50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profile
Movelite AC

Reference product

> Reference product

Movelite AC

Ref 1003175B

> Functional unit

Ensure the closing and opening action by performing 5000 operating cycles, over a service life of 15 years, with a torque of 0.6 Nm, on a run of 2.5 meters, corresponding to 13 windings turns per half-cycle, with a tube diameter of 25 mm.

> References covered

Movelite 35 RTS 433 EU 1.0M ref. 1003175B
Movelite 35 RTS 433 EU 1.0M AR ref. 1003183B
Movelite 35 RTS 433 EU 1.0M TW ref. 1003321B
Movelite 60 RTS ref. 1240443B
Movelite 35 RTS 433 EU 1.0M SII ref. 1241773B
Movelite 35 WT EU 1.0M ref. 1003173B
Movelite 35 WT EU 1.0M AR ref. 1003181B
Movelite 35 WT EU 1.0M TW ref. 1003319B
Movelite 60 WT ref. 1240441B
Movelite 35 WT EU 1.0M SII ref. 1241774B
Movelite 35 DCT EU 1.0M ref. 1003174B
Movelite 35 DCT EU 1.0M AR ref. 1003182B
Movelite 35 DCT EU 1.0M TW ref. 1003320B
Movelite 60 DCT ref. 1240442B
Movelite 35 DCT W US ref. 1241185B
Movelite 35 RTS 433 W US ref. 1241186B
Irismo 50S Plus DCT EU ref. 1240945B
Irismo 50S Plus WT EU ref. 1240946B
Irismo 50S Plus RTS EU ref. 1240947B
Azura 50 RTS 433 EU 1.0M ref. 1240450B
Movelite 35 DCT W EU 1.0M SA ref. 1003179B
Movelite 35 DCT W ref. 1240238B
Irismo Plus 35 DCT ref. 1240436B
Irismo Plus 50 DCT ref. 1240439B
Movelite 35 WT W EU 1.0M SA ref. 1003178B
Movelite 35 WT W ref. 1240237B
Irismo Plus 35 WT ref. 1240435B
Irismo Plus 50 WT ref. 1240438B
Movelite 35 RTS W 433 EU 1.0M SA ref. 1003180B
Movelite 35 RTS W ref. 1240239B
Irismo Plus 35 RTS ref. 1240437B
Irismo Plus 50 RTS ref. 1240440B
Izigo II 50 WT ref. 1240447B
Izigo II 50 DCT ref. 1240448B
Izigo II 50 RTS ref. 1240449B
Assembly for MOPANO 50 DCT ref. 5043201B
Assembly for MOPANO 50 RTS ref. 5043203B
Assembly for MOPANO 50 WT ref. 5043205B

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		
	g	%		g	%		g	%
Polyvinul chloride	54	4.8	**Aluminum**	301.0	26.5	**Quartz sand**	2.9	0.3
PA 66	37.7	3.3	**Zinc**	142.0	12.5	**glass fibre**	2.7	0.2
ABS	34.3	3.0	**Copper**	122.0	10.8	**Alumine**	1.9	0.2
PEHD	16.9	1.5	**steel electrogalvanise**	52.3	4.6	**Other**	1.8	0.2
PTFE	8.2	0.7	**invar**	33.8	2.7	**Total**	9.3	0.9
POM	7.9	0.7	**stainless steel**	34.7	3.1	**Packaging**		
Polyester resin	3.0	0.3	**tin**	6.54	0.6	**Cardboard**	155.0	13.7
epoxy resin	2.0	0.2	**brass**	4.9	0.4	**Paper**	101.6	9.0
Ethylvinylacetate foil	2.0	0.2	**ferrite**	2.26	0.2	**Total**	256.6	22.6
Other	1.9	0.2	**Silver**	1.3	0.1			
Total	167.9	14.9	**Other**	1.3	0.1			
			Total	702.1	61.6			

Total mass of reference flow: 1134.7g

Estimated recyclable content : 45%

> CHEMICAL SUBSTANCES

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

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Manufacturing

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

> Energy model
Electricity mix AC; China, CN

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

For the considered scenario, the product has a power of 35W in active mode during 0.06% of the time and standby power of 0.404W during 99.94% of the time.

