



Environmental Product Declaration

Product

Type of equipment / Product No.	SASx1.0x SASx1.3x SASx1.5x SATx1.0x SATx1.5x
Designation	Actuator 400N; 5.5mm; Non-Spring Return Actuator 400N; 5.5mm; US-Spring Return Actuator 400N; 5.5mm; Spring Return Actuator 300N; 5.5mm; Non-Spring Return Actuator 300N; 5.5mm; Spring Return
Product line, Product range	Short stroke actuator for seat valves

Process control

Siemens Schweiz AG		
Smart Infrastructure		
Theilerstrasse 1a		
CH-6300 Zug		
Management System	since	by
ISO 14001 (Environment)	20-October-1998	SQS
ISO 9001 (Quality)	22-July-1986	SQS

Environmentally compatible product design

Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying with Siemens EP Standard (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".

Product use

Typical energy consumption	variant *) see below
Maintenance	Not necessary Never

Risk of fire

Fire protection according to	EN 60730 & UL873
Fire load	variant *) see below

Packaging

20-PAP Corrugated fiber board	Cardboard	44g
22-PAP paper	Label	1g
Notes on disposal	One-way, recyclable	

Materials

Total weight of device	variant *) see below	
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The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

Plastics

PC+ABS FR(40); halogen-free	CablingCover,UpperHousing,etc.	variant
PC+ABS GF20 FR(40); GF 20%; halogen-free	HandWheel,GearBoxPlatine	variant
POM; halogen-free	Various Parts	variant
PC FR; halogen-free	LightPipe	1g
PC; halogen-free	PosIndicatorCover	12g

Metals	PA6T/66 CF30+Z; CF+Z 30%; halogenated	SpindleWheel_SS	variant
	PA66+PA6 GF30; GF 30%; halogen-free	UpperCentralShaft_SA	variant
	TPE; halogen-free	CablingCover	3g
	PBT GF30 FR(17); GF 30%; halogenated	LowerHousing;Plunger	variant
	PA66 RF20; halogen-free	BearingCentralShaft_WSR	3g
	PEEK; halogen-free	Gear	variant
	Steel; galvanized	Various Screws	39g
	Steel >5% alloyed	ReturnSpring, Axle	variant
	CuSn	PlungerShaft, Hexagonal Nut Motor	4g
	Steel , Cooper , PCB	Motors	variant
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	34g

*Variant parts list

	[g]	SASx1.0x	SASx1.3x	SASx1.5x	SATx1.0x	SATx1.5x
Total weight of device		408	692	680	416	661
CablingCover,UpperHousing,etc.		73	72	78	73	78
HandWheel,GearBoxPlatine		119	127	118	125	118
Various Parts		22	8	7	22	8
SpindleWheel_SS		3	27	27	3	27
UpperCentralShaft_SA		3	3		3	
LowerHousing;Plunger		56	85	85	56	85
Gear			4	4		4
ReturnSpring, Axle		14	239	236	16	216
Motors		24	32	32	24	32
Fire load	[MJ]	7	8	8	7	8
Typical energy consumption	[kWh/a]	1.32	1.32	1.32	1.84	1.84

Disposal



The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to www.siemens.com/bt/disposal.

For country-specific requirements regarding further disposal information:
<http://www.siemens.com/download?A6V13734633>

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

Regulation (EC) No. 1907/2006 (REACH)

The device contains the following substances of the candidate list meeting the criteria laid down in Article 57 of Regulation (EC) 1907/2006 and identified in accordance with Article 59(1) of EU REACH concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.

Aromatic Bromine compound and Antimon compound, CAS-Nr.1309-64-4; Lead, CAS-Nr.7439-92-1; Silicic acid (H₂SiO₅), barium salt (1:1), lead-doped, CAS-Nr.68784-75-8; Diboron trioxide, CAS-Nr.1303-86-2; BPA, CAS-Nr.80-05-7; Lead titanium trioxide, CAS-Nr.12060-00-3 ; Cobalt dichloride, CAS-Nr.7646-79-9 ; 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol, CAS-Nr.119-47-1

(Status according to the creation date of this document.)

The device is low-halogen with exception of:

PCB (TBBA); SpindleWheel (PTFE); LowerHousing, Plunger; Flame protected FR(17)

Smart Infrastructure
Building Products

Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Schweiz AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.

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