



## ENVIRONMENTAL PRODUCT DECLARATION

# **SIMATIC ET 200SP** BaseUnit 6ES7193-6BP00-0DA0

Type II according to ISO 14021 including life cycle impact assessment (LCIA)



# SIEMENS

# General information

This environmental product declaration (EPD) is based on the international standard ISO 14021 ("Environmental labels and declarations – Self-declared environmental claims – Type II"). The data in this EPD has been evaluated on a full-scale life cycle assessment (LCA) study according to ISO 14040/44, taking into account the product category rules (PCR) for electronic and electrotechnical products and systems defined in EN 50693.

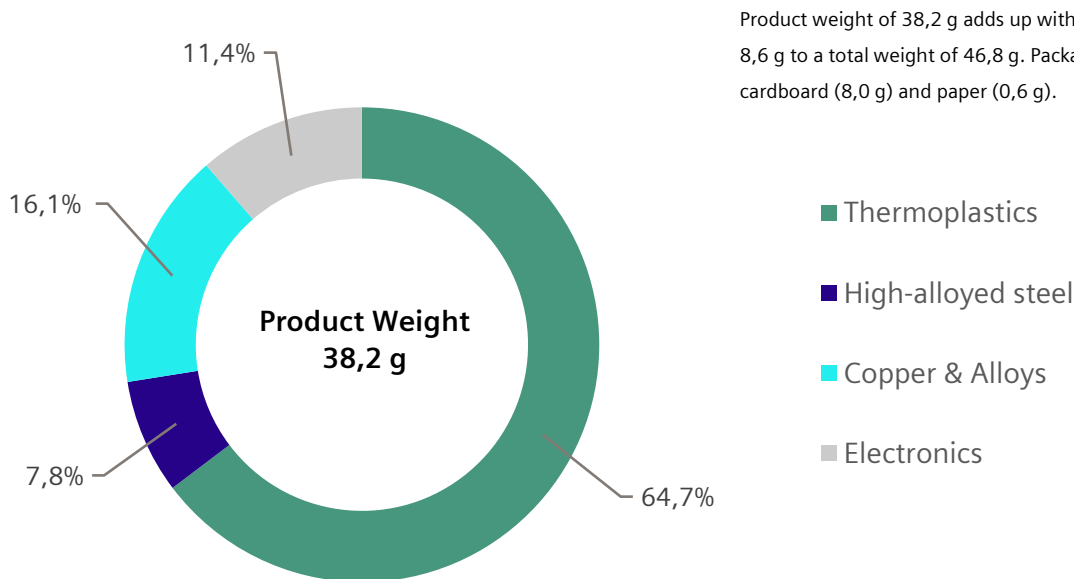
Siemens is dedicated to an environmentally conscious design of its products in line with IEC 62430 and has implemented an integrated management system according to ISO 9001, ISO 14001 and ISO 45001.

Products	Variants in the product family of SIMATIC ET 200SP BaseUnit and PotDis with up to 18 clamps - please refer to <a href="#">link</a>
Represented by	6ES7193-6BP00-0DA0
Product Description	SIMATIC ET 200SP, BaseUnit BU15-P16+A0+2D, BU type A0, push-in terminals, without aux. terminals, new load group, WxH: 15x117 mm
Functional Unit	To connect processes with I/O modules over the reference service lifetime of 10 years



