



Version
1.1.6

PRODUCT INFORMATION

Sitras ASG15

1-pole air-insulated switchgear for
15 kV AC traction power supply

[siemens.com/rail-electrification](https://www.siemens.com/rail-electrification)

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The Sitras ASG15 air-insulated medium-voltage switchgear is intended for use as linking element between traction power distribution level and catenary system and ensures a secure and reliable power supply in single-phase 16.7 Hz railway systems.

The type-tested compact switchgear panels meets all the requirements today made to powerful AC traction power supply components.

Features

- Highest equipment and personnel safety
 - Metal-clad partitions
 - Internal arc classified
- Factory-assembled and compact
 - Panel-integrated control and protection technique
 - Integrated feeder-related contact-line testing device (AGP)
 - 40 kA circuit-breaker with only one interrupter
- High system availability but low life cycle costs
 - Use of low-maintenance components
 - Use of a circuit-breaker truck

Design

Compact design

- Small dimensions in face of full metal compartmentalization
- Use of a space-saving local device for contact-line testing (AGP)
- Powerful 40 kA vacuum circuit-breaker with only one interrupter
- Panel-integrated control and protection devices

Service and operation secure design

- Several metal-clad functional compartments
- Integrated pressure relief duct
- Integrated electrical and mechanical interlockings
- Feeder and busbar earthing via short-circuit-proof earthing switches
- Metall shutter system to prevent contact with energized parts
- Type-tested acc. to IEC 62271-200

