

# Product Environmental Profile

## ACTI9 ROTARY HANDLE





## General information

### Representative product

ACTI9 ROTARY HANDLE -A9A27005

### Description of the product

The product is a rotary handle. The main purpose of the product is to open/close a Miniature Circuit Breaker iC60 or Residual Current Circuit Breaker iLD60 from outside an enclosure thanks to an handle fixed on the outside surface of this enclosure. The control mechanism is mounted on the device and the rotary handle is fixed to the front or side of the enclosure

### Functional unit

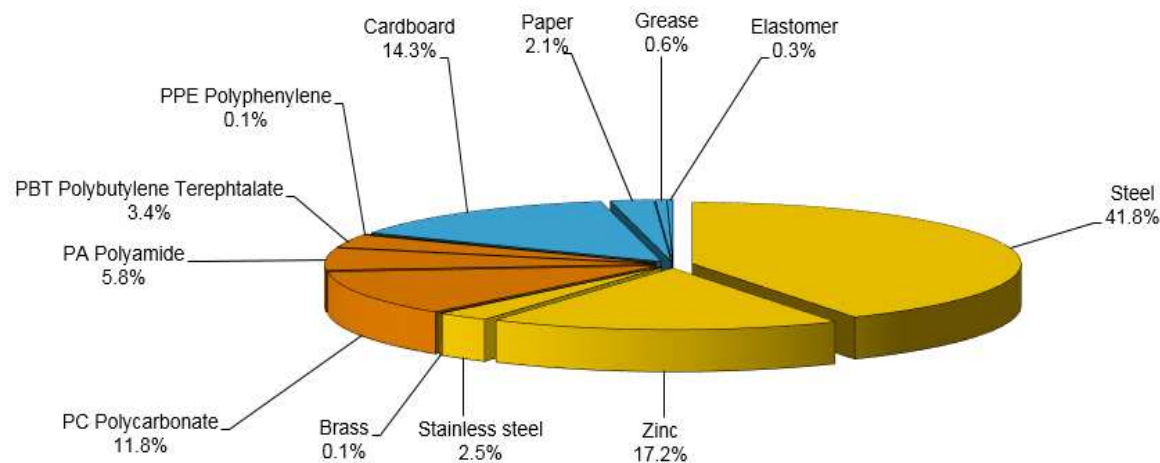
To provide front or side-mounted control for opening/closing MCB or RCCB inside a cabinet during 20 years. To prevent the door from opening when the device is in the ON position.  
--- Degree of protection: IP55 rotary handle



## Constituent materials

### Reference product mass

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



## 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 ROTARY HANDLE presents the following relevant environmental aspects

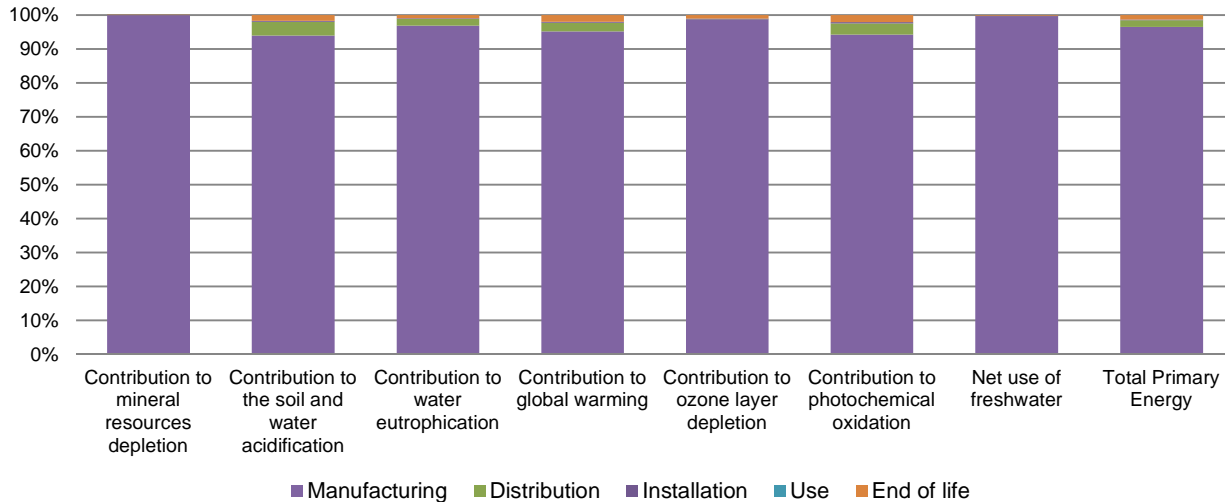
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 118 g, consisting of Paper (16.21 g), PE (2.09 g) and Cardboard (107.7 g).
<b>Installation</b>	ACTI9 ROTARY HANDLE A9A27005 does not require any installation operations
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains 1- Extended top cover grey or yellow 29.04g Brominated flame retardants 2- Cap for locking 0.037g Brominated flame retardants 3- Knob black or red 23.54g Brominated flame retardants 4- Padlock axle 3.43g Brominated flame retardants Refer to the EOLI ENVEOLI110202EN that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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 <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a></p> <p>Recyclability potential: <b>73%</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).</p>



## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Passive products - non-continuous operation			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Product dissipation is 0 W full load, loading rate is 30% and service uptime percentage is 30% Non applicable for unequipped enclosures and cabinets			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	The product is a rotary handle. The main purpose of the product is to open/close a Miniature Circuit Breaker iC60 or Residual Current Circuit Breaker iLD60 from outside an enclosure thanks to an handle fixed on the outside surface of this enclosure. The control mechanism is mounted on the device and the rotary handle is fixed to the front or side of the enclosure			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Hungary	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 ROTARY HANDLE - A9A27005					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.76E-04	2.76E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1.04E-02	9.74E-03	4.22E-04	3.38E-05	0*	1.75E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	4.83E-03	4.69E-03	9.72E-05	7.94E-06	0*	4.45E-05
Contribution to global warming	kg CO <sub>2</sub> eq	3.61E+00	3.44E+00	9.24E-02	1.10E-02	0*	7.20E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.69E-07	3.65E-07	1.87E-10	6.91E-10	0*	3.80E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	9.05E-04	8.53E-04	3.01E-05	3.67E-06	0*	1.86E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	4.03E-02	4.02E-02	8.27E-06	1.34E-05	0*	7.38E-05
Total Primary Energy	MJ	6.79E+01	6.56E+01	1.31E+00	1.71E-01	0*	8.69E-01



Optional indicators		ACTI9 ROTARY HANDLE - A9A27005					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4.57E+01	4.35E+01	1.30E+00	1.55E-01	0*	7.92E-01
Contribution to air pollution	m <sup>3</sup>	1.26E+03	1.25E+03	3.93E+00	1.20E+00	0*	6.20E+00
Contribution to water pollution	m <sup>3</sup>	5.46E+02	5.22E+02	1.52E+01	1.29E+00	0*	6.98E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.09E-02	9.09E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.56E+00	1.56E+00	1.74E-03	1.92E-04	0*	9.70E-04
Total use of non-renewable primary energy resources	MJ	6.64E+01	6.40E+01	1.30E+00	1.71E-01	0*	8.68E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	-5.43E-01	-5.46E-01	0*	0*	0*	0*
Use of renewable primary energy resources used as raw material	MJ	2.10E+00	2.10E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.23E+01	6.00E+01	1.30E+00	1.71E-01	0*	8.68E-01
Use of non renewable primary energy resources used as raw material	MJ	4.06E+00	4.06E+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	1.61E+01	1.52E+01	0*	1.20E-01	0*	7.58E-01
Non hazardous waste disposed	kg	3.85E+00	3.85E+00	3.28E-03	5.27E-04	0*	2.67E-03
Radioactive waste disposed	kg	5.50E-04	5.43E-04	2.34E-06	8.05E-07	0*	4.16E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.31E-01	7.74E-02	0*	1.17E-01	0*	4.37E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6.09E-03	7.44E-04	0*	0*	0*	5.35E-03
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 manufacturing 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°	ENVPEP110202EN_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	11/2016	Supplemented by	PSR-0005-ed2-2016 03 29
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			

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