

# Product Environmental Profile

## Vigi iC60 - Add-on residual current module





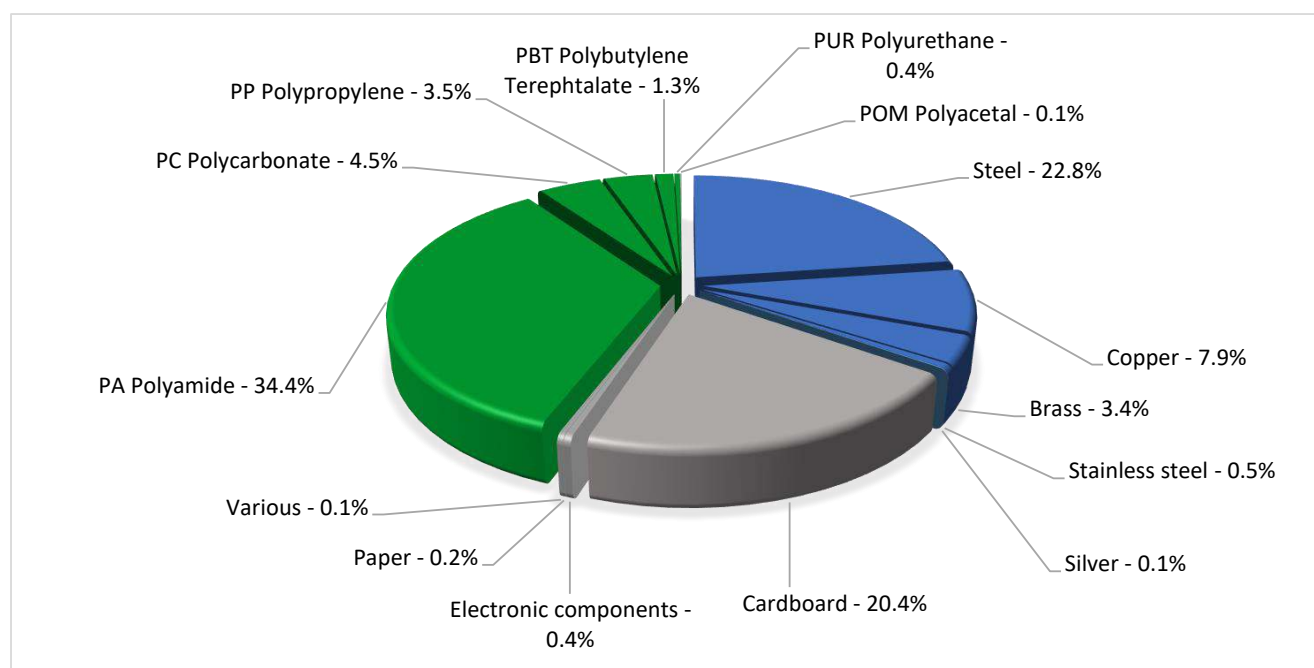
## General information

|                            |                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Representative product     | Vigi iC60 4P 25A 30mA AC - A9V11425                                                                                                                                                                                                                                                                     |
| Description of the product | The main function of the Vigi iC60 product range is to ensure protection of persons against electric shocks.                                                                                                                                                                                            |
| Functional unit            | Turn off all or part of an installation by separating the installation or part of the installation of all electrical energy or earth, for safety reasons with a rated voltage 415V and rated current 25A ensuring isolation characterized by rated voltage 4kV. This function is provided for 20 years. |



## Constituent materials

|                        |      |                                                                              |
|------------------------|------|------------------------------------------------------------------------------|
| Reference product mass | 224g | including the product, its packaging and additional elements and accessories |
|------------------------|------|------------------------------------------------------------------------------|



|          |       |
|----------|-------|
| Plastics | 44.2% |
| Metals   | 34.7% |
| Others   | 21.1% |



## 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 Vigi iC60 4P 25A 30mA AC presents the following relevant environmental aspects

