

Smart temperature monitoring relays

CM-TCN



The temperature monitoring relays CM-TCN are equipped with up to three sensor circuits that accommodate inputs from the most common sensors (PTC, PT100, PT1000 and NTC). The CM-TCN relays are used to monitor the temperature of electric motors, control cabinets, busbars and to protect transformers from overheating.

Features

Set up these innovative temperature monitoring relays exactly as you need, either via a back-lit LCD or smartphone app. Parametrization and configuration are just one touch away with the ABB EPiC app – even in a non-powered state – reducing installation time by 80 %. Just one relay covers a wide range of applications, enables you to monitor their condition and provides thermal protection. Increased uptime and safety makes ABB's Smart monitoring relays a true game changer.

Product conformity & compliance

REACH (Regulation EC 1907/2006)

CM-TCN temperature monitoring 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.

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

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

WEEE

The Waste Electrical and Electronic Equipment Directive (WEEE Directive 2012/19/EU) is the European Community directive 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 IEC/CE CB scheme. CB certificate has been issued.

Standards:

- IEC/EN 60947-5-1
- UL60947-5-1
- CAN/CSA C22.2 No. 60947-5-1

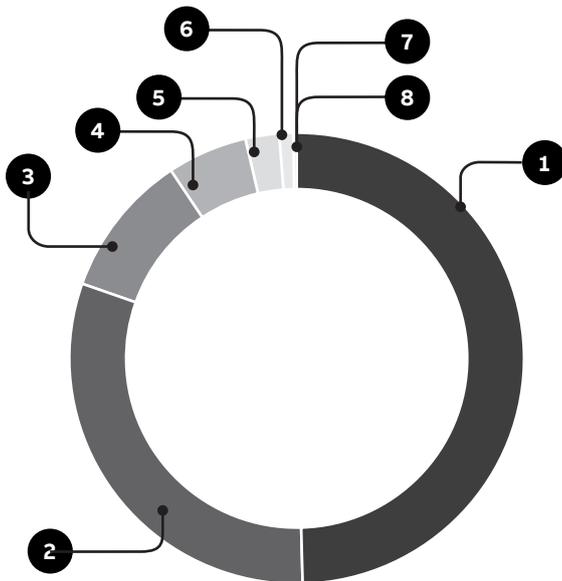
Directives:

- Low Voltage Directive No. 2014/35/EU
- EMC Directive No. 2014/30/EU
- RoHS Directive No. 2011/65/EU incl. 2015/863/EU

Material declaration

This section outlines the material composition of CM-TCN.011S as representative products for CM-TCN temperature monitoring relays. The constituent materials are distributed as follows:

Temperature monitoring relays CM-TCN.011S.
The total weight of the product is 265.7 gr.



Material	% wt
1 PCBA	49.6 %
2 PA	30.8 %
3 Copper alloys	10.3 %
4 Steel	5.7 %
5 Stainless steel	2.4 %
6 PC	1.0 %
7 ASA	0.1 %
8 Paper	0.1 %
TOTAL	100 %

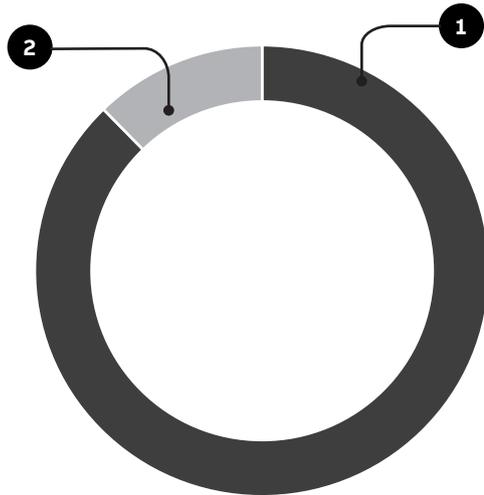
Packaging

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.

Temperature monitoring relays CM-TCN.011S

Packaging material composition:

total weight = 28 gr.



Material	% wt
① Cardbox	87.7 %
② Paper	12.3 %
TOTAL	100 %

Product use



Energy

Power losses are indicated in the following table.

Type	Power (W) El. supply A1/A2 at 230V AC, 50Hz	Apparent (VA) Power El. supply A1/A2 at 230V AC, 50Hz
CM-TCN.011	0.7	0.9
CM-TCN.012	0.9	1.3

End-of-life

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

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