PRODUCT ENVIRONMENTAL INFORMATION

Mini contactors

B7, BC7



ABB's B7/BC7 mini contactors are reliable switching devices characterized by very small dimensions. Mainly dedicated to the control of motor and resistive loads. The range includes standard and reversing contactors equipped with 3 or 4 main poles. B7/BC7 mini contactors are in different types of terminals available and have a wide range of accessories.

B7/BC/ mini contactors are used in industrial applications, residential buildings and commercial buildings for the control of single or three-phase motor loads up to 5.5 kW or resistive loads up to 20 A. Pre-assembled reversing contactors are also included in the assortment. Versions for AC or DC operation and special DC versions with low energy consumptions coils for direct control by PLC are available. In every case, B7/BC7 mini contactors are hum-free. Contact configuration 30-01 fulfills the requirements for Mirror contacts acc. to annex F of IEC/EN 60947-4-1. All the items can be combined with ABB's manual motor starters or T16 overload relays for complete and compact motor starters.

Product conformity & compliance

REACH (Regulation EC 1907/2006)
B7/BC7 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). According to our best knowledge, B7/BC7 and related accessories do not contain SVHC substances exceeding 0.1 % w/w.

RoHS II
B7/BC7 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

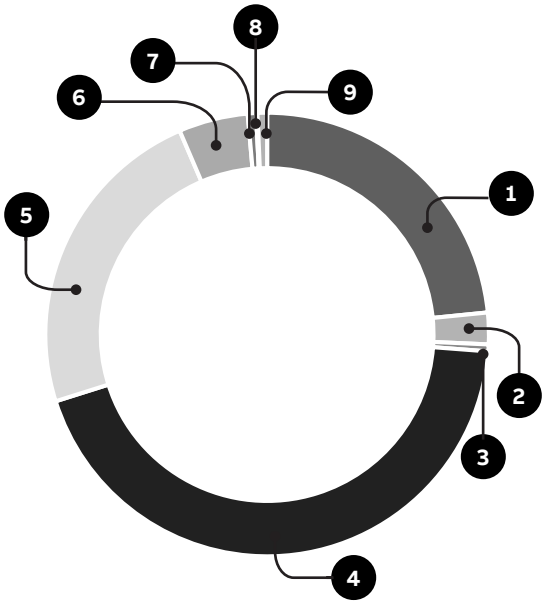
- UL 60947-1
- UL 60947-4-1
- UL 60947-5-1

Directives:
- EC “Low Voltage Directive” (LVD) 2014/35/EU

Material declaration

This section outlines the material composition of B7-30-10-80 as representative products for B7/BC7.
The constituent materials are distributed as follows.

The total weight of B7-30-10-80 is 175 gr.

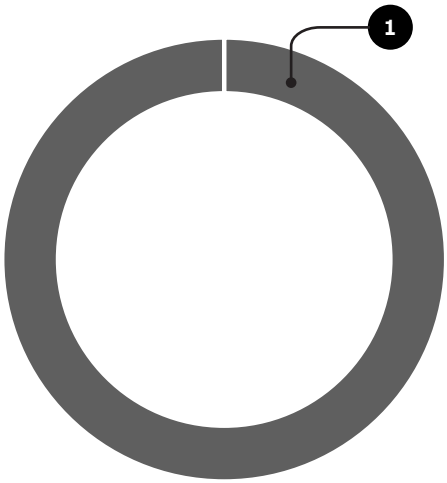


Material		% wt
1	PA	23.4 %
2	Other thermoplastic	2.3 %
3	Thermoset	0.5 %
4	Steel	43.9 %
5	Copper	23.4 %
6	Copper alloys	5.1 %
7	Silver alloys	0.6 %
8	Stainless steel	0.1 %
9	Electronic parts	0.7 %
	TOTAL	100 %

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.

B7/BC7 packaging material composition: total weight 8 gr.



Material		% wt
1	Cardbox	100 %
	TOTAL	100 %

Product use

Energy

Power losses for B7/BC7 mini contactors are indicated in the following table

Type		Power loss (W/device)
B7/BC7	Ie / AC-1	8.0
	Ie / AC-3	5.4
	Ie / AC-3e	5.4

End-of-life

At the end of operating life, constituent components of B7/BC7 mini contactors have been optimized in order to reduce waste amount and increase recovery of the material. Metals and polymers contained into B7/BC7 mini contactors are characterized by high recycling rates. Most plastic parts are marked for easy sorting.

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