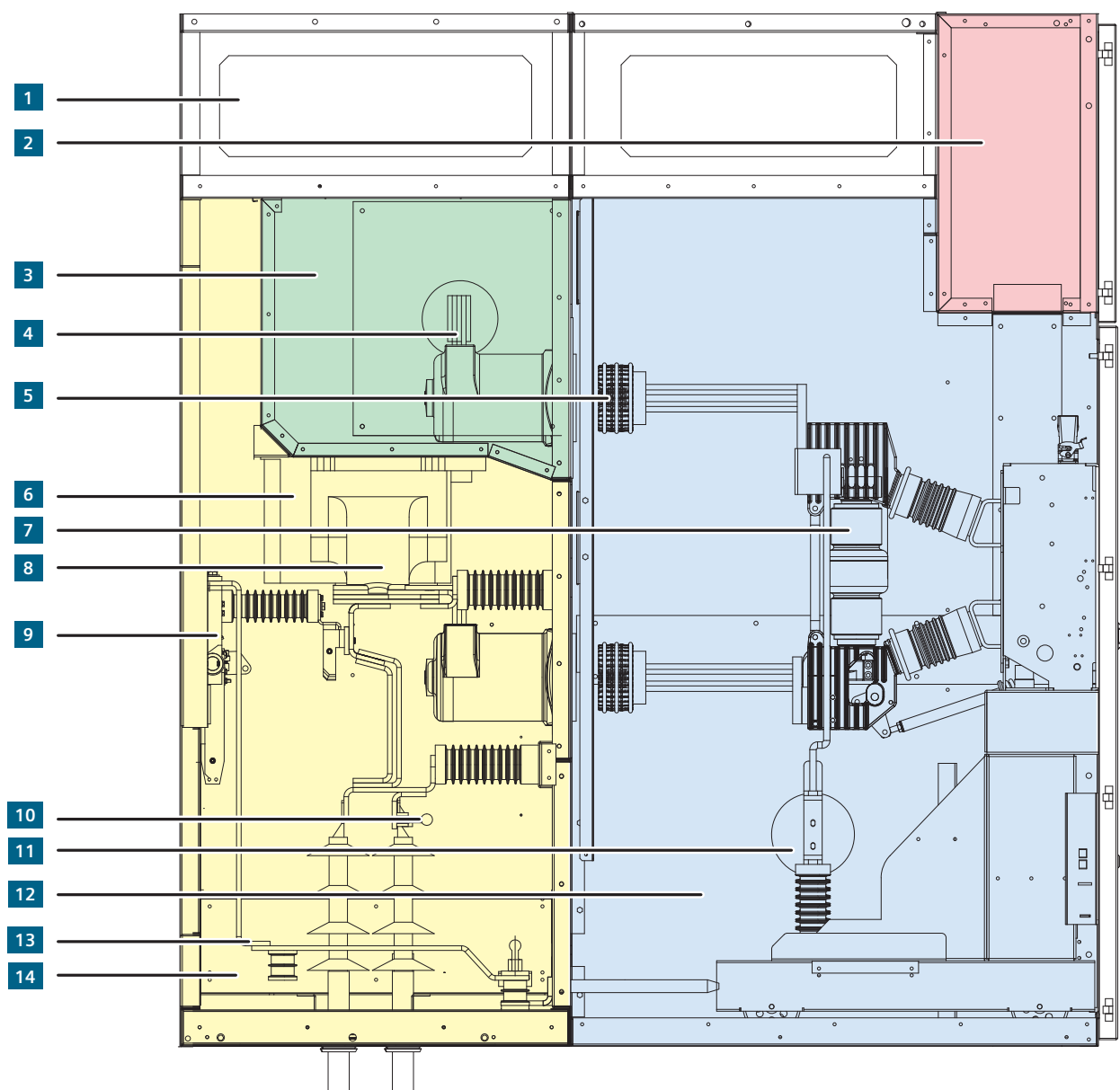
Low-maintenance design

- Use of proven almost maintenance-free components
- Reduced dust deposit due to metal-clad design
- Timesaving maintenance due to truck mounted circuit-breaker and contact-line testing device (AGP)

Mechanical design

- Robust Alu-zinc coated steel sheet frame
- Connection of up to four power cables by indoor cable sealing ends
- Different metal-clad compartments for circuit-breaker, cable connection, busbar and low-voltage

Layout of feeder panel



(left view, panel opened)

1	Pressure relief duct	6	Current transformer	11	Contact-line testing device (AGP)
2	Low-voltage compartment	7	Vacuum interrupter	12	Circuit-breaker compartment
3	Busbar compartment	8	Voltage transformer	13	Earthing bar
4	Main busbar	9	Earthing switch	14	Cable connection compartment
5	Tulip moving contact	10	Cable connecting plate		

Technical data

Sitras ASG15		Unit	Value
Nominal voltage acc. to EN 50163		[kV]	15
Rated insulation voltage acc. to EN 50124-1		[kV]	17.25
Rated frequency		[Hz]	16.7
Rated short duration power frequency withstand voltage		[kV]	50
Rated lightning impulse withstand voltage		[kV]	125
Rated short-circuit breaking current		[kA]	40
Rated short-time withstand current, 1 s		[kA]	40
Rated short-circuit making current		[kA]	100
Rated normal current feeder/busbar		[A]	2500 / 2500
Internal arc classification acc. to IEC 62271-200			IAC A FLR 40 kA 0.5 s
LSC category/partition class			LSC 2B / PM
Dimensions (approx.)	Height	[mm]	2250
	Width	[mm]	800
	Depth	[mm]	2000
Weight (approx.)		[kg]	1250
Degree of protection acc. to EN 60529			IP4X
Permissible ambient temperature		[°C]	-5...+40
Relative humidity (non condensing)			< 85 %
General standards		IEC 62271-1; IEC 62271-200	
Standards for railway applications		EN 50124; EN 50152	

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Otto-Hahn-Ring 6
81739 Munich
Germany

For more information please contact:

Siemens Mobility GmbH
Rail Infrastructure
Electrification
Siemenspromenade 6
91058 Erlangen
Germany

**electrification.mobility@siemens.com
[siemens.com/rail-electrification](https://www.siemens.com/rail-electrification)**

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One Penn Plaza
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