

# SIEMENS

*Ingenuity for life*



up to  
17.5 kV,  
up to 40 kA

## NXAIR – “Enjoy the Air”

Air-Insulated Medium-Voltage Switchgear



NXAIR medium-voltage switchgear up to 17.5 kV, up to 40 kA provides the user with a platform upon which to build a reliable electrical network. With more than 450,000 air-insulated panels installed worldwide, the product is continuously enhanced to integrate market-driven requirements in order to meet your needs. This guarantees safety in all respects – today and in the future.

With a worldwide network, and the exchange of solutions and the best practice, we ensure that experts from the region nearest to you are available to support you with NXAIR.

NXAIR offers maximum personal safety through the internal arc classification IAC A FLR up to 40 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.

NXAIR stands for maximum operational and personal safety, highest reliability, and operator friendliness. Thanks to its compact dimensions, minimum use of components requiring maintenance, and its simple and reliable operating mechanisms, NXAIR is real value for money, as life cycle cost calculations show.

### Your benefits

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



## Technical data of NXAIR up to 17.5 kV, up to 40 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	40			40			
Rated short-time withstand current (3 s)	kA	40			40			
Rated short-circuit making current	kA	100/104			100/104			
Rated peak withstand current	kA	100/104			100/104			
Rated normal current of busbar	A	4000			4000			
Rated normal current of feeders	A	400 <sup>2)</sup>	≤ 1000	1000/1250/ 2000	2500/3150/ 4000	≤ 1000	1000/1250/ 2000	2500/3150/ 4000
Width	mm	435	600	800	1000	600	800	1000
Height	mm	2300			2300			
Depth	mm	1400	1350 <sup>3)</sup> /1500			1350 <sup>3)</sup> /1500		

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

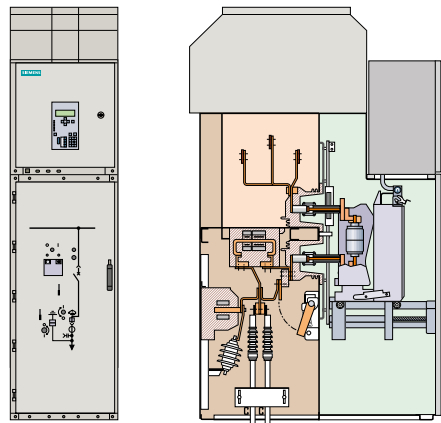
2) Contactor panel

3) ≤ 31.5 kA, ≤ 2500 A

### 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
- Confinement of an internal arc to the respective compartment (pressure-resistant partitions), beyond the specifications of the standard (up to 31.5 kA)
- 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

### Basic panel design



### Product range overview

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

© 2017 Siemens. Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

NXAIR is a registered trademark of Siemens AG. Any unauthorized use is prohibited. All other designations in this document may represent trademarks whose use by third parties for their own purposes may violate the proprietary rights of the owner.

Siemens AG  
Energy Management  
Medium Voltage & Systems  
Postfach 3240  
91050 Erlangen, Germany  
siemens.com/nxair

