

# SIEMENS

*Ingenuity for life*



up to  
17.5 kV  
for 50 kA

## NXAIR – “Enjoy the Air”

Air-Insulated Medium-Voltage Switchgear



NXAIR medium-voltage switchgear up to 17.5 kV for 50 kA is a proven solution for setting up and operating a reliable power distribution grid. It is applied worldwide in the most different industries and in selected areas of power generation and distribution. More and more complex network structures and increasing short-circuit power require new solutions.

Using switchgear in grids with high short-circuit currents implies special requirements. NXAIR offers maximum personal safety through the internal arc classification IAC A FLR 50 kA, 1 s, maximum availability through the loss of service continuity category LSC 2B, as well as maximum reliability through the partition class PM.

NXAIR is completely type-tested according to IEC 62271-200. The switchgear ratings are partly beyond the requirements of the IEC standards.

The switchgear can also be used for generator circuit-breaker applications up to 15 kV in all types of power plants by installing vacuum circuit breakers tested in accordance with IEEE C37.013.

With its compact design, low maintenance requirements and uncomplicated, reliable technology, NXAIR ensures uninterrupted operation as well as a sustainable increase of productivity.

NXAIR is an investment that pays off throughout its entire life cycle.

### Your benefits

- Saves lives
- Saves money
- Ensures peace of mind
- Increases productivity
- Preserves the environment



## Technical data of NXAIR up to 17.5 kV for 50 kA

Rated values						
Rated voltage	kV	≤ 12			17.5	
Rated frequency	Hz	50/60			50/60	
Rated short-duration power-frequency withstand voltage	kV	28 <sup>1)</sup>			38	
Rated lightning impulse withstand voltage	kV	75			95	
Rated short-circuit breaking current	kA	50			50	
Rated short-time withstand current (3 s)	kA	50			50	
Rated short-circuit making current	kA	125/130 <sup>2)</sup>			125/130 <sup>2)</sup>	
Rated peak withstand current	kA	125/130 <sup>2)</sup>			125/130 <sup>2)</sup>	
Rated normal current of busbar	A	4000			4000	
Rated normal current of feeders	A	400 <sup>3)</sup>	1250/1600	2500/3150/4000	1250/1600	2500/3150/4000
Width	mm	435	800	1000	800	1000
Height	mm	2500			2500	
Depth	mm	1650			1650	

1) GOST standard: 32 kV at 7.2 kV, 42 kV at 12 kV

2) 137 kA for installation with generator circuit-breaker in accordance with IEEE C37.013 up to 15 kV operational voltage

3) Contactor panel

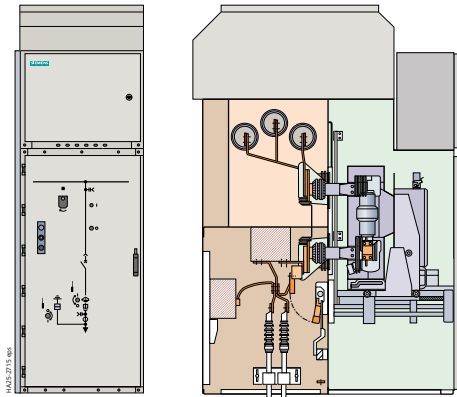
### Technical features

- Factory-assembled, type-tested switchgear according to IEC 62271-200
- Loss of service continuity category LSC B2
- Partition class PM (metal-clad)
- Internal arc classified switchgear according to IAC A FLR for an arc duration of 1 s
- Compact design
- All operations only with high-voltage door closed
- Unambiguous position indicators and control elements as standard on the high-voltage door
- Use of maintenance-free vacuum circuit-breakers or vacuum contactors
- Type testing of earthing switch, vacuum circuit-breaker or vacuum contactor in the panel
- Cable testing without isolating the busbar

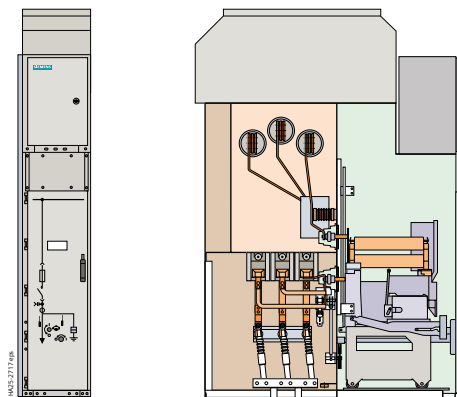
### Product range overview

- Circuit-breaker panel
- Disconnecting panel
- Metering panel
- Bus sectionalizer
- Contactor panel

### Example for circuit-breaker panel 50 kA



### Example for contactor panel 50 kA



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