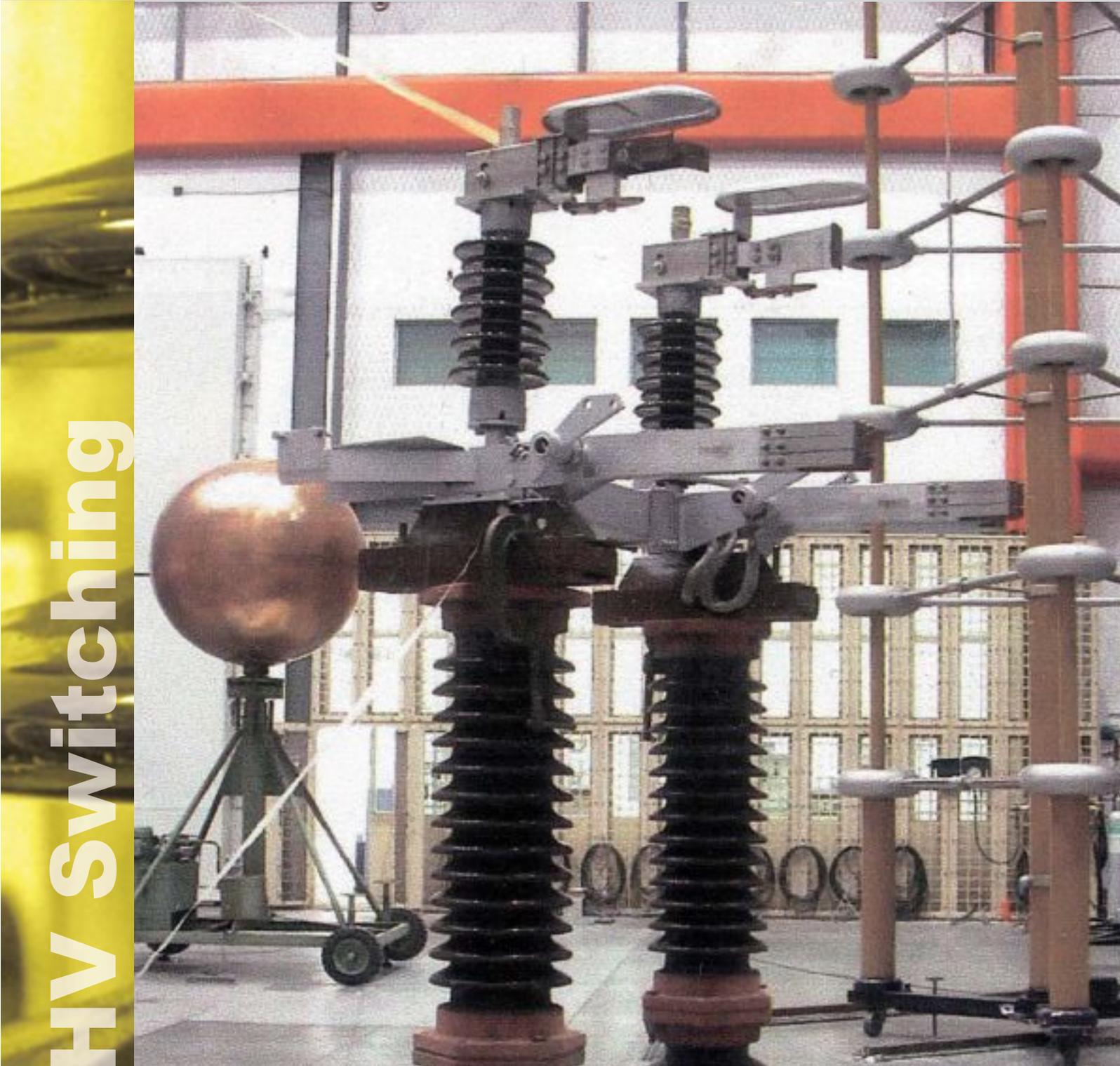


CBD 36 kV Centre Break disconnecter



HV Switching

## The CBD centre break disconnecting switch

The CBD centre break disconnecter is formed by three poles, operated simultaneously either by a single operating mechanism and mechanical linkages between the poles.

Its versatility and robustness to environmental factors are considered as a reference : the CBD has been installed in virtually any possible layout throughout the world and under the harshest environmental conditions : from -50°C to +50°C, in icy or desert countries and even in the most seismic regions of the planet.

