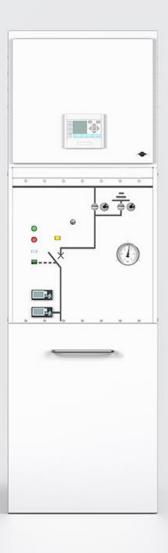
nuventura

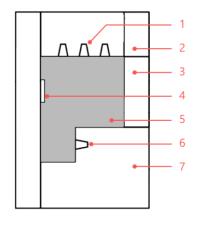


next-generation GIS

Nuventura's nu1 gas-insulated switchgear uses climate-friendly **dry air** insulation, maintains all the benefits of F-gas based GIS and provides **additional safety** and **asset health** features unmatched by the competition. The single busbar GIS covers the medium voltage primary distribution range **up to 36 kV**.

We license our technology to switchgear manufacturers to allow them to extend their product portfolio fast and efficiently. With our focus on R&D and product development, based on input from DSOs and the industry, we function as an R&D center and enable access to this new generation of switchgear to all switchgear manufacturers. The technology is suitable for the typical production capabilities of AIS GIS and manufacturers alike.

Plug & play: nuventura's flexible design for MV primary distribution



- 1. Busbar bushing
- 2. Low-voltage compartment
- 3. Drive compartment
- 4. Pressure relief
- 5. Gas-insulated tank
- 6. Cable bushing
- 7. Cable compartment

Technical data	IEC 62271-200 Data		
Rated voltage	kV	36	
Testing voltage (PF/Impulse)	kV	70/170	
Rated frequency	Hz	50/60	
Rated busbar current	А	1250/2000	
Rated feeder current	А	1250	
Rated peak withstand current	kA	78.8	
Rated short time current (3s)	kA	31.5	
Internal arc protection AFLR (1s)	kA	31.5	
Dry air insulation medium			
Filling pressure (relative)	bar	1.8 at 20 °C	
Min. operating pressure (relative)	bar	1.6 at 20 °C	
Operating temperature	°C	-5 + 40	
Dimensions			
Width	mm	650	
Height	mm	2300	
Depth	mm	1500	

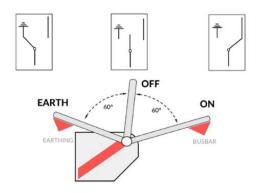
Switching devices

Circuit breaker

Class	Standard
M2	IEC 62271-100
E2	IEC 62271-100
C2	IEC 62271-100

Three-position disconnector

Class	Function	Standard
M0	Disconnecting Ready to earth	IEC 62271-102
E2	Earthing over CB	IEC 62271-102



Dry technical air insulation allows for new advantages

Dry technical air insulation:

- Climate-friendly natural gases (80% nitrogen, 20% oxygen)
- Widely available as standard technical gas
- No F-gas equipment and certification
- Increased personnel safety

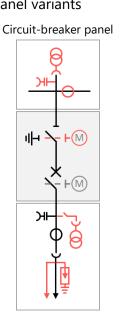
Accessibly sealed system requires no maintenance but allows for access to all components if necessary:

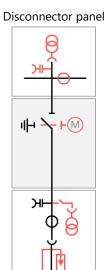
- Switching devices in gas tank
- Cable compartment
- **Busbars**

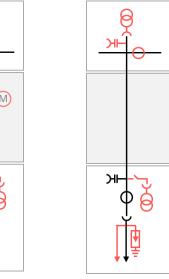
Direct connection panel

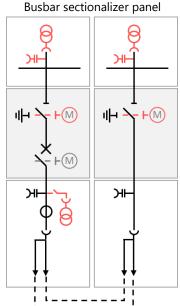
Low voltage compartment

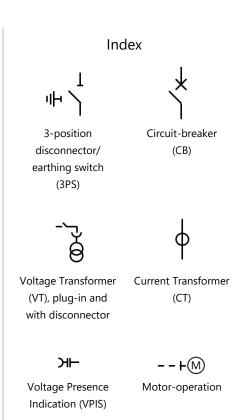
Panel variants

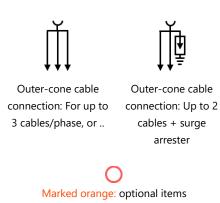












Nuventura GIS enables smart sensor integration to measures what matters

Nuventura sensors can be used to prevent functional breakdown and extend the lifetime of the switchgear. The sensor integration enables:

- Online monitoring of temperature and partial discharge via a single platform
- Passive measurement methods used to ensure long lifetime of sensors
- Simple GUI for local measurement display and configuration
- Connectivity to private SCADA networks or public networks via Modbus-RTU or Modbus TCP communication protocols.
- Additionally, long term local data storage on USB or micro-SD card if required

CONTACT DETAILS

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