

Product Environmental Profile

Easy9 SPD 65R 3PN



Schneider
Electric



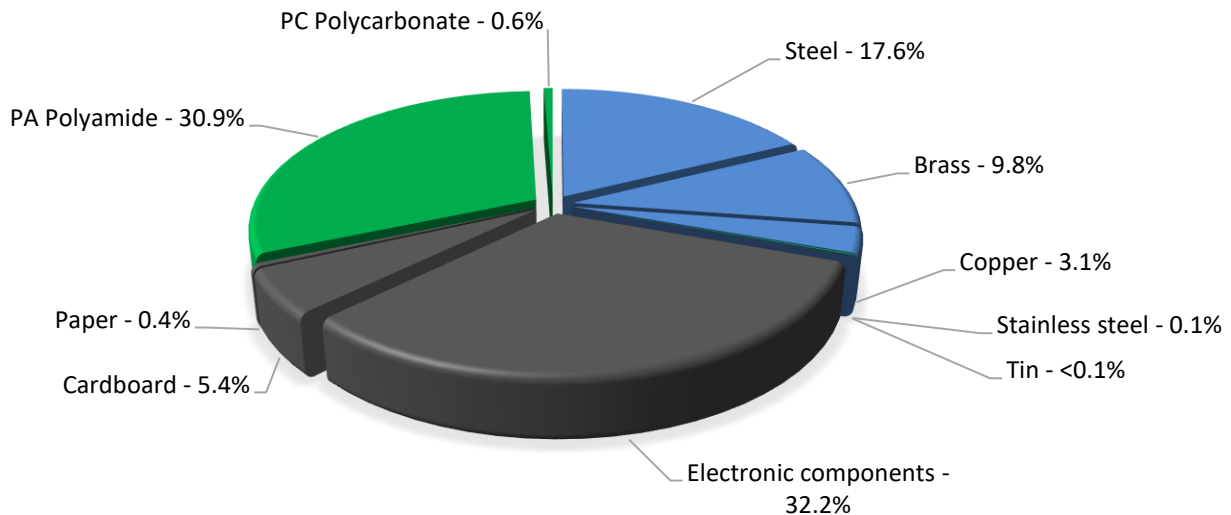
General information

Representative product	Easy9 SPD 65R 3PN - EA9L658FR400
Description of the product	<p>This product is a 72mm product with Multi9 form.</p> <ol style="list-style-type: none"> 1. Protect electrical equipment against the direct or indirect effects of lightning or against transient overvoltage. 2. When the MOV tripped linked with indicator PCBA, the SPD indicator should show red.
Functional unit	<p>Protect during 20 years against direct or indirect effects of lightning or against transient overvoltages electrical equipments connected to electrical networks with a rated operational voltage up to 1000 V AC or 1500 V DC.</p> <p>-Number of poles:3P+N -In = 35kA -Imax: 65kA -Up = L/N: 2kV N/PE:1.5kV L/PE:2.1kV</p>



Constituent materials

Reference product mass	456 g	including the product, its packaging and additional elements and accessories
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Plastics	31.5%
Metals	30.5%
Others	38.0%



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, Diisobutyl 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

The Easy9 SPD 65R 3PN 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 25.7 g, consisting of cardboard (93.4%), paper (6.6%) Product distribution optimised by setting up local distribution centres
Installation	Ref EA9L658FR400 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 card (28.59g) 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: 35% 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).

