

TYPE APPROVAL CERTIFICATE
No. **ELE409208CS**



This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

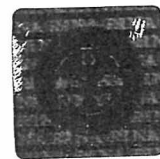
<i>Description</i>	Air circuit breaker
<i>Type</i>	Emax equipped with electronic release type PR331/P & PR332/P X1B X1N X1L
<i>Applicant</i>	ABB S.P.A. - ABB SACE DIVISION VIA BAIONI, 35 24123 BERGAMO (BG) ITALY
<i>Manufacturer</i>	ABB S.P.A. - ABB SACE DIVISION
<i>Place of manufacture</i>	VIA ENRICO FERMI, 14 03100 FROSINONE (FR) ITALY
<i>Reference standards</i>	IEC 60947-2 (2003)

Issued in **Genoa** on **July 7, 2009**. This Certificate is valid until **July 7, 2014**

RINA

Valerio Bonanni

This certificate consists of this page and 2 enclosures





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Emax equipped with electronic release type PR331/P & PR332/P

Product Description

Air circuit breakers type X1B, X1N, X1L.

Technical Data

Rated operational voltage (Ue).
Rated current (In): from 400A to 1600A.
Ambient temperature: 45°C.
Number of poles: 3,4.
Rated frequency: 50/60 Hz.
Utilization Category: B.
Rated short-circuit capacity:

Rated service short circuit breaking capacity (Ics)
Rated ultimate short circuit breaking capacity (Icu)
Rated short circuit making capacity (Icm)
Rated short-time withstand current (Icw)

X1B

Ue (V)	Ics (kA)	Icu (kA)	Icm (kA)	Icw (kA)
415	42	42	88,2	42
440	42	42	88,2	42
525	42	42	88,2	42
690	42	42	88,2	42

X1N

Ue (V)	Ics (kA)	Icu (kA)	Icm (kA)	Icw (kA)
415	50	65	143	42
440	50	65	143	42
525	42	50	105	42
690	42	50	105	42





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Emax equipped with electronic release type PR331/P & PR332/P

Technical Data

Rated operational voltage (Ue).

Rated current (In): 1210 A.

Ambient temperature: 45°C.

Number of poles: 4.

Rated frequency: 50/60 Hz.

Utilization Category: B.

Rated short-circuit capacity:

Rated service short circuit breaking capacity (Ics)

Rated ultimate short circuit breaking capacity (Icu)

Rated short circuit making capacity (Icm)

Rated short-time withstand current (Icw)

X1L 1250

Ue (V)	Ics (kA)	Icu (kA)	Icm (kA)	Icw (kA)
230	150	150	330	15
415	150	150	330	15
440	130	130	286	15
500	100	100	220	15
690	45	60	132	15

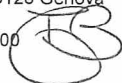
Release system

Electronic release type PR331/P & PR332/P.

Documents

- KEMA Test report n° 706692-1 issued on 04.07.2007.
- INTERTEK Test Report n° E133S2007G1_24aR issued on 31.05.2007.
- INTERTEK Test Report n° E133S2007G1_24a issued on 31.05.2007.
- CESI Test Report n° A7027435 issued on 06.01.2008.
- ABB SACE Test Report n° LBRP 8008/00 issued on 14.12.2007.
- ABB SACE Test Report n° LBRP 7876/00 issued on 20.12.2007.
- ABB SACE Test Report n° LBRP 8010/00 issued on 21.04.2008.
- ABB SACE Test Report n° LBRP 7876/00 issued on 20.12.2007.
- CESI Test Report n° A7027435 issued on 06.02.2008.
- ABB S.P.A. Test Report n° LBRP 8010/00 issued on 21.04.2008.
- INTERTEK Test Report n° E133S2007G1_24b issued on 31.05.2007.
- INTERTEK Test Report n° E133S2007G1_24bR issued on 31.05.2007.
- LOVAG Test Report n° IT 07.037 issued on 28.06.2007.
- LOVAG Test Report n° IT 08.021 issued on 07.04.2008.
- LOVAG Test Report n° IT 08.076 issued on 18.09.2008.
- LOVAG Test Report n° IT 08.077 issued on 06.10.2008.
- LOVAG Test Report n° IT 07.043 issued on 16.04.2007.
- LOVAG Test Report n° IT 08.050 issued on 17.04.2008.

RINA Società per azioni
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000





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Emax equipped with electronic release type PR331/P & PR332/P

Remarks

The product is subject to the compliance with RINA Rules Tab. 1, Pt. C, Ch. 3, Sec. 6, where applicable, and with the Standard mentioned on the certificate.

The present certificate annuls and replaces the certificate n° ELE276507CS issued on 14/04/2008.

Genoa 07/07/2009