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Product Environmental Profil

Radio Motor for curtains Altus 28 RTS external battery

A leading player in the housing industry for over 50 years, SOMFY is working to reduce its carbon emissions by 50% by 2030 and like so helps its customers and partners in their environmental approach.

Our actions to reduce our carbon footprint:

OFFER ECO-DESIGNED* PRODUCTS WITH A REDUCED ENVIRONMENTAL IMPACT THROUGHOUT THEIR LIFE CYCLE

OFFER SOLUTIONS THAT IMPROVE THE ENERGY EFFICIENCY OF BUILDINGS AND THUS LIMIT CO2 EMISSIONS.

[1]. Somfy's eco-design approach, identified by the ACT FOR GREEN label, aims to reduce the environmental impact of products throughout their life cycle, from the extraction of raw materials to the end of their life, by placing requirements above current regulations.

— Reference product

> Reference product

ALTUS 28 WF RTS II+EXT LI-ION

Réf. **1241813A**

> Functional unit

Ensure the closing action by performing 10 000 operating cycles, on a reference service life of 15 years, with a torque of 1.5 Nm, on a length of 2 meters, corresponding to 23 winding turns per half-cycle, with a pulley diameter of 28 mm.

> Covered references

1241164A	ALTUS 28 WF RTS II KIT
1241162A	ROLL UP 28 WF RTS II
1242091A	ROLL UP 28 WF RTS II UNIT
1241813A	ALTUS 28 WF RTS II+EXT LI-ION

– Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics		Metals		Other	
	%		%		%
Polyimide	6.7	**Steel**	11.1	**Raw material**	2.1
PET	2.8	**Aluminium**	4.0	**Polyurethane**	1.3
PA66	0.8	**Lithium iron phosphate**	3.6	**Carbon black**	0.2
PVC	0.6	**Copper**	3.0	**Other**	0.1
Silicon rubber	0.5	**Zamak**	1.9	**Sum**	3.7
Other	2.5	**Other**	3.9	Packaging	
Sum	14.0	**Sum**	27.5	**Cardboard**	44.6
				Paper	10.2
				Sum	54.8
Total mass of the reference product : 1406,4g					
Estimated recycled content: 64,0%					

> CHEMICAL SUBSTANCES

The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.

— Manufacturing

The devices covered in this PEP are manufactured in a production that has adopted an environmental management approach.

> Energy model

China mix

— Distribution

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials

> The unit pack has been modeled here. It is made up of:

- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers

— Installation

> Installation elements

There is no element included in this phase.

> Installation processes

There is no installation process

> Energy model

Not applicable

— Use

> The product concerned works on rechargeable battery. It must be recharged every 0.8 years, i.e. 19 times its total lifetime of 15 years. Each recharge consumes 35 Wh, i.e. 665 Wh in total.

> Energy model of the use phase: European mix

> Consumables and maintenance : 2 Iron phosphate li-ion (LFP) battery (one battery is delivered with the product, not the other one

— End of life

> Typical transport conditions

Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end-of-life processes implemented all around the world, we considered:

- 200 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.
- Batteries need to be recycled and put in a specific bin

— Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life. All calculations are done with EIME software version EIME© v5.9.3 and CODDE 2022-01.

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life
Acidification potential of soil and water	Kg eq. SO_2	1.16E-01	6.68E-02	1.20E-02	1.21E-04	3.59E-02	6.47E-04
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	2.19E-03	2.09E-03	1.64E-08	1.01E-09	1.08E-04	2.32E-08
Abiotic depletion (fossil fuels)	MJ	2.33E+02	1.81E+02	5.74E+00	3.49E-01	4.15E+01	3.77E+00
Air pollution	m^3	2.60E+03	1.87E+03	5.87E+01	2.60E+00	6.09E+02	5.59E+01
Eutrophication	kg eq. PO4	3.26E-02	1.82E-02	1.20E-03	7.78E-04	1.20E-02	4.45E-04
Global Warming	kg eq. CO2	2.86E+01	1.98E+01	4.49E-01	4.17E-01	6.23E+00	1.68E+00
Ozone layer depletion	kg eq. CFC-11	1.41E-05	7.79E-06	7.78E-10	1.04E-09	6.29E-06	4.66E-08
Photochemical oxidation	kg eq. ethylene	5.45E-03	3.56E-03	5.99E-04	1.02E-04	1.07E-03	1.24E-04
Water pollution	m^3	2.87E+03	1.87E+03	6.72E+01	2.41E+01	6.43E+02	2.72E+02
Total Primary Energy	MJ	3.06E+02	2.32E+02	5.77E+00	3.73E-01	6.05E+01	7.58E+00
Total use of renewable primary energy resources	MJ	1.82E+01	1.54E+01	7.40E-03	8.86E-04	2.77E+00	5.54E-03
Total use of non-renewable primary energy resources	MJ	2.88E+02	2.17E+02	5.77E+00	3.72E-01	5.77E+01	7.57E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.61E+01	1.33E+01	7.40E-03	8.86E-04	2.77E+00	5.54E-03
Use of renewable primary energy resources used as raw material	MJ	2.12E+00	2.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	2.82E+02	2.13E+02	5.77E+00	3.72E-01	5.52E+01	7.57E+00
Use of nonrenewable primary energy resources used as raw material	MJ	6.23E+00	3.78E+00	0.00E+00	0.00E+00	2.45E+00	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	9.62E-01	9.62E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	4.60E-01	3.75E-01	3.50E-05	1.54E-05	8.37E-02	2.16E-03
Hazardous waste disposed	kg	1.44E+02	9.04E+01	0.00E+00	2.99E-04	5.22E+01	1.50E+00
Non hazardous waste disposed	kg	1.77E+01	1.36E+01	1.40E-02	2.96E-01	3.52E+00	2.17E-01
Non hazardous waste disposed	kg	6.95E-03	4.34E-03	9.71E-06	1.54E-06	2.56E-03	4.47E-05
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	1.03E-01	9.42E-02	0.00E+00	8.50E-03	0.00E+00	0.00E+00

> Extrapolation rule

For each phase of the life cycle. there is an extrapolation factor. To obtain the impacts of the other product. you need to multiply by the specific extrapolation factor.

	Manufacturing	Distribution	Installation	Use	End of life	Example for total Global warming (kg éq. CO2)
1241164A	1	1	1	1	1	6.23E+00
1241162A	0.99	1.0	0.7	1.0	1.00	6.04E+00
1242091A	0.99	1.0	0.7	1.0	1.00	6.04E+00
1241813A	1	1	1	1	1	6.23E+00

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PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025: 2006 “Environmental labels and declarations. Type III environmental déclarations	
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