



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.

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|--|---|
| Certificate No. | 3326406 HH |
| Company | ABB SACE S.p.A Via Baioni 35 24123 Bergamo, ITALY |
| Product Description | Air Circuit Breaker |
| Type | E2S08, E2S10, E2S12, E2S16, E2S20 Series EMAX, 3-pole |
| Environmental Category | C |
| Technical Data / Range of Application | Rated current In : 250-800 / 250-1250 / 250-1600 / 250-2000 A Rated operational voltage Ue: 690 V AC Rated insulation voltage Ui : 1000 V Rated impulse voltage Uimp : 12 kV Rated frequency : 50/60 Hz Utilization category: B Rated short-circuit capacity at 440 / 690 V: Icm [kA] : 187 kA / 143 kA Icu [kA] : 85 kA / 65 kA Ics [kA] : 85 kA / 85 kA Icw [kA] : 65 kA / 65 kA (1 sec) Release system: SACE PR111, PR112, P113, PR121, PR122 and P123 (L, S, I, G) Communication port for monitoring purposes only |
| Test Standard | Guidelines for the Performance of Type Approvals (2003) IEC 60947-2 1995/A1:1997/A2:2003 Annex H |
| Documents | Test report : LOVAG 05.043, 05.044, 96.057 ETL SEMKO C133_06, C133_08, E13306, E13307, E13308, E13309 ACAE 05-033, 05-034, SE-42273 |
| Remarks | None |
| Valid until | 2016-11-21 |
| Page | 1 of 1 |
| File No. | I.K.01 |
| | Hamburg, 2011-11-22 |

Type Approval Symbol



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Christoph Kutzner

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