



## Environmental Product Declaration

<b>Product</b>	Type of equipment / Product No.	GRD121.1U	Damper Actuator; 7Nm
		GRD126.1U	Damper Actuator; 7Nm
		GRD221.1U	Damper Actuator; 7Nm
		GRD226.1U	Damper Actuator; 7Nm
		GRD321.1U	Damper Actuator; 7Nm
		GRD326.1U	Damper Actuator; 7Nm
	Product line	Damper Actuator GAP GSFS	
<b>Process control</b>	Siemens BFG Building Technologies Division 1000 Deerfield Parkway 60089, Buffalo Grove/Lake		
	Management System	since	by
	ISO 14001 (Environment)	20.10.1998	SQS
	ISO 9001 (Quality)	22.07.1986	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 No. 1 (former SN 36350) "Specifications on Environmentally Compatible Product and System Design".		
<b>Product use</b>	Typical energy consumption	variant *) see below	
	Maintenance	Not necessary None	
<b>Risk of fire</b>	Fire protection according to	UL 60730, EN 60730	
	Fire load	variant *) see below	
<b>Packaging</b>	20-PAP Corrugated fiber board	Cardboard	209g
	22-PAP paper	Label	1g
	22-PAP paper	Installation Instruction	16g
	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	PBT; GF 20%; halogen-free	Housings, Plug	variant
	PA66 SD10AF10CF10; AF 10%; halogen-free	Bearing Ring	2g

Metals	Sintered steel	Gears, pinion, segment	170g
	Steel; galvanized	Torque Blade	55g
	Steel	Maximo Spring; various metal parts	214g
	Steel;	Various metal parts	18g
	Steel; phosphatized	Various coupling parts	28g
	Die casting zinc	Spring Core	11g
Others	Steel, Copper, PCBA	Motors	0g
	PVC / Copper	PVC Cable switch	variant
	PVC / Copper	PVC Cable output	2g
	PVC / Copper	PVC Cable power	31g
	Grease with PTFE	Grease Kluebersynth LI44-22	2g
	Grease	Grease Kluebersynth BLR 46-122	1g
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	variant

**\*Variant parts list**

	GRD121.1U	GRD126.1U	GRD221.1U	GRD226.1U	GRD321.1U	GRD326.1U							
Total weight of device [g]	1,358	1,444	1,666	1,752	1,666	1,752							
Housings, Plug	199	204	199	204	199	204							
Bearing Ring	1	1	1	1	1	1							
Maximo Spring; various metal part	214	214	214	214	214	214							
PVC Cable switch		81		81		81							
PVC Cable output	2	2	2	2	2	2							
PVC Cable power	31	31	31	31	31	31							
Grease Kluebersynth LI44-22	1	1	1	1	1	1							
PCBA	93	93	401	401	401	401							
Fire load [MJ]	8	10	13	15	13	15							
Typical energy consumption [kWh/a]	50	50	59	59	59	59							

**Disposal**

The device is classified as waste electronic equipment in terms of the European Directive 2012/19/EU (WEEE) and must not be disposed of as unsorted municipal waste. The relevant national legal rules are to be adhered too. Regarding disposal, use the systems setup for collecting electronic waste. 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 halogen-free with exception of:

PCB (TBBA); Spring Housing (Flame retardants); 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 BFG 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.

A5W70001941

21.02.2018