

Time relays

CT-D



The CT-D range is well suited for building and residential applications. They are typically used for delayed switching of lamps (e.g. stairwells, staircases, etc), air conditioning system, heaters, elevators, escalators, gates and other applications.

The CT-D range is ideal for building applications and installation panels, due to its compact modular housing. For maximum flexibility in operation, nine single-function as well as two multifunction devices with seven timing functions are available. The devices offer four or seven time ranges from 0.05 seconds up to 100 hours. Their wide supply voltage range allows their use in applications worldwide.

Product conformity & compliance

REACH (Regulation EC 1907/2006)

CT-D time relays 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.

RoHS II

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

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.

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 IECCE CB scheme. CB certificate has been issued.

Standards:

- IEC/EN 61812-1
- UL 508

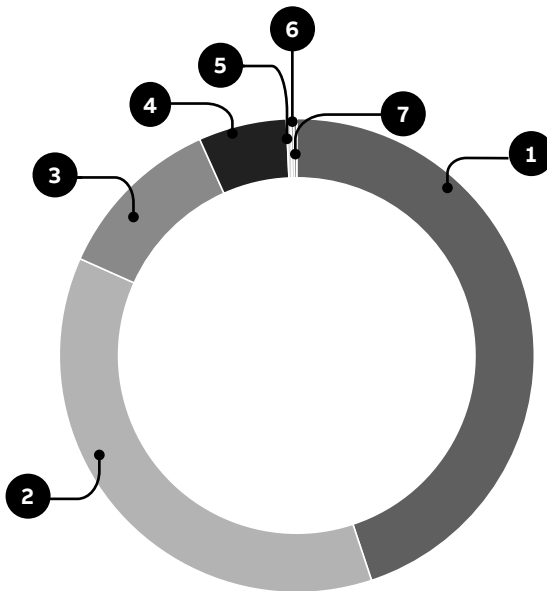
Directives:

- Low Voltage Directive 2014/35/EU
- EMC directive 2014/30/EU
- RoHS Directive 2011/65/EU incl. 2015/863/EU

Material declaration

This section outlines the material composition of CT-MFD.21 as representative products for CT-D time relays. The constituent materials are distributed as follows.

Time Relay CT-MFD.21. The total weight of the product is 67 gr.

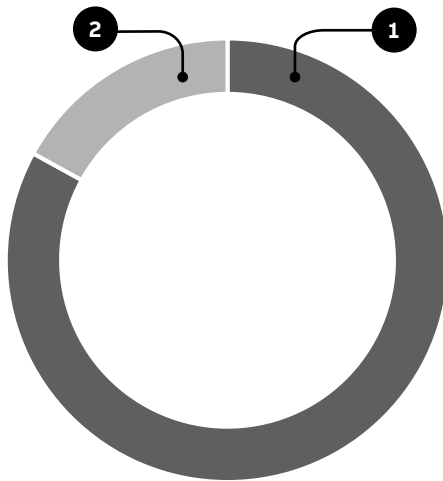


| Material | % wt |
|-----------------|--------|
| 1 PCBA | 44.90% |
| 2 PA | 36.80% |
| 3 Copper alloys | 11.60% |
| 4 Steel | 6.00% |
| 5 PC | 0.30% |
| 6 PBT | 0.20% |
| 7 Paper | 0.20% |
| TOTAL | 100 % |

Packaging

The charts below provide information for each packaging material used. The cardboard and the paper used for the product material are made of recycled fibers and are 100 % recyclables. The polymer films used are marked with the proper identification code and are recyclable.

Time relay CT-MFD.21 packaging material composition: total weight = 13 gr.



| Material | % wt |
|-----------|--------|
| 1 Cardbox | 83.0 % |
| 2 Paper | 17.0 % |
| TOTAL | 100 % |

Product use



Energy

Power losses are indicated in the following table.

| Type | Power (W) consumption | Apparent (VA) power |
|----------------------|-----------------------|---------------------|
| Time relay CT-MFD.21 | 1.0 | 1.7 |

End-of-life

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

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