Dry Air
Gas Insulated Switchgear

AGIS Series

AGIS 36

SF6 FREE

Switching Life to Infinity

aktif ELEKTROTEKNİK

Dry Air Gas Insulated Switchgear
AGIS Series

AGIS Series Primary Gas Insulated Switchgears replace SF6 which is the world's strongest greenhouse gas, using climate-friendly dry air insulation.

SF6 has been widely used for over 40 years in electrical equipment due to its electrical insulating and arc-quenching properties. However, SF6 is strong potential greenhouse gas with a high Global Warming Potential (GWP) and has raised concerns about its environmental impact and potential health hazards.

Aktif Dry Air Gas Insulated Switchgear maintains all the benefits of F-gas based GIS and provides additional safety and asset health features unmatched by the competition. Also free from following costs needed for SF6 GIS;

- Specialized SF6 gas equipment
- SF6 reporting obligations
- SF6 certification of Personal
- SF6 inventory keeping
- Training of Personal
- End-of-life disposal costs

The interior switching devices for all poles are enclosed by a metal vessel according to IEC 62271-200. The dry air gas is;

- Non-toxic
- No F-gases involved
- Climate-neutral
- Non-inflammable
- Chemically neutral

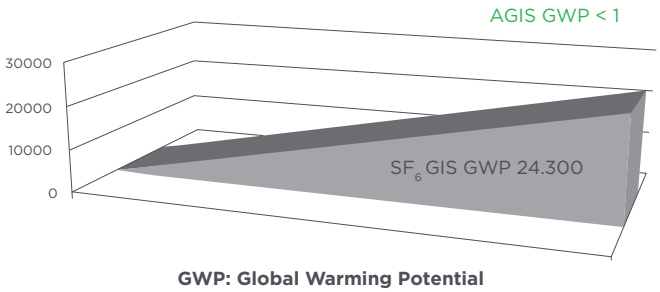
Application Areas

- Power Generation
- Transmission and Distribution
- Renewable Energy
- Heavy Industry
- Transformer Substations
- Oil and Gas
- Infrastructures and Buildings
- Transportation (shipyard, railways, airport)
- Chemical Industry
- Pipeline Installations

Color

- RAL 9003 for front covers
- RAL 7015 for side covers

Service Conditions		
Application Area		Indoor
Ambient Temperature	Min.	-5°C
	Max.	40°C
	Average period of 24h	35°C
Ambient Conditions		Heavy duty



GWP: Global Warming Potential

Technical Specifications

Description	Unit	Values
Rated voltage	kV	24 / 36
Power frequency withstand voltage	kV	50 / 70
Lightning impulse withstand voltage	kV	125 / 170
Rated frequency	Hz	50 / 60
Rated busbar current	A	Up to 2500
Rated feeder current	A	1250 / 2000*
Rated short time current	kA	up to 31.5 (3 s)
Rated peak withstand current	kA	78.8
Internal arc protection (AFLR)	kA	31.5 (1 s)

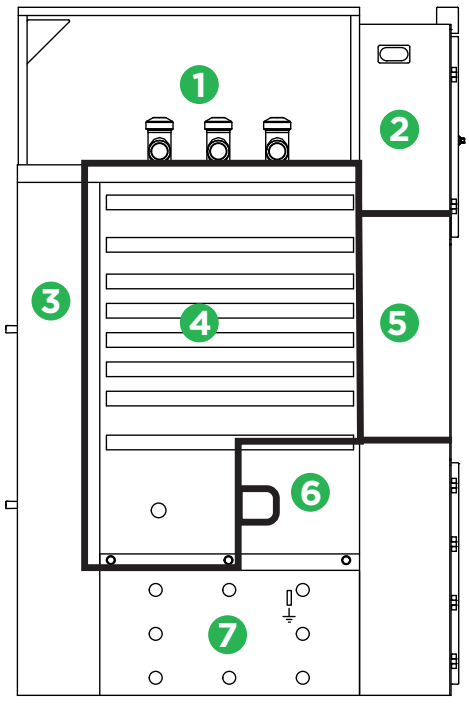
** To be ready by end of 2024*

Dry Air Insulation Medium	Unit	Values
Filling pressure (relative)	bar	2.0 at 20 °C
Min. operating pressure (relative)	bar	1.8 at 20 °C

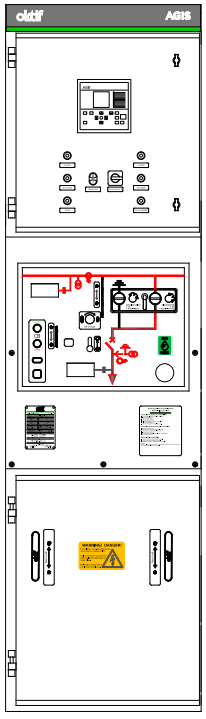
Circuit Breaker Endurance	Class	Standard
Electrical	E2	IEC 62271-100
Mechanical	M2	IEC 62271-100
Capacitive current breaking	C2	IEC 62271-100
Disconnector Endurance	**Class**	**Standard**
Electrical	E2	IEC 62271-102
Mechanical	M0	IEC 62271-102

Dimension		
Width	mm	650 (1250 A) 900 (2000 A)
Height	mm	2350
Depth	mm	1500

Typical Feeder Unit



1. Busbar Compartment
2. LV Compartment
3. Pressure relief duct
4. Switching Compartment
5. Drive Mechanism
6. Cable bushing
7. Cable Compartment



