Product Environmental Profile

Lexium LXM32 / LXM52 Servo Drive
**General information**

**Representative product**
Lexium LXM32 / LXM52 Servo Drive - LXM52DD72C41000

**Description of the product**
The Lexium LXM32 / LXM52 Servo Drives are ideally suited to implement compact, high-performance drive solutions for a wide range of power requirements.

**Description of the range**
This range consists of Lexium LXM32M, LXM32C, LXM32A and LXM52 Servo Drives. The mass of the product range is from 1740 g and 4950 g including packaging. The electrical power consumed by the Lexium LXM32 / LXM52 Servo Drive range is between 28 W and 283 W.

The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.

**Functional unit**
To provide the phase currents required for the position control of the connected servo motors 100% of the time for 10 years up to 283W.

**Constituent materials**

**Reference product mass**
5552 g including the product, its packaging and additional elements and accessories

**Substance assessment**
Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

The Lexium LXM32 / LXM52 Servo Drive 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 614 g, consisting of cardboard (91.7%), paper (6.7%) and PE film (1.6%)

Product distribution optimised by setting up local distribution centres

**Installation**
LXM52DD72C41000 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 cards (1568g), cable (18.7g), electrolytic capacitors (640g) 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


Recyclability potential: 60%


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**Environmental impacts**

**Reference life time**
10 years

**Installation elements**
No special components needed

**Use scenario**
The product is in active mode 100% of the time with a power use of 283 W for 10 years for the referenced LXM52DD72C41000.

**Geographical representativeness**
Europe

**Technological representativeness**
The Lexium LXM32 / LXM52 Servo Drives are ideally suited to implement compact, high-performance drive solutions for a wide range of power requirements.

**Energy model used**

<table>
<thead>
<tr>
<th>Energy model used:</th>
<th>Manufacturing</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indonesia</td>
<td>Energy model used: Indonesia</td>
<td>Electricity grid mix; AC; consumption mix, at consumer; &lt; 1kV; EU-27</td>
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**Compulsory indicators**

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
<td>1,06E-02</td>
<td>9,58E-03</td>
<td>0*</td>
<td>0*</td>
<td>1,06E-03</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>5,08E+01</td>
<td>1,59E-01</td>
<td>0*</td>
<td>0*</td>
<td>5,07E+01</td>
<td>0*</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
<td>3,12E+00</td>
<td>6,37E-02</td>
<td>7,53E-04</td>
<td>0*</td>
<td>3,06E+00</td>
<td>8,95E-04</td>
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<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>1,22E+04</td>
<td>5,11E+01</td>
<td>0*</td>
<td>0*</td>
<td>1,21E+04</td>
<td>2,59E+00</td>
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<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>8,00E-04</td>
<td>8,86E-06</td>
<td>0*</td>
<td>0*</td>
<td>7,91E-04</td>
<td>9,72E-08</td>
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<td>Contribution to photochemical oxidation</td>
<td>kg C₂H₄ eq</td>
<td>2,80E+00</td>
<td>1,35E-02</td>
<td>0*</td>
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**Resources use**

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<tr>
<td>Net use of freshwater</td>
<td>m³</td>
<td>4,40E+04</td>
<td>0*</td>
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<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>2,43E+05</td>
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**Installation elements**
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The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

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According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators (without "contribution to Mineral Resources Depletion" and "contribution to ozone layer depletion") of other products in this family may be proportional extrapolated by energy consumption values. For mineral Resources Depletion, 90% is caused by manufacturing and 10% is caused by the use phase therefore 90% of the impact may be proportional extrapolated by mass of the product and 10% may be proportional extrapolated by energy consumption values.

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.

<table>
<thead>
<tr>
<th>Registration number</th>
<th>ENVPEP110705EN_V4</th>
<th>Drafting rules</th>
<th>PCR-ed3-EN-2015 04 02</th>
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<tr>
<td>Date of issue</td>
<td>08/2020</td>
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<td>Validity period</td>
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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) »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier
CS 30323
F- 92506 Rueil Malmaison Cedex
RCS Nanterre 954 503 439
Capital social 896 313 776 €