

Live Tank Circuit Breaker LTB D 72.5 to 170 kV

Product information

LTB D can withstand breaking currents up to 40 kA, with fast interruption for maximum power system stability. It is configurable for all applications and environments.

LTB D is also available as a Disconnecting Circuit Breaker where the disconnecting function is integrated in the circuit breaker.

Design features

The LTB D is a high-performance circuit breaker designed for a maximum breaking current of up to 40 kA at rated voltages from 72.5 kV up to 170 kV. The LTB D is available for single or three-pole operation.

It is suitable for all applications and proven in extreme environment including deserts, the tropics and cold climates withstanding natural disasters from hurricanes to major earthquakes. During the past 30 years, the LTB D circuit breaker has provided reliability to power systems worldwide.

Key benefits of the product

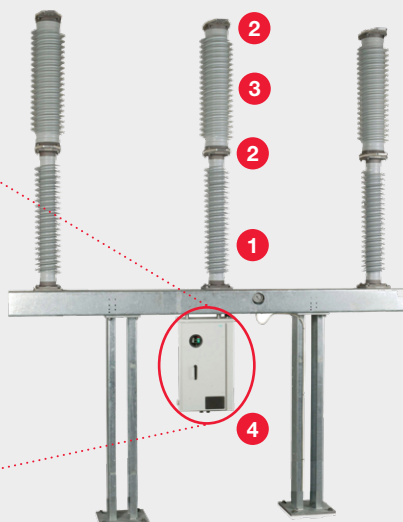
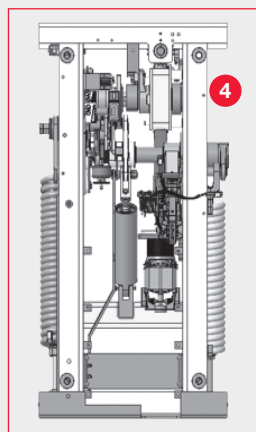
- Optimized self-blast technology, which significantly reduces energy need to operate the circuit breaker
- Optimized packing and delivery arrangement to ensure transport safety
- Easy to install-adjustment free installation
- Reduced risk of accidental leakage of SF₆ thanks to double O-rings sealing system
- Transparent environmental performance thanks to a detailed product life cycle assessment
- Maintenance friendly design
- Suitable for controlled switching applications



Reliable operating mechanism

LTB D is equipped with a motor charged spring operating mechanisms. This solution offers considerable advantages as the energy in the tensioned springs is always available. The spring operating mechanisms used for LTB D are BLK, MSD or FSA depending on customers application and requirements.

- Compact design and low operating energy
- High reliability and low maintenance
- Reliable and optimized latch system



Live Tank Circuit Breaker LTB D up to 170 kV

1. Post insulator
2. Terminal
3. Breaking unit
4. Operating mechanism

Performance data

LTB D 72.5 - 170 kV

Rated voltage	kV	up to 170
Rated continuous current	A	up to 3150*
Rated frequency	Hz	50/60
Rated short-circuit breaking current	kA	up to 40
Rated short-time withstand current (3s)	kA	up to 40
Type of operation		Single- or three-pole
Design		Self-blast interrupter
Insulation		SF ₆
Applications		Line, transformers, reactor, cable and capacitor switching
Controlled switching applications		Yes
Insulators		Composite or porcelain
Operating mechanism		Spring operating
Creepage distance	mm/kV	25 or 31*
Installation		Outdoor
Standards		IEC 62271-100
Service conditions:		
• Ambient temperature	°C	-50 to +40*
• Design altitude	m	1000*

*Standard values as per IEC. Additional data on request.

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