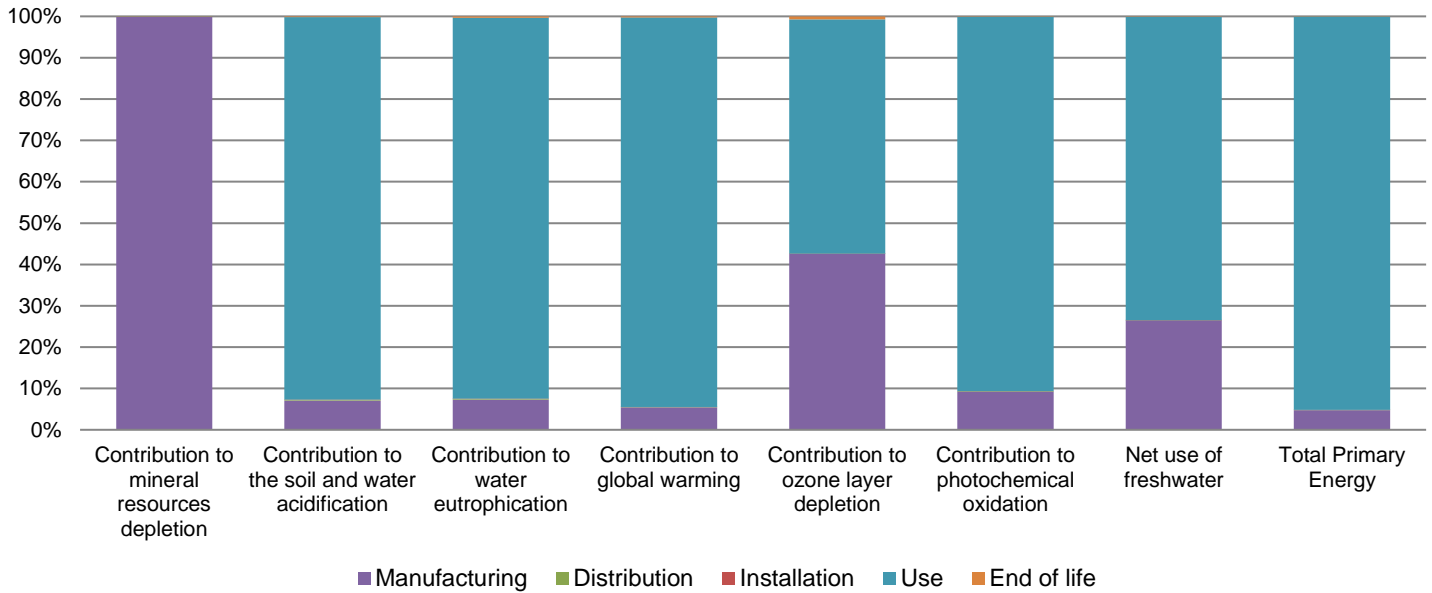


Environmental impacts

Reference life time	20 years			
Product category	Surge arresters and Surge protective devices type 1, 2 or 3 connected to low voltage power systems			
Installation elements	The disposal of the packaging material is accounted for 5.6% during the installation phase.			
Use scenario	Load factor : 100% of Ic Use rate: 100 % of the RLT			
Geographical representativeness	China			
Technological representativeness	This product is a 72mm product with Multi9 form. 1. Protect electrical equipment against the direct or indirect effects of lightning or against transient overvoltage. 2. When the MOV tripped linked with indicator PCBA, the SPD indicator should show red.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN	Electricity mix; AC; consumption mix, at consumer; 220V; CN

Compulsory indicators		Easy9 SPD 65R 3PN - EA9L658FR400					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7.02E-04	7.02E-04	0*	0*	3.91E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.04E-01	7.36E-03	2.69E-04	0*	9.66E-02	1.88E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.77E-02	2.02E-03	6.19E-05	0*	2.55E-02	8.64E-05
Contribution to global warming	kg CO ₂ eq	9.45E+01	5.13E+00	5.88E-02	0*	8.91E+01	2.60E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.25E-06	5.33E-07	0*	0*	7.09E-07	9.18E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.26E-02	1.16E-03	1.92E-05	0*	1.14E-02	1.63E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.36E-01	3.59E-02	0*	0*	9.94E-02	1.38E-04
Total Primary Energy	MJ	1.53E+03	7.30E+01	8.32E-01	0*	1.46E+03	8.22E-01

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Optional indicators		Easy9 SPD 65R 3PN - EA9L658FR400					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.39E+03	4.67E+01	8.27E-01	0*	1.35E+03	6.71E-01
Contribution to air pollution	m³	1.02E+04	9.56E+02	2.50E+00	0*	9.24E+03	5.95E+00
Contribution to water pollution	m³	5.38E+03	9.23E+02	9.68E+00	0*	4.43E+03	1.18E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	8.97E-03	8.97E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	7.61E+01	1.36E+00	0*	0*	7.48E+01	0*
Total use of non-renewable primary energy resources	MJ	1.46E+03	7.16E+01	8.31E-01	0*	1.38E+03	8.21E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.58E+01	9.81E-01	0*	0*	7.48E+01	0*
Use of renewable primary energy resources used as raw material	MJ	3.81E-01	3.81E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.45E+03	6.77E+01	8.31E-01	0*	1.38E+03	8.21E-01
Use of non renewable primary energy resources used as raw material	MJ	3.96E+00	3.96E+00	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	1.80E+01	1.43E+01	0*	0*	2.87E+00	8.35E-01
Non hazardous waste disposed	kg	1.80E+01	1.83E+00	2.09E-03	0*	1.62E+01	2.26E-03
Radioactive waste disposed	kg	1.53E-03	9.93E-04	1.49E-06	0*	5.32E-04	5.17E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.00E-01	2.97E-02	0*	2.56E-02	0*	1.45E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.81E-02	0*	0*	0*	0*	6.81E-02
Exported Energy	MJ	8.13E-05	7.64E-06	0*	7.36E-05	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

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

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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	ENVPEP2009010 V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/2020	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pép-ecopassport.org
Independent verification of the declaration and data			
Internal	X	External	
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »			

Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

www.schneider-electric.com

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