



PIX

MV air insulated switchgear



Whether you generate, distribute or use electrical power, in today's economic climate, you need a cost-effective solution which is reliable, safe and easy to use.

In order to meet the demands of your specific application, from the simplest to the most complex project, we have developed PIX.

This versatile and cost-effective range of medium voltage switchgear comes with the ratings, features and customized configurations to exactly meet your needs.

THE KEY LINK FOR ALL YOUR DISTRIBUTION NEEDS

The PIX range of withdrawable switchgear provides versatile configurations up to 24 kV. It can be supplied in many different versions fitted with circuit breakers or contactors using either SF₆ or vacuum switching technology.

PIX combines well proven design features with innovative components derived from the collective experience gained by our factories worldwide over more than 80 years.

As a result, PIX's designs meet the requirements of both relevant IEC and ANSI international standards and other national specifications.



Customer benefits

- Versatile and reliable design
- Choice of SF₆ and vacuum switching technologies
- High performance & high ratings
- Safe, user-friendly operation
- Compact design
- Internal arc fault containment tested
- Reduced installation and maintenance costs



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EFFECTIVE PLANT AND NETWORK MANAGEMENT

Designed for easy installation and operation, PIX ensures a secure investment for the future by incorporating the latest developments in control, monitoring and automation.

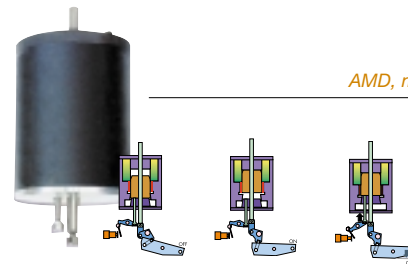
PIX cubicles can incorporate all the user-friendly digital control and protection relays necessary for flexible system configuration based on customer requirements. Standard solutions are available, using fully integrated digital control, protection and monitoring units which can be individually configured.

Using this latest digital technology, PIX can be easily integrated into any overall control and monitoring system. It provides detailed plant operating information to a central control unit, significantly improving the control and management of the complete plant or distribution network.

In addition, modifications to the control configuration during manufacturing, commissioning or future plant upgrades can be quickly and easily achieved without the need for any specialized equipment or programming knowledge.



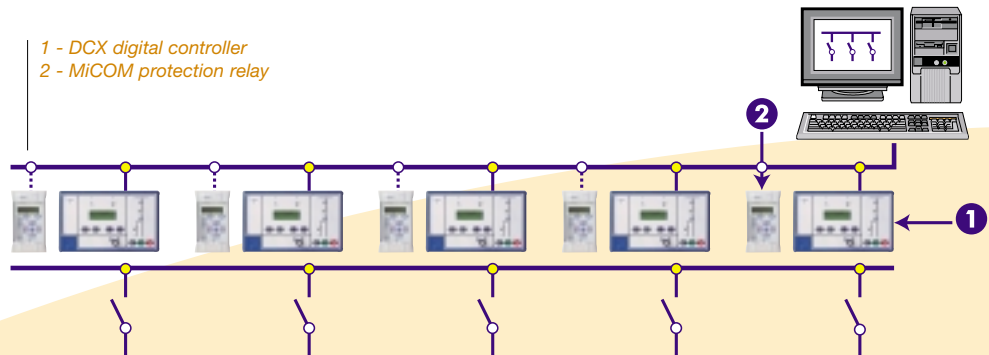
INNOVATIVE OPERATING MECHANISM

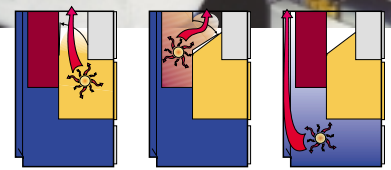


AMD, magnetic actuator

PIX is available with either conventional or magnetic actuator operating mechanisms.

The AMD magnetic actuator is the latest innovation in this field, offering all the functions of a conventional motor wound spring operating mechanism, with a significantly reduced number of parts. It can also perform many more operations before needing any maintenance.





SAFETY & EASE OF OPERATION

For maximum safety all operations are performed from the front with the door closed.

Operation is simple and logical, with clear status indication of all functions.

Comprehensive electrical interlocking in combination with robust mechanical interlocks ensures the maximum safety of both plant and personnel.

EASY ACCESS TO ALL COMPONENTS

PIX has been designed for front access to minimize space requirements.

The functional design of the front panels affords easy access to the separate compartments within the cubicles. In addition internal partitions can be quickly and easily removed to facilitate access for installation, inspection and testing.

