SIEMENS



up to
17.5 kV
for 50 kA

AIR-INSULATED MEDIUM-VOLTAGE SWITCHGEAR

NXAIR – Enjoy the Air

siemens.com/nxair

NXAIR medium-voltage switchgear up to 17.5 kV, for 50 kA offers an environmentally friendly and sustainable basis for reliable power supply in various industries and selected areas of power generation and distribution thanks to its air-insulated technology. The switchgear can also be used for generator circuit-breaker applications in all types of power plants by installing vacuum circuit breakers tested in accordance with IEC/IEEE 62271-37-013.



Fit for the future thanks to possible features

IoT connection via SICAM A8000 and MQTT

Monitor switchgear health

Flexible visualization enables deep dive

With Electrification X part of Siemens Xcelerator

Your benefits

- Saves life – all operations only possible when the high-voltage door is closed
- Saves money by using maintenance free switching devices
- Ensures maximum reliability due to factory-finished, type-tested system according to IEC 62271-200
- Increases productivity through maintenance intervals of the switchgear > 10 years
- Protects the environment by using air as an insulating medium

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.

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

Rated values

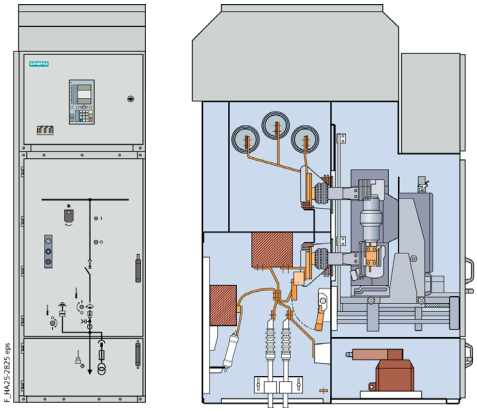
Rated voltage	kV	≤ 12			17.5	
Rated frequency	Hz	50/60			50/60	
Rated short-duration power-frequency withstand voltage	kV	28[1]			38	
Rated lightning impulse withstand voltage	kV	75			95	
Rated short-circuit breaking current	kA	50			50	
Rated short-time withstand current (3 s)	kA	50			50	
Rated short-circuit making current	kA	125/130[2]			125/130[2]	
Rated peak withstand current	kA	125/130[2]			125/130[2]	
Rated continuous current of busbar	A	4000			4000	
Rated continuous current of feeders	A	450[3]	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

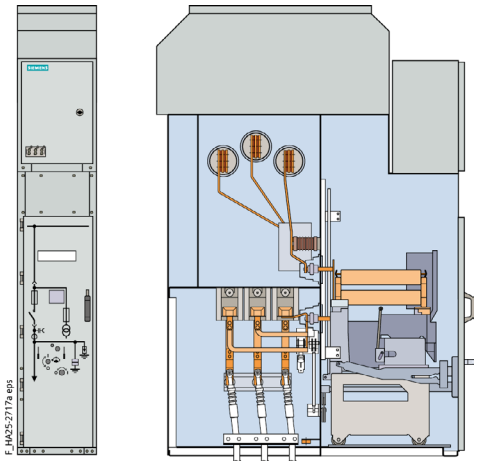
[2] 137 kA for installation with generator circuit-breaker in accordance with IEC/IEEE 62271-37-013

[3] Contactor panel

Example for circuit-breaker panel 50 kA



Example for contactor panel 50 kA



Technical features

- Factory-assembled, type-tested switchgear according to IEC 62271-200
- Loss of service continuity category LSC 2B
- 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
- Busbar connection panel

Catalog NXAIR up to 17.5 kV, for 50 kA

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