



LBS 12-52 kV Load switcher





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 Load switcher

The LBS is an outdoor switch-disconnector.

It provides visible isolating distance ("disconnector function", made by a verticalbreak 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 designed for T&D networks, in the range between 12 and 52 kV, and can be combined with fuses; when combined with fuses,

it provides the "protection function" too, thus becoming a "complete" apparatus.

It is featured by simple design and easy mounting on either steel, concrete or wooden supports.

The LBS meets the IEC standard 62271-103.

Specific LBS meeting EN 50152-2 are designed for railway applications.

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

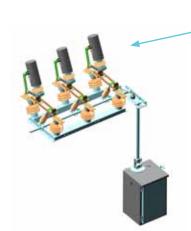
- Extended endurance: 10000 CO
- Integrated earthing switch application
- Switch disconnector with fuse holdersExtended ambient temperature range:
- -35 °C / +50 °C

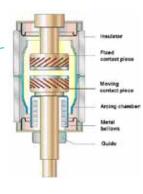
Ratings

The values in the table refer to IEC standards

Rated voltage (kV)		U _r (kV)	12	24	36	52
Rated power-frequency withstand voltage	TE	U _d (kV)	28	50	70	95
	AID	U _d (kV)	32	60	80	110
Rated lightning impulse withstand voltage	TE	$\mathbf{U_p}(kV_p)$	75	125	170	250
	AID	$\mathbf{U_p}(kV_p)$	85	145	195	290
Rated continuous current		I _r (A)	630	1250	2000	2000
Rated short-time withstand current		I _k (kA)	25	40	40	40
Rated duration of short-circuit		t _k (s)	3	3	3	3
Rated peak withstand current		Ip (kAp)	68	108	108	108
Rated short-circuit making current		Ima (kAp)	25	25	25	25
Rated mainly active load breaking current		I _{load} (A)	630	1250	2000	2000
Rated distribution line closed-loop breaking current		I _{loop} (A)	630	1250	2000	2000
Rated cable-charging breaking current		I _{cc} (A)	10	16	20	20
Rated line charging breaking current		I _{Ic} (A)	1	1.5	2	2
Rated earth fault breaking current		I _{ef1} (A)	30	48	60	60
Rated cable-and line-charging breaking current under earth-fault conditions		I _{ef2} (A)	17.3	27.7	34.6	34.6
Minimum mechanical and electrical endurance		(cycles)	5000			
Ambient temperature range		(°C)	up to - 25/+40			

TE: To Earth AID: Across the Isolating Distance







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