> Energy model of the use phase: ELCD – Electricity Mix, <1kV ; EU-27

> Consumables and maintenance: None

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:

- 1000 km of transport
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation.
- A waste incineration of electrical and electronic equipment

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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© v5.9.1 and CODDE 2020-12

Indicators	Unit	Manufacturing	Distribution	Installation	Use	End of life	Sum
A for PEP	kg SO2 eq.	3.16E-02	9.65E-03	1.02E-04	2.69E-01	6.1E-04	3.11E-01
ADPe for EN15804	kg antimony eq.	5.94E-04	1.23E-08	1.13E-09	1.62E-06	3.72E-09	5.95E-04
ADPf for EN15804	MJ	1.37E+02	4.33E+00	2.47E-01	3.67E+02	1.05E+00	5.09E+02
AP for DHUP	m³	1.74E+03	4.67E+01	3.6E+00	1.53E+03	1.88E+01	3.34E+03
EP for EN15804	kg PO4--- eq.	5.72E-03	9.51E-04	4.97E-04	1.01E-02	6.80E-04	1.79E-02
GWP for EN15804	kg CO2 eq.	1.30E+01	3.41E-01	3.13E-01	3.56E+01	2.75E+00	5.21E+01
ODP for EN15804	kg CFC-11 eq.	1.75E-05	5.83E-10	8.59E-10	8.66E-06	6.61E-09	2.62E-05
POCP for EN15804	kg ethylene eq.	2.34E-03	4.78E-04	7.44E-05	1.27E-02	3.48E-05	1.57E-02
WP for DHUP	m³	9.34E+02	5.06E+01	1.40E+01	1.50E+03	7.83E+01	2.57E+03
Total Primary Energy	MJ	1.85E+02	4.35E+00	2.73E-01	7.22E+02	1.39E+00	9.13E+02
Total use of renewable primary energy resources	MJ	1.20E+01	5.56E-03	3.50E-03	5.17E+01	1.42E-03	6.36E+01
Total use of non-renewable primary energy resources	MJ	1.73E+02	4.35E+00	2.70E-01	6.70E+02	1.38E+00	8.49E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.15E+01	5.56E-03	3.50E-03	5.17E+01	1.42E-03	6.32E+01
Use of renewable primary energy resources used as raw material	MJ	4.65E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.65E-01
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.67E+02	4.35E+00	2.70E-01	6.70E+02	1.38E+00	8.43E+02
Use of non renewable primary energy resources used as raw material	MJ	5.88E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E+00
Use of non renewable 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	5.44E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-01
Net use of freshwater	m3	3.96E-01	2.63E-05	3.56E-05	9.30E-02	1.01E-03	4.90E-01
Hazardous waste disposed	kg	1.51E+01	0.00E+00	2.16E-04	0.00E+00	1.77E+00	1.69E+01
Non hazardous waste disposed	kg	1.28E+01	1.05E-02	2.69E-01	1.33E+02	4.64E-03	1.46E+02
Radioactive waste disposed	kg	3.35E-03	7.29E-06	4.35E-06	1.09E-01	6.40E-06	1.12E-01
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	5.73E-03	0.00E+00	5.73E-02	0.00E+00	0.00E+00	6.30E-02

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> These environmental impacts are only applicable to the reference product mentioned on page 1. To cover all the «covered references» mentioned on page 1, a calculation by an extrapolation coefficient is required.

> Extrapolation rule
An extrapolation rule is made for the use, depending on the couple.

	Manufacturing	Distribution	Installation	Use	End of life	Application example: Global sum for Global Warming indicator (kg CO2 eq)
Movelite 35 RTS 433	1.00	1.00	1.00	1.00	1.00	5.21
Movelite 60 WT	1.00	1.00	1.00	1.077	1.00	5.52
Irismo Plus 50	1.00	1.00	1.00	1.031	1.00	5.39

Registration number : **SOMF-00045-V01.01-EN**	Drafting Rules: PCR-ed3-EN-2015 04 02 Supplemented by PSR-0006-ed2-FR-2016 03 29
Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Date of issue: 12-2021	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ❒ External ☒ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
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