Product Environmental Profile

Lexium 62 - Single Drive 130A

LXM62 single drive

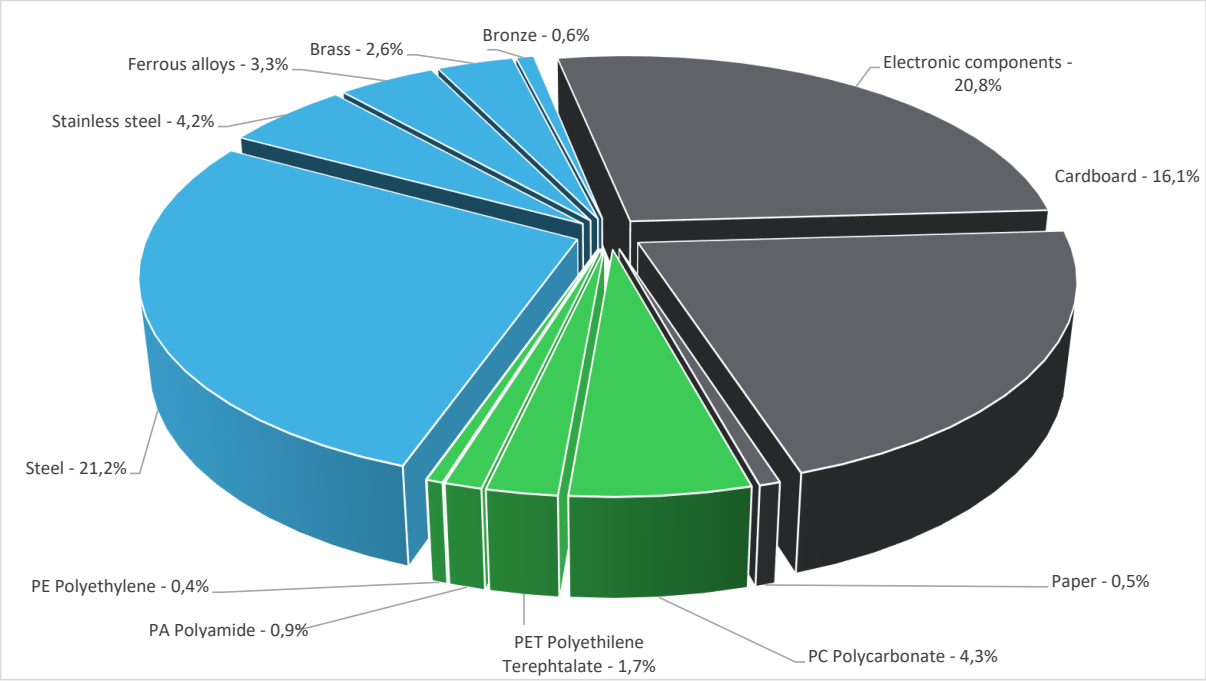


General information

Reference product	Lexium 62 - Single Drive 130A - LXM62DC13C21000
Description of the product	The modular servo drive system Lexium LXM62 is designed for the operation of servo drives in a multi-axis group. The servo converters provide the necessary phase currents for position control of the connected servo motors. Depending on the requirements of the individual servo axes within the application, single and double drives are available in different current classes.
Description of the range	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.This product is part of the Lexium 62 & Motors range, an offer of servo drives. The LXM62 single drive features a SERCOS III physical interface and provides digital inputs as well as digital outputs. It is a single drive with a rated supply voltage of 24 VDC, a continuous output current of 50 A at 4 kHz and a continuous power of 24.7 kW. The product is designed for control cabinet integration and is IP20 rated. It is compatible with SH3 servo motors and can be integrated into Lexium 62 multi-axis servo systems controlled by PacDrive 3 LMC motion controllers via SERCOS communication. The Lexium 62 range covers servo drives and servo motors from 0.95 kW to 24 kW for PacDrive-based automation solutions.
Functional unit	To provide the required phase currents for position control of the connected servo motors, rated up to 443 W, over a service life of 10 years at an 80% use rate.
Specifications are:	Rated current (4 kHz): 50 A Peak current (4kHz): 130 A DC bus voltage VDC: 250…700 Supply frenquency Hz: 48…62 Motion bus: Sercos Encoder: Hiperface or SinCos Inverter Enable: 1 input (two channels)

