

Earthing switch

Technical Data



Features and benefits

- Compact design
- All steel parts either in stainless steel or hot-dip galvanised
- Solid and stable base frame
- Minimal sag for the line-connection thanks to the two fixed terminals
- Fixing on the supporting structure either by clamps (free setting) or screws (holes in the base frame)
- Easy on-site installation and setting
- All conducting parts either silver, nickel or tin-plated
- Practically maintenance-free

Rated values		15kV	25kV	Unit
Nominal voltage	Un	15	25	kV
Rated insulation voltage (acc. to IEC 62497-1)	UNm	17.5	27.5	kV
Rated voltage (acc. to IEC 62271-1)	Ur	36	52	kV
Rated frequency	f	16.7	50	Hz
Rated normal current	Ir	2'000	2'000	A

Withstand values		15kV	25kV	Unit
1 minute power frequency withstand voltage (dry and wet)	Ua			
A – To earth		70	95	kV
B – Across the isolating distance		95	110	kV
Impulse withstand voltage (1.2/50 µs)	UNi			
A – To earth		170	250	kV
B – Across the isolating distance		195	290	kV

Short-circuit-current		15kV	25kV	Unit
Rated short time withstand current	Ik	40	31.5	kA
Rated peak withstand current	Ip	100	80	kA
Rated duration of short-circuit	tk	1	3	s

Making and breaking current		15kV	25kV	Unit
Peak making current (Standard, class E0)		0	0	kA
Peak making current (by closing with pre-arcing horns)	Ima	32	32	kA

Environmental conditions			
Operating temperature	-30 to +40		°C
Relative humidity	100		%
Solar radiation	1'000		W/m²
Operating altitude	1'000		m above sea level
Icing	10		mm
Pollution degree (acc. to IEC 62497-1)	PD4B		
Wind speed	34		m/s

Lifetime			
Mechanical life		10'000	Cycles
Peak making current	Ima	0	Ein
Peak making current (by closing with pre-arcing horns) Class E2	Ima	5	Ein

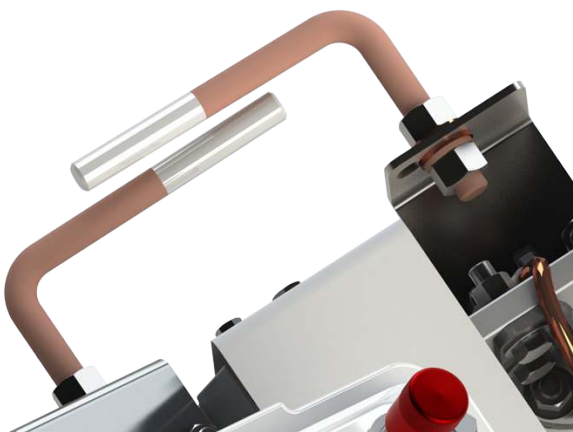
Technical modifications reserved

Options



Status indication

The status indication gives information about the precise position of the switch



Pre arcing horns

The optional pre arcing horns (for load-break and earthing switch) increase the peak making current to 32kA (E3)



Horizontal flexball actuation

On request special solution for horizontal actuation with flexball.



Clamps

Mounting bracket for easy and fast assembly of OHL switches. Switches can be flexibly moved in the longitudinal direction.



Forced earthing

Earthing knife for more safety



Current transformer

Monitoring component for a reliable current measurement anytime

Earthing switch

Earthing switch B2

Geometry	15kV	25kV	Unit
Minimum creepage distance (silicone insulators)	870	1255	mm
Operating stroke	120	180	mm
Weight	32	36	kg

Technical modifications reserved

Earthing switch B3

Geometry	15kV	25kV	Unit
Minimum creepage distance (silicone insulators)	715	1255	mm
Operating stroke	120	180	mm
Weight	50	78	kg

Technical modifications reserved

Technical drawing of the 1000V switchgear, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: ca. 1010
- Overall height: 487
- Height of the main body: 365
- Height of the base: 100
- Height of the base section: 95
- Width of the base section: ca. 877
- Width of the base section (dashed line): (118)
- Width of the base section (dashed line): S=120
- Label: Typenschild

Side View Dimensions:

- Overall width: 160
- Overall height: 480
- Height of the main body: 180
- Height of the base: 70
- Width of the base: 400
- Width of the base (dashed line): (80)
- Width of the base (dashed line): (150)
- Label: A

The technical drawing illustrates the BZS 600000 crane from two perspectives: a side view (top) and a front view (bottom).

Side View Dimensions:

- Total height: 1505
- Height from base to top hook assembly: 580
- Height from base to lower spring assembly: 140
- Base width: 1332
- Distance between main vertical supports: 777
- Distance from left support to right support: 1110
- Height of the lower spring assembly: 180
- Labels 'B' indicate specific points or components on the lower spring assembly.

Front View Dimensions:

- Overall width: 590
- Top flange thickness: 58
- Internal component height: 17
- Right-side flange thickness: 210
- Bottom flange thickness: 60
- Internal component width: 80
- Label 'A' indicates a specific point or component on the right side.

[illegible]