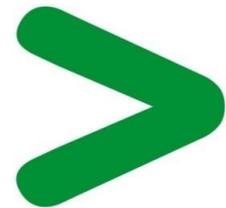


Product Environmental Profile

Insulation fault locator

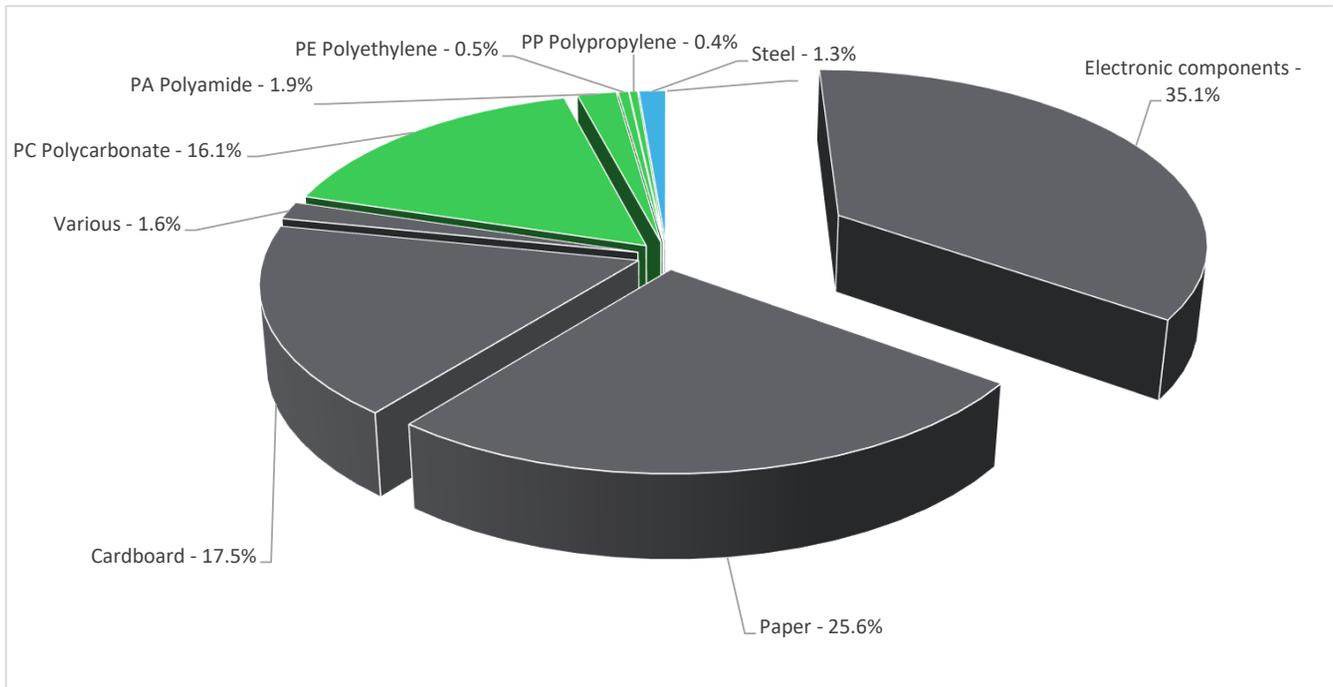


 General information

Representative product	Insulation fault locator - IMDIFL12LMC
Description of the product	<p>IFL is an insulation fault locating device with 12 channel for ungrounded power systems with isolated neutral.</p> <p>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</p> <p>This device provides the following features:</p> <ul style="list-style-type: none"> • Fast fault location (time < 5 s). • Transient fault indication. • Relay for fault indication. • Individual identification on LCDs for 12 channels. • Configurable thresholds for alarm by manually • 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	<p>To monitor and detect during 10 years insulation fault of a power systems with isolated neutral.</p> <p>Type of earthing system = IT system</p> <p>Ig = 3mA (IFL maximum fault current)</p> <p>Va = <=1000V</p>

🔍 Constituent materials

Reference product mass	625.786 g including the product, its packaging and additional elements and accessories
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	Plastics	18.9%
	Metals	1.3%
	Others	79.8%