## Material composition

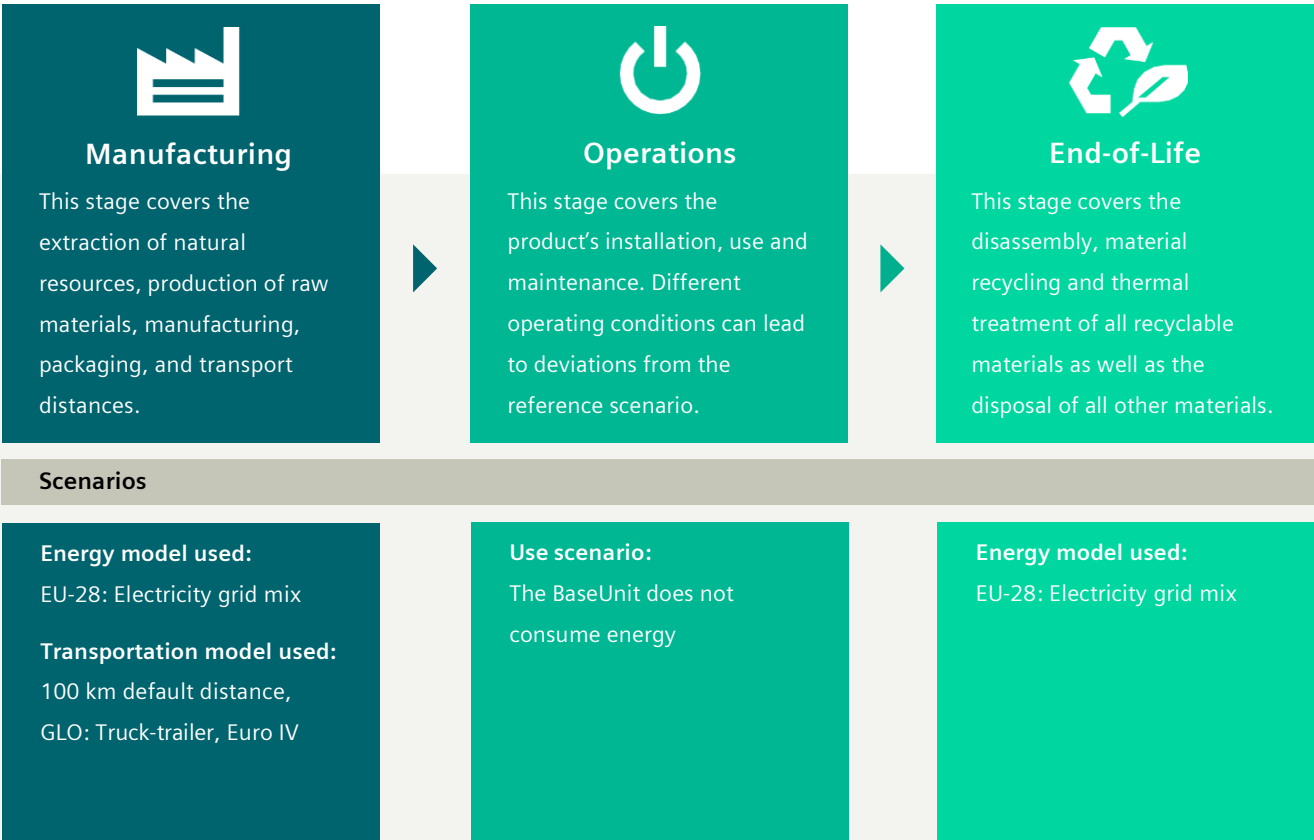
The following chart outlines the overall material composition of the calculated reference product.



## Substance assessment

At Siemens, we are committed to the development and production of environmentally sound and sustainably produced equipment. This includes avoiding hazardous substances in our products without compromising their benefits for our customers. Please visit the following website to learn more about how we comply with product-related environmental regulations like RoHS, REACH, WEEE and others: [Product Related Environmental Protection](#)

# Life cycle stages and reference scenarios



## Key environmental performance indicators

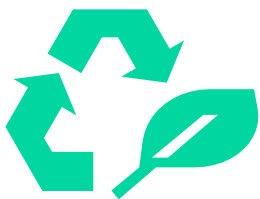
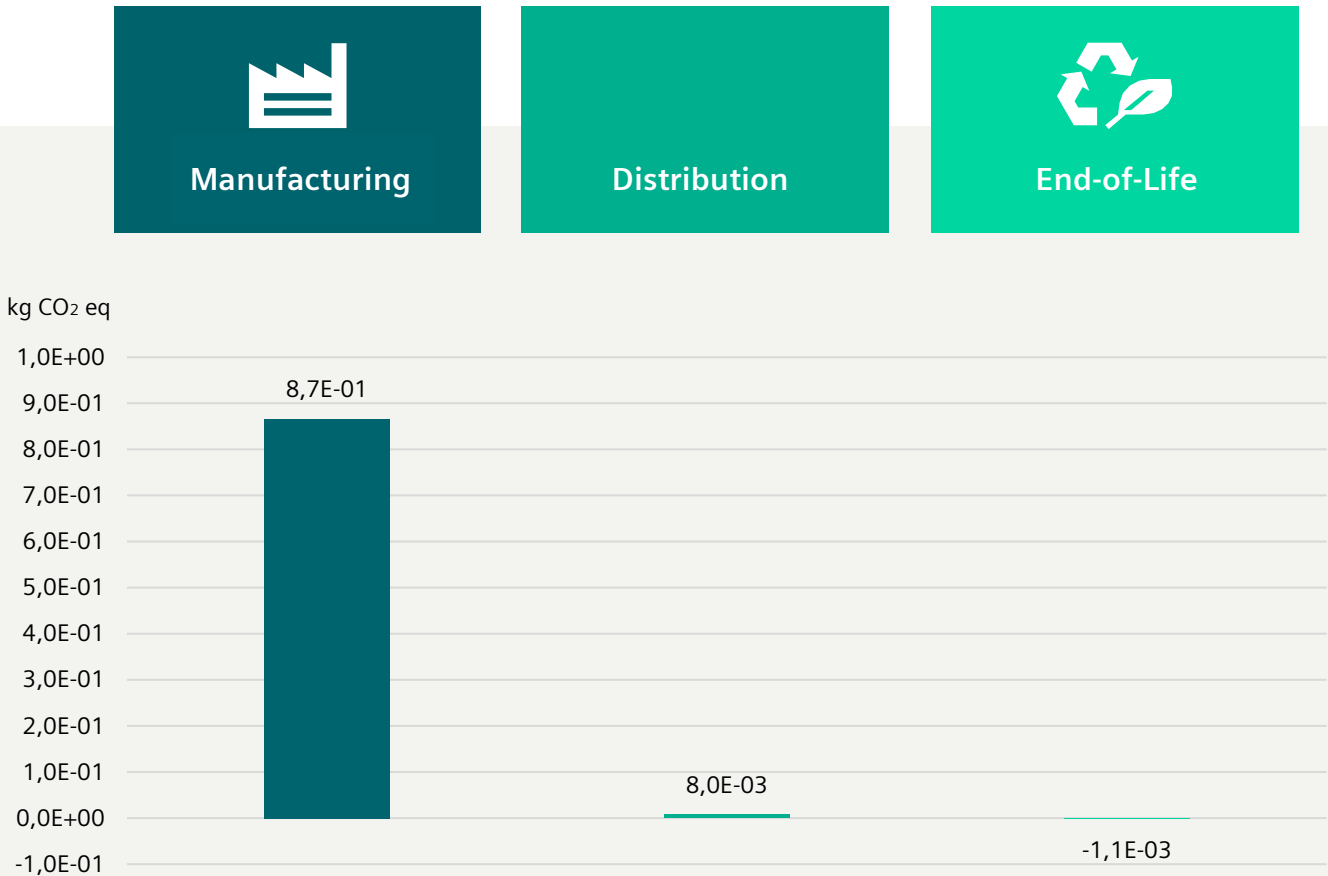
The following impact categories characterize the product's environmental footprint. They have been calculated with LCIA methodology EF3.0; LCA tool: GaBi 10.6.2.9, Database: GaBi Professional & Extensions, 2022.2.

