



Environmental Product Declaration

Product	Type of equipment / Product No.	GQD166.1A GQD161.9A GSD341.9A	Damper Actuator; 2Nm, 24V, Spring Return, 0-10V, Switches Damper Actuator; 2Nm, 24V, Spring Return, 0-10V, for Ball Valves Damper Actuator; 2Nm, 230V, NSR, for Ball Valves
	Product line, Product range	Damper Actuator / OpenAir™	
	Process control		
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			
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 Energy consumption is between 5 and 32 kWh/a (depending mainly on running time of the actuator). Assumption in the table below: 10% operational activity.	
	Maintenance	Not necessary None	
Risk of fire	Fire protection according to Fire load	EN 60730 & UL 873 10MJ	
Packaging	20-PAP Corrugated fibreboard	Cardboard & Paper	variant
	22-PAP Paper	Mounting instruction	10g
	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 plastic parts	variant
	PA66; GF 30%; low-halogen	Gear Wheel Poti Pinion; Bolt Spring Core	variant
	PC; GF 10%; low-halogen	Various plastic parts	variant
	PP	Maximo Spring Housing	11g
	PBT; GF 30%; halogenated	Various plastic parts	variant
	ABS; halogenated	Strain Relief	variant
	PA6T/6I; GF 50%; low-halogen	Universal Shaft	variant
	TPC-ET; low-halogen	Gear Wheel	variant
Metals	Steel	Various steel parts	variant
	Zn / Zn alloy	Gear Segment	62g

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Others	Steel, Copper, Plastics	Motors	variant
	PVC	Cable (incl. motor cable)	variant
	Copper, Plastics	Microswitches	variant
PCBAs (Printed Circuit Board assembled)	FR4; TBBA; solder SnAgCu	PCBA	variant

***Variant parts list**

	[g]	GQD166.1A	GQD161.9A	GSD341.9A
Total weight of device		664	596	572
Various plastic parts		17	13	11
Gear Wheel Poti Pinion; Bolt Spr		1	1	0
Various plastic parts		131	125	131
Various plastic parts			107	109
Strain Relief			3	1
Universal Shaft			19	19
Gear Wheel				2
Various steel parts		185	106	66
Motors		41	41	50
Cable (incl. motor cable)		185	81	72
Microswitches		5		
PCBA		26	27	38

Typical energy consumption

[kWh/a]			
	2.7	2.7	1.8

Packaging

[g]			
Cardboard & Paper	122	104	105

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; Silicic acid (H₂Si₂O₅), 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; 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); Strain Relief; Various plastic parts

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

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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