



Environmental Product Declaration

Product	Type of equipment / Product No.	GSD161.1x GSD166.1x GSD361.1A GSD141.1x GSD146.1x GSD341.1x GSD346.1x	Damper Actuator; 2Nm Damper Actuator; 2Nm Damper Actuator; 2Nm Damper Actuator; 2Nm Damper Actuator; 2Nm Damper Actuator; 2Nm Damper Actuator; 2Nm	
	Product line	Damper Actuator GAP Tiny MK3 / OpenAirTM		
	Process control	Siemens Schweiz AG Building Technologies Division Gubelstrasse 22 CH-6300 Zug		
		Management System	since	by
		ISO 14001 (Environment)	20.10.1998	SQS
		ISO 9001 (Quality)	22.07.1986	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 No. 1 (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	104g	
	22-PAP paper	Label	1g	
	22-PAP paper	Installation Instruction	16g	
	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; halogen-free	Various parts and gears	variant	
	POM TD5; halogen-free	Bearing Ring; Gear Fixation Wedge	2g	
	POM GF25; GF 25%; halogen-free	CW/CCW Knob	variant	
	PC; halogen-free	Housings	variant	
	PC G F10; GF 10%; halogen-free	Spacer Support	variant	
	PA6T/66 GF50; GF 50%; halogen-free	Gear Segment NSR	13g	

	TPV; halogen-free	Lock Cover 2	variant
	TPS SEBS; halogen-free	Bearing Ring, sealings	variant
Metals	Sintered steel	Pinion	3g
	Steel; galvanized	Torque Blade	55g
	Steel	Various metal parts	11g
	Steel; zinc plated	Various metal parts	52g
	Steel; phosphatized	Various Coupling parts	23g
Others	Steel, Copper, PCBA	Motor	30g
	PVC / Copper	PVC Cable switch	variant
	PVC / Copper	PVC Cable output	variant
	PVC / Copper	PVC Cable power	variant
	PVC / Copper	PVC Cable motor	2g
	Grease with PTFE	Grease Kluebersynth LI44-22	1g
	Grease	Grease Kluebersynth BLR 46-122	1g
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	variant

***Variant parts list**

	GSD161.1x	GSD166.1x	GSD361.1A	GSD141.1x	GSD146.1x	GSD341.1x	GSD346.1x						
Total weight of device	464	587	518	452	574	460	582						
Various parts and gears	15	19	15	15	19	15	19						
CW/CCW Knob				0	0	0	0						
Housings	151	150	135	151	150	151	150						
Spacer Support		4			4		4						
Lock Cover 2	0	0	0										
Bearing Ring, sealings	2	3	3	2	3	2	3						
PVC Cable switch		114			114		114						
PVC Cable output			60										
PVC Cable power	77	77	78	71	71	68	68						
PCBA	29	29	38	23	23	34	34						
Fire load	[MJ] 8	11	9	8	11	8	11						
Typical energy consumption	[kWh/a] 3	3	4	2	2	4	4						

Disposal

The device should not be disposed of as unsorted municipal waste. The special treatment for specific components may be mandated by law or ecologically sensible. Observe all local and applicable laws.

Comments

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive.

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

To the best of our knowledge and according to the information of our suppliers the above mentioned device and its packaging contain no 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.

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

The device is free from substances which interfere with lacquer wetting.

The device is halogen-free with exception of:
PCB (TBBA); Grease (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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