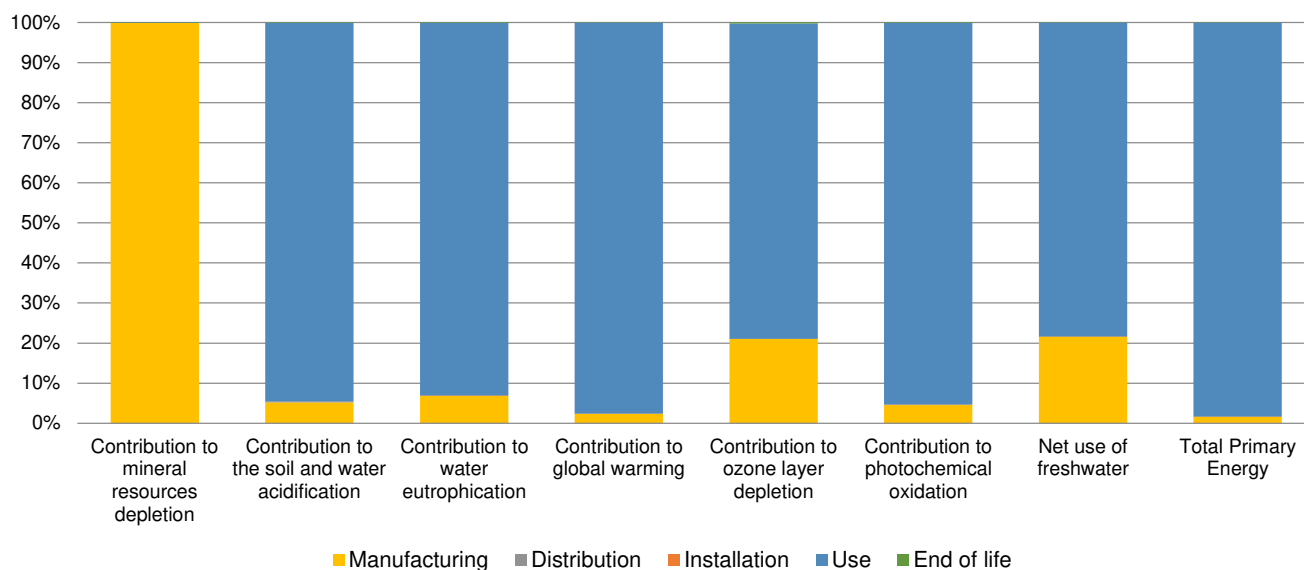
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturing</b> | Manufactured at a production site complying with the regulations                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Distribution</b>  | Weight and volume of the packaging optimized, based on the European Union's packaging directive<br>Packaging weight is 49.3 g, consisting of paper(1.14%),cardboard(96.83%),PU foam(2.03%)                                                                                                                                                                                                                                                                                                      |
| <b>Installation</b>  | Ref A9V11425 does not require any installation operations.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Use</b>           | The product does not require special maintenance operations.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>End of life</b>   | End of life optimized to decrease the amount of waste and allow recovery of the product components and materials<br><br>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.<br><br>Recyclability potential: <b>44%</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

|                                         |                                                                                                              |                                                             |                                                             |                                                             |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| <b>Reference life time</b>              | 20 years                                                                                                     |                                                             |                                                             |                                                             |
| <b>Product category</b>                 | Disconnectors - Low voltage                                                                                  |                                                             |                                                             |                                                             |
| <b>Installation elements</b>            | No special components needed                                                                                 |                                                             |                                                             |                                                             |
| <b>Use scenario</b>                     | Load rate: 50%<br>Use time rate (closed unit): 30% of RLT                                                    |                                                             |                                                             |                                                             |
| <b>Geographical representativeness</b>  | China                                                                                                        |                                                             |                                                             |                                                             |
| <b>Technological representativeness</b> | The main function of the Vigi iC60 product range is to ensure protection of persons against electric shocks. |                                                             |                                                             |                                                             |
| <b>Energy model used</b>                | <b>Manufacturing</b>                                                                                         | <b>Installation</b>                                         | <b>Use</b>                                                  | <b>End of life</b>                                          |
|                                         | Energy model used:                                                                                           | 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                            |                                     | Vigi iC60 4P 25A 30mA AC - A9V11425 |               |              |              |          |             |
|--------------------------------------------------|-------------------------------------|-------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators                                | Unit                                | Total                               | Manufacturing | Distribution | Installation | Use      | End of Life |
| Contribution to mineral resources depletion      | kg Sb eq                            | 2.90E-04                            | 2.90E-04      | 0*           | 0*           | 2.46E-07 | 0*          |
| Contribution to the soil and water acidification | kg SO <sub>2</sub> eq               | 6.44E-02                            | 3.37E-03      | 1.32E-04     | 1.11E-05     | 6.08E-02 | 5.64E-05    |
| Contribution to water eutrophication             | kg PO <sub>4</sub> <sup>3-</sup> eq | 1.73E-02                            | 1.18E-03      | 3.04E-05     | 2.70E-06     | 1.61E-02 | 1.62E-05    |
| Contribution to global warming                   | kg CO <sub>2</sub> eq               | 5.76E+01                            | 1.36E+00      | 2.89E-02     | 0*           | 5.61E+01 | 3.20E-02    |
| Contribution to ozone layer depletion            | kg CFC11 eq                         | 5.68E-07                            | 1.20E-07      | 5.85E-11     | 0*           | 4.47E-07 | 1.29E-09    |
| Contribution to photochemical oxidation          | kg C <sub>2</sub> H <sub>4</sub> eq | 7.55E-03                            | 3.45E-04      | 9.42E-06     | 8.29E-07     | 7.19E-03 | 5.84E-06    |
| Resources use                                    | Unit                                | Total                               | Manufacturing | Distribution | Installation | Use      | End of Life |
| Net use of freshwater                            | m3                                  | 8.00E-02                            | 1.73E-02      | 0*           | 0*           | 6.27E-02 | 2.63E-05    |
| Total Primary Energy                             | MJ                                  | 9.35E+02                            | 1.56E+01      | 4.09E-01     | 0*           | 9.19E+02 | 2.72E-01    |



