



Epoxy Insulated Load Break

12kV, 24kV

Insulect's new SF6 free vacuum switch represents a significant step forward in sustainable switchgear technology.



12/24kV voltage rating

Can be supplied to suit 12/24kV voltage ratings and up to 630A breaking current. Tested in accordance with IEC 62271-103.



Environmentally friendly

Fully enclosed, SF6 free insulation and interruption provides greater reliability.



Local or remote operation

Manually operated LBS can be fitted with a remotely controlled actuator.



Insulators and leads

Polymer bushings, with factory fitted cable leads or bare terminal palms.

Features

- SF6 free design
- Stainless steel enclosure
- Easy Handling and lightweight.
- Open/Close indicator.
- Maintenance free.
- High Dielectric strength.
- Mechanical latch holding in close position.
- Pole mounting provisions.
- Superior endurance to adverse environments.
- Weight: 150 kg

Options

- IEC 61850 compatible automatic controller
- Manual mid-pole operation
- Fully dressed with cables and surge arrestors

Technical Specifications

Category	Specification	Value
Ratings	Rated Voltage	24 kV
	Rated Current	630A
	Rated Frequency	50 Hz
	Mechanical Operations	5,000 times
Breaking Capacity	Rated Short Time Current	16kA 1s (rms)
	Making Current (peak)	40kA (peak)
	Cable Charging current	25 A
	Line Charging current	1.5 A
Impulse Withstand Voltage (1.2× 50 μσ)	Phase to Earth	150 kV
	Across Interrupter	150 kV
	BIL	150 kV
Power Frequency Withstand Voltage, Dry	Phase to Earth	60 kV
	Across Interrupter	60 kV
Power Supply	Operation	DC 24 V
Environmental	Ambient Temperature	-25 ~+50 °C
	Humidity	0 ~100%
	Altitude	≤ 1,000 m

Typical Configurations

MANUAL OPERATION TYPE

- Easy operation
- Open/Close indication
- Safety interlock
- Light weight
- Maintenance free

REMOTE OPERATION TYPE

- Local/Remote switch for local field control or remote from DAS master station and substation RTU
- Dry contacts provide the local/remote switch status to the DAS master station and substation RTU
- Auxiliary output contacts are mechanically linked with the switch main contact
- Metal connector (waterproof plug-in type) for connecting control cable
- Line switch control (open/close) and status indication

Ordering Information

- 12kV, 24kV
- 630amp
- With or without leads
- Manual or Automatic (SCADA)
- Manual with mid pole actuator
- Mid pole or pole top mounting arrangement
- Surge arrester mounting below bushings

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