

Compact NSX circuit breakers may be installed horizontally, vertically or flat on their back, without derating performance levels.

There are three installation versions:

- fixed
- plug-in (on a base)
- withdrawable (on a chassis).

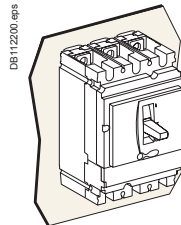
For the last two, components must be added (base, chassis) to the fixed version.

Many connection components are shared by the three versions.

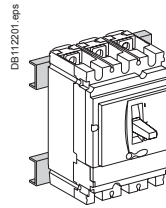
Fixed circuit breakers

Fixed circuit breakers are designed for standard connection using bars or cables with lugs. Bare-cable connectors are available for connection to bare copper or aluminium cables.

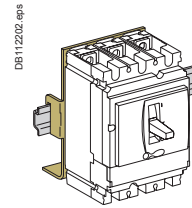
For connection of large cables, a number of solutions with spreaders may be used for both cables with lugs or bare cables.



Mounting on a backplate.



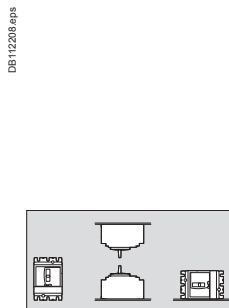
Mounting on rails.



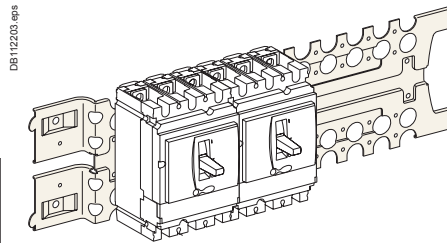
Mounting on DIN rail (with adapter).



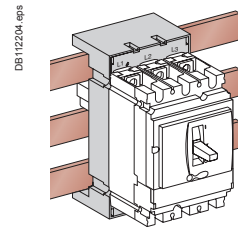
Fixed Compact NSX250.



Installation positions.



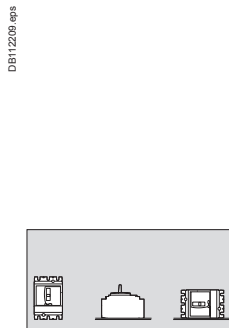
Mounting on a Prisma mounting plate.



Mounting on busbars with an adapter.



Plug-in Compact NSX250.



Installation positions.

Plug-in circuit breakers

The plug-in version makes it possible to:

- extract and/or rapidly replace the circuit breaker without having to touch the connections on the base
- allow for the addition of future circuits by installing bases that will be equipped with a circuit breaker at a later date
- isolate the power circuits when the device is mounted on or through a panel. It acts as a barrier for the connections of the plug-in base. Insulation is made complete by the mandatory short terminal shields on the device. The degrees of protection are:
 - circuit breaker plugged in = IP4
 - circuit breaker removed = IP2
 - circuit breaker removed, base equipped with shutters = IP4.

Parts of a plug-in configuration

A plug-in configuration is made by adding a "plug-in kit" to a fixed device.

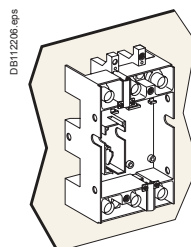
To avoid connecting or disconnecting the power circuits under load conditions, a safety trip causes automatic tripping if the device is ON, before engaging or withdrawing it. The safety trip, supplied with the kit, must be installed on the device. If the device is disconnected, the safety trip does not operate. The device can be operated outside the switchboard.

Accessories

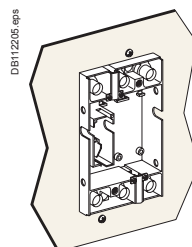
Optional insulation accessories are available.

- Terminal shields to protect against direct contact.
- Interphase barriers to reinforce insulation between phases and protect against direct contact.

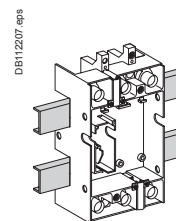
Mounting



Mounting on a backplate.



Mounting through a front panel.



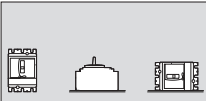
Mounting on rails.

FB105122 eps



Withdrawable Compact NSX250.

DB112200 eps

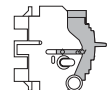


Installation positions.

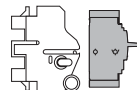
DB112210 eps



Connected.



Disconnected.



Removed.

Withdrawable circuit breakers

In addition to the advantages provided by the base, installation on a chassis facilitates handling. It offers three positions, with transfer from one to the other after mechanical unlocking:

- connected: the power circuits are connected
- disconnected: the power circuits are disconnected, the device can be operated to check auxiliary operation
- removed: the device is free and can be removed from the chassis.

Parts of a withdrawable configuration

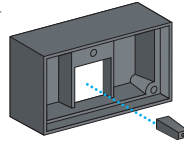
A withdrawable configuration requires two side plates installed on the base and two sides plates mounted on the circuit breaker. Similar to the plug-in version, a safety trip causes automatic tripping if the device is ON, before engaging or withdrawing it, and enables device operation in the disconnected position.

Accessories

Accessories are the same as for the base, with in addition:

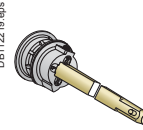
- auxiliary contacts for installation on the fixed part, indicating the "connected" and "disconnected" positions
- locking by 1 to 3 padlocks (shackle diameter 5 to 8 mm), to:
 - prevent insertion for connection
 - lock the circuit breaker in connected or disconnected position
- toggle collar for circuit breakers with a toggle mounted through a front panel, intended to maintain the degree of protection whatever the position of the circuit breaker (supplied with a toggle extension)
- telescopic shaft for extended rotary handles. The door can then be closed with the device in the connected and disconnected positions.

DB111360 eps



Protection collar for toggle and toggle extension to provide IP4 in the connected and disconnected positions.

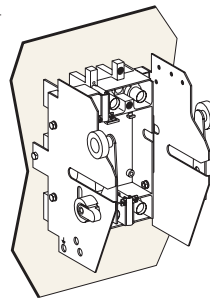
DB112219 eps



Telescopic shaft.

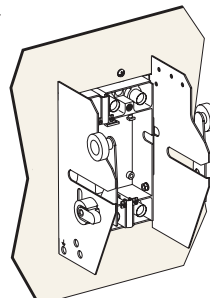
Mounting

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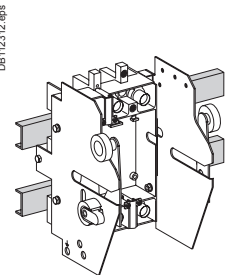
Mounting on a backplate.

DB112221 eps



Mounting through a front panel.

DB112312 eps



Mounting on rails.