



## Environmental Product Declaration

<b>Product</b>	Type of equipment / Product No.	GCA121.1x/xx; (lowest fire load)	Damper Actuator; 18Nm
		GCA321.1x/xx; (lowest fire load)	Damper Actuator; 18Nm
		GCA164.1x/xx; (highest fire load)	Damper Actuator; 18Nm
		GCA161.1x/MO	Damper Actuator; 18Nm
	Product line, Product range	Damper Actuator GAP Medium SR / OpenAirTM	
<b>Process control</b>	Siemens Schweiz AG Building Technologies Division Theilerstrasse 1a CH-6300 Zug		
	Management System	since	by
	ISO 9001 (Quality)	22-July-1986	SQS
	ISO 14001 (Environment)	20-October-1998	SQS
<b>Environmentally compatible product design</b>	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".		
<b>Product use</b>	Typical energy consumption	variant *) see below Energy consumption is between 0.6 and 7 kWh/a (depending mainly on running time of the actuator)	
	Maintenance	Not necessary None	
<b>Risk of fire</b>	Fire protection according to	EN 60730 & UL 60730	
	Fire load	variant *) see below	
<b>Packaging</b>	20-PAP Corrugated fiber board	PACKAGING INCL. SHAFT ADAPTER	111g
	22-PAP paper	Label	1g
	22-PAP paper	Installation Instruction	23g
	22-PAP paper	Installation Instruction MO	variant
	Notes on disposal	One-way, recyclable	
<b>Materials</b>	Total weight of device	variant *) see below	
	The total weight of a device may deviate from the total of the weights of all individual components due to rounding.		
Plastics	PA66; AF 20%; low-halogen	GEAR WHEEL 9 SR MK2	3g
	POM; low-halogen	BEARING RING	9g
	POM; low-halogen	FIXATION AXLE	3g
	POM; low-halogen	SWITCHES POM PARTS	variant
	POM; low-halogen	ROTARY KNOB	variant
	POM; low-halogen	KNOP SPANNER	2g
	POM; low-halogen	INDICATOR	6g
	PC; GF 10%; low-halogen	MOTOR FLANGE SHINANO	16g

	PC; GF 10%; low-halogen	SWITCHES PARTS	variant
	PBT; low-halogen	PCB SUPPORT MK2	27g
	ABS+PC; low-halogen	SPACER PIECE	6g
Metals	Al alloy	UPPER HOUSING SR MK2	350g
	Al alloy	LOWER HOUSING SR MK2	389g
	Zn / Zn alloy	HUB	92g
	Zn / Zn alloy	SPRING CORE	14g
	Zn / Zn alloy	HUB SHAFT ADAPTER	191g
	Steel; Cr plated	SEVERAL SCREWS	27g
	Steel; Cr plated	TAPTITE-TORX M4x10 (TRAFO)	variant
	Steel	GEAR SEGMENT	80g
	Steel	WASHERS	1g
	Steel	GEAR WHEELS SR STEEL ASSY	153g
	Steel	KICK WHEEL 9 SR MK2 STEEL PARTS	4g
	Steel	PLATE SR ASSY	394g
	Steel	SHAFT 4/5 SR ASSY STEEL PARTS	12g
	Steel	SHAFT ADAPTER STEEL PARTS	104g
	Steel	TORQUE BLADE ASSY INCL. 2xSCREWS	81g
	Steel	SPANNER SR	5g
Others	Steel, Copper, PCB	MOTOR SHINANO ASSY	104g
	PVC	PVC CABLE 2 WIRES, 1m long*	variant
	PVC	PVC CABLE 4 WIRES, 1m long*	variant
	PVC	PVC CABLE 6 WIRES, 1m long*	variant
	Grease with PTFE	Lubricant	
	Steel, Copper, PCB	FEED BACK POTI ASSY	variant
	Steel, Copper	MICROSWITCH SAIA	variant
	Copper, Plastic	TRANSFORMER WITH CABLE	variant
	Plastic, PVC 1)	EMI DAC Assy	variant
PCBAs (Printed Circuit Board assembled)	FR4 / CEM3; TBBA; solder SnAgCu	PCB ASSY SR S 2P	variant
	FR4 / CEM3; TBBA; solder SnAgCu	PCB ASSY SR S 0...10V	variant

**\*Variant parts list**

	GCA121.1x/xx; (lowest fire load)	GCA321.1x/xx; (lowest fire load)	GCA164.1x/xx; (highest fire load)	GCA161.1x/MO
Total weight of device [g]	2'177	2'471	2'372	2'264
SWITCHES POM PARTS			13	
ROTARY KNOB			1	
SWITCHES PARTS			21	
TAPTITE-TORX M4x10 (TRAFO)		3		
PVC CABLE 2 WIRES, 1m long*	65			
PVC CABLE 4 WIRES, 1m long*			81	
PVC CABLE 6 WIRES, 1m long*			126	
FEED BACK POTI ASSY			5	5
MICROSWITCH SAIA			5	
TRANSFORMER WITH CABLE		356		
EMI DAC Assy				138
PCB ASSY SR S 2P	50	50		
PCB ASSY SR S 0...10V			59	59
Fire load [MJ]	5	3	9	8
Typical energy consumption [kWh/a]	4.38	5.26	4.38	4.38
Packaging				
Installation Instruction MO				4

## 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 according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 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.

Lead, CAS-Nr.7439-92-1; Silicic acid (H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>), barium salt (1:1), lead-doped, CAS-Nr. 68784-75-8; Diboron trioxide, CAS-Nr.1303-86-2; 4,4'-isopropylidenediphenol (Bisphenol A, 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; Melamine, CAS-Nr.108-78-1

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

The device is low-halogen with exception of:  
PVC cable; PCB (TBBA); Grease (PTFE)

### Further notes and comments:

\* SPECIAL COMPONENTS:

PVC POWER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

PVC OPT. POTENTIOMETER CABLE: 1.5m => +35g / 2.5m => +105g / 5m => +280g

PVC SWITCHES CABLE: 1.5m => +50g / 2.5m => +150g / 5m => +400g

1) for details pls. See EPD EMI A5W00030126

### 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.