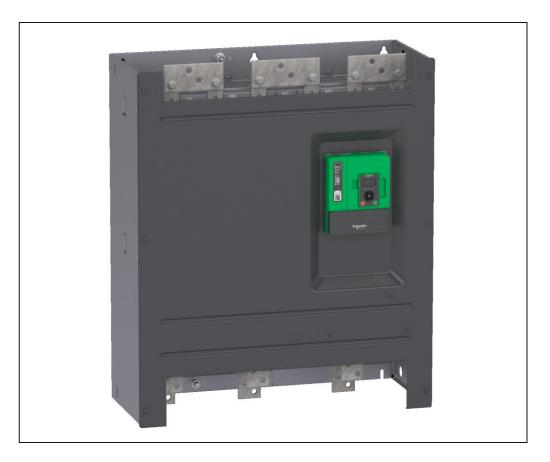
Product Environmental Profile

Altivar Soft Starter ATS480 1200A 208 to 690V AC control supply 110 to 230V AC

Altivar Soft Starter







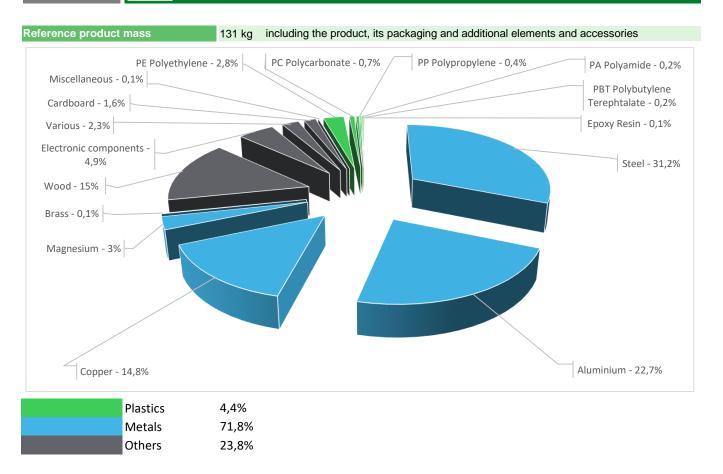




General information

Representative product	Altivar Soft Starter ATS480 1200A 208 to 690V AC control supply 110 to 230V AC - ATS480M12Y
Description of the product	The main function of the Altivar Soft Starter product range is primarily to intend for the soft starting and breaking of the rotational speed of an asynchronous electric motor for heavy duty industry and pumps.
Description of the range	This range consists of products ATS480 with ratings from 790A to 1200A for operation on 208 to 690V AC control supply 110 to 230V AC, 3-phase supplies IP20. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	The aim of soft starter is to drive an asynchronous motor (squirrel cage) by limitation of the current during acceleration and deceleration phase with a torque control. It's based on three phases dimmer with Silicon controlled rectifier (thyristor). The rating of softstarter is given by nominal current 1200 A in the case study which lead to drive several power motor depending of power network ie 230V power motor of 355kW. Calculation of the environmental impacts is based on 10 years of product service lifetime. The usage profile taken into account is 45% uptime in use phase, 45% uptime in stand by phase and 10% uptime in off phase.

Constituent materials



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

The Altiva	ar Soft Starter ATS480 1200A 208 to 690V AC control supply 110 to 230V AC presents the following relevent environmental aspects						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging optimized, based on the European Union's packaging directive						
Distribution	Packaging weight is 24440 g, consisting of wood (82%), cardboard (9%), dessicant dryer (1%), paper (1%) and PE filr (7%)						
	Product distribution optimised by setting up local distribution centres						
Installation	The product does not require any installation operation.						
Use	The product does not require special maintenance operations.						
	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials						
	This product contains Electronic Board (1829g), cables (629g), LCD (7g) and Batteries (2,9g) that should be separated from the stream of waste so as to optimize end-of-life treatment.						
End of life	The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website						
	http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page						
	Recyclability potential: 84% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).						

