Product Environmental Profile

3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL
### General information

**Representative product**

3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL -LC1D09P7

**Description of the product**

The product is a 3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL included in passive products - non-continuous operation category.

**Functional unit**

To make and break currents up to 9A for motor loads, and up to 25A for resistive loads at voltages of up to 690V for 20 years, in accordance with the IEC60947-1 and IEC60947-4 standards.

### Constituent materials

**Reference product mass**

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

- **Polyamide resin 6 (PA6)** - 3.3%
- **Polyamide resin 6.6 (PA6.6)** - 16%
- **FR(30)** - 0.2%
- **Various** - 0.4%
- **Oil** - 0.4%
- **FR(17)** - 0.7%
- **FR(52)** - 1.6%
- **Cardboard** - 6.5%
- **Glass fibre** - 7.7%
- **Aluminium** - 0.2%
- **Stainless steel with chrome** - 0.6%
- **Steel** - 44.4%
- **Copper** - 15.7%
- **Polyethylene terephthalate (PBT)** - 1.6%
- **Polycarbonate (PC)** - 0.3%
- **Nitrile rubber** - 0.2%

### 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 3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL presents the following relevant environmental aspects
Design
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 23.3 g, consisting of cardboard (23g) and paper (0.25g)
Product distribution optimised by setting up local distribution centres

Installation
Ref LC1D09P7 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 plastic parts with brominated FR (11.7g) 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


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 7.054 W full load, loading rate is 30% and service uptime percentage is 30%

Geographical representativeness
Europe

Technological representativeness
The product is a 3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL included in passive products - non-continuous operation category.

Energy model used

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

Compulsory indicators

<table>
<thead>
<tr>
<th>3P CONT 9A AC3 4KW 1NO 1NC 230VAC COIL - LC1D09P7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact indicators</td>
</tr>
<tr>
<td>Unit</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>Contribution to mineral resources depletion (kg Sb eq)</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification (kg SO2 eq)</td>
</tr>
<tr>
<td>Contribution to water eutrophication (kg PO4^3- eq)</td>
</tr>
<tr>
<td>Contribution to global warming (kg CO2 eq)</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion (kg CFC11 eq)</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation (kg C2H4 eq)</td>
</tr>
</tbody>
</table>

Resources use

<table>
<thead>
<tr>
<th>Unit</th>
<th>Total</th>
<th>Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net use of freshwater (m3)</td>
<td>6.06E-01</td>
<td>3.46E-02</td>
<td>0*</td>
<td>0*</td>
<td>5.71E-01</td>
<td>0*</td>
</tr>
<tr>
<td>Total Primary Energy (MJ)</td>
<td>4.47E+03</td>
<td>3.82E+01</td>
<td>6.51E-01</td>
<td>0*</td>
<td>4.43E+03</td>
<td>5.38E-01</td>
</tr>
</tbody>
</table>
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.
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

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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