The simplicity of the design of the centre break disconnecter makes it the most commonly used in the world. From the use of only two insulators for each pole it is an economic solution for general purpose disconnecting function.

The horizontal motion and the design of contacts allow the actuation torque to be as low as possible for a smooth and fast operation.

The insulating columns used for the CBD can comply with either IEC or ANSI standard. Special heights and creepage distances are also available on request. To adapt to various layouts of substations, the poles can be erected traditionally (horizontal) or wall-mounted, and even upside down.

Like all our models, the CBD meets the latest international standards (IEC, ANSI) but can also be customised according to particular specification.

Integrated earthing switches are available for mounting at each or both sides of the pole, with the same short-time current withstand capability.

## Reliability and maintenance

Due to lifetime greased or self-lubricated hinges, and self-wiping contact, the maintenance of the CBD metallic parts is ensured by its own motion. The use of corrosion-free or protected materials for all the components induces an exceptional reliability over many years of service. The mechanical endurance performance exceeds the IEC standard.

## Optional devices

Upon request, the disconnecter can be equipped with a bus-transfer current switching device, according to IEC 62271-102 (annex B).

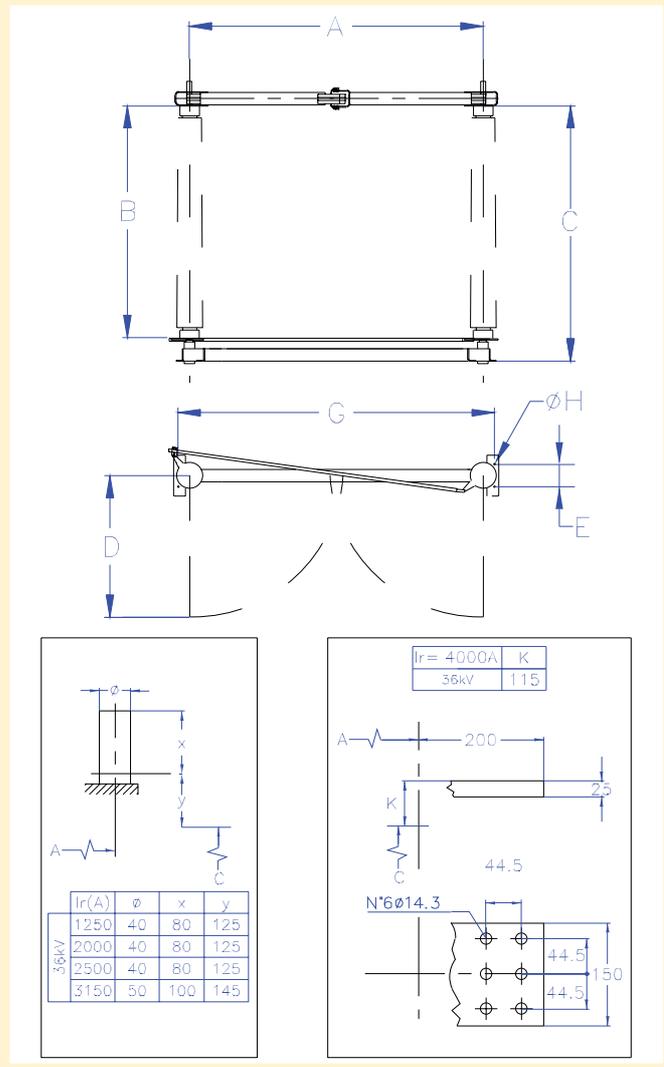
The integrated earthing switch can also be fitted with an optional induced currents switching device, as per IEC 62271-102 (annex C).

For operation under severe ice conditions (up to 20 mm), ice shields are available to protect the parts, where needed.

## Ratings and dimensions

The values in the table refer to IEC standards.

Rated voltage		Ur (kV)	36
Rated power frequency withstand voltage	TE	Ud (kV)	70
	AID	Ud (kV)	80
Rated lightning impulse withstand voltage	TE	Up (kV)	170
	AID	Up (kV)	195
Rated switching impulse withstand voltage	TE	Us (kV)	-
	AID	Us (kV)	-
Rated permanent current		Ir (A)	Up to 4000 A
Rated short-time withstand current		Ik (kA)	Up to 63 kA / 3s
Rated peak withstand current		Ip (kA)	Up to 160 kA
Dimensions (mm)		A	700
		B	445
		C	615
		D	~ 405
		E	150
		G	850
		H	4 Ø18



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