Product Environmental Profile

TeSys D U-Line Transient Suppressor

TeSys D suppressor module

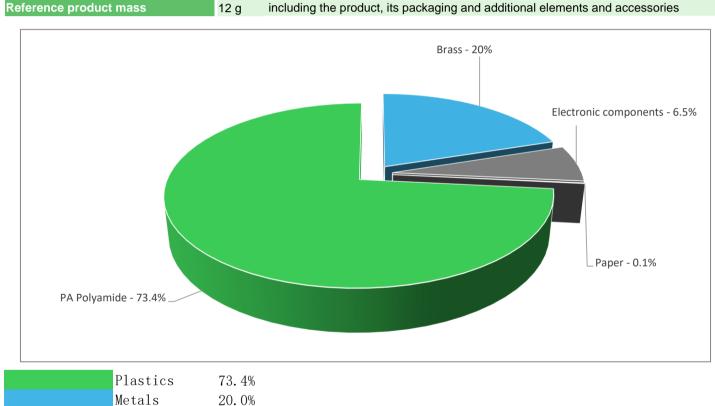




General information

Representative product	TeSys D U-Line Transient Suppressor - LAD4DDL				
Description of the product	TeSys D suppressor module, for contactors and control relays CAD.				
Description of the range	TeSys D suppressor module suppressor model install parallelling with coil terminal, and it can limit transient voltage when coil supply cut off. There are deisgned by RC, varisitor, flywheel and bidirectional dieode according to differnet coil category.				
-	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.				
Functional unit	It provides a flywheel diode protection ensuring no transient overvoltage. Clip-on side mounting, overall size of the contactor is unchanged.				

Constituent materials



0thers 6.6%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate – BBP, Dibutyl phthalate - DBP, Disobutyl phthalate - DIBP) as mentioned in the 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

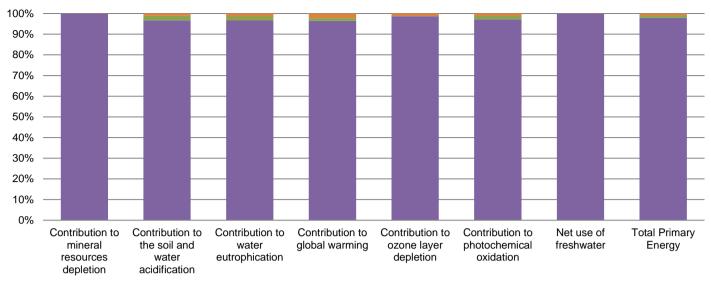
Additional environmental information

Th	e TeSys D U-Line Transient Suppressor presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	No packaging					
	Product distribution optimised by setting up local distribution centres					
Installation	Ref LAD4DDL 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					
	No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of- life treatment process.					
	Based on "ECO'DEEE recyclability and recoverability calculation method"Recyclability potential:17%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).					

\mathcal{O} Environmental impacts

Reference life time	20 years				
Product category	Other equipments - Passive product - non-continuous operation				
Installation elements	No special components needed				
Use scenario	load rate / rated current (In): 30 % of In percentage of utilization time: 30%				
Geographical representativeness	France				
Technological representativeness	TeSys D suppressor module, for contactors and control relays CAD.				
	Manufacturing	Installation	Use	End of life	
Energy model used	Energy model used: France	Electricity mix; AC; consumption mix, at consumer; 230V; FR	Electricity mix; AC; consumption mix, at consumer; 230V; FR	Electricity mix; AC; consumption mix, at consumer; 230V; FR	

End of Life
0*
3.84E-06
1.18E-06
2.53E-03
9.21E-11
3.90E-07
End of Life
0*
1.82E-02



Manufacturing Distribution Installation Use End of life

Optional indicators		TeSys D U-L	ine Transient Su.	ppressor - LA	D4DDL		
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.52E+00	1.48E+00	2.18E-02	0*	0*	1.46E-02
Contribution to air pollution	m³	2.12E+01	2.10E+01	6.59E-02	0*	0*	1.34E-01
Contribution to water pollution	m³	4.61E+01	4.57E+01	2.55E-01	0*	0*	1.73E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.84E-04	2.84E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.02E-02	3.01E-02	2.92E-05	0*	0*	2.00E-05
Total use of non-renewable primary energy resources	MJ	1.82E+00	1.78E+00	2.19E-02	0*	0*	1.82E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.00E-02	2.99E-02	2.92E-05	0*	0*	2.00E-05
Use of renewable primary energy resources used as raw material	MJ	1.70E-04	1.70E-04	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.59E+00	1.55E+00	2.19E-02	0*	0*	1.82E-02
Use of non renewable primary energy resources used as raw material	MJ	2.22E-01	2.22E-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	2.25E-01	2.03E-01	0*	0*	0*	2.25E-02
Non hazardous waste disposed	kg	3.63E-02	3.62E-02	5.50E-05	0*	0*	5.54E-05
Radioactive waste disposed	kg	2.48E-05	2.47E-05	3.92E-08	0*	0*	8.95E-08
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.21E-03	1.13E-03	0*	0*	0*	2.08E-03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.50E-04	0*	0*	0*	0*	4.50E-04
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 v5.9.4, database version 2022-11 in compliance with ISO14044.

The manufacturing 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, the environmental indicators (without RMD) of other products in this family may be proportional extrapolated by Product weight values

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 numb	er	ENVPEP111253EN_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue		11/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period		5 years	Information and reference documents	www.pep-ecopassport.org
Independent verifi	cation o	f the declaration and data		
Internal	Х	External		
The elements of th	ne prese	ent PEP cannot be compared with ele	ements from another program.	
Document in comp environmental labe			al labels and declarations - Self-declar	ed environmental claims (Type II

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