Impact category	Unit	Total	Manufacturing	Distribution <sup>1</sup>	Operation	End-of-Life
Acidification	Mole of H <sup>+</sup> eq	2,43E-03	3,61E-03	4,56E-05	0,00E+00	-1,23E-03
Climate change – total	kg CO <sub>2</sub> eq	8,73E-01	8,66E-01	8,05E-03	0,00E+00	-1,07E-03
Ecotoxicity, freshwater – total	CTUe	7,71E+00	7,95E+00	7,44E-02	0,00E+00	-3,13E-01
Eutrophication, freshwater	kg P eq	5,85E-06	5,90E-06	2,39E-08	0,00E+00	-6,47E-08
Eutrophication, marine	kg N eq	5,39E-04	5,71E-04	2,23E-05	0,00E+00	-5,41E-05
Eutrophication, terrestrial	Mole of N eq	5,70E-03	6,01E-03	2,47E-04	0,00E+00	-5,51E-04
Human toxicity, cancer – total	CTUh	4,18E-09	4,21E-09	1,50E-12	0,00E+00	-3,33E-11
Human toxicity, non-cancer – total	CTUh	1,34E-08	1,50E-08	8,29E-11	0,00E+00	-1,74E-09
Ionising radiation, human health	kBq U235 eq	1,34E-01	1,34E-01	1,94E-05	0,00E+00	-5,93E-04
Land Use	dimensionless (pt)	2,95E+00	3,24E+00	3,69E-02	0,00E+00	-3,21E-01
Ozone depletion	kg CFC-11 eq	1,73E-10	1,25E-10	4,80E-16	0,00E+00	4,76E-11
Particulate matter	Disease incidences	4,04E-08	4,64E-08	1,57E-10	0,00E+00	-6,18E-09
Photochemical ozone formation	kg NMVOC eq	1,55E-03	1,71E-03	4,30E-05	0,00E+00	-2,09E-04
Resource use, fossils	MJ	1,21E+01	1,28E+01	1,07E-01	0,00E+00	-8,23E-01
Resource use, mineral and metals	kg Sb eq	5,66E-05	7,74E-05	6,73E-10	0,00E+00	-2,09E-05
Water use	m <sup>3</sup> world eq	1,91E-01	2,02E-01	7,19E-05	0,00E+00	-1,18E-02

<sup>1</sup> Distribution scenario: Truck-trailer (GLO), Euro IV, 27 t payload, 85% loading rate, 3500 km

# Climate change

This chart shows the overall impact of the product on climate change. The operation stage is not shown in the chart because the reference product does not consume energy when used.



## End-of-Life scenario

The End-of-Life stage was modelled by shredding of the device, followed by sorting and material separation process.

It leads to:

- an overall **product recyclability rate of up to 22,6%**
- an **energy recoverability rate of up to 74,2%**
- a **minimum disposal rate of 3,2%**

The exact final values depend on the used recycling process and add up to 100%.

**Note:** The device should not be disposed of as unsorted municipal waste. Special treatment for specific components may be mandated by law or recommended for environmental reasons. Observe all local and applicable laws.

# Legal Disclaimer

This Environmental Product Declaration (EPD) is for information purposes only. It is based upon the standards mentioned above.

This EPD does not warrant or guarantee the composition of a product or that the product will retain a particular composition for a particular period. Therefore, all warranties, representations, conditions, and all other terms of any kind whatsoever implied by statute or common law are – to the fullest extent permitted by applicable law – excluded.

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Please be aware that the data of this EPD cannot be compared with data calculated based upon product category rules (PCRs) other than the standards mentioned above. The values given are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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