

Mini contactor relays

K6, KC6



ABB's K6/KC6 mini contactor relays are reliable switching devices characterized by very small dimensions. Mainly dedicated to the control of small AC/DC loads, all the devices are equipped with 4 poles. Different types of terminals and a wide range of accessories are available.

K6/KC6 mini contactor relays are mainly used in industrial applications for the control of small loads up to 6 A. All the devices can be equipped with standard AC or DC coils and low energy consumptions DC coils for direct control by PLC. In all cases, K6/KC6 mini contactor relays are hum-free. Contact configurations 22 and 31 fulfill the requirements for mechanically linked contacts acc. to annex L of IEC/EN 60947-5-1.

Product conformity & compliance

REACH (Regulation EC 1907/2006)

K6/KC6 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

K6/KC6 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 60947-5-1
- UL 60947-1
- UL 60947-5-1

Directives:

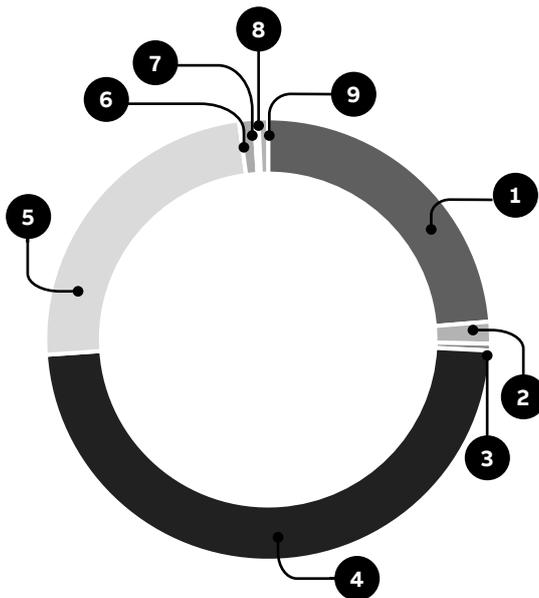
- EC "Low Voltage Directive" (LVD) 2014/35/EU

Material declaration

This section outlines the material composition of K6-40E-80 as representative products for K6/KC6.

The constituent materials are distributed as follows.

The total weight of K6-40E-80 is 175 gr.

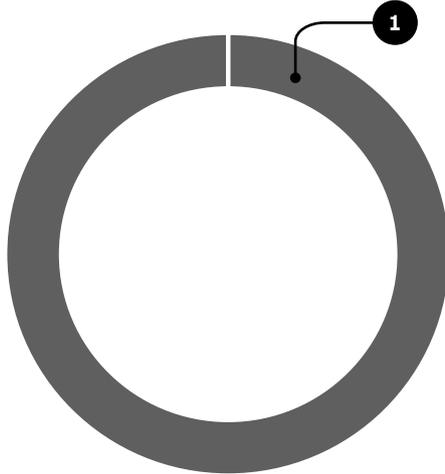


Material	% wt
1 PA	23.7 %
2 Other thermoplastic	1.6 %
3 Thermoset	0.5 %
4 Steel	48.1 %
5 Copper	24.0 %
6 Copper alloys	1.1 %
7 Silver alloys	0.2 %
8 Stainless steel	0.1 %
9 Electronic parts	0.7 %
TOTAL	100 %

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.

K6/KC6 packaging material composition: total weight 8 gr.



Material	% wt
1 Cardbox	100 %
TOTAL	100 %

Product use



Energy

Power losses for K6/KC6 mini contactor relays are indicated in the following table

Type		Power loss (W/device)
K6/KC6	I_{th}	4.8

End-of-life

At the end of operating life, constituent components of K6/KC6 mini contactor relays have been optimized in order to reduce waste amount and increase recovery of the material. Metals and polymers contained into K6/KC6 mini contactor relays are characterized by high recycling rates. Most plastic parts are marked for easy sorting.

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