



## The ISOVAC (Integrated, Spatially Optimized Vacuum Circuit Breaker) is a fixed-type 12/17.5 kV Vacuum Circuit Breaker

Designed to be mounted within LKE's IV2000 Air-Insulated M.V Switchboards.

The ISOVAC is a compact designed product which integrates an

- Isolating-switch module (optional),
- A vacuum interrupter module,
- A current and voltage sensor module
- An earth-switch (optional)
- A mechanical, lockable interlocking operating mechanism
- A mechanical or motor charged (Spring charged) closing and opening mechanism



### Isolator



### Inspection holes to confirm isolation gap after isolating the unit



### **Indicating and control:**

The following indicating and control devices can be provided on the front panel of the low-voltage compartment or as terminals to remote panels:

- Local/remote operation selection switch
- Remote control
- Protection relay.
- Test terminals of relay circuits used to check the protection
- Potential free contacts (status):
  - Breaker open and close as well as
  - Earth switch & (Isolator) open and close
- Voltage indicator. These indicators are connected with a capacitive layer in the cable compartment.
- Visual inspection window for (isolator) isolation gap



<b>Electrical Characteristics</b>	<b>Unit</b>	<b>S20</b>
Rate Voltage	kV	12
Rated current	A	630 / 1250
Short-time (1min) power frequency withstand voltage between phases, fm phase to earth and vacuum interrupter	kV	42
Short-time (1 min) power frequency withstand voltage for Disconnect or switch	kV	48
Lightning Impulse withstand voltage to earth and between poles	kV	95
Rated maximum short-circuit breaking capacity	kA	20

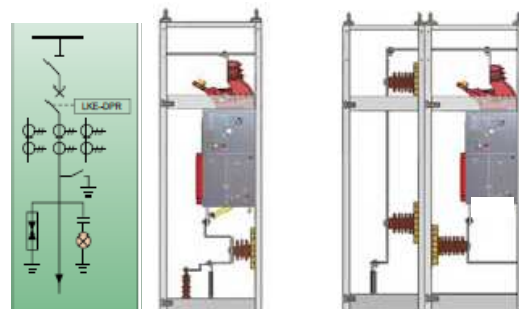
## The IV2000 switchboard air-insulated switchgear (AIS) Air insulated bus bar system.

It is a modular system consisting of extensible panels, designed to incorporate the ISOVAC-S circuit breaker.

Its compact dimension, safe and reliable design allow for a wide range of applications:

- Prefabricated outdoor substations and RMUs
- Industrial switchboard systems
- Urban and rural power distribution systems
- Mobile substations
- The IV 2000 panel (2 meter high) was tested at SABS for internal fault (20 kA for 0.5 sek)

### **Typical applications:**



OUTEC CONTROLS cc for LKE (Lauritz Knudsen Electric) medium voltage switchgear

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