# **SIEMENS**

**Smart Infrastructure Building Products** 



# Environmental **Product Declaration**

**Product** 

Type of equipment /

Product No.

GDB131.1E(lowest fire load)

Damper Actuator; 5Nm, 24V

GDE164.1P (DA-044N024PA2XP)

(highest fire load)

GLB111.1E/MO

Adj, 2 Sw

GDB181.1E/KN

Damper Actuator; 10Nm w/ Modbus Cable

Damper Actuator; 44lb-in, NSR, 24V, 0-10V,

Adapter

Damper Actuator; 5Nm, 24V; VAV,

KONNEX bus

Product line,

Product range

Damper Actuator / OpenAirTM

**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 1 and 3 kWh/a (depending

mainly on running time of the actuator)

Maintenance Not necessary

None

EN 60730 & UL 873

Mounting instruction

Risk of fire Fire protection according to

22-PAP Paper

Total weight of device

Fire load variant \*) see below

**Packaging** 

20-PAP Corrugated fibreboard Cardboard & Paper

Notes on disposal One-way, recyclable

variant \*) see below

variant

variant

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

**Materials** 

### EPD - Type II Based on ISO 14021

# **SIEMENS**

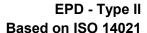
# Smart Infrastructure Building Products

ABS+PC; GF 10%; halogenated	Housing	variant
ABS; low-halogen	Cover; Fork Manual Adjustment	variant
PA66; AF 20%; low-halogen	Various plastic parts	variant
TPC-ET; low-halogen	Gear Wheel 8/9	variant
PC; halogenated	Various plastic parts	variant
PC; GF 10%; low-halogen	Various plastic parts	variant
TPV-(EPDM+PP); low-halogen	Various plastic parts	variant
PA6; GF 30%; low-halogen	Connection Nipple VAV	variant
PA6; GF 15%; low-halogen	Clutch Sensor VAV	variant
Q Silicone rubber	Silicone tubes	variant
NBR	O-rings	variant
Steel	Various steel parts	variant
Steel, Copper, Plastics	Motors	variant
PVC	Cable	variant
Copper, Plastic, Steel, Silver	Microswitch	variant
FR4; TBBA; solder SnAgCu	PCBA	variant

PCBAs (Printed Circuit Board assembled)

Metals Others

*Variant parts list	GDB131.1E (lowest fire load)	GDE164.1P (DA- 044N024PA2XP) (highest fire load)	GLB111.1E/MO	GDB181.1E/KN			
Total weight of device	599.2	704.5	651.9	685.6			
Various plastic parts	12.1	24.9	11.6	14.8			
Housing	66.9	67.4	66.9	66.9			
Cover; Fork Manual Adjustment	46.4	47.2	40.7	40.1			
Various plastic parts	9.4	9.4	10.6	9.4			
Various plastic parts			0.6	0.6			
Various plastic parts		13.8	0.5	0.5			
Various plastic parts		0.3	0.5	0.5			
Connection Nipple VAV				3.6			
Clutch Sensor VAV				2.3			
Silicone tubes				1.6			
O-rings				0.1			
Various steel parts	303.0	300.4	305.1	310.9			
Motors	83.0	80.5	83.0	83.0			
Cable	71.0	130.4	104.0	113.0			
Microswitch		4.5					
PCBA	6.0	24.4	27.0	37.0			
Fire load [MJ]	7	9	8	8			
Typical energy consumption							
[kWh/a]	0.88	1.76	2.19	2.19			
Packaging							
Cardboard & Paper [g]	56.0	147.8	56.0	56.0			
Mounting instruction		18.5					



## **SIEMENS**

### Smart Infrastructure Building Products

### 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; 4,4'-isopropylidenediphenol (Bisphenol A, 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

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

The device is low-halogen with exception of:

PVC cable; PCB (TBBA); Housing; Various plastic parts (below 1g)

### Further notes and comments:

SPECIAL COMPONENTS:

PVC POWER CABLE:  $1.5m \Rightarrow +35g / 2.5m \Rightarrow +105g / 5m \Rightarrow +280g$ 

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.

7173310174 30.11.2023