Product Environmental Profile

iST 65r 3P+N

Acti9 SPD

Schneider Electric IST 3P+N	
Green: Ok Red: Replace	
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General information

Representative product	iST 65r 3P+N - A9L916605					
Description of the product	Protect electrical equipment against the direct or indirect effects of lighting or against transient overvoltage					
Description of the range	This range consists of SPD of 20k A to 65k A, 1 P to 4P, The representative product used for the analysis isActi9 IST 65R 3P+N (commercial reference:A9L916005). The mass range of the product is from158 g and 524.1 g including packaging. 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	Protect during 20 years against direct or indirect effects of lightning or against transient overvoltages electrical equipements connected to electrical networks with a rated operational voltage up to 1000 V AC or 1500 V DC -Number of poles:3P+N -Uc = 350V AC(L-N)/260V AC(N-PE) -In = 35kA -Up = L/N: 2.0kV N/PE: 1.5kV L/PE:2.1kV -Ipe <1mA Followed standard: GB/T 18802.11					





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 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 iST 65r 3P+N presents the following relevent 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 54.1 g, consisting of cardboard(99.9%),plastic(0.1%)						
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(7.3g) 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: 25% 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).						

Q 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 product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).							
Use scenario	Load factor : 100% of Ic Use rate: 100 % of the RLT							
Geographical representativeness	China							
Technological representativeness	Protect electrical equipment against the direct or indirect effects of lighting or against transient overvoltage							
	Manufacturing	Installation	Use	End of life				
Energy model used	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				

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Compulsory indicators	S IST 657 3P+N - A9L916605						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.12E-03	2.12E-03	0*	0*	5.48E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	1.36E+00	7.74E-03	2.95E-04	0*	1.35E+00	2.15E-04
Contribution to water eutrophication	kg PO₄ ³⁻ eq	3.59E-01	2.32E-03	6.79E-05	0*	3.57E-01	1.06E-04
Contribution to global warming	$kg CO_2 eq$	1.25E+03	5.40E+00	0*	0*	1.25E+03	3.32E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.06E-05	6.94E-07	0*	0*	9.93E-06	1.15E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	1.61E-01	9.54E-04	2.10E-05	0*	1.60E-01	1.78E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2.00E+00	6.03E-01	0*	0*	1.39E+00	0*
Total Primary Energy	MJ	2.05E+04	8.01E+01	0*	0*	2.04E+04	0*



Manufacturing Distribution Installation Use End of life

Optional indicators		iST 65r 3P+N	I - A9L916605				
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.89E+04	6.16E+01	0*	0*	1.89E+04	0*
Contribution to air pollution	m³	1.30E+05	8.34E+02	0*	0*	1.29E+05	0*
Contribution to water pollution	m³	6.30E+04	9.63E+02	1.06E+01	0*	6.20E+04	1.43E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.69E-02	5.69E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.05E+03	1.87E+00	0*	0*	1.05E+03	0*
Total use of non-renewable primary energy resources	MJ	1.94E+04	7.83E+01	0*	0*	1.94E+04	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.05E+03	1.71E+00	0*	0*	1.05E+03	0*
Use of renewable primary energy resources used as raw material	MJ	1.61E-01	1.61E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.94E+04	7.46E+01	0*	0*	1.94E+04	0*
Use of non renewable primary energy resources used as raw material	MJ	3.65E+00	3.65E+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	5.72E+01	1.60E+01	0*	0*	4.02E+01	9.50E-01
Non hazardous waste disposed	kg	2.28E+02	2.13E+00	0*	0*	2.26E+02	0*
Radioactive waste disposed	kg	8.45E-03	9.87E-04	1.63E-06	0*	7.45E-03	6.06E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.30E-01	6.84E-02	0*	5.38E-02	0*	1.07E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.98E-02	0*	0*	0*	0*	8.98E-02
Exported Energy	MJ	1.71E-04	1.60E-05	0*	1.55E-04	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2022-01 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).

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

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For our products, the first proposition for significant parameter is energy consumption values. Depending on the impact analysis, the environmental indicators (without RMD) of other products in this family may be proportional extrapolated by energy consumption values. For RMD, impact may be proportional extrapolated by mass of the product.

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 numbe	er	ENVPEP1308014_V3-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue		08/2022	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period		5 years	ars Information and reference documents	
Independent verific	cation of	the declaration and data		
Internal	X External			
The elements of th	e presen	t PEP cannot be compared with eler	nents from another program.	
Document in comp environmental labe	liance wi elling) »	th ISO 14021:2016 « Environmental	labels and declarations - Self-declared	environmental claims (Type II

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