Product Environmental Profile

Compact NSX250F 3P3T Circuit Breaker with TM250D Trip Unit and Motor Mechanism MT250





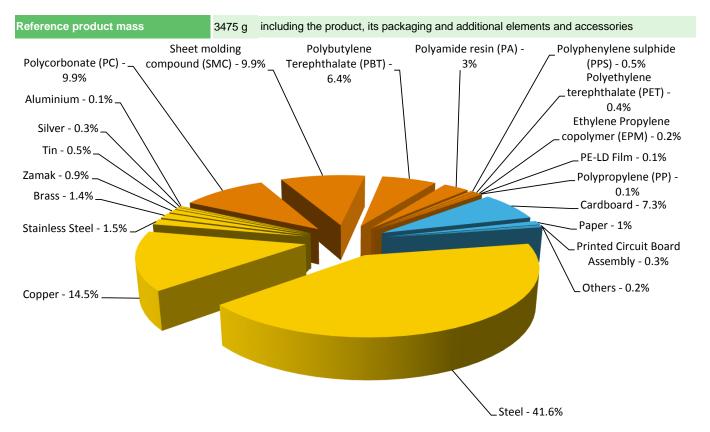




General information

Representative product	Compact NSX250F 3P3T Circuit Breaker with TM250D Trip Unit and Motor Mechanism MT250 - LV431630 & LV431541				
Description of the product	This product (Circuit Breaker with Motor mechanism) is having combination of functions. The Compact NSX250F 3 pole circuit breaker equipped with Thermal-magnetic (TM-D) trip units is designed to provide protection against overloads and short-circuits for industrial and commercial electrical distribution systems with assigned voltage upto 690VAC and rated current of 250A. The Motor mechanism module is designed to control, operate, Open, Close and Reset the circuit breakers by manually or electrical remote order.				
Functional unit	This product (Circuit Breaker with Motor mechanism) is having combination of functions. It is to protect the installation during 20 years against overloads and short-circuits in circuit with assigned voltage 690VAC and rated current 250A. This protection is ensured in accordance with the following parameters: - Number of poles = 3 - Rated service breaking capacity Ics at 380/415 V AC = 36 kA (according to IEC 60947-2) - Tripping curve = Long time and instantanous protections				

Constituent materials



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 Compact NSX250F 3P3T Circuit Breaker with TM250D Trip Unit and Motor Mechanism MT250 presents the following relevent environmental aspects							
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 297.4 g, consisting of Cardboard (87%), Paper (12%) & Plastic film (1%).						
	Product distribution optimised by setting	Product distribution optimised by setting up local distribution centres					
Installation		The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).					
Use	The end user must refer to maintenance guide of the product in order to do the appropriate maintenance operations. The Motor mechanism unit has to be replaced every 10 years.						
	End of life optimized to decrease the ame	ount of waste and allow recovery of the product components and materials					
	This product contains Plastic part (194g) with Brominated Flame Retardant (11.6g) & Printed Circuit Board Assembly (11g), that should be separated from the stream of waste so as to optimize end-of-life treatment.						
End of life	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: 58%	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 14.06 W, loading rate is 50% and service uptime percentage is 30%					
Geographical representativeness	China					
Technological representativeness	This product (Circuit Breaker with Motor mechanism) is having combination of functions. The Compact NSX250F 3 pole circuit breaker equipped with Thermal-magnetic (TM-D) trip units is designed to provide protection against overloads and short-circuits for industrial and commercial electrical distribution systems with assigned voltage upto 690VAC and rated current of 250A. The Motor mechanism module is designed to control, operate, Open, Close and Reset the circuit breakers by manually or electrical remote order.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: SBMLV, China	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	Compact NSX250F 3P3T Circuit Breaker with TM250D Trip Unit and Motor Mechanism MT250 - LV431630 & LV431541						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,50E-02	2,35E-02	0*	0*	1,50E-03	0*
Contribution to the soil and water acidification	$kg SO_2 eq$	8,80E-01	4,22E-02	3,43E-03	0*	8,33E-01	9,67E-04
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2,55E-01	2,40E-02	7,90E-04	7,30E-04	2,30E-01	2,63E-04
Contribution to global warming	kg CO ₂ eq	7,78E+02	1,58E+01	7,56E-01	4,05E-01	7,60E+02	4,79E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,47E-05	9,94E-06	0*	0*	1,47E-05	2,20E-08
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1,03E-01	4,57E-03	2,45E-04	9,47E-05	9,82E-02	1,01E-04



Optional indicators	Compact NSX250F 3P3T Circuit Breaker with TM250D Trip Unit and Motor Mechanism MT250 - LV431630 & LV431541						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,21E+04	2,10E+02	1,06E+01	0*	1,19E+04	4,31E+00
Contribution to air pollution	m³	8,75E+04	6,56E+03	3,18E+01	0*	8,09E+04	3,40E+01
Contribution to water pollution	m³	4,00E+04	1,64E+03	1,24E+02	2,13E+01	3,82E+04	4,03E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,04E-01	1,55E-01	0*	0*	4,94E-02	0*
Total use of renewable primary energy resources	MJ	6,46E+02	9,59E+00	0*	0*	6,36E+02	0*
Total use of non-renewable primary energy resources	MJ	1,21E+04	2,69E+02	1,07E+01	0*	1,18E+04	4,72E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6,38E+02	4,25E+00	0*	0*	6,34E+02	0*
Use of renewable primary energy resources used as raw material	MJ	7,74E+00	5,34E+00	0*	0*	2,41E+00	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,21E+04	2,45E+02	1,07E+01	0*	1,18E+04	4,72E+00
Use of non renewable primary energy resources used as raw material	MJ	3,15E+01	2,34E+01	0*	0*	8,11E+00	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	3,72E+02	2,43E+02	0*	0*	1,24E+02	4,58E+00
Non hazardous waste disposed	kg	1,64E+02	1,86E+01	2,69E-02	2,82E-01	1,45E+02	0*
Radioactive waste disposed	kg	1,50E-02	7,15E-03	1,91E-05	0*	7,83E-03	2,29E-05
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,19E+00	3,15E-01	0*	0*	0*	1,88E+00
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	6,57E-02	7,75E-03	0*	0*	0*	5,80E-02
Exported Energy	MJ	2,03E-02	0*	0*	2,03E-02	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.

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Date of issue	03/2017	Information and reference documents	www.pep-ecopassport.org
		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)

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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