

Product Environmental Profile

Motor Breaker GV4P Thermal-Magnetic 115A 50kA Everlink

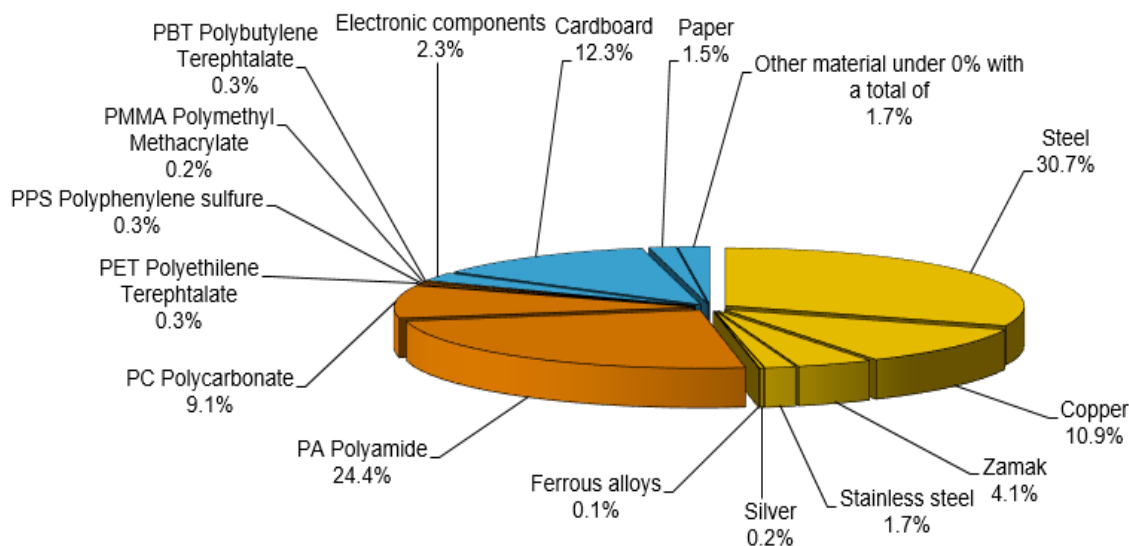


General information

Representative product	Motor Breaker GV4P Thermal-Magnetic 115A 50kA Everlink -GV4P115N
Description of the product	The Motor Breaker GV4P 3 poles circuit breaker equipped with a thermal magnetic trip unit is designed to provide protection against overloads and short-circuits for electrical motors with assigned voltage up to 690VAC and rated current of 115A.
Functional unit	Protect during 20 years the motor against overloads and short-circuits in circuit with assigned voltage up to 690VAC and 115A rated current. This protection is ensured in accordance with the following parameters: - Number of poles: 3 - Rated service breaking capacity Ics at 440VAC = 50kA (according to IEC 60947-2) - Tripping curve: long time, short time and instantaneous protections, dual class (10 and 20)

Constituent materials

Reference product mass	1860.5 g including the product, its packaging and additional elements and accessories
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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 Motor Breaker GV4P Thermal-Magnetic 115A 50kA Everlink presents the following relevant environmental aspects