| Optional indicators                                                                             |      | Vigi iC60 4P 25A 30mA AC - A9V11425 |               |              |              |          |             |
|-------------------------------------------------------------------------------------------------|------|-------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators                                                                               | Unit | Total                               | Manufacturing | Distribution | Installation | Use      | End of Life |
| Contribution to fossil resources depletion                                                      | MJ   | 8.59E+02                            | 9.92E+00      | 4.06E-01     | 0*           | 8.48E+02 | 2.19E-01    |
| Contribution to air pollution                                                                   | m³   | 6.14E+03                            | 3.11E+02      | 1.23E+00     | 0*           | 5.82E+03 | 1.98E+00    |
| Contribution to water pollution                                                                 | m³   | 3.25E+03                            | 4.47E+02      | 4.75E+00     | 4.04E-01     | 2.79E+03 | 2.44E+00    |
| Resources use                                                                                   | Unit | Total                               | Manufacturing | Distribution | Installation | Use      | End of Life |
| Use of secondary material                                                                       | kg   | 4.85E-02                            | 4.85E-02      | 0*           | 0*           | 0*       | 0*          |
| Total use of renewable primary energy resources                                                 | MJ   | 4.76E+01                            | 4.93E-01      | 0*           | 0*           | 4.71E+01 | 0*          |
| Total use of non-renewable primary energy resources                                             | MJ   | 8.87E+02                            | 1.51E+01      | 4.08E-01     | 0*           | 8.71E+02 | 2.72E-01    |
| Use of renewable primary energy excluding renewable primary energy used as raw material         | MJ   | 4.75E+01                            | 3.41E-01      | 0*           | 0*           | 4.71E+01 | 0*          |
| Use of renewable primary energy resources used as raw material                                  | MJ   | 1.52E-01                            | 1.52E-01      | 0*           | 0*           | 0*       | 0*          |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ   | 8.85E+02                            | 1.25E+01      | 4.08E-01     | 0*           | 8.71E+02 | 2.72E-01    |
| Use of non renewable primary energy resources used as raw material                              | MJ   | 2.67E+00                            | 2.67E+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   | 1.14E+01                            | 9.34E+00      | 0*           | 0*           | 1.81E+00 | 2.90E-01    |
| Non hazardous waste disposed                                                                    | kg   | 1.13E+01                            | 1.14E+00      | 0*           | 0*           | 1.02E+01 | 0*          |
| Radioactive waste disposed                                                                      | kg   | 8.38E-04                            | 5.01E-04      | 7.31E-07     | 0*           | 3.35E-04 | 1.32E-06    |
| Other environmental information                                                                 | Unit | Total                               | Manufacturing | Distribution | Installation | Use      | End of Life |
| Materials for recycling                                                                         | kg   | 1.53E-01                            | 2.32E-02      | 0*           | 4.80E-02     | 0*       | 8.14E-02    |
| Components for reuse                                                                            | kg   | 0.00E+00                            | 0*            | 0*           | 0*           | 0*       | 0*          |
| Materials for energy recovery                                                                   | kg   | 4.81E-03                            | 0*            | 0*           | 0*           | 0*       | 4.81E-03    |
| Exported Energy                                                                                 | MJ   | 1.53E-04                            | 1.43E-05      | 0*           | 1.38E-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-00488-V01.01-EN | Drafting rules                      | PCR-ed3-EN-2015 04 02                                                |
| Verifier accreditation N°                                                                                                   | VH33                 | Supplemented by                     | PSR-0005-ed2-EN-2016 03 29                                           |
| Date of issue                                                                                                               | 09/2019              | Information and reference documents | <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
|                                                                                                                             |                      | 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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