



**DESIGN ASSESSMENT CERTIFICATE**  
**No. ELE453122CS**

**This is to certify** that, at request of the Applicant, design plans and data for the products listed below have been examined against applicable sections of the Rules. This certificate is not a type approval certificate or a production control certificate and does not exempt the product from being tested in accordance with applicable RINA rules and procedures for its installation on board. It will remain valid until the expiring date and will automatically become invalid in case of, either changes in the applicable Rules or changes in the product carried out without RINA approval.

<i>Description</i>	<b>Switch disconnecter</b>
<i>Type</i>	<b>EMAX 2 /ML Series</b> <b>Models: E.2.2 /ML, E4.2/ML, E6.2/ML</b>
<i>Applicant</i>	<b>ABB S.P.A. - ABB SACE DIVISION</b> <b>Via Pescaria, 35</b> <b>24123 Bergamo</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</b> <b>ITALY</b>
<i>Reference standards</i>	<b>IEC 60947-3:2008 (3rd Edition) + AMD1:2012 + AMD2:2015 in</b> <b>conjunction with IEC 60947-1:2007, AMD1:2010, AMD2:2014</b>

*Issued in* **Genoa** on **December 28, 2022**. *This Certificate is valid until* **December 27, 2027**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**  
**No. ELE453122CS**  
**Enclosure - Page 1 of 1**  
**EMAX 2 /ML Series**  
**Models: E.2.2 /ML, E4.2/ML, E6.2/ML**

Switch disconnectors : E2.2/ML, E4.2/ML, E6.2/ML

E2.2/ML Switch-disconnectors main features:

Method of operation: independent manual operation; independent power operation

Suitability for isolation: suitable

Number of poles: 3P, 4P

Kind of current: AC

Rated frequency: 50/60 Hz

Rated insulation voltage  $U_i(V)$ : 1000V

Rated impulse withstand voltage  $U_{imp}(kV)$ : 12 kV

Utilization category: AC-23A

Pollution degree: 3

Models		E 2.2 N / MS	E 2.2 H / MS
Rated operational Voltage $U_e$	V	440/690	
Conventional free air thermal $I_{th}$	A	800, 1250, 1600, 2000, 2500	
Rated operational current $I_e$	A		
Rated short-time withstand current $I_{cw}$	kA	66 kA/1s	85 kA/1s
Rated short-time making capacity $I_{cm}$	kA	145 kA	187 kA

Models		E 4.2 N / MS	E 4.2 H / MS	E 2.2 V / MS
Rated operational Voltage $U_e$	V	440/690		
Conventional free air thermal $I_{th}$	A	3200, 4000		2000, 2500, 3200, 4000
Rated operational current $I_e$	A			
Rated short-time withstand current $I_{cw}$	kA	66 kA/1s	85 kA/1s	100 kA/1s
Rated short-time making capacity $I_{cm}$	kA	145 kA	187 kA	220 kA

Models		E 6.2 H/MS E 6.2 H/f/MS	E 6.2 X/MS E 6.2 H/f/MS
Rated operational Voltage $U_e$	V	440/690	
Conventional free air thermal $I_{th}$	A	4000, 5000, 6300	
Rated operational current $I_e$	A		
Rated short-time withstand current $I_{cw}$	kA	100 kA/1s	120 kA/1s
Rated short-time making capacity $I_{cm}$	kA	220 kA	264 kA

Technical specifications: 1SDC007910D0201 (02-2022)

Test Reports: STIE doc. n. 00901-CB2019CQC-090388-M3 (2022-02-23)

STIE doc. n. 00901-CB2019CQC-088018 (2020-01-09)

STIE doc. n. 00901-CB2014CQC-064199 (2015-04-13)

CB Test Certificate \_ China Quality certification center:

CN56272 (24/03/2022)

CN34014-A1/M1 (2016-01-22)

CN34016A1/M1 (2015-0702)

CN34040 (2015-05-08)

Reference document:

TAO-APP dated 08.11.2022

Offer n. 2022/23831 dated 16.11.2022

TAC n. ELE413117CS

**Genoa 28/12/2022**

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