



PIX-H

MV switchgear for high power applications



For special applications ranging from process plants to oil & gas customers, some customers require high power, performance and availability. To meet these specific requirements, we have expanded our PIX MV switchgear range with a new high rated version the PIX-H.

Based on over 50 years experience in the heavy industrial market segment and including thousands units installed at many customer plants, this new high power version of the PIX range is a worthy successor incorporating the latest design features including internal arc capability, and is well suited to applications as diverse as power plants, process industry, marine, Oil & Gas:

- > primary generation of offshore platforms
- > primary distribution of onshore MV networks.

AN OUTSTANDING SWITCHGEAR

With rated voltages up to 17.5kV, currents up to 5000A and short circuit breaking current up to 50kA, PIX-H can be supplied fitted with withdrawable circuit breakers or contactors using our latest vacuum switching technology.

The design features ensure optimized space requirements for installation. PIX-H is a robust design and provides personnel protection of the highest level including internal arc fault containment. Each compartment is fully internal arc tested according to the IEC standards up to 50kA for 1s. This not only provides personnel protection but also limits the effect of an internal arc fault to one compartment, allowing the rest of the switchboard to continue to function, minimising downtime.

PIX-H is designed to meet the latest specifications of IEC standards as well as many other national specifications.



Customer benefits

- High performances
- Enhanced robustness
- Safe, user-friendly operation
- 50kA-1s internal arc fault containment tested
- Small footprint

SAFETY & EASE OF OPERATION

PIX-H is metal-clad equipment, being divided into a number of separate earthed metal compartments. Each compartment is fitted with a pressure relief flap to exhaust gas from the top of the equipment in the event of internal arc.

Mechanical interlocking prevents false operation resulting in a safer environment for the operators.

Further increased safety is obtained by all operations being carried out from the front of the cubicle with the door or panel closed.

A COMPLETE INDUSTRIAL OFFER

Combined with our motor control unit, PIX-M, your plant and your equipment can now be fed and controlled by only one range of switchgear.

The advantages for your electrical operator and maintenance staff are immense:

- > the same technologies applied everywhere in your internal network
- > standardized equipment and spares
- > the same way of carrying out the operation.

This ensures lowest exploitation and maintenance costs as well as minimum training time and risk of mal operation.



PIX-H with extracted HVX circuit breaker

MODERN SWITCHING TECHNOLOGY

The HVX vacuum circuit breakers include the latest in high technology solutions, and are fitted with our own state of the art range of vacuum interrupters.



HVX circuit breaker on truck

RATINGS	Units	12	17.5
>> Breaking technology	Vacuum		
>> Rated voltage	kV	12	17.5
>> Rated power frequency withstand voltage	kV	28	38
>> Rated lightning impulse withstand voltage	kV peak	75/95	95
>> Rated frequency	Hz	50/60	50/60
>> Rated short time withstand current	kA -3s	50	50
>> Rated peak withstand current	kA peak	125	125
>> Rated continuous current	- busbar - cubicle	A A	5000 5000
>> Earthing-switch making capacity	kA peak	125	125
>> Internal arc withstand according to IEC 62 271-200	kA -1s	50	50
>> Degree of protection		IP4X, IP42, IP2XD	
DIMENSIONS			
>> Width	mm	800/1000	
>> Depth on the ground	mm	1450	
>> Depth overall	mm	1490	
>> Height (with LV cabinet 630mm)	mm	2330	
>> Height (overall with cooling/arc deflectors)	mm	2900/3000	
>> Height (with gas absorber or gas evacuation tunnel)	mm	3100	

AREVA T&D Worldwide Contact Centre:
<http://www.aveva-td.com/contactcentre/>
Tel.: +44 (0) 1785 250 070

www.aveva-td.com

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.