Product Environmental Profile

Standard motor mechanism module MT400/630, ComPacT NSX400/630, 220/240VAC 50/60Hz, 208/277VAC 60Hz

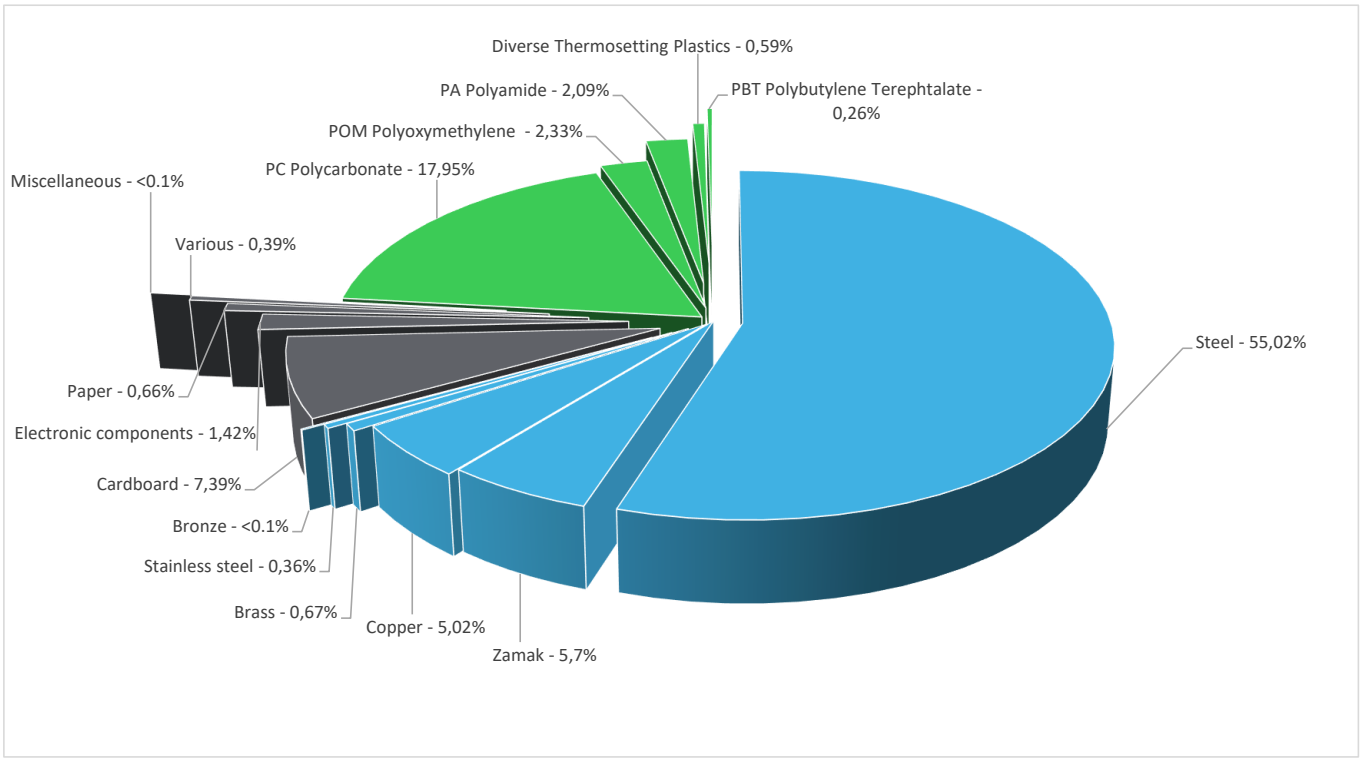
ComPacT NSX

General information

Reference product	Standard motor mechanism module MT400/630, ComPacT NSX400/630, 220/240VAC 50/60Hz, 208/277VAC 60Hz - LV432641
Description of the product	The MT400/630 standard motor mechanism module for ComPacT NSX 400/630 and PowerPacT Multistandard H frame devices is a mechanism that allows automatic device spring-charging. When equipped with this module, circuit breakers feature very high mechanical endurance as well as easy and reliable closing/opening operations. All circuit breaker indications and information remain visible and accessible, including trip unit settings and its indications. The suitability for isolation is mantained and padlocking of the device remains possible while providing a double insulation of the front face. The motor mechanism is supplied with an SDE adapter.
Description of the range	ComPacT NSX400/630 Motor Mechanism The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To provide easy and sure closing/opening operations. The characteristics of this motor mechanism are as follows: - Control voltage: 220-240 V AC 50/60Hz, 208-277 V AC 60Hz - Maximum number of cycles: 8000 C/O (electrical endurance of a NSX630 frame at 50%In, 440V AC) - Maximum number of cycles per minute: 4 C/O - Opening response time: <700ms - Closing response time: <80ms - Power consumption: <500VA - Reference Lifetime: 10 years

Constituent materials

Reference product mass	3130 g	including the product, its packaging and additional elements and accessories



