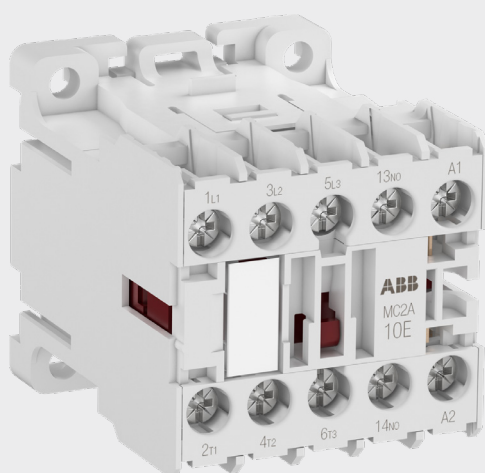


Mini contactor

MC2



ABB's M mini contactors are a performance-dimension optimized solution for all the purposes. Mainly dedicated to the control of motor and resistive loads, also in harsh conditions, the range includes single contactors equipped with three or four main poles and two different types of terminals, a wide range of variants dedicated to rolling stock applications, and a complete set of accessories. Thanks to a dedicated mechanical interlock, it is also possible to create reversing starters.

Features

MC2 mini contactors are used in industrial, but also household environments for the control of single or three-phase motor loads up to 5.5 kW and resistive loads up to 20 A. These devices can be equipped with standard AC or DC coils, low energy consumption coils for direct control by PLC, and extended operating limit coils for facing voltage fluctuations. The superior quality of materials they are built with ensures suitability for household appliances according to IEC 60335-1 clause 30, and in applications characterized by extreme conditions (e.g. high temperature, high altitude, fast operation). All products can be combined with ABB's Manual Motor Starters or T16 Overload Relays for complete, but still compact, protection solutions.

Product conformity & compliance

REACH (Regulation EC 1907/2006)

MC2 and related accessories were classified as Articles and, during normal and reasonably foreseeable conditions of use, do not intentionally release any substance or preparation. ABB continuously undertakes communications throughout its supply chain in order to collect information about suppliers' compliance with REACH regulation.

SVHC (Regulation EC 1907/2006 REACH)

ABB continuously assesses its products for content of Substances of Very High Concern (SVHC), as included in the "Candidate List" by the European Chemicals Agency (ECHA). ABB publishes the data about the products that are having a part with SVHC in the SCIP database.

RoHS II

MC2 and related accessories are within the scope of directive 2011/65/EU (RoHS II) and amendment 2015/863, starting from July 22 2019.

WEEE

The Waste Electrical and Electronic Equipment Directive (WEEE Directive) is the European Community directive 2012/19/EU on waste electrical and electronic equipment (WEEE) which, together with the RoHS Directive, became European law in February 2003.

Product safety

Compliance with essential health and safety requirements has been assured by compliance with the applicable product and safety standards. The validation according to the product and safety standards is carried out by third party tests laboratory (STIEE / TL030) in respect of the EN ISO/IEC 17025 European standard, according to IECEE CB scheme. CB certificate has been issued.

Standards:

- IEC/EN 60947-1
- IEC/EN 60947-4-1
- IEC/EN 60947-5-1
- UL 60947-1
- UL 60947-4-1
- UL 60947-5-1

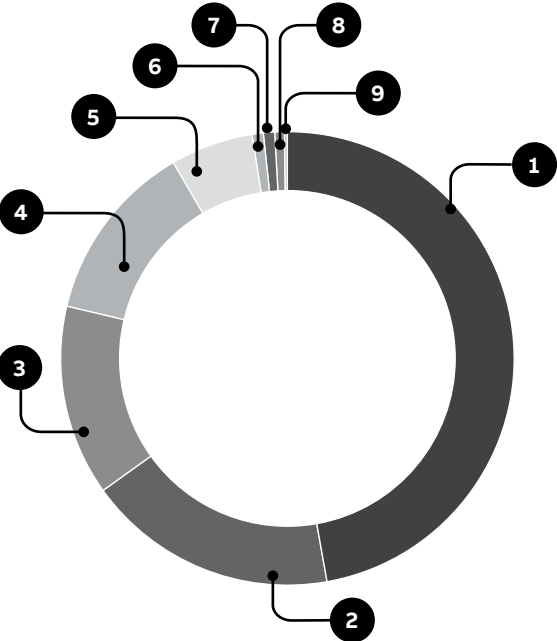
Directives:

- EC Low Voltage Directive (LVD) 2014/35/EU

Material declaration

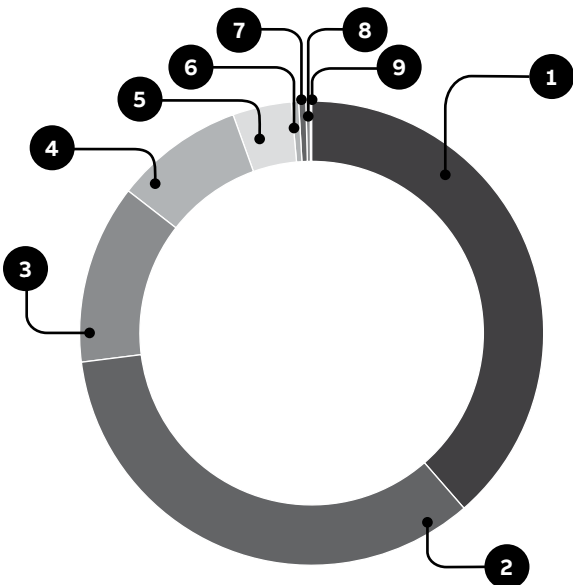
This section outlines the material composition of two representative products of the MC2 mini contactors. MC2A310AT6 for AC operated and MC2C310ATD for DC operated mini contactor. The constituent materials are distributed as follows.

MC2A310AT6. The total weight of the product is 170 gr.



| Material | % wt |
|-----------------------|--------|
| 1 Steel | 47.2 % |
| 2 Copper | 17.9 % |
| 3 PA | 13.6 % |
| 4 PBT | 12.9 % |
| 5 Copper alloys | 5.9 % |
| 6 Silver alloys | 0.8 % |
| 7 Stainless steel | 0.8 % |
| 8 Other metals | 0.8 % |
| 9 Other thermoplastic | 0.1 % |
| TOTAL | 100 % |

MC2C310ATD. The total weight of the product is 250 gr.

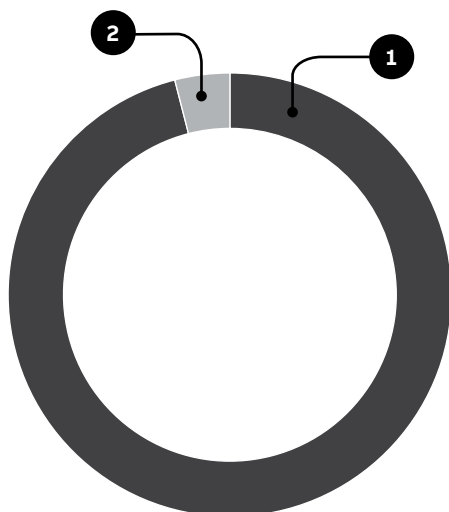


| Material | % wt |
|-----------------------|--------|
| 1 Copper | 38.6 % |
| 2 Steel | 34.4 % |
| 3 PBT | 12.5 % |
| 4 PA | 9.0 % |
| 5 Copper alloys | 4.1 % |
| 6 Silver alloys | 0.5 % |
| 7 Stainless steel | 0.5 % |
| 8 Other metals | 0.3 % |
| 9 Other thermoplastic | 0.1 % |
| TOTAL | 100 % |

Packaging

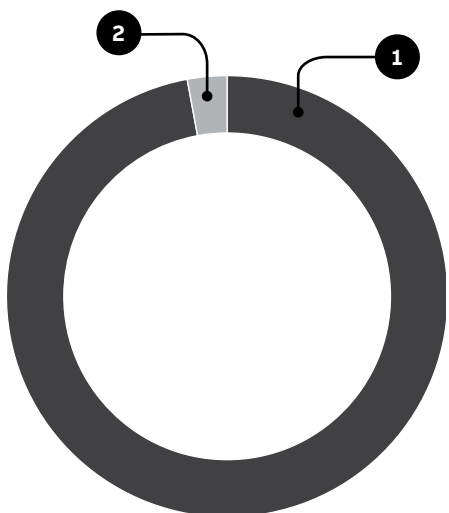
The tables below provide information for each packaging material used. The card box used for the product material are made of recycled fibers and are 100 % recyclables.

MC2A310AT6. Packaging material composition: total weight 10 gr.



| Material | % wt |
|-----------|--------|
| 1 Cardbox | 95.9 % |
| 2 Paper | 4.1 % |
| TOTAL | 100 % |

MC2C310ATD. Packaging material composition: total weight 13.5 gr.



| Material | % wt |
|-----------|--------|
| 1 Cardbox | 97.1 % |
| 2 Paper | 2.9 % |
| TOTAL | 100 % |

Product use



Energy

Power losses for mini contactor MC2 are indicated in the following table:

| Type | | Power loss (W/device) |
|------|------------------------|--------------------------|
| MC2A | I _e / AC-1 | 9.0 |
| | I _e / AC-3 | 7.7 |
| | I _e / AC-3e | 7.7 |
| MC2C | I _e / AC-1 | 5.6 |
| | I _e / AC-3 | 4.2 |
| | I _e / AC-3e | 4.2 |

End-of-life

At the end of operating life, constituent components of MC2 mini contactor have been optimized in order to reduce waste amount and increase recovery of the material. Metals and polymers contained into MC2 mini contactor are characterized by high recycling rates. Most plastic parts are marked for easy sorting.

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