SIEMENS

Smart Infrastructure
Building Products

EPD - Type II
Based on ISO 14021

Environmental Product Declaration

Product

Type of equipment / Product No.	GSD161.1x	Damper Actuator; 2Nm
	GSD166.1x	Damper Actuator; 2Nm
	GSD361.1A	Damper Actuator; 2Nm
	GSD141.1x	Damper Actuator; 2Nm
	GSD146.1x	Damper Actuator; 2Nm
	GSD341.1x	Damper Actuator; 2Nm
	GSD346.1x	Damper Actuator; 2Nm
Product line, Product range	Damper Actuator GAP Tiny MK3 / OpenAirTM	

Process control

Siemens Schweiz AG
Building Technologies Division
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
	None

Risk of fire

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

Packaging

20-PAP Corrugated fiber board	Cardboard	103.5g
22-PAP paper	Label	1.0g
22-PAP paper	Installation Instruction	16.0g
Notes on disposal	One-way, recyclable	

Materials

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	POM; low-halogen	Various parts and gears	variant
	POM TD5; low-halogen	Bearing Ring; Gear Fixation Wedge	1.6g
	POM GF25; GF 25%; low-halogen	CW/CCW Knob	variant
	PC; low-halogen	Housings	variant
	PC G F10; GF 10%; low-halogen	Spacer Support	variant

	PA6T/66 GF50; GF 50%; low-halogen	Gear Segment NSR	13.0g
	TPV; low-halogen	Lock Cover 2	variant
	TPS SEBS; low-halogen	Bearing Ring, sealings	variant
Metals	Sintered steel	Pinion	2.7g
	Steel; galvanized	Torque Blade	54.6g
	Steel	Various metal parts	10.1g
	Steel; zinc plated	Various metal parts	52.0g
	Steel; phosphatized	Various Coupling parts	22.3g
Others	Steel, Copper, PCBA	Motor	30.0g
	PVC / Copper	PVC Cable switch	variant
	PVC / Copper	PVC Cable output	variant
	PVC / Copper	PVC Cable power	variant
	PVC / Copper	PVC Cable motor	1.7g
	Grease with PTFE	Lubricant	1.2g
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	variant

***Variant parts list**	[g]	GSD161.1x	GSD166.1x	GSD361.1A	GSD141.1x	GSD146.1x	GSD341.1x	GSD346.1x
Total weight of device		463.6	586.1	517.3	451.4	573.9	459.3	581.8
Various parts and gears		15.2	19.2	15.2	15.2	19.2	15.2	19.2
CW/CCW Knob					0.3	0.3	0.3	0.3
Housings		151.0	150.4	134.8	151.0	150.4	151.0	150.4
Spacer Support			3.8			3.8		3.8
Lock Cover 2		0.2	0.2	0.2				
Bearing Ring, sealings		1.5	2.6	2.8	1.5	2.6	1.5	2.6
PVC Cable switch			114.2			114.2		114.2
PVC Cable output				59.8				
PVC Cable power		77.1	77.1	77.8	70.8	70.8	67.7	67.7
PCBA		29.4	29.4	37.5	23.4	23.4	34.4	34.4
Fire load	[MJ]	8	11	9	8	11	8	11
Typical energy consumption	[kWh/a]	2.11	2.11	3.25	1.84	1.84	3.95	3.95

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 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; 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 ; Melamine, CAS-Nr.108-78-1

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

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

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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