

AIR CIRCUIT-BREAKERS

SACE Emax 2

The all-in-one innovation



The world of electrical power distribution changes fast and major new trends such as renewables, energy storage and microgrids are now crowding onto the stage. These trends lead to new customer and application demands.

To meet these demands, ABB has now unveiled the innovative Emax 2 all-in-one, the evolution of the Emax 2 into a multi-functional platform that is able to manage the next generation of electrical distribution systems such as microgrids.

Emax 2 all-in-one is the first circuit breaker that meets new grid requirements. It enables a direct communication to the new energy management cloud-computing platform ABB Ability™ Energy and Asset Management.

Smart plug and play architecture makes Emax 2 all-in-one easy to use. Leveraging also unmatched electrical performances, Emax 2 sets a new circuit breaker benchmark for the needs of today and tomorrow.

SACE Emax 2, the all-in-one solution to manage "low-voltage distribution systems".

Efficiency

New advanced functionalities, together with Protection trip units, Communication and system devices contribute to make SACE Emax 2 the circuit breaker that maximizes efficiency in all low-voltage electrical installation.

Control

SACE Emax 2 circuit breaker is the first single device ready to manage all the dynamics of a low-voltage electrical installation.

Managing loads in any condition is now possible, thanks to Advanced Functionalities such as:

- **Power controller**
Patented algorithm to reduce the peak of power consumed, allowing savings on electricity bills.
- **Embedded ATS functions**
An automatic transfer system used in all applications, where continuity is essential and where there are multi-source supplies.
- **Synchro-reclosing**
Synchronization and automatic reconnection of the Microgrid to the main grid when the power is back.
- **Interface protection system and Interface Device**
Check of grid-connected operation that shall be immediately and automatically interrupted in case of outage of the distribution grid or when the voltage and frequency values of the grid itself are out of the range of values defined by the Distribution System Operator (DSO).
- **Adaptive protection**
Network changes recognition and automatic set of thresholds to guarantee protection and co-ordination in on-grid and off-grid conditions.