Environmental impacts

Reference life time	10 years					
Product category	Other equipments - Active product					
Installation elements	The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).					
Use scenario	The product is in active phase 45% of the time with a power use of 3507 W, in stand-by phase 45% of the time with a power use of 20 W and in off phase 10% of the time with a power use of 0 W, for 10 years.					
Geographical representativeness	Europe					
Technological representativeness	The main function of the Altivar Soft Starter product range is primarily to intend for the soft starting and breaking of the rotational speed of an asynchronous electric motor for heavy duty industry and pumps.					
	Manufacturing	Installation	Use	End of life		
Energy model used	Energy model used: China	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU- 27		

Compulsory indicators		Altivar Soft	Starter ATS480 1: Y	200A 208 to 690	OV AC control	supply 110	to 230V AC
mpact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Lif
Contribution to mineral resources depletion	kg Sb eq	1,06E-01	1,02E-01	0*	0*	3,74E-03	0*
Contribution to the soil and water acidification	$kg SO_2 eq$	6,25E+02	3,95E+00	7,75E-02	0*	6,21E+02	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2,40E+01	7,15E-01	1,78E-02	4,88E-03	2,33E+01	8,34E-03
Contribution to global warming	$kg CO_2 eq$	8,36E+04	1,42E+03	1,70E+01	1,53E+01	8,21E+04	1,37E+0
Contribution to ozone layer depletion	kg CFC11 eq	2,00E-02	1,01E-04	0*	0*	1,99E-02	0*
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	2,97E+01	3,20E-01	5,53E-03	3,58E-03	2,93E+01	3,49E-03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,43E+02	2,93E+01	0*	0*	2,14E+02	0*
Total Primary Energy	MJ	1,68E+06	1,89E+04	2,40E+02	0*	1,66E+06	0*
100% — — — — — — — — — — — — — — — — — —							
mineral the soil and water		ribution to (Contribution to bhotochemical oxidation	Net use of freshwater		

Optional indicators	Altivar Soft Starter ATS480 1200A 208 to 690V AC control supply 110 to 230V AC - ATS480M12Y						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8,59E+05	1,28E+04	2,38E+02	0*	8,46E+05	1,31E+02
Contribution to air pollution	m³	3,76E+06	2,35E+05	7,22E+02	3,84E+02	3,52E+06	1,16E+03
Contribution to water pollution	m³	3,55E+06	1,05E+05	2,79E+03	0*	3,44E+06	1,98E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2,17E+01	2,17E+01	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,20E+05	8,15E+02	0*	0*	1,19E+05	0*
Total use of non-renewable primary energy resources	MJ	1,56E+06	1,81E+04	2,40E+02	0*	1,54E+06	1,64E+02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,19E+05	3,50E+02	0*	0*	1,19E+05	0*
Use of renewable primary energy resources used as raw material	MJ	4,65E+02	4,65E+02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,56E+06	1,78E+04	2,40E+02	0*	1,54E+06	1,64E+02
Use of non renewable primary energy resources used as raw material	MJ	3,45E+02	3,45E+02	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*

■Manufacturing ■Distribution ■Installation ■Use ■End of life

Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	6,72E+03	6,59E+03	0*	0*	0*	1,30E+02
Non hazardous waste disposed	kg	3,08E+05	6,65E+02	0*	0*	3,07E+05	0*
Radioactive waste disposed	kg	2,51E+02	4,67E-01	0*	0*	2,50E+02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1,16E+02	1,01E+01	0*	1,31E+01	0*	9,24E+01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8,95E-01	0*	0*	0*	0*	8,95E-01
Exported Energy	MJ	9,78E+00	1,17E+00	0*	8,61E+00	0*	0*

^{*} represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2020-12 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

To extrapolate the impact to another product from the range, apply the following extrapolation rules to each indicator per life cycle stage: MANUFACTURING(i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams DISTRIBUTION (i) = Mass of (product+packaging) in grams / Mass of (reference product+reference packaging) in grams INSTALLATION (i) = Mass of (packaging) in grams / Mass of (reference packaging) in grams USE (i) = Power dissipated in Watts / Power dissipated of the reference product in Watts END OF LIFE (i))= Mass of (product) in grams / Mass of (reference product) in grams TOTAL (i) = Σ Life Cycle Stages (i)

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

		Validity period	5 years
Date of issue	11/2021	Information and reference documents	www.pep-ecopassport.org
Verifier accreditation N°	VH39		
Registration number :	SCHN-00665-V01.01-EN	Drafting rules	PCR-ed3-EN-2015 04 02

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

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 program.

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »



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Published by Schneider Electric

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11/2021