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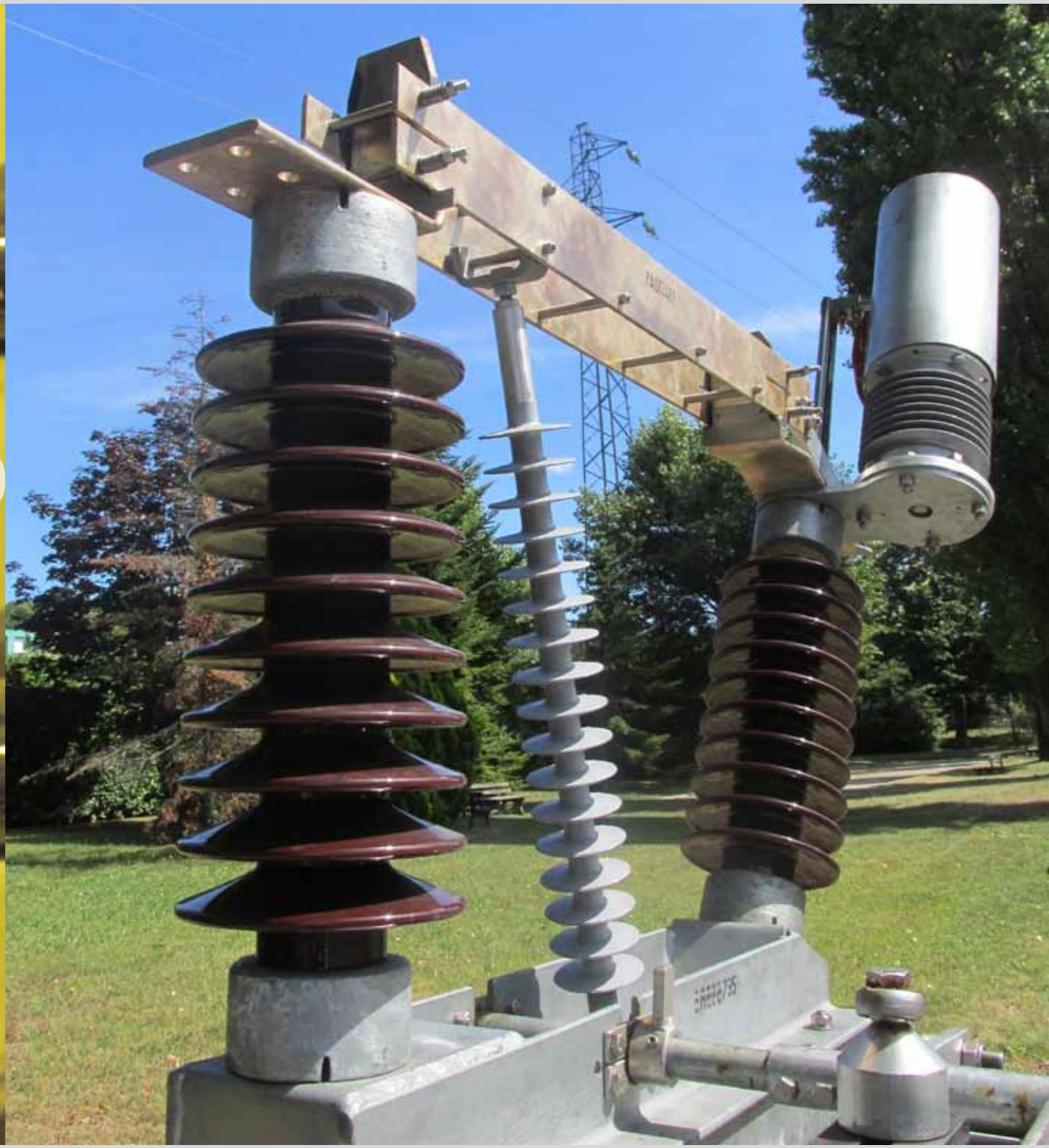
LBS 15-25 kV Railway load switcher

HV Switching



Southern States Group

HV Switching

We know how

Our range of switchers is designed to ensure the best performances and reliability, which are the result of our 60-year old experience in the field of high voltage.

LBS Railway load switcher

The LBS described in this brochure is an outdoor switch-disconnector specifically designed for railway applications.

It provides visible isolating distance ("disconnector function", made by a vertical-break arm) and is capable of switching its rated continuous current as well as its rated short-circuit making current, without external arcs ("switch function", made by a vacuum interrupter).

It is featured by simple design and easy mounting on either supporting frames or catenary poles, in single- or bi-pole configuration.

This LBS meets the EN standard 50152-2.

LBS range is completed by the types intended for T&D networks, which meet IEC 62271-103.

Key features and advantages

- Compact design mechanism
- Normal current does not flow through the breaking device in closed position
- Visible isolating distance
- No external arc
- Long life performance
- No environmental pollution
- Gas free

Optional features

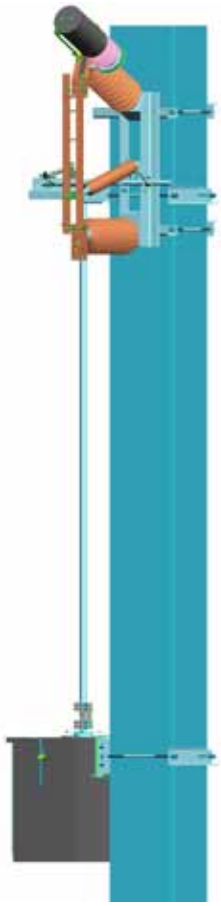
- Extended endurance: 10000 CO
- Integrated earthing switch application
- Switch disconnector with fuse holders
- Extended ambient temperature range: -35 °C / +50 °C

Ratings

Quantity names and symbols are according to EN 50152-2, EN 50163 or when missing, according to IEC 62271 series.

Nominal voltage		U_n (kV)	15	25
Standards		EN 50152-2		
Number of poles		1 or 2		
Highest permanent voltage		U_{max1} (kV)	17.25	27.5
Highest non permanent voltage		U_{max2} (kV)	18	29
Highest long term overvoltage		U_{max3} (kV)	24.30	38.75
Rated continuous current		I_r (A)	up to 2000	
Rated frequency		f_r (Hz)	16 2/3	50 or 60
Rated power-frequency withstand voltage	TE	U_d (kV)	70	95
	AID	U_d (kV)	95	110
Rated impulse withstand voltage	TE	U_{Ni} (kV_p)	170	250
	AID	U_{Ni} (kV_p)	195	290
Rated short-circuit making current		I_{ma} (kA)	16	25
Rated short-time withstand current		I_k (kA)	25	40
Rated duration of short-circuit		t_k (s)	3	
Rated peak withstand current		I_p (kA_p)	62.5	100
Rated mainly active load-breaking current		I_{load} (A)	up to 2000	
Rated closed-loop distribution circuit current		I_{loop} (A)	up to 2000	
Opening time		(s)	~ 6	
Closing time		(s)	~ 6	
Rated mechanical endurance		(cycles)	5000	
Ambient temperature range		(°C)	up to -25/+40	

TE: To Earth
AID: Across the Isolating Distance



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