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14 November 2023

OJ Declaration on Environment and Materials OJ-DRHX H1x (14 Nm) Drives for rotating heat exchangers

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-DRHX H1x series (14 Nm) of drives for rotating heat exchangers.

Reference product is OJ item no OJ-DRHX-1790-MAN5:



Data are representative of OJ item numbers:

XX-DRHX-1790-YYYY

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.

Constituent materials

The products consist of the following fractions or components:

Component	Material	Weight (g) *)	Weight % of total
Housing	Aluminum (EN AB-44300)	2560	70%
Back plate	Steel (DX51D-Z275)	210	6%
Front cover	Plastic, PP	170	5%
Screws	Steel	42	1%
Moulding	Polyurethane resin with primer	70	2%
Cable gland, 3 pcs	Plastic, PA	30	<1%
Electronic card	PCB + components	600	16%
	Total	3682	100%

*) Weights are approximated, may vary slightly

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.

To our knowledge no nano materials or micro plastic have been intentionally added to the product.

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 14th of June 2023.

Component *)	Component weight (g)	SVHC	CAS-no.	Substance concentration (% w/w)	RoHS Exemption
1N5408RLG	1,33462	Lead	7439-92-1	5,5%	7.a, 7.c-1
SM4007PL-TP	0,017953	Lead	7439-92-1	3,2%	7.a
SMBJ6.5CA-E3/5B	0,093	Lead	7439-92-1	7,1%	7.a, 7.c-1
ER3D-TP	0,257	Lead	7439-92-1	7,8%	7.a
US1M-E3/61T	0,064	Lead	7439-92-1	8,1%	7.a, 7.c-1
RBR3LAM60ATR	Not available	Lead	7439-92-1	1,2%	7.a
SMBJ10A-E3/52	0,093	Lead	7439-92-1	7,1%	7.a, 7.c-1
SMBJ5.0A-TR	0,093	Lead	7439-92-1	7,1%	7.a
SMBJ24A-E3/52	0,093	Lead	7439-92-1	7,1%	7.a, 7.c-1
IXTA3N150HV	1,515	Lead	7439-92-1	0,3%	7.a
FQB22P10TM	1,485898	Lead	7439-92-1	0,8%	7.a
BSZ100N06LS3 G	0,03837	Lead	7439-92-1	14,2%	7.a
BSZ100N06LS3GAT MA1	0,03838	Lead	7439-92-1	14,3%	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: 0,054 kg CO₂-eq/product *)

*) Scope 1 and 2, 2022, 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". When products are used as intended, the substances pose no risk. Caution is advised when disassembling product and disposing of electronic components as waste.

OJ has registered products as a group in the SCIP database in accordance with EU Waste Framework Directive (EU) 2018/85:

SCIP Number: 1094303f-cf2a-4097-a6dd-000f5cd12e98

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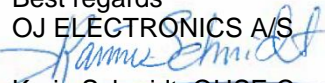
Recycling

Recyclability rate is estimated to 95%.

Products can be separated into following waste fractions:

Fraction	% mass of products
Metal (aluminum, steel)	77%
Plastic (PP and PA)	5%
Electronic card, components	16%
Other	2%

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

Best regards
OJ ELECTRONICS A/S

Karin Schmidt, QHSE Coordinator