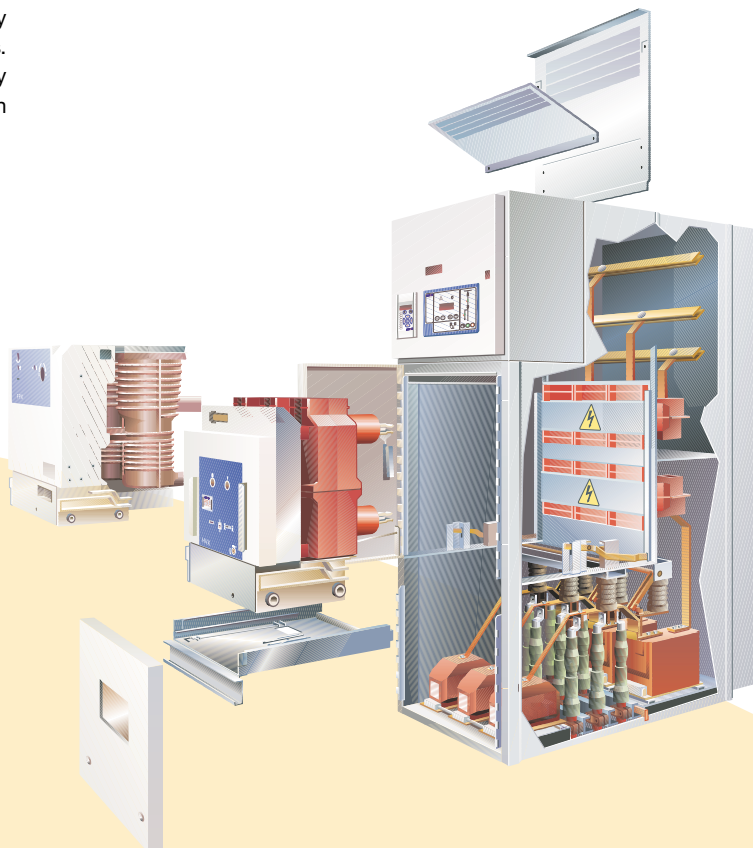


IMPROVED PERSONAL SAFETY

PIX is a robust metal-clad switchgear, divided into four compartments segregated by earthed metal panels. It incorporates independent pressure relief flaps on each of the cable, circuit breaker and busbar compartments.

The design of PIX ensures effective internal arc containment in the unlikely event of a major fault occurring within the cubicle. The gases are expelled at the top of the cubicle, as far from the operator as possible, for improved safety.

For special installations, additional arc energy absorbing devices are available.



“Designed to minimize space requirement”.



Versatile solution...

... for high performance



- 1 Low voltage compartment
- 2 Circuit breaker
- 3 Busbars
- 4 Shutters
- 5 Earthing switch
- 6 Current transformers
- 7 Cable connections
- 8 Voltage transformers

Dimensions in mm

Width From 650 to 1000

Height From 2130 to 2330*

Depth From 1405 to 1605

Dimensions depend on cubicle type (contactor / vacuum or SF₆ circuit breaker), rated current and voltage.

*up to 3100 with optional equipment for internal arc containment or gas evacuation.

VACUUM OR SF₆ SWITCHING, IT'S UP TO YOU

The PIX range can be fitted with circuit breakers or fused contactors, mounted on a withdrawable carriage with disconnecting contacts:

- >> HVX vacuum circuit breakers, fitted with a conventional spring operating mechanism or the innovative AMD magnetic actuator and our latest range of interrupters
- >> FPX SF₆ circuit breakers combining two breaking techniques for more reliability: thermal expansion and auto-pneumatic puffing
- >> GFX fused SF₆ contactor
- >> CVX fused vacuum contactor

RATINGS		PIX		
>> Rated voltage	kV	12	17,5	24
>> Rated power frequency withstand voltage	kV	28	38	50
>> Rated lightning impulse withstand voltage	kV peak	75	95	125
>> Rated short time withstand current - 3s.	Up to kA	40*/50	40*/50	31,5
>> Rated peak withstand current	Up to kA	100/125	100/125	80
>> Internal arc withstand	Up to kA	40/50	40/50	31,5
>> Rated frequency	Hz	50/60		
>> Rated current	- busbar	Up to A	3150/5000**	2500
	- CB feeder	Up to A	3150/5000**	2500
	- Contactor feeder	Up to A	400	-
>> Degree of protection		IP 3X or IP 4X		
>> Standards		IEC (ANSI version available)		
*Earthing switch 1 sec. or 31,5 kA 3 sec. - **With forced ventilation				



FPX
SF₆ circuit breaker



HVX
vacuum circuit breaker

Our policy is one of continuous development. Accordingly the design of our products may change at any time. Whilst every effort is made to produce up to date literature, this brochure should only be regarded as a guide and is intended for information purposes only. Its contents do not constitute an offer for sale or advise on the application of any product referred to in it. We cannot be held responsible for any reliance on any decisions taken on its contents without specific advice.

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