

**TYPE APPROVAL CERTIFICATE**  
No. **ELE568208CS/002**



**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>	<b>Low Voltage circuit-breakers</b>
<i>Type</i>	<b>Tmax/ML equipped with electronic releases type PR221DS &amp; PR222DS</b> <b>T1B/ML 160</b> <b>T2H/ML 160</b> <b>T2L/ML 160</b> <b>T4H/ML 250</b> <b>T5H/ML 400</b> <b>T6L/ML 630</b>
<i>Applicant</i>	<b>ABB S.P.A. - ABB SACE DIVISION</b> <b>VIA BAIONI, 35</b> <b>24123 BERGAMO (BG)</b> <b>ITALY</b>
<i>Manufacturer</i>	<b>ABB S.P.A. - ABB SACE DIVISION</b>
<i>Place of manufacture</i>	<b>VIA ENRICO FERMI, 14</b> <b>03100 FROSINONE (FR)</b> <b>ITALY</b>
<i>Reference standards</i>	<b>IEC 60947-2</b>

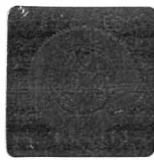
Issued in **Genoa** on **January 13, 2009**. This Certificate is valid until **May 30, 2011**



RINA  
**Valerio Bonanni**

This certificate consists of this page and 1 enclosure





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Tmax/ML equipped with electronic releases type PR221DS & PR222DS

**Product Description**

Low voltage circuit-breakers type T1B/ML 160, T2H/ML 160, T2L/ML 160, T4H/ML 250, T5H/ML 400, T6L/ML 630.

**Technical Data**

- Ambient temperature: 45°C.
- Rated frequency: 50-60 Hz.
- Rated operational voltage (Ue)
- Rated operational current (Iu)
- Rated short-circuit capacity:

*Rated service short circuit breaking capacity (Ics)*

*Rated ultimate short circuit breaking capacity (Icu)*

*Rated short circuit making capacity (Icm)*

**T1B/ML 160 - Iu=160A - Utilization Category: A**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	10	10	17

**T2H/ML 160 - Iu=160A - Utilization Category: A**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	55	55	121

**T2L/ML 160 - Iu=160A - Utilization Category: A**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	56	75	165

**T4H/ML 250 - Iu=250A - Utilization Category: A**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	65	65	143
690	40	40	84

**T5H/ML 400 - Iu=400A - Utilization Category: B**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	65	65	143
690	40	40	84

**T6L/ML 630 - Iu=630A - Utilization Category: B**

Ue	Ics (kA)	Icu (kA)	Icm (kA)
440	60	80	176
690	23.4	30.3	63

**Release system**

Thermomagnetic release TMD.

Electronic release type PR221DS & PR222DS.





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**Tmax/ML equipped with electronic releases type PR221DS & PR222DS**

**Remarks**

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

**Genoa January 13, 2009**