



Environmental Product Declaration

Product	Type of equipment / Product No.	GBB141.1E / (lowest fire load)	Damper Actuator; 25Nm, S55499-D813
		GIB145.1E (highest fire load)	Damper Actuator; 35Nm, S55499-D812
		GIB161.1E / MO	Damper Actuator; 35Nm, S55499-D856
		GIB341.1E	Damper Actuator; 35Nm; S55499-D346
		GIB345.1E	Damper Actuator; 35Nm; S55499-D347
	Product line, Product range	Damper Actuator / OpenAirTM GBBxxx.1x/xxx / GIBxxx.1x/xxx	
Process control	Siemens Schweiz AG		
	Building Technologies Division		
	Theilerstrasse 1a		
	CH-6300 Zug		
	Management System	since	by
	ISO 9001 (Quality)	22-July-1986	SQS
Environmentally compatible product design	ISO 14001 (Environment)	20-October-1998	SQS
	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 1 and 10 kWh/a (depending mainly on running time and application)	
	Maintenance	Not necessary None	
Risk of fire	Fire protection according to	EN 60730 & UL 873	
	Fire load	variant *) see below	
Packaging	21-PAP Non-corrugated fibreboard	Cardboard & Paper	variant
	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	variant
	PC; GF 10%; halogenated	Motorflange and switch case	variant
	ABS+PC; GF 10%; halogenated	Spacer Piece	6g
	PBT; low-halogen	PCB Support	26g
	POM; low-halogen	Various Gear wheels	5g
	TPO/TPV; low-halogen	Lock plugs and cover	variant
Metals	Al alloy	Housings	757g
	Zn / Zn alloy	Hub	269g
	Steel	Various steel parts	581g

Sintering material

Pinion 8

2g

Others	Steel, Copper, Plastic	Motor	45g
	Copper, Plastic, Steel, Silver	Microswitch	variant
	Copper, Plastic, Steel, Silver	Potentiometer	variant
	PVC	Cables	variant
	Plastic, PVC 1)	EMI DAC Assy	variant
PCBAs (Printed Circuit Board assembled)	Grease with PTFE	Lubricant	3g
	FR4; TBBA; solder SnAgCu	PCBA	variant

*Variant parts list

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Total weight of device [g]	1'833	2'075	1'988	1'860	2'102
Various parts	11	32	11	11	32
Motorflange and switch case	22	43	22	22	43
Lock plugs and cover	3		3	3	
Microswitch		5			5
Potentiometer		5			5
Cables	68	262	80	68	262
EMI DAC Assy			138		
PCBA	39	39	44	65	65
Fire load [MJ]	5	10	5	5	11
Typical energy consumption [kWh/a]	4.775	4.950	9.987	9.374	9.374
Packaging					
Cardboard & Paper [g]	142	142	149	142	142

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 (H₂SiO₅), barium salt (1:1), lead-doped, CAS-Nr. 68784-75-8; Lead titanium trioxide, CAS-Nr.12060-00-3; Bisphenol A; BPA, CAS-Nr.80-05-7; 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol, CAS-Nr.119-47-1 ; Cobalt dichloride (CoCl₂), CAS-Nr.7646-79-9; Diboron trioxide, CAS-Nr.1303-86-2; Melamine, CAS-Nr.108-78-1

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

The device is low-halogen with exception of:

Various parts made of plastic (PC GF10, ABS GF10); Cables (PVC); PCB (TBBA)

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.

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