

PIX High

Medium Voltage Switchgear for High Ratings



Heavy industrial process plants and power generating plants require a highly reliable supply of high power energy to ensure continuity of service.

To meet these specific needs, Schneider Electric has expanded the PIX medium voltage switchgear range with a new high rated version: PIX High.

Based on over 50 years experience providing air insulated switchgear - and with thousands of units installed around the world - this new PIX High version is a perfect completion of the PIX range in the high ratings segment.

The PIX High incorporates the latest design features including operating safety, technical performance and optimized internal arc capabilities. PIX High is ideally suited for energy distribution in diverse situations including power plants, Oil and Gas installations, industrial plants or in public networks.

ENHANCED PERFORMANCE

At rated voltages up to 17.5 kV, PIX High reaches operating currents up to 5000 A and short circuit currents up to 50 kA. It is designed with modular withdrawable trucks that can be fitted with a vacuum circuit breaker, metering or disconnecting truck. These design features ensure optimized use of space and allow easy installation.

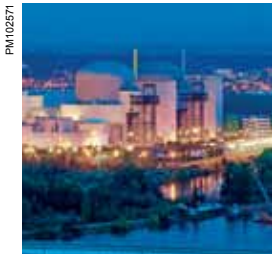
PIX High's cubicle structure offers an especially rugged construction, ensuring the highest personnel safety in case of an internal fault. The modular internal design and structure not only provides personnel protection, but limits the effect of an internal arc fault to one compartment - safeguarding the rest of the switchboard so that it will continue to operate. Your system remains operational as downtime is dramatically reduced.

PIX High is designed to meet the latest IEC 62271-200 specification as well as many national specifications.



CUSTOMER BENEFITS

- High performance (50 kA, 5000 A)
- Safe and user-friendly operation
- 50 kA-1s internal arc fault classification tested thanks to enhanced cubicle strength
- Easy access to all components
- Reduced space requirement



SAFE AND EASY OPERATION

PIX High cubicles are classically designed with four metallic compartments. The operating front is divided into three sections with clear allocation of the functional compartments for the operator. Pressure relief flaps are located on top of the cubicle, offering increased personnel protection in case of an internal arc. It's also assured that in high current feeder there are no ventilation louvers at the switchgear front.

All operations are carried out at the front of the cubicle with the panel (lifting door) closed. In addition, a comprehensive range of mechanical interlocks reinforced by interrogative interlocks prevent operational errors. These intelligent security interlocks are immune to external force, resulting in a safer environment for your personnel.

EASY ACCESS TO ALL COMPONENTS

PIX High has been designed for front access. As no additional installation or operating area is necessary behind the switchgear, the space requirement in the switchgear room is reduced to a minimum.

PIX High has been designed with three separate doors allowing easy front access to each individual compartment. In addition, the internal horizontal metal plate between cable and circuit breaker compartments can be quickly and easily demounted giving access for installation, inspection and testing in the cable compartment. A better accessibility to current and voltage transformer is reached (see drawing).

LATEST SWITCHING TECHNOLOGY

PIX incorporates Schneider Electric's proven vacuum circuit breaker HVX with spiral spring operating mechanism. The HVX circuit breaker range is characterized by extra low maintenance and rugged construction. It represents a truly economical and compact solution.



PIX with withdrawable HVX circuit breaker (in service position)

TECHNICAL CHARACTERISTICS			
Rated voltage	kV	12	17,5
Rated power frequency withstand voltage	kV	28	38
Rated lightning impulse withstand voltage	kV	75/95	95
Rated frequency	Hz	50/60	50/60
Rated short time withstand current	kA -3s	50	50
Rated peak withstand current	kA	125	125
Rated continuous current*	A	5,000	5,000
- busbar	A	5,000	5,000
- cubicle			
Earthing switch making capacity	kA peak	125	125
Internal Arc Classification (IAC) according to IEC 62 271-200	kA -1s	50	50
Degree of protection (optional)		IP3X (IP4X)	IP3X (IP4X)

*for high currents fan cooling is requested

DIMENSIONS		
Width	mm	800/1,000
Depth overall	mm	1,590
Height (with LV cabinet 630 mm)	mm	2,330
Height (overall with cooling/arc deflectors)	mm	2,800
Height (with gas absorber or gas evacuation tunnel)	mm	3,100

Schneider Electric Industries SAS

35, rue Joseph Monier
CS 30323
F - 92506 Rueil Malmaison Cedex (France)
Tél. : +33 (0)1 41 29 70 00
RCS Nanterre 954 503 439
Capital social 896 313 776 €
www.schneider-electric.com

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