

Architecture

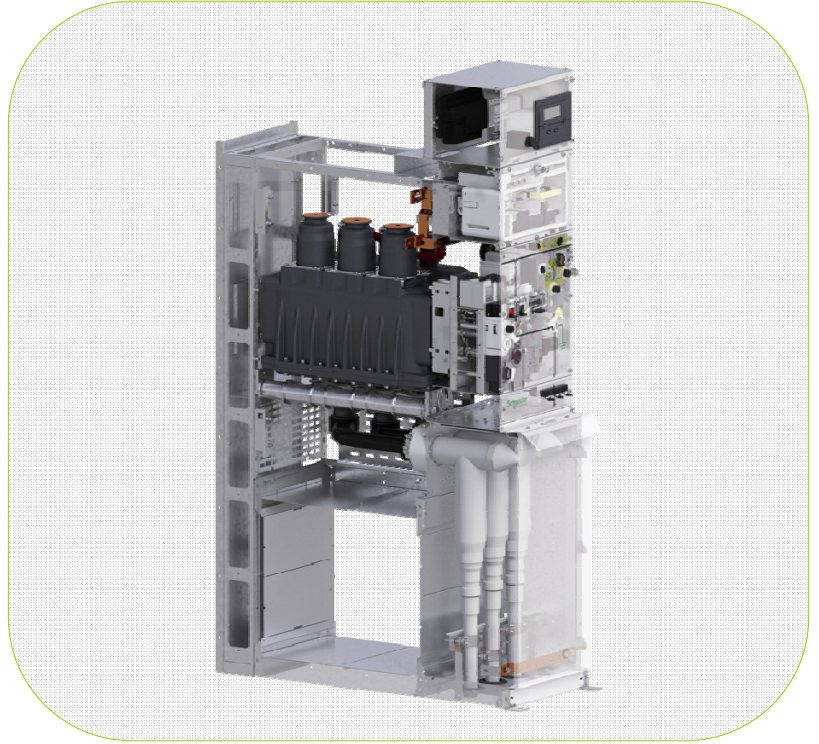
Fixed circuit-breakers bring higher reliability and reduced maintenance cost

Premset: the advantages of fixed circuit breaker with reinforced benefits thanks to 2SIS technology



Principle

Fixed circuit breaker connections to main circuit are bolted (no clusters and no racking truck)



Main points to remember

Premset fixed circuit breakers answer the same needs as withdrawable circuit breakers while providing other additional advantages.

- *Higher reliability.*
- *Reduced maintenance.*
- *Insensitivity to harsh environment.*
- *Easy evolution and adaptation.*
- *Easy testing.*
- *Better compactness.*
- *And all these advantages reinforced thanks to 2SIS (Shielded and Solid Insulated Switchgear) technology.*

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Advantages - Fixed circuit-breakers bring higher reliability and reduced maintenance cost

Schneider Electric recommends fixed circuit breaker on secondary application.

- **Fixed circuit breaker has higher reliability** than withdrawable circuit breaker :
 - For *withdrawable circuit breaker*, there are three moving devices that may breakdown : clusters, shutters, and racking truck.
 - *Interlock design is more simple* for fixed circuit breakers than for withdrawable ones.
 - State of the art circuit breaker are very reliable. Then there is no need to replace them, so no need to use withdrawable circuit breakers (except for some specific applications such as oil & gas), thus service continuity is increased.
- On fixed circuit breaker there are **reduced maintenance** compared to withdrawable circuit breakers. Quality of bolted contact is far higher than quality of sliding contact: no need to clean and grease periodically.
- Secondary application need to be **harsh environment robust** which is **easier to achieve with fixed circuit breakers**. No more sliding contact in free air.
- Fixed circuit breaker allow for more compact cubicle.

Schneider Electric recommends Premset fixed circuit breakers.

- **Periodical maintenance is no longer required** thanks to high electrical endurance vacuum bottles, and mechanisms no longer requiring any servicing.
- **Evolution** of Premset circuit breakers **can be done easily** (auxiliaries and accessories adaptation).
- Testing by easy secondary injection or with optional device for primary injection.
- In addition to be fixed, Premset CBs use 2SIS technology that increases even more reliability, continuity of service, harsh environment withstand and long life expectancy.



FAQ

- **If it is necessary, how to replace the Premset fixed circuit breaker?**
In the unlikely case of the need to replace a Premset circuit breaker, detailed procedure provided by Schneider Electric will give necessary practical information
- **What is a state of the art circuit breaker?**
It is a circuit breaker design from the 90's up to current one's.

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This document has been printed on ecological paper

Publishing, design: Schneider Electric.
Photos: Schneider Electric