Compact NSX400-630

End of life recycling
Compact NSX circuit breakers are made of recyclable materials

Materials used in Compact NSX400-630 circuit breakers
The weight of Compact NSX circuit breakers ranges from 5.5 kg (for a Compact NSX400) to 7.6 kg (for a Compact NSX630) excluding packaging. Less than 0.6% of the total weight of a Compact NSX needs to be recycled after special end-of-life processing.

Modular design of Compact NSX400-630 circuit breakers
The modular design of Compact NSX circuit breakers makes them easier to dismantle in order to recycle the various constituent materials. No special tools are required to dismantle Compact NSX circuit breakers. The first recommended level of dismantling consists of two easily identifiable sub-assemblies that are designed to come apart:

- The breaking block A
- The trip unit B

Breakdown of constituent materials of a Compact NSX400 with electronic trip unit.
3 recycling scenarios for Compact NSX circuit breakers

Introduction
A product's end-of-life recyclability refers to the possibility of reusing its constituent materials as raw materials that can be recycled. The recyclability ratio is calculated using data from identified recycling companies. The values depend on both the recycling companies and the chosen recycling scenarios. Compact NSX400-630 circuit breakers are not affected by the WEEE directive.

CAUTION: Consult the precautions to be adhered to before recycling a Compact NSX on the last page before any recycling, crushing or dismantling operations.

Minimum solution
The whole product is crushed after cleaning

<table>
<thead>
<tr>
<th></th>
<th>Sizeable parts cleaned by specialist recycling company</th>
<th>Recyclability ratio</th>
<th>Potential thermal energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum solution</td>
<td>1 %</td>
<td>54 %</td>
<td>37.4 MJ</td>
</tr>
</tbody>
</table>

This solution allows an acceptable amount of the metals of which they chiefly consist to be recovered and a minimum recyclability level while complying with the regulations. In order to comply with European directives, Micrologic electronic trip units are easy to dismantle and should be routed towards specialist recycling companies.

Simplified solution
After cleaning, any sizeable plastic parts are dismantled and the other parts are crushed

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</tr>
</thead>
<tbody>
<tr>
<td>Simplified solution</td>
<td>1 %</td>
<td>73 %</td>
<td>16.3 MJ</td>
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This easy, low-cost solution can achieve an acceptable recyclability ratio. By dismantling plastic parts made of similar material that weigh a reasonable amount (> 300 g), 23 % of the total product weight can be directly recovered. The rest of the combined materials are crushed in order to recover the metals of which they chiefly consist.

Eco-friendly solution
After cleaning, the whole product is dismantled and the plastic and metal parts are sorted

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<thead>
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<th>Recyclability ratio</th>
<th>Potential thermal energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eco-friendly solution</td>
<td>1 %</td>
<td>81 %</td>
<td>11.6 MJ</td>
</tr>
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This solution helps conserve natural resources. Rare non-renewable materials, such as the silver in the contacts, can be recovered. Plastic parts weighing more than 100 g are marked: this makes them easier to identify so that they can be sent to specialist recycling companies.
Precautions to be adhered to before recycling a Compact NSX

Before recycling, crushing or dismantling a Compact NSX, it is essential to disable the Compact NSX and remove its electronic cards.

Disable the Compact NSX
1. Close the Compact NSX in the ON position.
2. Trip the Compact NSX by pressing the red "push to trip" button.

Do not operate the toggle again after the mechanism has been tripped.

Dismantle the trip unit
1. Remove the escutcheon.
2. Undo the 3 trip unit fixing screws with a Torx 25 screwdriver.
3. Dismantle the trip unit.

Remove the electronic cards
The electronic cards should be sent to approved recycling companies. In order to remove the electronic cards inside the Micrologic electronic trip units, the cover must be removed from the trip unit.