



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.	1131598 HH
Company	ABB SACE S.p.A Via Baioni 35 24123 Bergamo, ITALY
Product Description	Air Circuit Breaker
Type	E1B08, E1B10, E1B12, E1B16, E2B16, E2B20 Series EMAX, 3-pole
Environmental Category	C
Technical Data / Range of Application	Rated current I_n : 250-800 / 250-1000 / 250-1250 / 250-1600 / 250-2000 A Rated operational voltage U_e : 690 V AC Rated insulation voltage U_i : 1000 V Rated impulse voltage U_{imp} : 12 kV Rated frequency : 50/60 Hz Utilization category: B Rated short-circuit capacity : (E1B08 up to E1B16) - (E2B16, E2B20) Performance at : 440 / 690 V I_{cm} [kA] : 94.5 / 75.6 kA I_{cu} [kA] : 45 / 36 kA - 45 / 45 kA I_{cs} [kA] : 36 / 36 kA - 45 / 45 kA I_{cw} [kA] : 36 kA, - 45 kA, (1 sec) Release system: SACE PR111, PR112, PR113 (for E1B ... Up to 1250 A), PR121, PR122 and PR123 (L, S, I, G) Communication port for monitoring purposes only
Test Standard	Guidelines for the Performance of Type Approvals (2003) IEC 947-2 (1989), EN 60947-2 (1991-10) Amendment 1 (1997) Annex H
Documents	Test report : ACAE-LOVAG No. IT 96.034, 96.040, 96.041, 96.042, 96.043, 96.046, 96.033, 96.058, 01.032 SINAL No. IA/TTR-97/005, Mariperma No. 9466, 9467, ABB SACE No. 10334, 10335, ETL SEMKO C133_06, C133_08, E13306, E13307, E13308, E13309, ACAE 05-033, 05-03
Remarks	None
Valid until	2016-11-21
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File No.	I.K.01
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Type Approval Symbol



Germanischer Lloyd

Christoph Kutzner

Harald Amberger

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".