Constituent materials

Reference product mass	6790 g	including the product, its packaging, additional elements and accessories



Plastics	7,3%
Metals	31,9%
Others	61,1%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

https://www.se.com

Additional environmental information

End Of Life	Recyclability potential:	**65%**	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR 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
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption
Installation elements	This product does not require any installation operations.
Use scenario	The product is in active mode 80% of the time with a power use of 443 W for 10 years.
Time representativeness	The collected data are representative of the year 2026
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are similar and representative of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	Carros (France)	Europe		Europe
	[A1 - A3]	**[A5]**	**[B6]**	**[C1 - C4]**
Energy model used	Electricity Mix; Low voltage; 2020; France, FR	No energy used	Electricity Mix; Low voltage; 2020; Italy, IT Electricity Mix; Low voltage; 2020; Germany, DE Electricity Mix; Low voltage; 2020; France, FR Electricity Mix; Low voltage; 2020; China, CN	Global, European and French datasets are used.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.se.com/contact

Mandatory Indicators		**Lexium 62 - Single Drive 130A - LXM62DC13C21000**						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1,00E+04	6,62E+02	0*	2,64E+00	9,34E+03	9,72E+00	-2,77E+01
Contribution to climate change-fossil	kg CO2 eq	9,73E+03	6,62E+02	0*	1,24E+00	9,05E+03	9,70E+00	-2,83E+01
Contribution to climate change-biogenic	kg CO2 eq	2,92E+02	0*	0*	1,40E+00	2,91E+02	0*	6,15E-01
Contribution to climate change-land use and land use change	kg CO2 eq	6,01E-04	4,39E-04	0*	0*	1,60E-04	1,72E-06	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,68E-04	9,92E-05	0*	2,08E-08	6,89E-05	2,11E-07	-4,07E-06
Contribution to acidification	mol H+ eq	4,38E+01	2,88E+00	5,71E-03	0*	4,09E+01	2,72E-02	-1,96E-01
Contribution to eutrophication, freshwater	kg P eq	1,48E-02	1,64E-03	0*	2,62E-05	1,31E-02	4,26E-05	-1,08E-04
Contribution to eutrophication, marine	kg N eq	4,57E+00	3,19E-01	2,68E-03	1,58E-03	4,24E+00	6,25E-03	-1,72E-02
Contribution to eutrophication, terrestrial	mol N eq	8,14E+01	3,57E+00	2,94E-02	1,14E-02	7,77E+01	6,90E-02	-1,87E-01
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,53E+01	1,06E+00	7,43E-03	2,64E-03	1,42E+01	1,86E-02	-6,28E-02
Contribution to resource use, minerals and metals	kg Sb eq	4,59E-02	1,66E-02	0*	0*	2,93E-02	0*	-2,26E-03
Contribution to resource use, fossils	MJ	1,99E+05	6,84E+03	0*	0*	1,92E+05	7,34E+01	-4,50E+02
Contribution to water use	m3 eq	7,37E+02	2,16E+02	0*	1,48E-01	5,20E+02	9,38E-01	-8,00E+00

