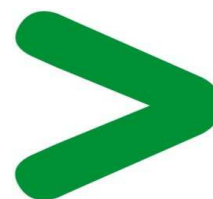


# Product Environmental Profile

## ACTI9 iTL IMPULSE RELAY





## General information

### Representative product

ACTI9 iTL IMPULSE RELAY -A9C30812

### Description of the product

The product is using for the command by push button of lighting circuit :  
 - Incandescent, halogen, low voltage ....lamps (resistive loads)  
 - Fluorescents lamp... (Inductive loads).

### Functional unit

Switch on and off during 20 years electrical power supply of a downstream installation with an electrical and/or mechanical control.

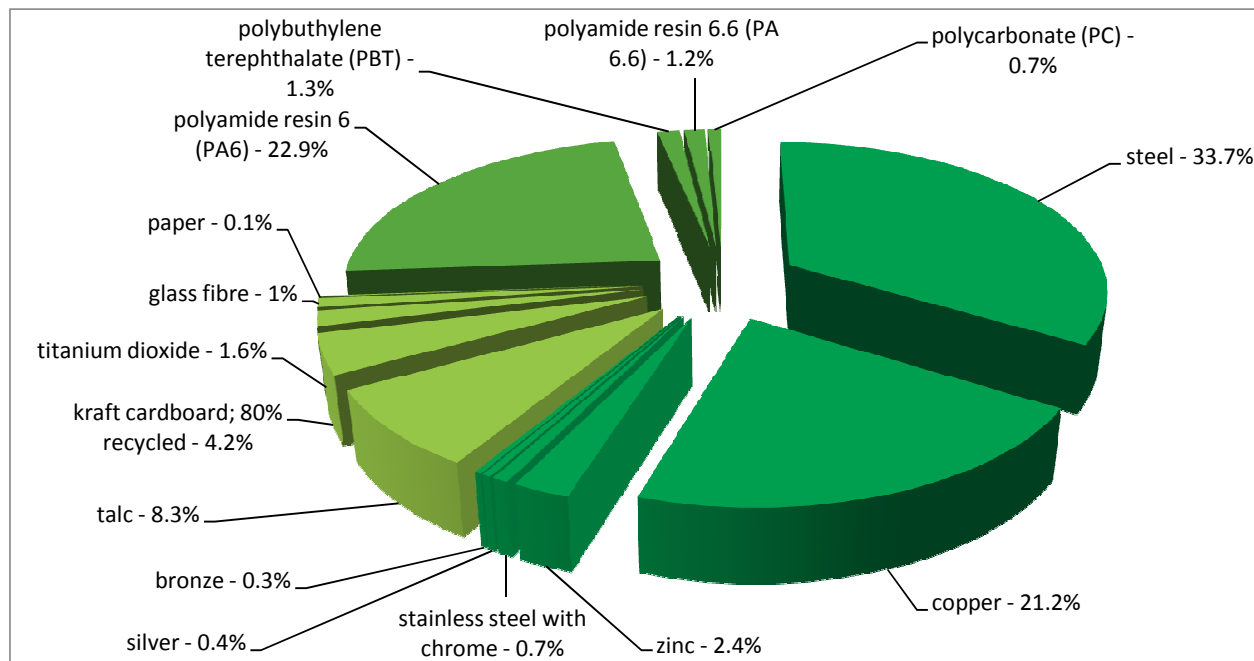
The functional unit is characterized by a type 2 NO, a control circuit voltage  $U_c=230$  VAC, a power circuit voltage  $U_p=250$ V and a maximum allowed intensity by the power circuit  $I_p=16$ A



## Constituent materials

### Reference product mass

123 g including the product and its packaging



## 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

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>



## Additional environmental information

The ACTI9 iTL IMPULSE RELAY presents the following relevant environmental aspects

