

1SDL000282R1377 – ed.2

Subject: RoHS II declaration

Bergamo, November 20th, 2025

On January 3rd 2013, Directive 2011/65/EU (RoHS II) on the restriction of the use of certain hazardous substances in electrical and electronic equipment replaced Directive 2002/95/EC (RoHS).

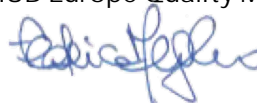
According to our current best knowledge and according to the information provided by suppliers, ABB states that manufactured Moulded Case, Air and Solid State Circuit Breakers and related accessories comply with the materials and substances restrictions in Directive 2011/65/EU (RoHS II) and Amendment Directive (EU) 2015/863.

All information concerning RoHS exemptions is illustrated in ABB document 1SDL000571R0001.

Mario Bortoli
ELSP R&D Local Duties Owner



Federica Meglio
HUB Europe Quality Manager



RoHS EXEMPTIONS MCCBs, ACBs and SSCBs

MOULDED CASE CIRCUIT BREAKERS (MCCBs)

6(a)-I - Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight

- Pin mounted on Formula A2 operating mechanism
- Pin mounted on Tmax T6 circuit breakers

6(b) - Lead as an alloying element in aluminium containing up to 0.4% lead by weight

- Connection terminals type FC CuAl for Tmax T1-T3-T4 breakers and for Tmax XT XT2-XT4-XT5 breakers
- A component mounted in the operating mechanism of Tmax T7M circuit breakers

6(c) - Copper alloy containing up to 4% lead by weight

- A terminal board for Moulded Case Circuit Breakers
- A terminal board for shunt opening releases and for undervoltage releases for Tmax T4-T5 circuit breakers
- Connection terminals type FC Cu for Tmax T5 circuit breakers and for Tmax XT XT1 circuit breakers

7(a) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)

- Some electronic components mounted inside trip units of Tmax and Tmax XT circuit breakers

7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

- Some electronic components mounted inside trip units of Tmax and Tmax XT circuit breakers

Author	Davide Pirola	Document Title	RoHS Exemptions (MCCBs-ACBs-SSCBs)	Version 05
Role	ELSP Product Compliance Material Manager	Document Number	1SDL000571R0001	Number of Pages
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RoHS EXEMPTIONS MCCBs, ACBs and SSCBs

AIR CIRCUIT BREAKERS (ACBs)

6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight

- Motor operators for Emax 2 and for Emax 3 circuit breakers

6(a)-I - Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight

- Motor operators for Emax 2 and for Emax 3 circuit breakers

6(c) - Copper alloy containing up to 4% lead by weight

- A terminal board for Air Circuit Breakers
- Motor operators for Emax 2 and for Emax 3 circuit breakers

7(a) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)

- Some electronic components mounted inside trip units of Emax 2 and of Emax 3 circuit breakers

7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

- Some electronic components mounted inside trip units of Emax 2 and of Emax 3 circuit breakers

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RoHS EXEMPTIONS MCCBs, ACBs and SSCBs

SOLID STATE CIRCUIT BREAKERS (SSCBs)

6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight

- Motor operators for Infinitus circuit breakers

6(a)-I - Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight

- Motor operators for Infinitus circuit breakers

6(c) - Copper alloy containing up to 4% lead by weight

- A terminal board for Infinitus circuit breakers
- Motor operators for Infinitus circuit breakers

7(a) - Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead)

- Some electronic components mounted inside trip units of Infinitus circuit breakers

7(c)-I - Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound

- Some electronic components mounted inside trip units of Infinitus circuit breakers

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