Product Environmental Profile

TeSys GV3ME80 motor circuit breaker







General information

Representative product

TeSys GV3ME80 motor circuit breaker - GV3ME80

Description of the product

The main purpose of the TeSys GV3ME80 motor circuit breaker is to protect three-phase motors and cables against short-circuits and overloads.

Functional unit

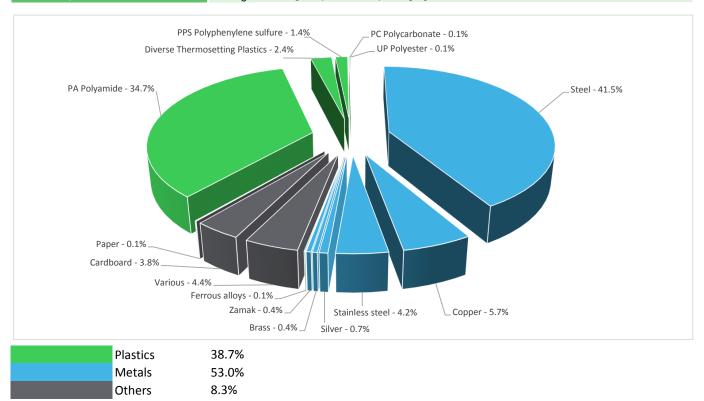
Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage up to 690V AC and rated current 80A. This protection is ensured in accordance with the following parameters:

- Number of poles 3
- Rated breaking capacity Ics at 415VAC = 15kA (according to IEC 947-2)

Constituent materials

Reference product mass

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



EI:

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

(19) Additional environmental information

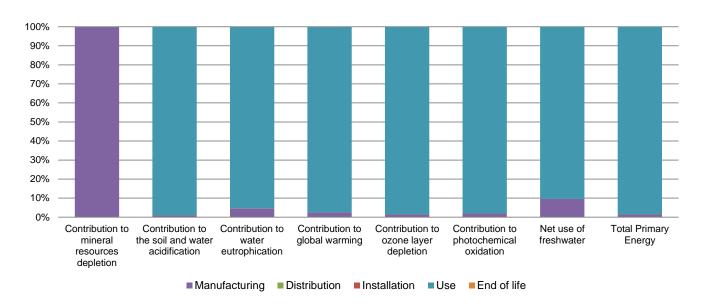
The TeSys GV3ME80 motor circuit breaker presents the following relevent environmental aspects					
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified				
Distribution	Weight and volume of the packaging opt	optimized, based on the European Union's packaging directive			
Distribution	Packaging weight is 29.4 g, consisting of cardboard(98.6%), Paper(1.4%)				
Installation	Ref GV3ME80 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 amo	ount of waste and allow recovery of the product components and materials			
	No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.				
	Recyclability potential: 51%	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	Circuit-breakers					
Installation elements	No special components needed					
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT					
Geographical representativeness	Europe					
Technological representativeness	The main purpose of the TeSys GV3ME80 motor circuit breaker is to protect three-phase motors and cables against short-circuits and overloads.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: France	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	TeSys GV3ME80 motor circuit breaker - GV3ME80						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.63E-03	5.63E-03	0*	0*	8.48E-06	0*
Contribution to the soil and water acidification	$kg SO_2 eq$	1.42E+00	1.38E-02	4.39E-04	0*	1.41E+00	2.20E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5.55E-02	2.52E-03	1.01E-04	0*	5.28E-02	6.17E-05
Contribution to global warming	$kg CO_2 eq$	1.91E+02	4.70E+00	9.62E-02	0*	1.86E+02	1.18E-01
Contribution to ozone layer depletion	kg CFC11 eq	4.59E-05	6.91E-07	0*	0*	4.52E-05	4.96E-09
Contribution to photochemical oxidation	$kg C_2H_4 eq$	6.79E-02	1.34E-03	3.13E-05	0*	6.66E-02	2.29E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	5.38E-01	5.18E-02	0*	0*	4.86E-01	1.01E-04
Total Primary Energy	MJ	3.83E+03	5.59E+01	1.36E+00	0*	3.77E+03	1.07E+00

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Optional indicators		TeSys GV3N	IE80 motor circui	t breaker - GV:	3ME80		
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.96E+03	4.24E+01	1.35E+00	0*	1.92E+03	9.75E-01
Contribution to air pollution	m³	9.13E+03	1.13E+03	4.09E+00	0*	7.99E+03	7.73E+00
Contribution to water pollution	m³	9.01E+03	1.17E+03	1.58E+01	0*	7.81E+03	9.35E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7.57E-03	7.57E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.72E+02	2.36E+00	0*	0*	2.70E+02	0*
Total use of non-renewable primary energy resources	MJ	3.56E+03	5.36E+01	1.36E+00	0*	3.50E+03	1.07E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.72E+02	1.77E+00	0*	0*	2.70E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5.84E-01	5.84E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.55E+03	4.45E+01	1.36E+00	0*	3.50E+03	1.07E+00
Use of non renewable primary energy resources used as raw material	MJ	9.04E+00	9.04E+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	5.38E+01	5.27E+01	0*	0*	0*	1.09E+00
Non hazardous waste disposed	kg	6.99E+02	2.65E+00	0*	0*	6.96E+02	0*
Radioactive waste disposed	kg	5.69E-01	1.65E-03	0*	0*	5.68E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	4.77E-01	7.47E-02	0*	2.93E-02	0*	3.73E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.63E-02	0*	0*	0*	0*	1.63E-02
Exported Energy	MJ	9.31E-05	8.75E-06	0*	8.43E-05	0*	0*

^{*} represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.6.0.1, 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	ENVPEP111102EN_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	12/2017	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

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