Product Environmental Profile

Insulation Fault Locator







General information

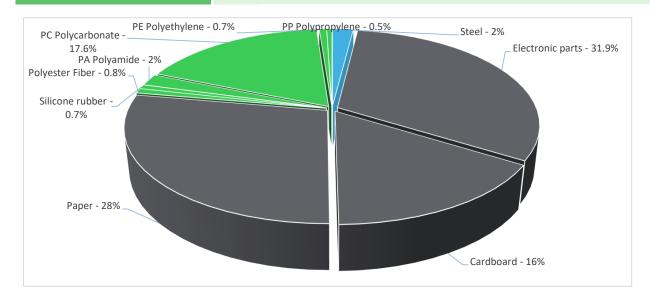
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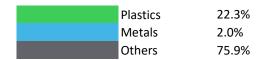
Representative product	Insulation Fault Locator - IMDIFL12
Description of the product	 IFL is an insulation fault locating device with 12 channel for ungrounded power systems with isolated neutral. It works with Insulation monitoring device which detects that there is fault in the system and IFL locates where the fault has occurred in the system This device provides the following features: Fast fault location (time < 5 s). Transient fault indication. Relay for fault indication. Individual LEDs for 12 channels. Configurable thresholds (low, medium, and high) for alarm. Configurable filtering times for highly disturbed ungrounded system. Dedicated commissioning mode for quick installation verification. Auto-detects and configures compatible toroids in commissioning mode.
Functional unit	To monitor and detect during 10 years insulation fault of a power systems with isolated neutral. Type of earthing system = IT system Ig = 3mA (IFL maximum fault current) Va = <=1000V

Constituent materials

Reference product mass

595 g including the product, its packaging and additional elements and accessories







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

W Additional environmental information

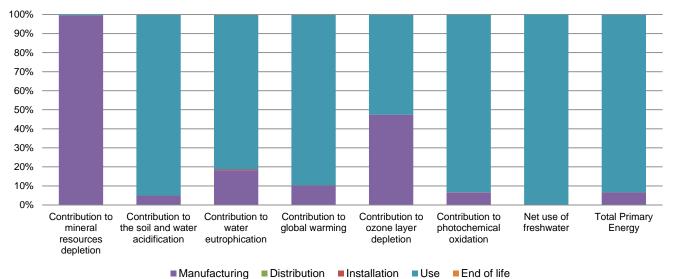
	The Insulation Fault Locator presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified					
	Weight and volume of the packaging optimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 271.3 g, consisting of Paper (63%),Cardboard (36%), PE Polyethylene (1%), Polyester fiber (0.037%)					
	Product distribution optimised by setting up local distribution centres					
Installation	The packaging is disposed of during the installation phase					
Use	The product does not require special maintenance operations.					
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials					
	This product contains Electronic card (194g) that should be separated from the stream of waste so as to optimize end- of-life treatment.					
End of life	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:8%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).					

${oldsymbol{ heta}}$ Environmental impacts

Reference life time	10 years
Product category	Other equipments - Active product
Installation elements	No special components needed
Use scenario	6W at 100% load 100% of the time
Geographical representativeness	Global: Europe

Technological representativeness	IFL is an insulation fault locating It works with Insulation monitori the fault has occurred in the sys This device provides the following features: • Fast fault location (time < 5 s). • Transient fault indication. • Relay for fault indication. • Individual LEDs for 12 channe • Configurable thresholds (low, • Configurable filtering times for • Dedicated commissioning mod • Auto-detects and configures c	ng device which detects that stem	there is fault in the system d system. cation.	
	Manufacturing	Installation	Use	End of life
Energy model used	Energy model used: India	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		Insulation Fa	ault Locator - IMD	IFL12			
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.27E-03	5.25E-03	0*	0*	2.24E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.13E+00	5.58E-02	3.51E-04	0*	1.07E+00	1.87E-04
Contribution to water eutrophication	kg PO4 ³⁻ eq	7.98E-02	1.44E-02	8.07E-05	3.60E-04	6.49E-02	9.92E-05
Contribution to global warming	kg CO ₂ eq	2.87E+02	2.91E+01	7.68E-02	3.09E-01	2.58E+02	3.21E-01
Contribution to ozone layer depletion	kg CFC11 eq	3.19E-05	1.51E-05	0*	0*	1.68E-05	1.10E-08
Contribution to photochemical oxidation	kg C_2H_4 eq	6.33E-02	4.17E-03	2.50E-05	4.62E-05	5.90E-02	1.49E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	9.34E+02	1.16E-01	0*	0*	9.34E+02	0*
Total Primary Energy	MJ	5.52E+03	3.71E+02	1.09E+00	0*	5.14E+03	7.79E-01



Optional indicators	Insulation Fault Locator - IMDIFL12						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.29E+03	3.67E+02	1.08E+00	0*	2.92E+03	7.33E-01
Contribution to air pollution	m³	1.30E+04	1.91E+03	3.27E+00	2.14E+00	1.11E+04	5.66E+00
Contribution to water pollution	m³	1.51E+04	4.45E+03	1.26E+01	5.18E+00	1.06E+04	1.32E+01

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Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.33E-02	1.33E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	6.61E+02	6.77E+00	0*	0*	6.54E+02	0*
Total use of non-renewable primary energy resources	MJ	4.85E+03	3.64E+02	1.08E+00	0*	4.49E+03	7.79E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6.56E+02	1.78E+00	0*	0*	6.54E+02	0*
Use of renewable primary energy resources used as raw material	MJ	4.99E+00	4.99E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.85E+03	3.58E+02	1.08E+00	0*	4.49E+03	7.79E-01
Use of non renewable primary energy resources used as raw material	MJ	6.51E+00	6.51E+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	1.09E+01	9.91E+00	0*	0*	1.34E-01	8.21E-01
Non hazardous waste disposed	kg	9.65E+02	4.89E+00	0*	1.33E-01	9.60E+02	0*
Radioactive waste disposed	kg	6.47E-01	5.37E-03	0*	0*	6.41E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.79E-02	4.10E-02	0*	0*	0*	4.69E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	9.01E-02	8.69E-04	0*	0*	0*	8.92E-02
Exported Energy	MJ	9.75E-02	0*	0*	9.75E-02	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.7.0.2, 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).

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 :	SCHN-00287-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH25		
Date of issue	02/2018	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of	the declaration and data, in compliance v	vith ISO 14025 : 2010	
Internal	External X		
The PCR review was condu	ucted by a panel of experts chaired by Ph	nilippe Osset (SOLINNEN)	
PEP are compliant with XP	C08-100-1 :2014		
The elements of the preser	t PEP cannot be compared with element	s from another program.	
Document in compliance w declarations »	ith ISO 14025 : 2010 « Environmental lab	pels and declarations. Type III env	vironmental

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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