

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 busbur 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

Technical data

Sitras ASG15			
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]	2,500 / 2,500
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]	2,250
	Depth	[mm] [mm]	800 2,000
Weight (approx.)	Width Depth	[mm] [mm] [kg]	800 2,000 1,250
Weight (approx.) Degree of protection acc. to	Depth DEN 60529	[mm] [mm] [kg]	800 2,000 1,250 IP4X
Weight (approx.) Degree of protection acc. to Permissible ambient tempe	EN 60529	[mm] [mm] [kg] [°C]	800 2,000 1,250 IP4X -5+40
Weight (approx.) Degree of protection acc. to Permissible ambient tempe Relative humidity (non cond	Depth DEN 60529 rature densing)	[mm] [mm] [kg] [°C]	800 2,000 1,250 IP4X -5+40 < 85 %
Weight (approx.) Degree of protection acc. to Permissible ambient temper Relative humidity (non cond General standards	width Depth DEN 60529 rature densing)	[mm] [mm] [kg] [°C] IEC 62271	800 2,000 1,250 IP4X -5+40 < 85 % I-1; IEC 62271-200

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