	Metals	66,9%
	Plastics	23,2%
	Others	9,9%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**65%**	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special components needed during the installation phase. The disposal of the packaging materials is accounted for during this phase (including transport to disposal).			
Use scenario	The product is in active mode ~0,002% of the time and in off mode the rest of the time. Its power consumption is <500VA.			
Technological representativeness	The modules of technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are similar and representative of the actual type of technologies used to make the product.			
Geographical representativeness	Europe			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Production mix; Low voltage; IT	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators		**Standard motor mechanism module MT400/630, ComPacT NSX400/630, 220/240VAC 50/60Hz, 208/277VAC 60Hz - LV432641**						
Impact indicators	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**	**Loads and Benefits**
			[A1 - A3]	**[A4]**	**[A5]**	**[B1 - B7]**	**[C1 - C4]**	**[D]**
Contribution to climate change	kg CO2 eq	2,62E+01	1,79E+01	4,09E-01	4,43E-01	3,55E-01	7,09E+00	-7,10E+00
Contribution to climate change-fossil	kg CO2 eq	2,60E+01	1,77E+01	4,09E-01	4,23E-01	3,55E-01	7,06E+00	-7,05E+00
Contribution to climate change-biogenic	kg CO2 eq	2,38E-01	1,83E-01	0*	1,97E-02	4,74E-04	3,51E-02	-5,03E-02
Contribution to climate change-land use and land use change	kg CO2 eq	5,17E-07	0*	0*	0*	0*	5,17E-07	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,61E-05	1,60E-05	0*	2,93E-08	0*	4,31E-08	-1,09E-06
Contribution to acidification	mol H+ eq	1,54E-01	1,24E-01	2,63E-03	1,76E-03	2,03E-03	2,31E-02	-6,49E-02
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	1,17E-03	6,39E-05	1,53E-07	3,20E-06	9,73E-07	1,10E-03	-1,25E-05
Contribution to eutrophication marine	kg N eq	2,18E-02	1,47E-02	1,24E-03	4,66E-04	2,30E-04	5,21E-03	-4,37E-03
Contribution to eutrophication, terrestrial	mol N eq	2,24E-01	1,61E-01	1,36E-02	3,52E-03	3,46E-03	4,29E-02	-5,03E-02
Contribution to photochemical ozone formation - human health	kg COVNM eq	7,34E-02	5,39E-02	3,43E-03	9,39E-04	7,39E-04	1,43E-02	-1,87E-02
Contribution to resource use, minerals and metals	kg Sb eq	2,86E-03	2,83E-03	0*	0*	0*	3,12E-05	-2,23E-03
Contribution to resource use, fossils	MJ	7,17E+02	3,40E+02	5,70E+00	4,61E+00	9,05E+00	3,57E+02	-1,56E+02
Contribution to water use	m3 eq	3,72E+01	7,58E+00	0*	1,89E-01	1,26E-02	2,94E+01	-4,03E+00

Additional indicators for the French regulation are available as well

Inventory flows Indicators		Standard motor mechanism module MT400/630, ComPacT NSX400/630, 220/240VAC 50/60Hz, 208/277VAC 60Hz - LV432641						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7,50E+00	4,55E+00	7,61E-03	3,31E-01	1,74E+00	8,73E-01	-8,73E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1,69E+00	1,69E+00	0*	0*	0*	0*	-1,57E+00
Contribution to total use of renewable primary energy resources	MJ	9,18E+00	6,23E+00	7,61E-03	3,31E-01	1,74E+00	8,73E-01	-2,44E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,95E+02	3,19E+02	5,70E+00	4,61E+00	9,05E+00	3,57E+02	-1,56E+02
Contribution to use of non renewable primary energy resources used as raw material	MJ	2,14E+01	2,14E+01	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7,17E+02	3,40E+02	5,70E+00	4,61E+00	9,05E+00	3,57E+02	-1,56E+02
Contribution to use of secondary material	kg	1,73E-01	1,73E-01	0*	0*	0*	0*	0,00E+00
Contribution to use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to net use of freshwater	m³	9,43E-01	1,76E-01	0*	4,41E-03	2,93E-04	7,62E-01	-9,38E-02
Contribution to hazardous waste disposed	kg	1,95E+02	1,92E+02	0*	0*	0*	3,02E+00	-1,79E+02
Contribution to non hazardous waste disposed	kg	1,81E+01	1,59E+01	1,43E-02	1,44E+00	5,11E-02	6,75E-01	-7,53E+00
Contribution to radioactive waste disposed	kg	7,17E-03	6,91E-03	1,02E-05	1,93E-04	1,07E-05	4,07E-05	-2,50E-03
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	2,06E+00	0*	0*	2,43E-01	0*	1,82E+00	0,00E+00
Contribution to materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to exported energy	MJ	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to biogenic carbon content of the product	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0,00E+00	0*	0*	0*	0*	0*	0,00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request.

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-01051-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH08	*Supplemented by*	PSR-0005-ed2-2016 03 29
Date of issue	11/2023	*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 Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019

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 »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.se.com/contact

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

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