



# 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.	1131698 HH
Company	ABB SACE S.p.A Via Baioni 35 24123 Bergamo, ITALY
Product Description	Air Circuit Breaker
Type	E2N10, E2N12, E2N16, E2N20, E3N25, E3N32 Series EMAX, 3-pole
Environmental Category	C
Technical Data / Range of Application	Rated current $I_n$ : 250- 1000 / 250-1250 / 250-1600 / 250-2000 / 250-2500 / 250-3200 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 : (E2N12, E2N16, E2N20) - (E3N25, E3N32) Performance at : 440 / 690 V $I_{cm}$ [kA] : 143 / 121 kA $I_{cu}$ [kA] : 65 / 55 kA - 65 / 65 kA $I_{cs}$ [kA] : 55 / 55 kA - 65 / 65 kA $I_{cw}$ [kA] : 55 kA, - 65 kA, (1 sec) Release system: SACE PR111, PR112, PR113, 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 96.044-96.045, 96.047, 96.055 to 96.057, 96.059 to 96.062, 96.064 to 96.066, 01.033, 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
Remarks	None
Valid until	2016-11-21
Page	1 of 1
File No.	I.K.01
Hamburg, 2011-11-22	

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".