
PROTECTION AND CONNECTION

Product environmental information

XRE00, XRE1, XRE2, XRE3



Product conformity and compliance

RoHs and RoHs II

XRE Switch Disconnecter Fuses are not within Directive 2002/95/EC (RoHs) scope. It is still not clear if they will be within the scope of Directive 2011/65/EU (RoHS II), whose provisions, in any case, will be mandatory starting from July 2019.

SVHC (Regulation EC 1907/2006 REACH)

ABB Oy, Protection and Connection 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, XRE Switch Disconnecter Fuses do not contain SVHC substances exceeding 0.1% w/w.

WEEE

XRE Switch Disconnecter Fuses are compliant and in the scope Waste of Electrical and Electronics equipment (WEEE) Directive 2012/19/EU.

Product Safety

The product has been tested according to standards:

IEC/EN60947-1

IEC/EN60947-3

Directives:

"Low Voltage Directive" (LDV) 2006/95/EC

"Electromagnetic Compatibility Directive" (EMC) 2004/108/EC

Material declaration

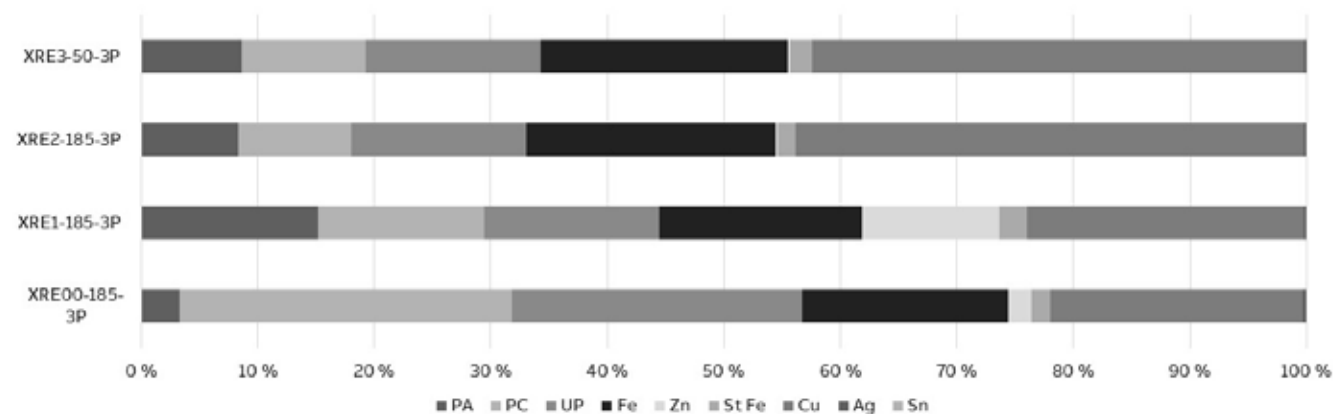
The charts below the constituents of XRE Switch Disconnecter Fuses. The constituent materials are distributed as follows.

Material declaration

Material	XRE00-185-3P	XRE1-185-3P	XRE2-185-3P	XRE3-50-3P
PA	0,115	1,0155	1,2718	1,3315
PC	0,982	0,9439	1,4874	1,6597
UP	0,859	1,0050	2,3130	2,3130
Fe	0,610	1,1569	3,2487	3,2713
Zn	0,069	0,7764	0,0343	0,0334
St Fe	0,566	0,1609	0,2449	0,2930
Cu	0,749	1,5880	6,6604	6,5280
Ag	0,009	0,0137	0,0290	0,0266
Sn				0,0009

The total weight of the products

XRE00 , 3 pole	3,6 Kg
XRE1 , 3 pole	6,8 Kg
XRE2 , 3 pole	15,0 kg
XRE3 , 3 pole	15,4 kg
XRE00 , 4 pole	4,1 Kg
XRE1 , 4 pole	7,2 Kg
XRE2 , 4 pole	16,2 kg
XRE3 , 4 pole	16,8 kg



Packaging

The polyethylene plastic films and cardboard are used in the packaging materials, which are recyclable.

Product use

Energy

Power losses per all three phases with rated current but without fuses in XRE00 is 43 W, in XRE1 is 78 W, in XRE2 is 158 W and in XRE3t is 357 W.

Energy consumption without fuses during the use of XRE Switch Disconnectors Fuses have been estimated assuming 10 years when operated 3650 hours per year (10 hours per day), load factor 70%.

XRE00: 1010 kWh

XRE1: 1990 kWh

XRE2: 4040 kWh

XRE3: 9120 kWh

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