

Product Eo01n99E1b



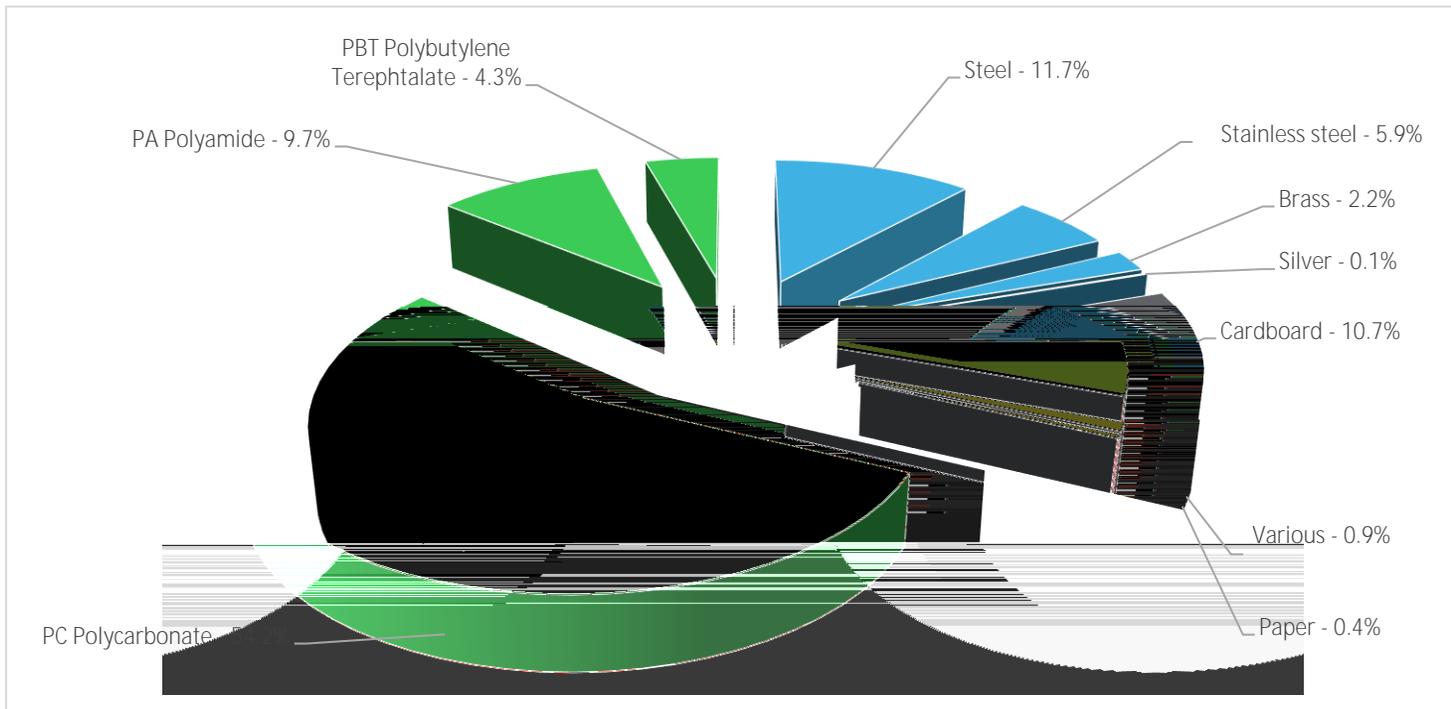
General information

Representative product	Harmony XAL Control Stations - XALD112E
Description of the product	Harmony XAL Control Stations use 1 to 3 plastic bezel pushbuttons, switches and pilot lights of Harmony XB5 range, which offers a wide choice of circular and square types of heads, to cater for the most commonly encountered functions of Start, Stop or Combined Functions.
Description of the range	<p>XAL control stations are available in two forms:</p> <ul style="list-style-type: none"> - Complete pre-assembled stations <p>These are complete, ready to install, stations fitted with 1 to 3 buttons to cater for the most commonly encountered functions. These pushbuttons, switches and pilot lights comprise plastic heads from Harmony XB5 range and electrical blocks.</p> <ul style="list-style-type: none"> - Stations for customer assemblies <p>These stations are for assembly by the user and offer a choice of 2 assembly methods.</p> <p>The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.</p>
Functional unit	To provide Stop, Start or Combined functions on 10A electrical load for 20 years at 30% use rate with 0.5W power use.



Constituent materials

Reference product mass	146.7 g including the product, its packaging and additional elements and accessories
-------------------------------	--



Plastics	68.2%
Metals	19.9%
Others	12.0%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

Additional environmental information

The Harmony XAL Control Stations presents the following relevant environmental aspects

Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 16.4 g, consisting of paper (2.5%), cardboard (97.5%) Packaging recycled materials is 100% of total packaging mass.
Installation	XALD112E does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Plastic parts with brominated FR (5.53g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 21% (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	20 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	No special components needed			
Use scenario	The product is in active mode 30% of the time with 0.5W power use and in stand-by mode 70% of the time without power use, for 20 years.			
Geographical representativeness	Europe			
Technological representativeness	Harmony XAL Control Stations use 1 to 3 plastic bezel pushbuttons, switches and pilot lights of Harmony XB5 range, which offers a wide choice of circular and square types of heads, to cater for the most commonly encountered functions of Start, Stop or Combined Functions.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: France	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Harmony XAL Control Stations - XALD112E					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.33E-04	3.32E-04	0*	0*	1.12E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	5.99E-02	6.06E-03	8.64E-05	0*	5.37E-02	4.11E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	8.45E-03	5.17E-03	1.99E-05	8.96E-07	3.24E-03	1.28E-05
Contribution to global warming	kg CO ₂ eq	1.39E+01	9.55E-01	1.89E-02	0*	1.29E+01	2.77E-02
Contribution to ozone layer depletion	kg CFC11 eq	9.19E-07	7.94E-08	0*	0*	8.39E-07	9.75E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.38E-03	4.19E-04	6.17E-06	0*	2.95E-03	4.17E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	4.67E+01	0*	0*	0*	4.67E+01	0*
Total Primary Energy	MJ	2.75E+02	1.73E+01	2.68E-01	0*	2.57E+02	1.95E-01

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	MJ	1.60E+02	1.37E+01	2.66E-01	0*	1.46E+02	1.56E-01
	m³	6.53E+02	9.64E+01	8.05E-01	0*	5.54E+02	1.43E+00
	m³	7.90E+02	2.54E+02	3.11E+00	1.34E-01	5.31E+02	1.87E+00
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	3.61E-03	3.61E-03	0*	0*	0*	0*
	MJ	3.33E+01	5.75E-01	0*	0*	3.27E+01	0*
	MJ	2.42E+02	1.67E+01	2.67E-01	0*	2.24E+02	1.94E-01
	MJ	3.30E+01	2.51E-01	0*	0*	3.27E+01	0*
	MJ	3.24E-01	3.24E-01	0*	0*	0*	0*
	MJ	2.38E+02					

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, for other products in this product family, RMD indicator may be proportional extrapolated by product mass, Water Eutrophication indicator may be proportional extrapolated by both product mass and the energy consumption, and the other environmental indicators may be proportional extrapolated by the energy consumption.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number ENVPEP1806010_V1 Drafting rules PCR-ed3-EN-2015 04 02

Independent verification of the declaration and data

Internal X External