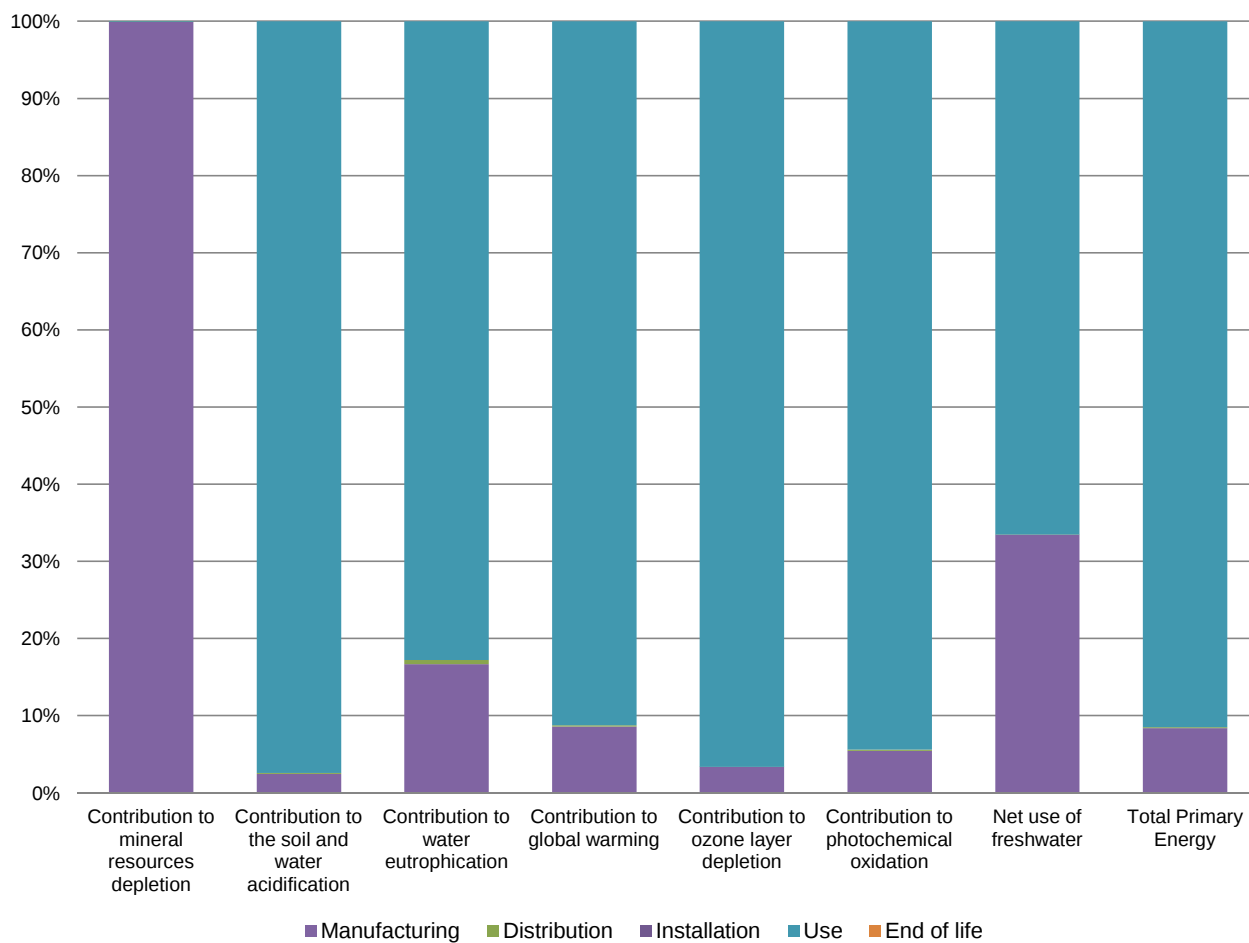
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Packaging weight is 5 g, consisting of cardboard (100%)<br>Product distribution optimised by setting up local distribution centres                                                                                                                                                                                                                                                   |
| Installation  | Ref A9C30812 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<br>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.<br>Recyclability potential: <b>54%</b> 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                 | Passive products - non-continuous operation                                                                                                                                                |                                                                 |                                                                 |                                                                 |
| Installation elements            | No special components needed                                                                                                                                                               |                                                                 |                                                                 |                                                                 |
| Use scenario                     | Product dissipation is 0.17 W full load, loading rate is 50% and service uptime percentage is 50%<br>Load factor : 50% of Ip (16A)<br>Use rate: 50% of the RLT (20 years)                  |                                                                 |                                                                 |                                                                 |
| Geographical representativeness  | Europe                                                                                                                                                                                     |                                                                 |                                                                 |                                                                 |
| Technological representativeness | The product is using for the command by push button of lighting circuit :<br>- Incandescent, halogen, low voltage ....lamps (resistive loads)<br>- Fluorescents lamp... (Inductive loads). |                                                                 |                                                                 |                                                                 |
| Energy model used                | Manufacturing                                                                                                                                                                              | Installation                                                    | Use                                                             | End of life                                                     |
|                                  | Energy model used: Belgium                                                                                                                                                                 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| Compulsory indicators                            |                                     | ACTI9 iTL IMPULSE RELAY - A9C30812 |               |              |              |          |             |
|--------------------------------------------------|-------------------------------------|------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators                                | Unit                                | Total                              | Manufacturing | Distribution | Installation | Use      | End of Life |
| Contribution to mineral resources depletion      | kg Sb eq                            | 6.08E-04                           | 6.08E-04      | 0*           | 0*           | 4.01E-07 | 0*          |
| Contribution to the soil and water acidification | kg SO <sub>2</sub> eq               | 6.82E-02                           | 1.67E-03      | 7.25E-05     | 0*           | 6.65E-02 | 0*          |
| Contribution to water eutrophication             | kg PO <sub>4</sub> <sup>3-</sup> eq | 3.01E-03                           | 5.02E-04      | 1.67E-05     | 0*           | 2.49E-03 | 0*          |
| Contribution to global warming                   | kg CO <sub>2</sub> eq               | 9.64E+00                           | 8.29E-01      | 1.59E-02     | 0*           | 8.79E+00 | 0*          |
| Contribution to ozone layer depletion            | kg CFC11 eq                         | 2.21E-06                           | 7.38E-08      | 0*           | 0*           | 2.14E-06 | 0*          |
| Contribution to photochemical oxidation          | kg C <sub>2</sub> H <sub>4</sub> eq | 3.33E-03                           | 1.80E-04      | 5.17E-06     | 0*           | 3.14E-03 | 0*          |
| Resources use                                    | Unit                                | Total                              | Manufacturing | Distribution | Installation | Use      | End of Life |
| Net use of freshwater                            | m3                                  | 3.45E-02                           | 1.15E-02      | 0*           | 0*           | 2.29E-02 | 0*          |
| Total Primary Energy                             | MJ                                  | 1.95E+02                           | 1.63E+01      | 2.24E-01     | 0*           | 1.78E+02 | 0*          |



