

Service note

New Retrofitting kit Cradle in Cradle SACE Otomax – New Emax

With just very few modifications and limited costs, the Retrofitting 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 – Low Voltage 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.

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;
- All kits tested and certified.



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 can be mounted by anyone as they are supplied completed with assembly instructions and electric interconnection diagrams.

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Conversion Kit Otomax - Emax

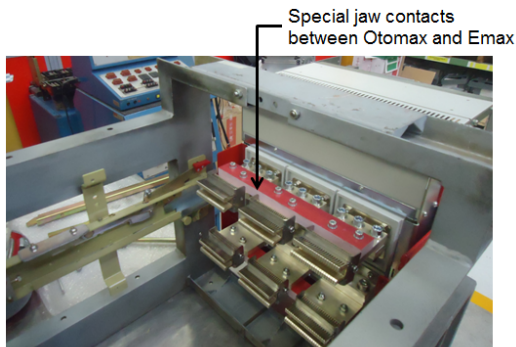
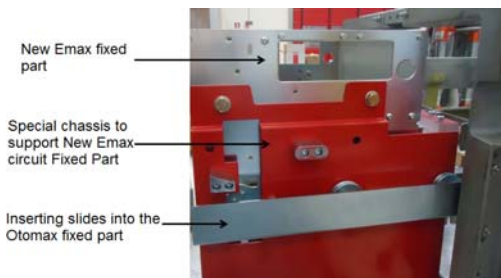
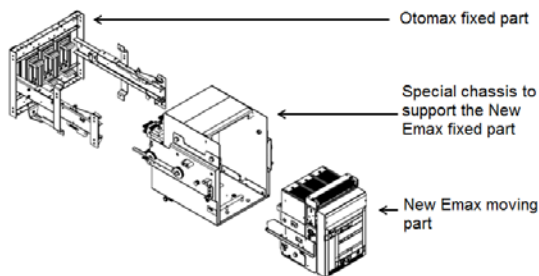
It is now possible to replace Otomax air circuit breakers, withdrawable version from 800A to 3200A, with the New Emax series by using the Cradle in Cradle (CiC) retrofitting kit.

The kit consists of a dedicated chassis with special jaw contacts perfectly fitted into the Otomax fixed part.

A few easy actions are required for the mounting:

- 1- Remove the Otomax moving part;
- 2- Insert the retrofitting kit which includes the New Emax fixed part;
- 3- Insert the New Emax moving part.

The solution is fast and efficient as it does not require any sort of adapter to the existing installation. Moreover, the new circuit breaker can be equipped with all the electrical accessories available for the New Emax series.



All the retrofitting kits are tested and certified by ABB for fulfill the standards.



Ordering codes

Otomax 3p Withdrawable version	Retrofitting kit Type	New Circuit Breaker			Deliveries		
		New Emax	New Emax version to order	Retrofitting kit (FP already included)	for QTY₂ (days ex works)	for 3_{QTY} (days ex works)	
P1A 800A 3P	CRADLE IN CRADLE	E2S 800	MP	+	1SDA070222R1	15	25
P1B 800A 3P	CRADLE IN CRADLE	E2S 800	MP	+	1SDA070222R1	15	25
P2A 800A 3P	CRADLE IN CRADLE	E2S 800	MP	+	1SDA070222R1	15	25
P1B 1000 3P	CRADLE IN CRADLE	E2N1000	MP	+	1SDA070223R1	15	25
P1C 1000 3P	CRADLE IN CRADLE	E2N1000	MP	+	1SDA070223R1	15	25
P2B 1000 3P	CRADLE IN CRADLE	E2N1000	MP	+	1SDA070223R1	15	25
P2C 1000 3P	CRADLE IN CRADLE	E2N1000	MP	+	1SDA070223R1	15	25
P1B 1250 3P	CRADLE IN CRADLE	E2N1250	MP	+	1SDA070223R1	15	25
P1C 1250 3P	CRADLE IN CRADLE	E2N1250	MP	+	1SDA070223R1	15	25
P1A 1250 3P	CRADLE IN CRADLE	E2N 1250	MP	+	1SDA070224R1	15	25
P2A 1250 3P	CRADLE IN CRADLE	E2N 1250	MP	+	1SDA070224R1	15	25
P1B 1600 3P	CRADLE IN CRADLE	E2N 1600	MP	+	1SDA070224R1	15	25
P1C 1600 3P	CRADLE IN CRADLE	E2N 1600	MP	+	1SDA070224R1	15	25
P2B 1600 3P	CRADLE IN CRADLE	E2N 1600	MP	+	1SDA070224R1	15	25
P1A 1600 3P	CRADLE IN CRADLE	E3S 1600	MP	+	1SDA070225R1	15	25
P2A 1600 3P	CRADLE IN CRADLE	E3S 1600	MP	+	1SDA070225R1	15	25
P1B 2000 3P	CRADLE IN CRADLE	E3S 2000	MP	+	1SDA070225R1	15	25
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P2C 2500A 3P	CRADLE IN CRADLE	E3N 2500	MP	+	1SDA070231R1	15	25
P2A 3000A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25
P3B 3000A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25
P3A 3000A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25
P3B 3000A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25
P2C 3200A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25
P3C 3200A 3P	CRADLE IN CRADLE	E4H 3200	MP	+	1SDA070232R1	15	25

MP= Moving part FP= Fixed Part

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