

## General information

### Construction characteristics



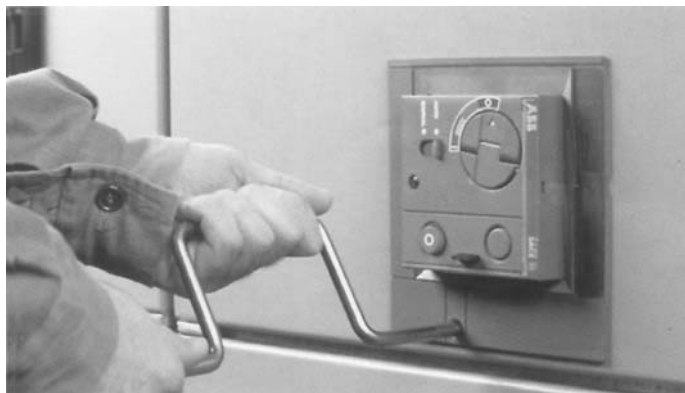
#### Isolation behavior

In the open position, the circuit-breaker guarantees the isolation of the circuit in accordance with IEC 947-2 specifications.

In the IEC withdrawable or plug-in versions, the power and auxiliary circuits are isolated in the racked out or removed positions, thus guaranteeing that no parts are live.

In these conditions, using suitable connectors, blank tests can be conducted, with the operations on the circuit-breaker being carried out in complete safety.

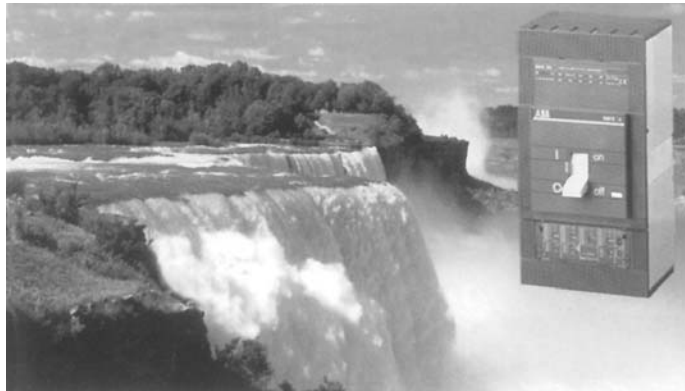
The redundant insulation distances guarantee the absence of leakage currents and dielectric strength in the event of any overvoltages across the input and output.



#### Racking-out with the door closed

This system, present for the first time on a series of molded-case circuit-breakers, starting from Isomax S3, allows racking-in and racking-out with the compartment door closed, thus increasing operator safety and allowing the construction of internal-arc-proof low-voltage switchboards.

Racking out can only be done with the circuit-breaker open, using the racking-out crank handle supplied with the withdrawable version of the circuit-breaker.



#### Electromagnetic compatibility

With the use of the PR211/P microprocessor-based overcurrent releases and the RC211 and RC212 electronic residual current releases, slow non-operation is guaranteed, even in the presence of interference caused by electronic equipment, atmospheric disturbance or discharges of an electrical nature.

Furthermore, the appliances do not generate interference with other electronic equipment in the vicinity.

This is in accordance with IEC 947-2 Addendum F, IEC 1000-4, EN 61000-4, EN 50081-2, European Directive No. 49/12-12-1992 specifications on electromagnetic compatibility EMC.

#### Tropicalization

The Isomax series of circuit-breakers and accessories comply with the strictest regulations on use in hot-damp saline climates (in conformity with climatographic chart No. 8 of the IEC 721-2-1 specifications), thanks to:

- insulating cases made of fiberglass-reinforced synthetic resins
- corrosion-resistant treatment on all main metal parts (environment C UNI 3564-65)
- Fe/Zn 12 galvanizing (UNI ISO 2081), protected by a conversion layer composed mainly of chromates (UNI ISO 4520).