| Optional indicators                                                                             |      | ACTI9 iTL IMPULSE RELAY - A9C30812 |               |              |              |          |             |
|-------------------------------------------------------------------------------------------------|------|------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators                                                                               | Unit | Total                              | Manufacturing | Distribution | Installation | Use      | End of Life |
| Contribution to fossil resources depletion                                                      | MJ   | 1.01E+02                           | 1.04E+01      | 2.23E-01     | 0*           | 9.06E+01 | 0*          |
| Contribution to air pollution                                                                   | m³   | 6.42E+02                           | 2.64E+02      | 6.75E-01     | 0*           | 3.77E+02 | 0*          |
| Contribution to water pollution                                                                 | m³   | 4.09E+02                           | 3.72E+01      | 2.61E+00     | 0*           | 3.69E+02 | 0*          |
| Resources use                                                                                   | Unit | Total                              | Manufacturing | Distribution | Installation | Use      | End of Life |
| Use of secondary material                                                                       | kg   | 1.41E-02                           | 1.41E-02      | 0*           | 0*           | 0*       | 0*          |
| Total use of renewable primary energy resources                                                 | MJ   | 1.31E+01                           | 3.99E-01      | 0*           | 0*           | 1.27E+01 | 0*          |
| Total use of non-renewable primary energy resources                                             | MJ   | 1.82E+02                           | 1.59E+01      | 2.24E-01     | 0*           | 1.65E+02 | 0*          |
| Use of renewable primary energy excluding renewable primary energy used as raw material         | MJ   | 1.31E+01                           | 3.76E-01      | 0*           | 0*           | 1.27E+01 | 0*          |
| Use of renewable primary energy resources used as raw material                                  | MJ   | 2.23E-02                           | 2.23E-02      | 0*           | 0*           | 0*       | 0*          |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ   | 1.80E+02                           | 1.48E+01      | 2.24E-01     | 0*           | 1.65E+02 | 0*          |
| Use of non renewable primary energy resources used as raw material                              | MJ   | 1.06E+00                           | 1.06E+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   | 7.17E+00                           | 7.17E+00      | 0*           | 0*           | 0*       | 0*          |
| Non hazardous waste disposed                                                                    | kg   | 3.30E+01                           | 1.49E-01      | 0*           | 0*           | 3.29E+01 | 0*          |
| Radioactive waste disposed                                                                      | kg   | 2.69E-02                           | 8.40E-05      | 0*           | 0*           | 2.68E-02 | 0*          |
| Other environmental information                                                                 | Unit | Total                              | Manufacturing | Distribution | Installation | Use      | End of Life |
| Materials for recycling                                                                         | kg   | 0.00E+00                           | 0*            | 0*           | 0*           | 0*       | 0*          |
| Components for reuse                                                                            | kg   | 0.00E+00                           | 0*            | 0*           | 0*           | 0*       | 0*          |
| Materials for energy recovery                                                                   | kg   | 1.00E-04                           | 1.00E-04      | 0*           | 0*           | 0*       | 0*          |
| 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 v5.5, database version 2015-04.

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 N°                                                                                                             | ENVPEP110302EN_V1 | Drafting rules            | PCR-ed3-EN-2015 04 02                                                |
| Date of issue                                                                                                               | 07/2016           | Supplemented by           | PSR-0005-ed2-EN-2016 03 29                                           |
| Validity period                                                                                                             | 5 years           | Information and reference | <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2010                                   |                   |                           |                                                                      |
| Internal                                                                                                                    | X                 | External                  |                                                                      |
| 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 » |                   |                           |                                                                      |
| Environmental data in alignment with EN 15804 : 2012 + A1 : 2013                                                            |                   |                           |                                                                      |

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