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Advantages

- Dry air insulation medium reduces the gas handling process and avoids F-gas leakage
- Climate-friendly natural gases
- Independent of ambient conditions and external parameters
- User-friendly thanks to modularity
- Reduction of operating cost thanks to maintenance free structure
- Its sealed pressure system is designed for min. 30 years of lifetime
- Accessibility of cable compartment, current and voltage transformers from front of the switchgear
- No relubrication or readjustment required during the lifetime
- Cost efficient and operation of devices based on logic functions leading to flexible and integrated solutions
- Fully type tested manufacturing
- Panel can be replaced without moving other panels and additional gas work
- 5 years warranty option

Features

- The design with Innovation, sustainablity and technology
- Can be equipped with intelligent sensors updating the health of the switchgear in real time
- Widely available as standard technical gas
- Sealed pressure system can protect against environmental effects (pollution, humidity and rodents)

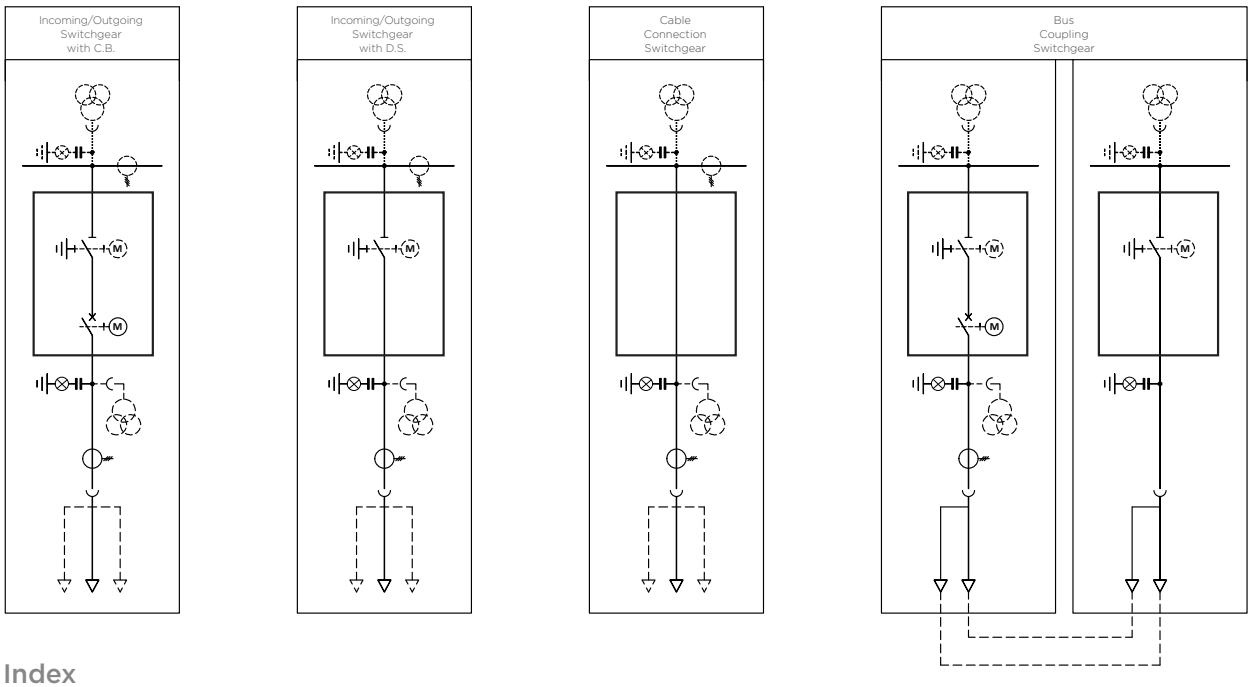
Safety

- AFLR internal arc classification
- LSC-2 Service Continuity Class
- PM Partition Class
- Protection class is IP 3X (doors are closed)
  IP 2X (between comp.)
- Logical mechanical interlocks according to IEC 62271-200 prevent maloperation
- Operational safety with special hinged door design
- No SF6 gas handling
- The shielded busbar ensures safe to-touch
- Mechanism operation at the ergonomic position in front of the switchgear

Standards

Components	IEC Standard	EN Standard
Switchgear	IEC 62271-1 IEC 62271-200	EN 62271-1 EN 62271-200
Circuit breaker	IEC 62271-100	EN 62271-100
Disconnector / Earthing switch	IEC 62271-102	EN 62271-102
Insulation	IEC 60071	EN 60071
IP code	IEC 60529	EN 60529
IK code	IEC 62262	EN 50102
Current Transformers	IEC 61869-2	EN 61869-2
Voltage Transformers	IEC 61869-3	EN 61869-3
Voltage Detection System	IEC 62271-213	EN 62271-213

Single Line Diagram of Typical Units



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Aktif - Dry Air Gas Insulated Switchgear design allows to add inductive current transformers as ring-core and solid insulated plug-in voltage transformers on cable and/or busbar compartment, optionally. Both can be mounted outside dry air switchgear vessel and easily accessible for maintenance.

Mounting possibility for up to three cables per phase using T-couplings. Alternatively, application with up to two cables and surge arrester per phase.

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Doc. Nr: AGIS-20260107/En Owing to periodical improvements of our products, the supplied products may differ in some details from the data stated in the prospectus material. Published by Aktif Data, subject to alteration without notice. Design & Creation: Aktif / Photos: Aktif - Stock.xchng & Shutterstock, Published Date: 07.01.2026

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