

Product Environmental Profile

Easergy T300





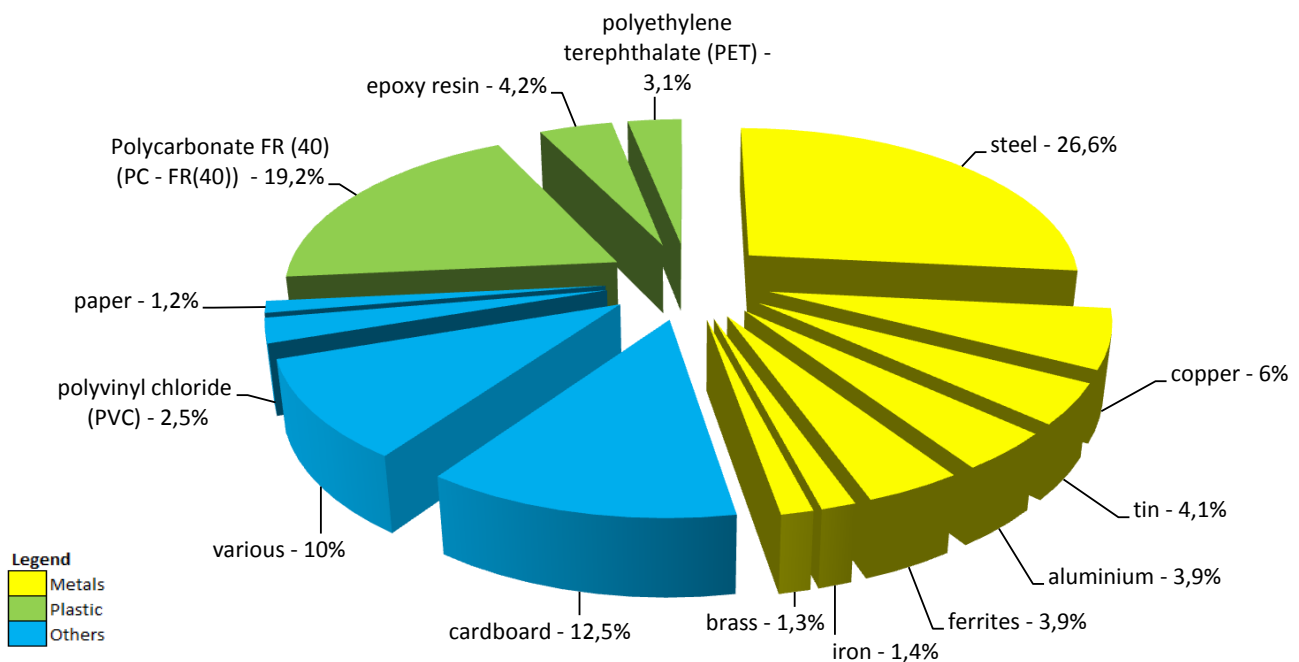
General information

Representative product	Easergy T300 -EMS59000
Description of the product	Easergy T300 delivers advanced monitoring, control and automation functions in both overhead and underground electrical distribution networks.
Functional unit	Control and monitor MV & LV breakers, 24h per day, for 10 years of continuous operations in Europe.



Constituent materials

Reference product mass 6588 g including the product, its packaging and additional elements and accessories



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 Easergy T300 presents the following relevant environmental aspects

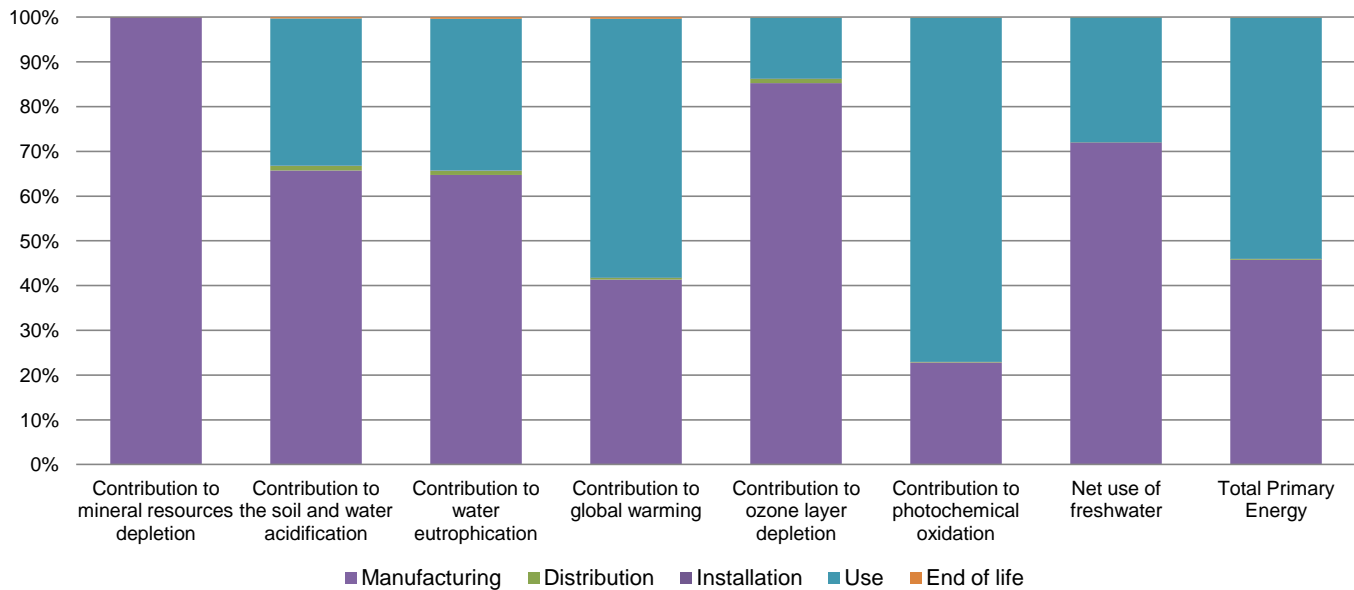
Design	In equivalent features Eco-design brought improvements. Consumption for example is 30 % less than previous range.
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 1136,3 g, consisting of cardboard (95%), PE film (5%) Packaging recycled materials is 80% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	This product 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 electronic cards (2254g) 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: 50% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

