

OJ ELECTRONICS A/S
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06 December 2024

OJ Declaration on Environment and Materials OJ-DV H5 series (11,0-15,0 kW), Frequency Converters

Environmental commitment of OJ Electronics A/S

Green vision

OJ Electronics will continue to develop intelligent solutions, which provide maximum comfort with minimum energy consumption.

Green strategy

For OJ Electronics, sustainability is a business approach that aims to achieve the best possible outcome not just for ourselves, but for our stakeholders and the environment too.

Impact

In all our business decisions and processes, we at OJ Electronics seek to strike a responsible balance between economic, human, and environmental considerations.

Products concerned

The data is representative of the OJ-DV H5 series (11,0-15,0 kW) of Frequency Converter dedicated for ventilation applications.

Reference product is OJ item no. OJ-DV-3150-NGN6:



Data are representative of OJ item numbers

XX-DV-3110-YYYY-ZZZ
XX-DV-3150-YYYY-ZZZ

XX representing letters "OJ" or customer two-letter abbreviation.
YYYY representing different combinations of letters and digits,
referring to different options for add-on modules, connections,
fans and classifications. ZZZ representing digits, letters or left
blank.

PM-807105

Constituent materials

The products consist of the following fractions or components:

| Component | Material | Weight (g) | Weight % of total |
|-----------------|--------------------------------|-------------|-------------------|
| Housing | Aluminum, EN AB-44300 | 7280 | 77% |
| Back plate | Aluminum, EN AB-44300 | 620 | 6% |
| Front cover | Blue: Plastic, PP | 145 | 2% |
| | Black: Plastic, PBT/PC | | |
| Screws | Steel | 45 | <1 % |
| Moulding | Polyurethane resin with primer | 75 | 1% |
| Cable glands | Plastic, PA | 45 | <1% |
| Electronic card | PCB + components | 1220 | 13 |
| | Total | 9430 | 100% |

We declare that to the best of our knowledge the products meet the requirements of RoHS3, Restriction of Hazardous Substances Directives 2011/65/EU (RoHS2) with amendments, including Directive 2015/863/EU (RoHS3).

We declare that to the best of our knowledge the products meet the requirements of POP, Regulation (EU) 2019/1021 of the European Parliament and of the Council on persistent organic pollutants with amendments.

We declare that no nano materials have been intentionally added to the products.

In accordance with REACH, Registration, Authorisation and Restriction of Chemicals, European Union Regulation (EC) 1907/2006 with amendments, we hereby declare that the products include the following components with a content of Substances of Very High Concern, SVHC, above the limit of 0,1% referring to the SVHC Candidate List of 27th of June 2024..

| Component *) | Component weight (g) | SVHC | CAS-no. | Substance concentration (% w/w) | RoHS Exemption |
|-----------------|----------------------|------|-----------|---------------------------------|----------------|
| UF4007-E3/54 | 0,34 | Lead | 7439-92-1 | 0,53 | 7(a), 7(c-1) |
| SM4007PL-TP | 0,017953 | Lead | 7439-92-1 | 3,2 | |
| SMBJ6.5CA-E3/5B | 0,093 | Lead | 7439-92-1 | 7,08 | 7(a), 7(c-1) |
| ER3D-TP | 0,257 | Lead | 7439-92-1 | 7,81 | 7(a) |
| US1M-E3/61T | 0,064 | Lead | 7439-92-1 | 8,13 | 7(a), 7(c-1) |
| RBR3LAM60ATR | Not available | Lead | 7439-92-1 | 1,25 | 7(a) |
| SMBJ10A-E3/52 | 0,093 | Lead | 7439-92-1 | 7,08 | 7(a), 7(c-1) |
| SMBJ15A-E3/52 | 0,093 | Lead | 7439-92-1 | 7,08 | 7(a), 7(c-1) |
| SMBJ5.0A-TR | 0,098 | Lead | 7439-92-1 | 7,03 | 7(a) |
| SMBJ24A-E3/52 | 0,093 | Lead | 7439-92-1 | 7,08 | 7(a), 7(c-1) |
| IXTA3N150HV | 1,515 | Lead | 7439-92-1 | 0,26 | 7(a) |
| FQB22P10TM | 1,48589 | Lead | 7439-92-1 | 0,77 | 7(a) |

*) Where alternative components might be used, "worst case" is reported.

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Packaging

Products are delivered from OJ Electronics A/S on wooden pallets in wooden frames. Products are layered in frames. Cardboard inserts separate layers. Pallet with frames is wrapped in plastic foil or strapped with plastic strapping, depending on size of delivery.

Pallet: Euro pallet, heat treated according to ISPM 15.

Frame: Frame for euro pallet, heat treated according to ISPM 15

Insert: brown cardboard

Wrapping foil: Plastic, LLPDE.

Strapping: Plastic, PP

Number of frames and inserts and amount of wrapping foil and strapping used depend on size of delivery. For very small orders (one or a few pieces), packaging might differ from description.

Manufacturing

The products are manufactured at OJ Electronics A/S, Sønderborg, Denmark. OJ Electronics has an environmental certification according to ISO 14001:2015.

CO₂-equivalents for manufacturing: 0,063 kg CO₂-eq/product *)

*) Scope 1 and 2, 2023, average of all products produced at OJ Electronics A/S

Installation

For the installation of the products, only standard tools are needed.

Use

No consumables are necessary to use these products.

End of life

Development team at OJ Electronics A/S aims to integrate product end-of-life factors in the design phase.

Hazardous Waste

The electronics include components with a content of SVHC above the limit of 0,1% as stated under "Constituent materials".

OJ has registered the product in the SCIP database in accordance with EU Waste Framework Directive 2008/98/EC amended by Directive (EU) 2018/851:

SCIP Number: 6ae6d120-0de0-421f-b110-eb7636fe4cd1

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Recycling

Recyclability rate is estimated to 95%.

Products can be separated into following waste fractions:

| Fraction | % mass of products |
|-------------------------------|--------------------|
| Metal (aluminum, steel) | 83% |
| Plastic (PP or PBT/PC and PA) | 3% |
| Electronic card, components | 13% |
| Other | 1% |

Packaging is 100% reusable (pallet, frames) or recyclable (inserts, wrapping foil, strappings).

Best regards

OJ ELECTRONICS A/S

A handwritten signature in blue ink that reads 'Karin Schmidt'.

Karin Schmidt, Quality Coordinator