

# New Direct Replacement Retrofit Emax E1.2 moving portion in Novomax G30 fixed part

With just very few modifications and limited costs, the Conversion Kits are the perfect solution for improving low voltage switchgear. The replacement Kits allow increased safety as well as guaranteeing service continuity, and avoid the need for costly spare parts thereby bringing down maintenance costs.

ABB SACE Division, a leader in low voltage protection circuit-breaker design and production, has always paid special attention to customer satisfaction, supporting the client at all times during the life of the product (Life Cycle Management), from selection to after-sales service, thanks to its highly qualified internal structure. In the field of low voltage circuit-breakers, the Service of ABB SACE Division – L.V. Circuit-breakers ensures operating continuity between the previous series of its apparatus and those currently in production, by making its replacement kits available to its customers, which have been specially studied to preserve the existing switchgear and reduce downtimes to a minimum. The kits allow the latest generation circuit-breakers to be mounted in replacement of the circuit-breakers of old concept which are no longer able to satisfy plant requirements for protection of the electric lines and those for safety of people.

## Conversion Kit

The Kits allow the new apparatus to be adapted to the dimensional characteristics of the existing compartments, replacing all the obsolete models with latest generation products. All the replacement kits are supplied complete with assembly instructions and electric interconnection diagrams. With this solution, there is no need to manage any dismantling operation of the existing fixed parts of the Novomax G30 breakers.

## Advantages

The use of the replacement kit provides notable advantages:

- Reduced investments compared to those required for installing brand-new switchgear;
- Reduced installation times and the possibility of spreading plant downtime over time, therefore increasing the guarantee of service continuity;
- Reduction in maintenance and repair costs;
- Safeguarding of investments in existing structures;
- Total possibility of interconnection with existing distribution systems;
- Immediate, simple and safe replacement;
- No structural modifications;
- Adaptations for auxiliary circuits;
- Greater plant control with the new electronic protections.



## From Circuit-Breaker to Power Manager

SACE Emax 2 improves the efficiency of electrical plants, creating the new standard of:

- Control: optimization of power flow
- Connectivity: integration into systems
- Performance: satisfaction of requirements in the right size
- Ease of use: creation of efficiency and simplicity.



Ekip Dip



Ekip Touch



Ekip Hi-Touch with Ekip Measuring Pro

## Novomax G30 - Emax E1.2 Conversation Kit

The old Novomax G30 series of circuit-breakers can be replaced with the latest Emax.2 E1.2 series by using the new type of Conversion Kits. The circuit-breaker provided is Emax E1.2 in the FIXED version with rear horizontal terminals, fitted with the SACE Ekip Dip LSI release. In any case, different types of releases can be supplied, according to the customer's specific requests.

The kit is made up of a special moving part to be inserted in the existing fixed part. There is no need for any dismantling operation of the existing fixed part. The only operation required is installation on the fixed part of a device which ensures locking on racking out, and a segregation which guarantees IP20 protection with the door open.

The Emax E1.2 circuit-breaker can also be supplied with the same accessories present on the old Novomax G30 circuit-breaker. The kit is always completed with sliding contacts for power supply of accessories.

Electrical and Mechanical accessories mounted in Novomax G30 that can be replaced with the corresponding one of New Emax E1.2:

- YO (shunt opening release)
- YC (shunt closing release)
- YU (undervoltage release)
- D (electrical Delay for YU - into the switchboard to replace the pneumatic one on G30)
- M (motor for charging spings)
- AUX Spring charged (S33M)
- AUX CB tripped - S51
- Qx (Open/Close AUX contacts)
- Key lock in open position
- Padlock in open position
- Mechanical operation counter
- IP54 door protection.

## Ordering codes

Conversion kit	Associated circuit-breaker with Ekip DIP LSI	Replaced circuit-breaker
1SDA081653R1	Emax E1.2N 800 3P	Novomax G30 800 3P
1SDA081654R1	Emax E1.2N 800 4P	Novomax G30 800 4P
1SDA081655R1	Emax E1.2N 1250 3P	Novomax G30 1250 3P
1SDA081656R1	Emax E1.2N 1250 4P	Novomax G30 1250 4P
1SDA081657R1	Emax E1.2N 1600 3P	Novomax G30 1600 3P
1SDA081658R1	Emax E1.2N 1600 4P	Novomax G30 1600 4P

Trip Unit installed in Novomax G30 that can be replaced with the corresponding one of Emax E1.2 (check additional units to be required):

Old trip unit to be replaced	New Trip Unit
K	Ekip Dip LI, or Higher versions
Ks	Ekip Dip LSI or Higher versions
Ksi	Ekip Dip LSI or Higher versions
KM	Ekip High Touch with L off rating plug (*)
KMs	Ekip High Touch with L off rating plug (*)
KMsi	Ekip High Touch with L off rating plug (*)
KE	Ekip Touch with L off rating plug, or Higher versions
KEs	Ekip Touch with L off rating plug, or Higher versions

Tripping times and curves to be checked according installation

(\*) M protection requires Double S protection;

For further information contact:

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