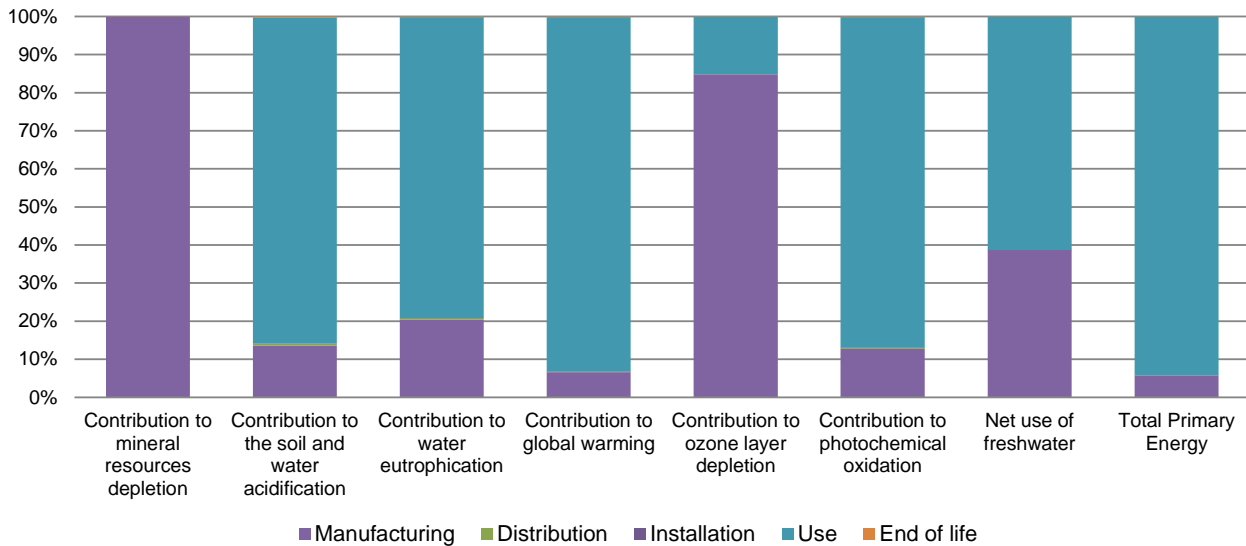
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 260.5 g, consisting of cardboard (233.1g), PE film (0.9g) and paper (26.5g) Product distribution optimised by setting up local distribution centres
Installation	Ref GV4P115N 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 This product contains electronic card (10g) and plastic parts with brominated FR (0.89g) 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: 48% 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 3.45 W full load, loading rate is 30% and service uptime percentage is 30%			
Geographical representativeness	China			
Technological representativeness	The Motor Breaker GV4P 3 poles circuit breaker equipped with a thermal magnetic trip unit is designed to provide protection against overloads and short-circuits for electrical motors with assigned voltage up to 690VAC and rated current of 115A.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Czech Republic	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		Motor Breaker GV4P Thermal-Magnetic 115A 50kA Everlink - GV4P115N					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7.16E-03	7.16E-03	0*	0*	8.10E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.33E-01	3.17E-02	1.10E-03	7.83E-05	2.00E-01	5.01E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.69E-02	1.37E-02	2.53E-04	1.85E-05	5.28E-02	1.42E-04
Contribution to global warming	kg CO ₂ eq	1.98E+02	1.31E+01	2.40E-01	2.51E-02	1.84E+02	2.73E-01
Contribution to ozone layer depletion	kg CFC11 eq	9.73E-06	8.25E-06	0*	2.05E-09	1.47E-06	1.17E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2.72E-02	3.46E-03	7.83E-05	8.21E-06	2.36E-02	5.19E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	3.36E-01	1.30E-01	0*	0*	2.06E-01	2.31E-04
Total Primary Energy	MJ	3.21E+03	1.81E+02	3.40E+00	3.86E-01	3.02E+03	2.43E+00



Optional indicators		Motor Breaker GV4P Thermal-Magnetic 115A 50kA Everlink - GV4P115N					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3.03E+03	1.41E+02	3.37E+00	3.53E-01	2.88E+03	2.22E+00
Contribution to air pollution	m³	2.23E+04	3.14E+03	1.02E+01	2.76E+00	1.91E+04	1.75E+01
Contribution to water pollution	m³	1.15E+04	2.26E+03	3.95E+01	2.95E+00	9.17E+03	2.14E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.65E-02	3.65E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.64E+02	9.31E+00	0*	0*	1.55E+02	0*
Total use of non-renewable primary energy resources	MJ	3.04E+03	1.72E+02	3.39E+00	3.86E-01	2.86E+03	2.42E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.59E+02	4.15E+00	0*	0*	1.55E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5.16E+00	5.16E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.02E+03	1.53E+02	3.39E+00	3.86E-01	2.86E+03	2.42E+00
Use of non renewable primary energy resources used as raw material	MJ	1.85E+01	1.85E+01	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	1.20E+02	1.11E+02	0*	5.22E-01	5.95E+00	2.51E+00
Non hazardous waste disposed	kg	3.98E+01	6.28E+00	8.53E-03	0*	3.35E+01	7.41E-03
Radioactive waste disposed	kg	7.76E-03	6.64E-03	6.08E-06	1.93E-06	1.10E-03	1.18E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	9.03E-01	1.14E-01	0*	0*	0*	7.88E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4.39E-02	5.02E-03	0*	4.26E-05	0*	3.88E-02
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 2016-11.

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.

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<i>Validity period</i>	5 years	<i>Information and reference documents</i>	www.pep-ecopassport.org
<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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