📋 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

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

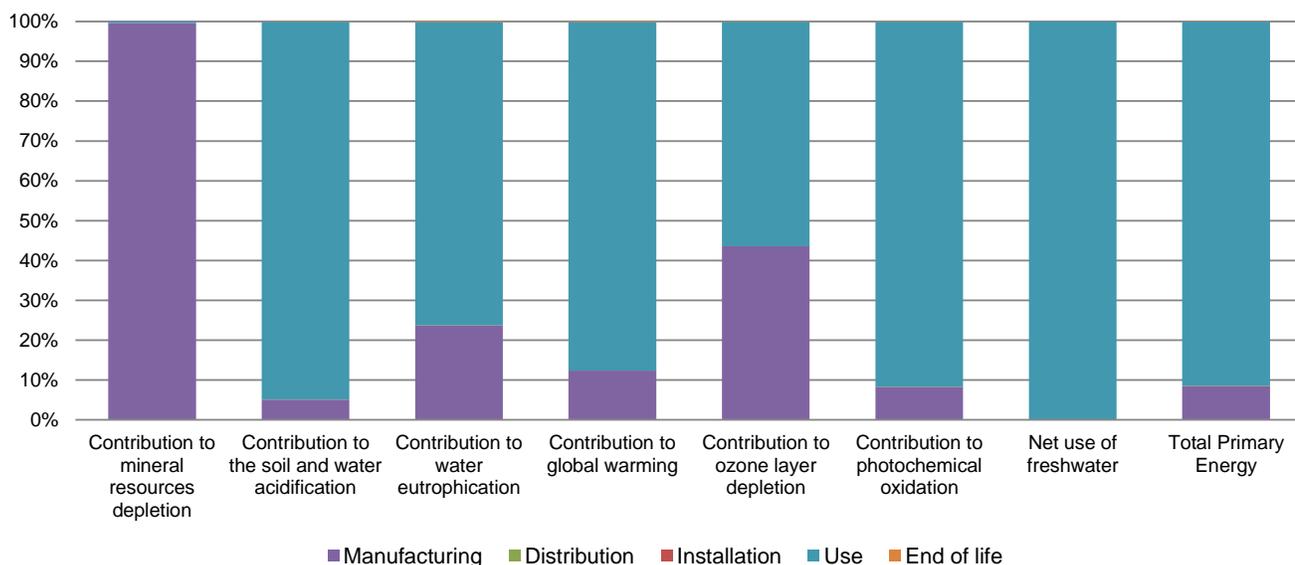
The Insulation fault locator presents the following relevant environmental aspects

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 272.9 g, consisting of Cardboard(63%), Electronic parts (16%), Paper (12%), PC Polycarbonate (7%), Polyester fiber(0.43%), Silicone rubber (0.29%), PA polyamide(0.3%), PE Polyethylene (0.2%), PP Polypropylene (0.2%), Steel(0.2%) 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	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains Electronic Components (220.04 g) 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: 13% 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	Other equipments - Active product			
Installation elements	No special components needed			
Use scenario	8W at 100% load 100% of the time			
Geographical representativeness	Global: Europe			
Technological representativeness	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: <ul style="list-style-type: none"> • Fast fault location (time < 5 s). • Transient fault indication. • Relay for fault indication. • Individual identification on LCDs for 12 channels. • Configurable thresholds for alarm by manually • Configurable filtering times for highly disturbed ungrounded system. • Dedicated commissioning mode for quick installation verification. • Auto-detects and configures compatible toroids in commissioning mode. 			
Energy model used	Manufacturing	Installation	Use	End of life
	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 fault locator - IMDIFL12LMC					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	9.20E-03	9.17E-03	0*	0*	2.98E-05	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.51E+00	7.68E-02	3.69E-04	0*	1.43E+00	1.97E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.14E-01	2.68E-02	8.49E-05	1.60E-05	8.65E-02	1.04E-04
Contribution to global warming	kg CO ₂ eq	3.92E+02	4.84E+01	8.07E-02	0*	3.43E+02	3.38E-01
Contribution to ozone layer depletion	kg CFC11 eq	3.97E-05	1.73E-05	0*	0*	2.24E-05	1.16E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	8.58E-02	7.07E-03	2.63E-05	0*	7.87E-02	1.57E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	1.25E+03	4.28E-01	0*	0*	1.24E+03	0*
Total Primary Energy	MJ	7.50E+03	6.41E+02	1.14E+00	0*	6.86E+03	8.22E-01



Optional indicators		Insulation fault locator - IMDIFL12LMC					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.47E+03	5.71E+02	1.13E+00	0*	3.90E+03	6.76E-01
Contribution to air pollution	m ³	1.85E+04	3.69E+03	3.43E+00	0*	1.48E+04	5.96E+00
Contribution to water pollution	m ³	1.97E+04	5.54E+03	1.33E+01	2.25E+00	1.42E+04	1.39E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.84E-02	1.84E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.83E+02	1.07E+01	0*	0*	8.72E+02	0*
Total use of non-renewable primary energy resources	MJ	6.62E+03	6.30E+02	1.14E+00	0*	5.99E+03	8.21E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.78E+02	5.77E+00	0*	0*	8.72E+02	0*
Use of renewable primary energy resources used as raw material	MJ	4.89E+00	4.89E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.61E+03	6.24E+02	1.14E+00	0*	5.99E+03	8.21E-01
Use of non renewable primary energy resources used as raw material	MJ	6.07E+00	6.07E+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	3.30E+01	3.20E+01	0*	0*	1.79E-01	8.66E-01

Non hazardous waste disposed	kg	1.29E+03	8.21E+00	0*	0*	1.28E+03	0*
Radioactive waste disposed	kg	8.61E-01	6.12E-03	0*	0*	8.55E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.57E-01	4.03E-02	0*	2.69E-01	0*	4.73E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	9.39E-02	0*	0*	0*	0*	9.39E-02
Exported Energy	MJ	8.53E-04	8.01E-05	0*	7.72E-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 v5.8.1, 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).

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-00467-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH33	Information and reference documents	www.pep-ecopassport.org
Date of issue	07/2019	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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