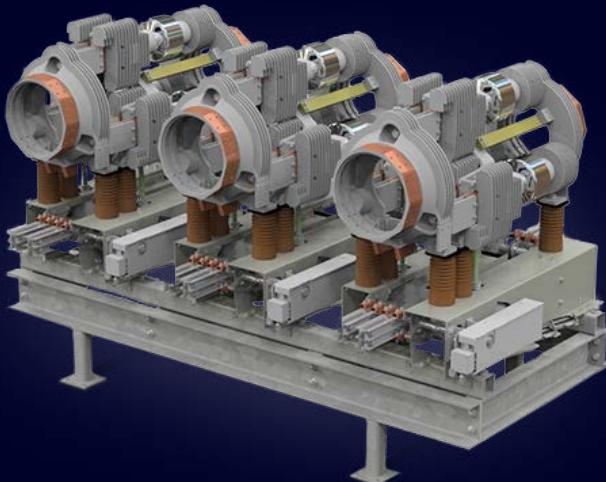
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Horizontal installation

Common frame

Earthing switch transformer side

Earthing switch generator side

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Save up to

75% OPEX

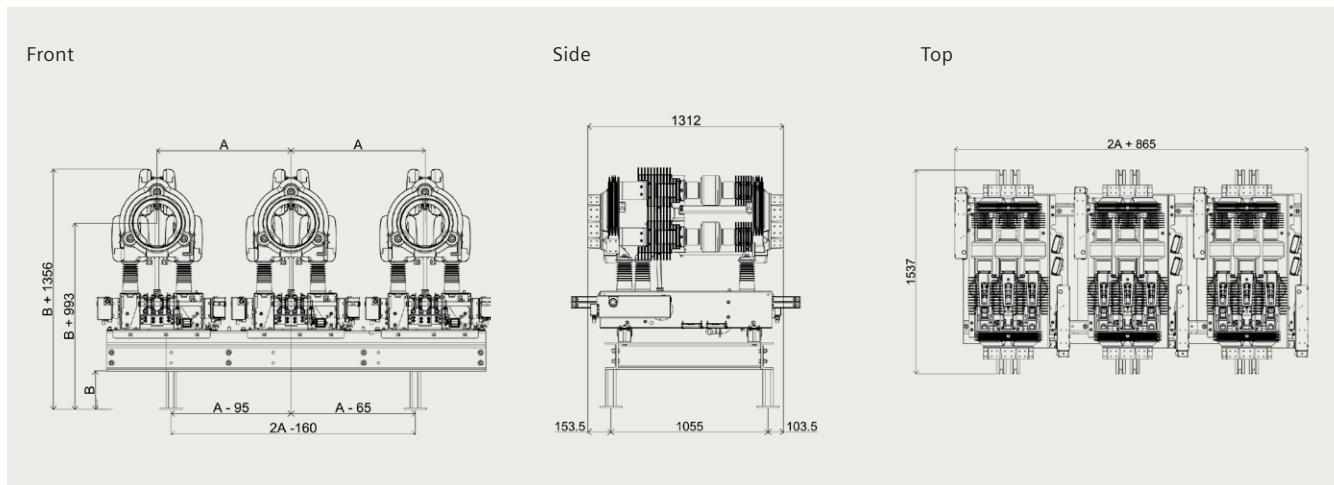
Please contact us to receive detailed information: generatorswitchgear.energy@siemens.com

* Most reliable operating mechanism as per final report number A3-00 from the CIGRE 2012 General Report SC A3.

** R. Renz, D. Gentsch, P. Slade, H. Fink, M. Schlaug, "Vacuum Interrupters – Sealed for Life", 19th Int. Conf. on Electr. Distr. (CIRED), Paper 0156, 21-24 May 2007

Technical information

Footprint view in mm



Switchgear mechanical configuration

Arrangement	Horizontal installation
Type of frame	Common
Surface treatment of the supporting steel frame structure	Hot dip galvanized
Distance between the local control panel and the nearest pole	2 m

Switchgear dimensions

Dimension	Un	BIL
A		
min 800 mm	< 12 kV	75 kV
min 800 mm	< 15 kV	95 kV
min 800 mm	< 17.5 kV	110 kV
min 900 mm	< 27 kV	125 kV
B	Customer specific	

Switchgear main electrical ratings (up to)

Standards	IEC 62271-1: 2012 IEEE C37.013: 1997 IEC / IEEE 62271-37-013: 2015
Applicable standards	
Current rating	
Operated current at ambient temperature of 40°C at 50 Hz	15,000 A
Voltage ratings	
Rated frequency	50 & 60 Hz
Rated maximum voltage	24 kV
Rated power-frequency withstand voltage	60 kV
Rated lightning impulse withstand voltage	125 kV
Short time and peak current	
Rated operating short-circuit breaking current	110 kA
Rated operating short-circuit making current	302 kA
Rated operating short-time withstand current / duration	
Generator circuit	110/3 kA/s
Earthing circuits	110/1 kA/s
Rated operating peak withstand current	302 kA

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