SIEMENS

Building Automation
HVAC Products

Environmental Product Declaration

Product

Device type	**Electromechanical actuator, type SSA**
Designation	**SSA31, SSA31.1, SSA31/00, SSA61, SSA61/00, SSA81, SSA81.1, SSA81/00, SSA61UG, SSA81UG**
Product range	**Valves and actuators**

Process control

Siemens AB
SE-141 87 Huddinge

Management system certified	Since	by
ISO 14001 (environment)	**31 Oct. 1996**	**SIS**
	(1 Sept. 2002	**SEMKO-DEKRA)**
ISO 9001 (quality)	**23 Nov. 1988**	**SIS**
	(1 Sept. 2002	**SEMKO-DEKRA)**

Product use

Typical energy consumption per year	**appr. SSA31 5,2 kWh at 10% duty cycle**
	appr. SSA61 1,7 kWh at 10% duty cycle
	appr. SSA81 0,6 kWh at 10% duty cycle
Maintenance	**Maintenance free**
Environmental benefits	**RoHS compliant**
	see notes on page 2

Environmental risk (fire)

Fire protection as per **EN 60730-1 and EN 60730-2-14**

SSA31

	/00	.1
Fire load [MJ]	5	4	6

SSA61

	/00	UG
Fire load [MJ]	5	4	4

SSA81

	.1	/00	UG
Fire load [MJ]	5	6	4	4

Parts containing halogens (result in corrosive smoke)
Printed circuit board
Cables

Packaging

Actuator

SSA31

	/00	.1
Cardboard [g]	45	45	45
Printed paper [g]	6	6	6

SSA61

	/00	UG
Cardboard [g]	45	45	52
Printed paper [g]	6	6	0

SSA81

	.1	/00	UG
Cardboard [g]	45	45	45	52
Printed paper [g]	6	6	6	0

Notes on disposal **Can be recycled**

Materials [g]	Actuator	**SSA31**		
			/00	**.1**
	Total weight of device*	266	194	304
Plastics	Polyetheretherketon PEEK	1	1	1
	Polyamid PA	4	4	17
	Polybutylene terephthalate PBT 20% GF	26	26	26
	ABS-polycarbonate blend PC-ABS	52	52	65
	Polyohenylene sulfide PPS 40% GF	17	17	17
	Polyoxymethylene POM	8	8	11
	Polystyrene acrylnitrile PSAN	5	5	5
	Polyvinyl chloride PVC	42	0	42
Metals	Non alloyed copper Cu	32	0	32
	Alloyed copper Cu-X	14	14	14
	Non alloyed steel Fe-C	7	7	8
	High alloy steel Fe-Cr-Ni	6	6	7
Other materials	Glue	1	1	1
External products	Motor, contains less than 3,5g Cu	26	26	26
Circuit boards with components	Total weight/	27/	27/	33/
	FR4 board contains halogens	10	10	11

	Actuator	SSA61		
			/00	UG
	Total weight of device*	258	186	188
Plastics	Polyetheretherketon PEEK	1	1	1
	Polyamid PA	4	4	4
	Polybutylene terephthalate PBT 20% GF	26	26	26
	ABS-polycarbonate blend PC-ABS	52	52	52
	Polyohenylene sulfide PPS 40% GF	17	17	17
	Polyoxymethylene POM	7	7	7
	Polyvinyl chloride PVC	52	0	3
Metals	Non alloyed copper Cu	21	0	0
	Alloyed copper Cu-X	14	14	24
	Non alloyed steel Fe-C	7	7	10
	High alloy steel Fe-Cr-Ni	6	6	6
Other materials	Glue	1	1	1
External products	Motor, contains less than 3,5g Cu	25	25	25
Circuit boards with components	Total weight/	22/	22/	22/
	FR4 board contains halogens	10	10	10

	Actuator	SSA81			
			.1	**/00**	**UG**
	Total weight of device*	259	300	186	193
Plastics	Polyetheretherketon PEEK	1	1	1	1
	Polyamid PA	4	17	4	4
	Polybutylene terephthalate PBT 20% GF	26	26	26	26
	ABS-polycarbonate blend PC-ABS	52	65	52	52
	Polyohenylene sulfide PPS 40% GF	17	17	17	17
	Polyoxymethylene POM	8	11	8	8
	Polyvinyl chloride PVC	52	52	0	0
Metals	Non alloyed copper Cu	21	21	0	0
	Alloyed copper Cu-X	14	14	14	14
	Non alloyed steel Fe-C	7	8	7	10
	High alloy steel Fe-Cr-Ni	6	7	6	6
Other materials	Glue	1	1	1	1
External products	Motor, contains less than 3,5g Cu	26/ x	26/ x	26/ X	26/ X
Circuit boards with components	Total weight/ FR4 board contains halogens	17/ 10	23/ 11	17/ 10	17/ 10

*The total weight includes even substances under 0.1% of the total weight that are not declared separately.

Disposal

Do not dispose of the device as part of standard household garbage, but as special waste from electrical and electronic components. This particularly applies to electronic circuit boards.
Additionally, the law may mandate special treatment for specific components or special treatment may be ecologically sensible.

Observe all local and applicable laws!

Environmental benefits:

The actuator reduces consumption of energy due to switch off in the end positions.

If you require further information on environmental aspects and disposal, contact your local Siemens branch office.