



# 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**

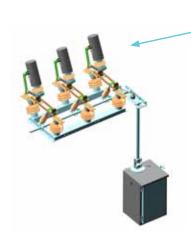
- Extended endurance: 10000 CO
- Integrated earthing switch application
- Switch disconnector with fuse holdersExtended ambient temperature range:
- -35 °C / +50 °C

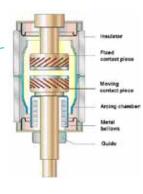
# Ratings

The values in the table refer to IEC standards

| Rated voltage (kV)   |     | U <sub>r</sub> (kV)   | 12             | 24   | 36   | 52   |
|--|-----|-----------------------|----------------|------|------|------|
| Rated power-frequency withstand voltage  | TE  | U <sub>d</sub> (kV)   | 28             | 50   | 70   | 95   |
|  | AID | U <sub>d</sub> (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 <sub>r</sub> (A)    | 630            | 1250 | 2000 | 2000 |
| Rated short-time withstand current   |     | I <sub>k</sub> (kA)   | 25             | 40   | 40   | 40   |
| Rated duration of short-circuit  |     | t <sub>k</sub> (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 <sub>load</sub> (A) | 630            | 1250 | 2000 | 2000 |
| Rated distribution line closed-loop breaking current                           |     | I <sub>loop</sub> (A) | 630            | 1250 | 2000 | 2000 |
| Rated cable-charging breaking current  |     | I <sub>cc</sub> (A)   | 10             | 16   | 20   | 20   |
| Rated line charging breaking current   |     | I <sub>Ic</sub> (A)   | 1              | 1.5  | 2    | 2    |
| Rated earth fault breaking current   |     | I <sub>ef1</sub> (A)  | 30             | 48   | 60   | 60   |
| Rated cable-and line-charging breaking<br>current under earth-fault conditions |     | I <sub>ef2</sub> (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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