Inventory flows Indicators		Lexium 62 - Single Drive 130A - LXM62DC13C21000						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	1,49E+05	8,56E+02	0*	0*	1,48E+05	0*	-1,11E+01
Contribution to renewable primary energy used as raw material	MJ	2,72E+01	2,72E+01	0*	0*	0*	0*	-1,61E+01
Contribution to total renewable primary energy	MJ	1,49E+05	8,84E+02	0*	0*	1,48E+05	0*	-2,72E+01
Contribution to non renewable primary energy used as energy	MJ	1,99E+05	6,80E+03	0*	0*	1,92E+05	7,34E+01	-4,50E+02
Contribution to non renewable primary energy used as raw material	MJ	3,57E+01	3,57E+01	0*	0*	0*	0*	-1,45E-01
Contribution to total non renewable primary energy	MJ	1,99E+05	6,84E+03	0*	0*	1,92E+05	7,34E+01	-4,50E+02
Contribution to use of secondary material	kg	6,03E-02	6,03E-02	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 fresh water	m³	1,76E+01	5,03E+00	0*	8,86E-03	1,26E+01	2,77E-02	-1,86E-01
Contribution to hazardous waste disposed	kg	5,50E+02	1,70E+02	0*	0*	3,78E+02	1,51E+00	-1,78E+02
Contribution to non hazardous waste disposed	kg	1,79E+03	1,74E+02	0*	5,49E-01	1,62E+03	3,46E+00	-4,11E+01
Contribution to radioactive waste disposed	kg	5,48E-01	5,10E-02	0*	7,73E-05	4,97E-01	2,19E-04	-3,06E-02
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	5,22E+00	7,23E-01	0*	8,98E-01	5,30E-04	3,59E+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	8,73E-02	5,05E-03	0*	4,76E-02	0*	3,46E-02	0,00E+00

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

Contribution to biogenic carbon content of the product	kg of C	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	3,09E-01

** The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)*

Mandatory Indicators		Lexium 62 - Single Drive 130A - LXM62DC13C21000						
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	9,34E+03	0*	0*	0*	0*	0*	9,34E+03	0*
Contribution to climate change-fossil	kg CO2 eq	9,05E+03	0*	0*	0*	0*	0*	9,05E+03	0*
Contribution to climate change-biogenic	kg CO2 eq	2,91E+02	0*	0*	0*	0*	0*	2,91E+02	0*
Contribution to climate change-land use and land use change	kg CO2 eq	1,60E-04	0*	0*	0*	0*	0*	1,60E-04	0*
Contribution to ozone depletion	kg CFC-11 eq	6,89E-05	0*	0*	0*	0*	0*	6,89E-05	0*
Contribution to acidification	mol H+ eq	4,09E+01	0*	0*	0*	0*	0*	4,09E+01	0*
Contribution to eutrophication, freshwater	kg P eq	1,31E-02	0*	0*	0*	0*	0*	1,31E-02	0*
Contribution to eutrophication marine	kg N eq	4,24E+00	0*	0*	0*	0*	0*	4,24E+00	0*
Contribution to eutrophication, terrestrial	mol N eq	7,77E+01	0*	0*	0*	0*	0*	7,77E+01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,42E+01	0*	0*	0*	0*	0*	1,42E+01	0*
Contribution to resource use, minerals and metals	kg Sb eq	2,93E-02	0*	0*	0*	0*	0*	2,93E-02	0*
Contribution to resource use, fossils	MJ	1,92E+05	0*	0*	0*	0*	0*	1,92E+05	0*
Contribution to water use	m3 eq	5,20E+02	0*	0*	0*	0*	0*	5,20E+02	0*

Inventory flows Indicators		Lexium 62 - Single Drive 130A - LXM62DC13C21000							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,48E+05	0*	0*	0*	0*	0*	1,48E+05	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	1,48E+05	0*	0*	0*	0*	0*	1,48E+05	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,92E+05	0*	0*	0*	0*	0*	1,92E+05	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1,92E+05	0*	0*	0*	0*	0*	1,92E+05	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1,26E+01	0*	0*	0*	0*	0*	1,26E+01	0*
Contribution to hazardous waste disposed	kg	3,78E+02	0*	0*	0*	0*	0*	3,78E+02	0*
Contribution to non hazardous waste disposed	kg	1,62E+03	0*	0*	0*	0*	0*	1,62E+03	0*
Contribution to radioactive waste disposed	kg	4,97E-01	0*	0*	0*	0*	0*	4,97E-01	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	5,30E-04	0*	0*	0*	0*	0*	5,30E-04	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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.

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		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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