Reference life time	10 years			
Product category	Active products			
Installation elements	End of live of the packaging			
Use scenario	Consumed power is 13 W 5 % of the time in Active mode, 7 W 95 % of the time in Standby mode,			
Geographical representativeness	Europe			
Technological representativeness	Easergy T300 delivers advanced monitoring, control and automation functions in both overhead and underground electrical distribution networks.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: France	Electricity mix; AC; consumption mix, at consumer; 220V - 230V; RER	Electricity mix; AC; consumption mix, at consumer; 220V - 230V; RER	Electricity mix; AC; consumption mix, at consumer; 220V - 230V; RER

Compulsory indicators		Easergy T300 - EMS59000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4,70E-02	4,70E-02	0*	0*	9,42E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	8,51E-01	5,60E-01	8,52E-03	3,41E-04	2,80E-01	2,37E-03
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2,22E-01	1,44E-01	2,17E-03	8,08E-05	7,53E-02	8,75E-04
Contribution to global warming	kg CO ₂ eq	6,27E+02	2,59E+02	2,78E+00	1,09E-01	3,63E+02	2,24E+00
Contribution to ozone layer depletion	kg CFC11 eq	1,47E-04	1,25E-04	1,41E-06	0*	2,01E-05	1,33E-07
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2,21E-01	5,03E-02	3,83E-04	3,58E-05	1,70E-01	2,14E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3,79E+00	2,73E+00	2,46E-03	0*	1,06E+00	1,44E-03
Total Primary Energy	MJ	1,62E+04	7,44E+03	3,62E+01	1,86E+00	8,76E+03	1,23E+01



Optional indicators		Easergy T300 - EMS59000					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8,17E+03	2,79E+03	3,60E+01	1,54E+00	5,34E+03	1,03E+01
Contribution to air pollution	m³	8,01E+04	1,78E+04	1,05E+02	1,20E+01	6,21E+04	7,52E+01
Contribution to water pollution	m³	3,99E+04	2,81E+04	4,22E+02	1,29E+01	1,13E+04	1,28E+02
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,20E+00	1,20E+00	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,54E+02	2,48E+02	0*	0*	5,93E+00	0*
Total use of non-renewable primary energy resources	MJ	1,60E+04	7,19E+03	3,62E+01	1,86E+00	8,75E+03	1,23E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2,52E+02	2,46E+02	0*	0*	5,93E+00	0*
Use of renewable primary energy resources used as raw material	MJ	2,64E+00	2,64E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,59E+04	7,13E+03	3,62E+01	1,86E+00	8,75E+03	1,23E+01
Use of non renewable primary energy resources used as raw material	MJ	6,17E+01	6,17E+01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1,21E+03	1,14E+03	0*	2,28E+00	4,98E+01	1,04E+01
Non hazardous waste disposed	kg	2,03E+02	1,78E+02	2,97E-02	0*	2,48E+01	2,99E-02
Radioactive waste disposed	kg	1,45E+00	1,42E+00	4,22E-04	0*	3,50E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,01E+00	2,67E-01	0*	0*	0*	2,74E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	7,72E-01	2,72E-01	0*	0*	0*	5,00E-01
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

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

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.

PEP N°	ENVPEP1605007_V1	Drafting rules	PCR-ed3-EN-2015 04 02
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Internal	External X	The elements of the present PEP cannot be compared with elements from another program.	

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